

|                       |  |
|-----------------------|--|
| <b>Work Category:</b> | <b>Chemicals<br/>Chemicals Services<br/>Catalyst &amp; Internal Media Changeout<br/>Internal Media Changeout</b> |
| <b>10101010S</b>      |  |

Work Category's Description: Provision of manpower, materials, consumables, equipment and facilities necessary for Unloading, Cleaning, Internal Parts Repair and Loading of Internal Media (e.g. clay, resin, salt, ACF, etc.) of vessel (e.g. Moisture removal, Chloride removal, Mercury removal, Sulphur removal, Molecular sieve, Propane treater, Butane treater, Feedgas drier, etc.)

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |  |   |   |   |                      |  |                                   |
|-------------------------------|--|---|---|---|----------------------|--|-----------------------------------|
| Key Personnel                 |  |   | Facilities<br>E.g. Warehouse,<br>Dockyard         | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification  | Experience  |   |   |                      |  |                                   |
| Supervisor                    | SPM or Equivalent with Confined space certification (AGTES – Authorized Gas Tester & Entry Supervisor) | 5 years experience in mechanical maintenance work in oil & gas industry | 1. Proper office setup in Malaysia<br>2. Workshop | 1. Vacuum machine (own/lease)<br>2. Hopper (own/lease)<br>3. Personnel rescue equipment (own/lease) |                      |  |                                   |

|                       |  |
|-----------------------|--|
| <b>Work Category:</b> | <b>Chemicals<br/>Chemicals Services<br/>Catalyst &amp; Internal Media Changeout<br/>Moving Bed</b> |
| <b>10101011S</b>      |  |

Work Category's Description: Provision of manpower, materials, consumables, equipment and facilities necessary for unloading, cleaning, internal parts repair and loading of moving bed reactor or moving bed absorber inclusive of sock loading (e.g. continuous catalyst regeneration (CCR), etc.)

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |  |   |   |   |                      |  |                                   |
|-------------------------------|--|---|---|---|----------------------|--|-----------------------------------|
| Key Personnel                 |  |   | Facilities<br>E.g. Warehouse,<br>Dockyard         | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification  | Experience  |   |   |                      |  |                                   |
| Supervisor                    | SPM or Equivalent with Confined space certification (AGTES – Authorized Gas Tester & Entry Supervisor) | 7 years experience in Catalyst Change-Out services including 1 completed project in moving bed reactor inclusive of sock loading and/or dense loading | 1. Proper office setup in Malaysia<br>2. Workshop | 1. Vacuum machine (own)<br>2. Hopper (own)<br>3. Sieving machine (own)<br>4. Inert entry equipment (own)<br>5. Personnel rescue equipment (own) |                      |  |                                   |
| Technician                    | SPM or Equivalent with Confined space certification (AESP – Authorized Entrant & Standby Person)       | 5 years experience in catalyst changeout services   |   |   |                      |  |                                   |

|                       |   |
|-----------------------|---|
| <b>Work Category:</b> | <b>Chemicals<br/>Chemicals Services<br/>Catalyst &amp; Internal Media Changeout<br/>Multi Bed</b> |
| <b>10101012S</b>      |   |

Work Category's Description: Provision of manpower, materials, consumables, equipment and facilities necessary for unloading, cleaning, internal parts repair and loading of multi bed reactor or multi bed absorber with single layer or multi layer catalyst inclusive of sock loading and/or dense loading (e.g. adsorbent chambers, distillate hydrotreating, hydrocracking, etc.)

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |  |   |   |   |                      |  |                                   |
|-------------------------------|--|---|---|---|----------------------|--|-----------------------------------|
| Key Personnel                 |  |   | Facilities<br>E.g. Warehouse,<br>Dockyard         | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification  | Experience  |   |   |                      |  |                                   |
| Supervisor                    | SPM or Equivalent with Confined space certification (AGTES – Authorized Gas Tester & Entry Supervisor) | 7 years experience in catalyst 7 years experience in Catalyst Change-Out services including 1 completed project in Multi Bed reactors | 1. Proper office setup in Malaysia<br>2. Workshop | 1. Vacuum machine (own)<br>2. Hopper (own)<br>3. Sieving machine (own)<br>4. Inert entry equipment (own)<br>5. Personnel rescue equipment (own) |                      |  |                                   |
| Technician                    | SPM or Equivalent with Confined space certification (AESP – Authorized Entrant & Standby Person)       | 5 years experience in catalyst changeout services   |   |   |                      |  |                                   |

|                       |  |
|-----------------------|--|
| <b>Work Category:</b> | <b>Chemicals<br/>Chemicals Services<br/>Catalyst &amp; Internal Media Changeout<br/>Single/Fixed Bed</b> |
| <b>10101013S</b>      |  |

Work Category's Description: Provision of manpower, materials, consumables, equipment and facilities necessary for unloading, cleaning, internal parts repair and loading of single bed reactor or single bed absorber with single-layer or multi-layer catalyst inclusive of sock loading and/or dense loading (e.g. naphtha hydrotreating, isomerisation, pressure swing absorber, steam reformer, methanol reactor, ammonia primary reformer, Residue Fluid Catalytic Cracking (RFCC), etc.)

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |  |   |   |   |                      |  |                                   |
|-------------------------------|--|---|---|---|----------------------|--|-----------------------------------|
| Key Personnel                 |  |   | Facilities<br>E.g. Warehouse,<br>Dockyard         | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification  | Experience  |   |   |                      |  |                                   |
| Supervisor                    | SPM or Equivalent with Confined space certification (AGTES – Authorized Gas Tester & Entry Supervisor) | 5 years experience in Mechanical maintenance work in Oil and Gas Industry | 1. Proper office setup in Malaysia<br>2. Workshop | 1. Vacuum machine (own / lease)<br>2. Hopper (own / lease)<br>3. Sieving machine (own / lease)<br>4. Inert entry equipment (own / lease)<br>5. Personnel rescue equipment (own / lease) |                      |  |                                   |
| Technician                    | SPM or Equivalent with Confined space certification (AESP – Authorized Entrant & Standby Person)       | 5 years experience in Catalyst Change-Out services                        |   |   |                      |  |                                   |

**Work Category:** Chemicals  
Commodity Chemicals  
Resins  
Ion Exchange Resin  
10112510P

Work Category's Description: To supply and provision of associated support services for Ion Exchange Resin

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |  |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |  |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 5 years experience in manufacture, supply and provision of associated services and minimum 10 proven track record in the field of Ion Exchange Resin |  |                                   |

**Work Category:** **Chemicals**  
**Gases**  
**Butane**  
**10121000P**

Work Category's Description: To supply and deliver butene gas

Mode of Operation: Dealer

| MINIMUM TECHNICAL REQUIREMENT   |                               |   |   |   |                      |  |                                   |
|---------------------------------|-------------------------------|---|---|---|----------------------|--|-----------------------------------|
| Key Personnel                   |                               |   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification                 | Experience  |   |   |                      |  |                                   |
| Technical Specialist/Supervisor | Degree in Engineering/Science | Minimum 1 year experience on gas handling in Oil & Gas industries |   | Able to provide transportation (lorry suitable for gas handling & transport) with competent driver (with GDL license) |                      |  |                                   |

**Work Category:** 10121000P Chemicals  
Gases  
Butane

Work Category's Description: To supply and deliver butene gas

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT   |                               |   |   |   |                      |  |   |
|---------------------------------|-------------------------------|---|---|---|----------------------|--|---|
| Key Personnel                   |                               |   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard               |
| Designation                     | Qualification                 | Experience  |   |   |                      |  |   |
| Technical Specialist/Supervisor | Degree in Engineering/Science | Minimum 1 year experience on gas handling in Oil & Gas Industries |   | Principal possesses own transportation (lorry suitable for gas handling & transport) with competent driver (with GDL license) |                      |  | Principal Certified with ISO:9001 and ISO:17025 |

**Work Category:** **Chemicals**  
**Gases**  
**Butane**  
**10121000P**

Work Category's Description: To supply and deliver butene gas

Mode of Operation: Manufacturer

| MINIMUM TECHNICAL REQUIREMENT   |                               |   |   |   |                      |  |                                       |
|---------------------------------|-------------------------------|---|---|---|----------------------|--|---------------------------------------|
| Key Personnel                   |                               |   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard     |
| Designation                     | Qualification                 | Experience  |   |   |                      |  |                                       |
| Technical Specialist/Supervisor | Degree in Engineering/Science | Minimum 1 year experience on gas handling in Oil & Gas Industries |   | Possesses own transportation (lorry suitable for gas handling & transport) with competent driver (with GDL license) |                      |  | Certified with ISO-9001 and ISO:17025 |



**Work Category:** 10121100P Chemicals  
Gases  
Nitrogen

Work Category's Description: To supply and deliver Nitrogen gas

Mode of Operation: Dealer

| Key Personnel                   |                               |   | MINIMUM TECHNICAL REQUIREMENT             |   |                      |  |                                   |
|---------------------------------|-------------------------------|---|---|---|----------------------|--|-----------------------------------|
| Designation                     | Qualification                 | Experience  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Technical Specialist/Supervisor | Degree in Engineering/Science | Minimum 1 year experience on gas handling in Oil & Gas industries |   | Able to provide transportation (lorry suitable for gas handling & transport) with competent driver (with GDL license) |                      |  |                                   |

**Work Category:** 10121100P Chemicals  
Gases  
Nitrogen

Work Category's Description: To supply and deliver Nitrogen gas

Mode of Operation: Agent

| Key Personnel                   |                               |   | MINIMUM TECHNICAL REQUIREMENT             |  |                      |  |   |
|---------------------------------|-------------------------------|---|---|--|----------------------|--|---|
| Designation                     | Qualification                 | Experience  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard               |
| Technical Specialist/Supervisor | Degree in Engineering/Science | Minimum 1 year experience on gas handling in Oil & Gas industries |   | Principal possesses own transportation (orry suitable for gas handling & transport) with competent driver (with GDL license) |                      |  | Principal Certified with ISO:9001 and ISO:17025 |

**Work Category:** 10121100P Chemicals  
Gases  
Nitrogen

Work Category's Description: To supply and deliver Nitrogen gas

Mode of Operation: Manufacturer

| Key Personnel                   |                               |   | MINIMUM TECHNICAL REQUIREMENT             |   |                      |  |                                       |
|---------------------------------|-------------------------------|---|---|---|----------------------|--|---------------------------------------|
| Designation                     | Qualification                 | Experience  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard     |
| Technical Specialist/Supervisor | Degree in Engineering/Science | Minimum 1 year experience on gas handling in Oil & Gas industries |   | Possesses own transportation (lorry suitable for gas handling & transport) with competent driver (with GDL license) |                      |  | Certified with ISO:9001 and ISO:17025 |

**Work Category:** Chemicals  
Gases  
Other Gases  
10121200P

Work Category's Description: To supply and deliver Other Application Gases excluding Butene, Nitrogen and Propane (e.g. industrial gas, purified gas, calibration gases and etc.)

Mode of Operation: Dealer

| MINIMUM TECHNICAL REQUIREMENT   |                               |   |   |   |                      |  |                                   |
|---------------------------------|-------------------------------|---|---|---|----------------------|--|-----------------------------------|
| Key Personnel                   |                               |   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification                 | Experience  |   |   |                      |  |                                   |
| Technical Specialist/Supervisor | Degree in Engineering/Science | Minimum 1 year experience on gas handling in Oil & Gas Industries |   | Able to provide transportation (lorry suitable for gas handling & transport) with competent driver (with GDL license) |                      |  |                                   |

**Work Category:** Chemicals  
Gases  
Other Gases  
10121200P

Work Category's Description: To supply and deliver Other Application Gases excluding Butene, Nitrogen and Propane (e.g. industrial gas, purified gas, calibration gases and etc.)

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT   |                               |   |   |   |                      |  |   |
|---------------------------------|-------------------------------|---|---|---|----------------------|--|---|
| Key Personnel                   |                               |   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard               |
| Designation                     | Qualification                 | Experience  |   |   |                      |  |   |
| Technical Specialist/Supervisor | Degree in Engineering/Science | Minimum 1 year experience on gas handling in Oil & Gas Industries |   | Principal possesses own transportation (lorry suitable for gas handling & transport) with competent driver (with GDL license) |                      |  | Principal Certified with ISO:9001 and ISO:17025 |

**Work Category:** **10121200P** **Chemicals Gases Other Gases**

Work Category's Description: To supply and deliver Other Application Gases excluding Butene, Nitrogen and Propane (e.g. industrial gas, purified gas, calibration gases and etc.)

Mode of Operation: Manufacturer

| MINIMUM TECHNICAL REQUIREMENT   |                               |   |   |  |                      |  |                                       |
|---------------------------------|-------------------------------|---|---|--|----------------------|--|---------------------------------------|
| Key Personnel                   |                               |   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard     |
| Designation                     | Qualification                 | Experience  |   |  |                      |  |                                       |
| Technical Specialist/Supervisor | Degree in Engineering/Science | Minimum 1 year experience on gas handling in Oil & Gas Industries |   | Possesses own transportation (orry suitable for gas handling & transport) with competent driver (with GDL license) |                      |  | Certified with ISO:9001 and ISO:17025 |

**Work Category:** Chemicals  
Gases  
Propane  
**10121300P**

Work Category's Description: To supply and deliver Propane gas

Mode of Operation: Dealer

| MINIMUM TECHNICAL REQUIREMENT   |                               |   |   |   |                      |  |                                   |
|---------------------------------|-------------------------------|---|---|---|----------------------|--|-----------------------------------|
| Key Personnel                   |                               |   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification                 | Experience  |   |   |                      |  |                                   |
| Technical Specialist/Supervisor | Degree in Engineering/Science | Minimum 1 year experience on gas handling in Oil & Gas industries |   | Able to provide transportation (lorry suitable for gas handling & transport) with competent driver (with GDL license) |                      |  |                                   |

**Work Category:** **Chemicals**  
**Gases**  
**Propane**  
**10121300P**

Work Category's Description: To supply and deliver Propane gas

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT   |                               |   |   |   |                      |  |   |
|---------------------------------|-------------------------------|---|---|---|----------------------|--|---|
| Key Personnel                   |                               |   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard               |
| Designation                     | Qualification                 | Experience  |   |   |                      |  |   |
| Technical Specialist/Supervisor | Degree in Engineering/Science | Minimum 1 year experience on gas handling in Oil & Gas industries |   | Principal possesses own transportation (torry suitable for gas handling & transport) with competent driver (with GDL license) |                      |  | Principal Certified with ISO:9001 and ISO:17025 |



**Work Category:** **Chemicals**  
**Gases**  
**Propane**  
**10121300P**

Work Category's Description: To supply and deliver Propane gas

Mode of Operation: Manufacturer

| MINIMUM TECHNICAL REQUIREMENT   |                               |   |   |   |                      |  |                                       |
|---------------------------------|-------------------------------|---|---|---|----------------------|--|---------------------------------------|
| Key Personnel                   |                               |   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard     |
| Designation                     | Qualification                 | Experience  |   |   |                      |  |                                       |
| Technical Specialist/Supervisor | Degree in Engineering/Science | Minimum 1 year experience on gas handling in Oil & Gas industries |   | Possesses own transportation (lorry suitable for gas handling & transport) with competent driver (with GDL license) |                      |  | Certified with ISO:9001 and ISO:17025 |

**Work Category:** Chemicals  
Process Chemicals  
Additives  
10141011P Anti - Blocking Agents

Work Category's Description: To supply and deliver Anti - Blocking Agents

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |   |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |   |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 5 years in formulating, manufacturing, supply and provision of associated services of additives for Oil & Gas |  |                                   |

**Work Category:** Chemicals  
Process Chemicals  
Additives  
Antifoam  
10141012P

Work Category's Description: To supply and deliver Antifoam

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |   |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |   |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 5 years in formulating, manufacturing, supply and provision of associated services of additives for Oil & Gas |  |                                   |

**Work Category:** Chemicals  
Process Chemicals  
Additives  
Conductivity Improver  
10141013P

Work Category's Description: To supply and deliver Conductivity Improver

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |   |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |   |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 5 years in formulating, manufacturing, supply and provision of associated services of additives for Oil & Gas |  |                                   |

|                       |  |
|-----------------------|--|
| <b>Work Category:</b> | <b>Chemicals</b><br><b>Process Chemicals</b><br><b>Additives</b><br><b>Other Additives</b> |
| 10141014P             |  |

Work Category's Description: To supply and deliver Other Additives excluding Anti - Blocking Agent, Antifoam and Conductivity Improver

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |   |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |   |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 5 years in formulating, manufacturing, supply and provision of associated services of additives for Oil & Gas |  |                                   |

**Work Category:** **10141100P** **Chemicals**  
**Process Chemicals**  
**Antifoulant**

Work Category's Description: To formulate, manufacture, supply and provision of associated services for Antifoulant

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |   |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |   |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in manufacture, supply and provision of associated services and minimum 5 proven track record for the supply of Antifoulant |  |                                   |

**Work Category:** **10141100P** **Chemicals**  
**Process Chemicals**  
**Antifoulant**

Work Category's Description: To formulate, manufacture, supply and provision of associated services for Antifoulant

Mode of Operation: Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |                      |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |                      |  |                                   |
|                               |               |            |   |                         |                      | 1. Business License from<br>Local Authority<br>2. Kementerian<br>Perdagangan - Akta<br>Timbang dan Sukat |                                   |

**Work Category:** Chemicals  
Process Chemicals  
Blended Chemicals  
10141400P

**Work Category's Description:** To supply and provision of associated services for Blended Chemicals such as but not limited to H2S Scavenger, Pour Point Depressant and Anti Foam

**Mode of Operation:** Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |   |                                 |         |
|-------------------------------|---------------|------------|---|-------------------------|---|---------------------------------|---------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment / Machineries | Company's Experience  | External Bodies<br>Registration | Quality |
| Position Title                | Qualification | Experience |   |                         |   |                                 |         |
|                               |               |            |   |                         | Principal to have min of 10 years in formulate, manufacture, supply and provision of associated services in Chemicals for Oil & Gas |                                 |         |



|                       |  |
|-----------------------|--|
| <b>Work Category:</b> | <b>Chemicals<br/>Process Chemicals<br/>Boiler Water Chemicals<br/>10141511P<br/>Customized Boiler Treatment Chemical</b> |
|-----------------------|--|

Work Category's Description: To formulate, manufacture, supply and provision of associated services for Customized Boiler Treatment chemical such as but not limited to Oxygen Scavenger, Neutralizing Amine and Phosphate

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT                           |  |  |   |  |   |  |   |
|---|--|--|---|--|---|--|---|
| Key Personnel   |  |  | Facilities<br>E.g. Warehouse,<br>Dockyard   | Equipment<br>E.g. Tools  | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard                 |
| Designation   | Qualification  | Experience   |   |  |   |  |   |
| Principal: Technical Advisor<br>(Chemical Production)   | Min Degree in Chemistry /<br>Applied Chemistry / Industrial<br>Chemistry                           | Minimum of 15 years<br>experience in production of<br>Boiler System Chemicals  | Principal / Company to have<br>the following:-<br>1. Blending plant<br>2. Operational laboratory<br>3. R&D Laboratory<br>(Collaboration / Self-owned)<br>4. Warehouse with stacking | Principal / Company to have<br>the following:-<br>1. Blending Plant: Minimum<br>1 unit of blending unit with<br>minimum capacity of 1000L.<br>2. Operational Laboratory:<br>all equipment used to<br>conduct all water analysis<br>(e.g. conductivity, TOC, etc) | 1. Principal to have<br>minimum 10 years<br>experience in manufacturing<br>and supplying Boiler System<br>Treatment Chemicals with<br>minimum five (5) proven<br>track record in- Oil & Gas<br>industry.<br>2. Principal / Company to<br>have minimum 10 years'<br>experience in providing<br>Boiler system chemical<br>treatment service to Oil and<br>Gas Industry with at least<br>five (5) proven track record. |  | Principal / Company to have<br>ISO 9001 certified |
| Company/<br>Principal: Technical Advisor<br>(Servicing) | Min Degree in Chemistry /<br>Applied Chemistry / Industrial<br>Chemistry                           | Minimum of 15 years<br>experience in Boiler System<br>Chemical Treatment in Oil &<br>Gas industry including<br>product application |   |  |   |  |   |
| Principal: Chemist<br>(Chemical Production)             | Min Degree in Chemistry /<br>Applied Chemistry / Industrial<br>Chemistry / Chemical<br>Engineering | Minimum of 7 years<br>experience in Boiler System<br>Chemicals Analytical Testing  |   |  |   |  |   |
| Field Engineer<br>(Servicing)                           | Min Degree in Chemistry /<br>Applied Chemistry / Industrial<br>Chemistry / Chemical<br>Engineering | Minimum of 5 years<br>experience in Boiler System<br>Chemical Treatment and<br>water quality analysis in Oil<br>& Gas industry     |   |  |   |  |   |
| Technician<br>(Servicing)                               | Diploma in any field of<br>engineering   | Minimum of 1 year<br>experience Boiler System<br>Chemical Treatment in Oil &<br>Gas Industry                                       |   |  |   |  |   |

|                       |  |
|-----------------------|--|
| <b>Work Category:</b> | <b>Chemicals</b><br><b>Process Chemicals</b><br><b>Boiler Water Chemicals</b><br><b>10141511P Customized Boiler Treatment Chemical</b> |
|-----------------------|--|

Work Category's Description: To formulate, manufacture, supply and provision of associated services for Customized Boiler Treatment chemical such as but not limited to Oxygen Scavenger, Neutralizing

Mode of Operation: Manufacturer

| MINIMUM TECHNICAL REQUIREMENT              |  |  |   |  |   |  |                                   |
|--|--|--|---|--|---|--|-----------------------------------|
| Key Personnel                              |  |  | Facilities<br>E.g. Warehouse,<br>Dockyard   | Equipment<br>E.g. Tools  | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                                | Qualification  | Experience   |   |  |   |  |                                   |
| Technical Advisor<br>(Chemical Production) | Min Degree in Chemistry /<br>Applied Chemistry / Industrial<br>Chemistry                           | Minimum of 15 years<br>experience in production of<br>Boiler System Chemicals  | 1. Blending plant<br>2. Operational laboratory<br>3. R&D Laboratory<br>(Collaboration / Self-owned)<br>4. Warehouse with stacking | 1. Blending Plant: Minimum<br>1 unit of blending unit with<br>minimum capacity of 1000L.<br>2. Operational Laboratory:<br>all equipment used to<br>conduct all water analysis<br>(e.g. conductivity, TOC, etc) | Minimum 10 years<br>experience in manufacture,<br>supply and provision of<br>associated services and<br>minimum 5 proven track<br>record in the field of Boiler<br>system chemical treatment<br>in Oil & Gas industry | 1. DOSH Permit or<br>equivalent permit from<br>Occupational Safety Health<br>Body to operate as<br>Chemical Manufacturer.<br>2. Manufacturing License<br>from Malaysian Investment<br>Development Authority<br>(MIDA).<br>3. Business License from<br>Local Authority. | ISO 9001 certified                |
| Technical Advisor<br>(Servicing)           | Min Degree in Chemistry /<br>Applied Chemistry / Industrial<br>Chemistry                           | Minimum of 15 years<br>experience in Boiler System<br>Chemical Treatment in Oil &<br>Gas industry including<br>product application |   |  |   |  |                                   |
| Chemist<br>(Chemical Production)           | Min Degree in Chemistry /<br>Applied Chemistry / Industrial<br>Chemistry / Chemical<br>Engineering | Minimum of 7 years<br>experience in Boiler System<br>Chemicals Analytical Testing  |   |  |   |  |                                   |
| Field Engineer<br>(Servicing)              | Min Degree in Chemistry /<br>Applied Chemistry / Industrial<br>Chemistry / Chemical<br>Engineering | Minimum of 5 years<br>experience in Boiler System<br>Chemical Treatment and<br>water quality analysis in Oil<br>& Gas industry     |   |  |   |  |                                   |
| Technician<br>(Servicing)                  | Diploma in any field of<br>engineering   | Minimum of 1 year<br>experience Boiler System<br>Chemical Treatment in Oil &<br>Gas industry                                       |   |  |   |  |                                   |

|                       |  |
|-----------------------|--|
| <b>Work Category:</b> | <b>Chemicals<br/>Process Chemicals<br/>Cooling Water Chemicals<br/>10141711P<br/>Customized Cooling Treatment Chemical</b> |
|-----------------------|--|

Work Category's Description: To formulate, manufacture, supply and provision of associated services for Customized Cooling Water Treatment Chemical such as but not limited to Anti Scalant, Biocides and Corrosion Inhibitor

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT                           |  |   |   |  |   |  |   |
|---|--|---|---|--|---|--|---|
| Key Personnel   |  |   | Facilities<br>E.g. Warehouse,<br>Dockyard   | Equipment<br>E.g. Tools  | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard                 |
| Designation   | Qualification  | Experience  |   |  |   |  |   |
| Principal: Technical Advisor<br>(Chemical Production)   | Min Degree in Chemistry /<br>Applied Chemistry / Industrial<br>Chemistry                           | Minimum of 15 years<br>experience in production of<br>Cooling System Chemicals  | Principal / Company to have<br>the following:-<br>1. Blending plant<br>2. Operational laboratory<br>3. R&D Laboratory<br>(Collaboration / Self-owned)<br>4. Warehouse with stacking | Principal / Company to have<br>the following:-<br>1. Blending Plant: Minimum<br>1 unit of blending unit with<br>minimum capacity of 1000L.<br>2. Operational Laboratory:<br>all equipment used to<br>conduct all water analysis<br>(e.g. conductivity, TOC, etc) | 1. Principal to have<br>minimum 10 years<br>experience in manufacturing<br>and supplying Cooling<br>System Treatment<br>Chemicals with minimum<br>five (5) proven track record<br>in- Oil & Gas industry.<br>2. Principal / Company to<br>have minimum 10 years'<br>experience in providing<br>Cooling system chemical<br>treatment service to Oil and<br>Gas Industry with at least<br>five (5) proven track record. |  | Principal / Company to have<br>ISO 9001 certified |
| Company/<br>Principal: Technical Advisor<br>(Servicing) | Min Degree in Chemistry /<br>Applied Chemistry / Industrial<br>Chemistry                           | Minimum of 15 years<br>experience in Cooling<br>System Chemical Treatment<br>in Oil & Gas industry<br>including product application |   |  |   |  |   |
| Principal: Chemist<br>(Chemical Production)             | Min Degree in Chemistry /<br>Applied Chemistry / Industrial<br>Chemistry / Chemical<br>Engineering | Minimum of 7 years<br>experience in Cooling<br>System Chemicals<br>Analytical Testing   |   |  |   |  |   |
| Field Engineer<br>(Servicing)                           | Min Degree in Chemistry /<br>Applied Chemistry / Industrial<br>Chemistry / Chemical<br>Engineering | Minimum of 5 years<br>experience in Cooling<br>System Chemical Treatment<br>and water quality analysis in<br>Oil & Gas industry     |   |  |   |  |   |
| Technician<br>(Servicing)                               | Diploma in any field of<br>engineering   | Minimum of 1 year<br>experience Cooling System<br>Chemical Treatment in Oil &<br>Gas Industry                                       |   |  |   |  |   |

|                       |  |
|-----------------------|--|
| <b>Work Category:</b> | <b>Chemicals</b><br><b>Process Chemicals</b><br><b>Cooling Water Chemicals</b><br><b>10141711P Customized Cooling Treatment Chemical</b> |
|-----------------------|--|

Work Category's Description: To formulate, manufacture, supply and provision of associated services for Customized Cooling Water Treatment Chemical such as but not limited to Anti Scalant, Biocides and Corrosion Inhibitor

Mode of Operation: Manufacturer

| MINIMUM TECHNICAL REQUIREMENT              |  |   |   |  |  |  |                                   |
|--|--|---|---|--|--|--|-----------------------------------|
| Key Personnel                              |  |   | Facilities<br>E.g. Warehouse,<br>Dockyard   | Equipment<br>E.g. Tools  | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                                | Qualification  | Experience  |   |  |  |  |                                   |
| Technical Advisor<br>(Chemical Production) | Min Degree in Chemistry /<br>Applied Chemistry / Industrial<br>Chemistry                           | Minimum of 15 years<br>experience in production of<br>Cooling System Chemicals  | 1. Blending plant<br>2. Operational laboratory<br>3. R&D Laboratory<br>(Collaboration / Self-owned)<br>4. Warehouse with stacking | 1. Blending Plant: Minimum<br>1 unit of blending unit with<br>minimum capacity of 1000L.<br><br>2. Operational Laboratory:<br>all equipment used to<br>conduct all water analysis<br>(e.g. conductivity, TOC, etc) | Minimum 10 years<br>experience in manufacture,<br>supply and provision of<br>associated services and<br>minimum 5 proven track<br>record in the field of Cooling<br>system chemical treatment<br>in Oil & Gas industry | 1. DOSH Permit or<br>equivalent permit from<br>Occupational Safety Health<br>Body to operate as<br>Chemical Manufacturer.<br><br>2. Manufacturing License<br>from Malaysian Investment<br>Development Authority<br>(MIDA).<br><br>3. Business License from<br>Local Authority. | ISO 9001 certified                |
| Technical Advisor<br>(Servicing)           | Min Degree in Chemistry /<br>Applied Chemistry / Industrial<br>Chemistry                           | Minimum of 15 years<br>experience in Cooling<br>System Chemical Treatment<br>in Oil & Gas industry<br>including product application |   |  |  |  |                                   |
| Chemist<br>(Chemical Production)           | Min Degree in Chemistry /<br>Applied Chemistry / Industrial<br>Chemistry / Chemical<br>Engineering | Minimum of 7 years<br>experience in Cooling<br>System Chemicals<br>Analytical Testing   |   |  |  |  |                                   |
| Field Engineer<br>(Servicing)              | Min Degree in Chemistry /<br>Applied Chemistry / Industrial<br>Chemistry / Chemical<br>Engineering | Minimum of 5 years<br>experience in Cooling<br>System Chemical Treatment<br>and water quality analysis in<br>Oil & Gas industry     |   |  |  |  |                                   |
| Technician<br>(Servicing)                  | Diploma in any field of<br>engineering   | Minimum of 1 year<br>experience Cooling System<br>Chemical Treatment in Oil &<br>Gas Industry                                       |   |  |  |  |                                   |

**Work Category:** Chemicals  
Process Chemicals  
Corrosion Inhibitors and Biocides  
Integrity Chemical

10141810P

**Work Category's Description:** To formulate, manufacture, supply and provision of associated services for customized Integrity Chemicals such as but not limited to CI and Biocide

**Mode of Operation:** Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |                      |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |                      |  |                                   |
|                               |               |            |   |                         |                      | 1. Business License from<br>Local Authority<br>2. Kementerian<br>Perdagangan - Akta<br>Timbang dan Sukat |                                   |

|                       |   |
|-----------------------|---|
| <b>Work Category:</b> | <b>Chemicals</b><br><b>Process Chemicals</b><br><b>Process Media</b><br><b>Activated, Carbon, Fibre &amp; Cloth</b> |
|                       | <b>10142411P</b>  |

Work Category's Description: To supply and deliver Process Media i.e. Activated Carbon, Fibre and Cloth

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |   |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |   |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 5 years experience in manufacture, supply and provision of associated services and minimum 10 proven track record in the field of Activated Carbon, sand and gravel |  |                                   |

**Work Category:** **10142610P** **Chemicals**  
**Process Chemicals**  
**Production Chemicals**  
**Demulsifiers**

**Work Category's Description:** To formulate, manufacture, supply and provision of associated services for Demulsifiers

**Mode of Operation:** Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |                      |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |                      |  |                                   |
|                               |               |            |   |                         |                      | 1. Business License from<br>Local Authority<br>2. Kementerian<br>Perdagangan - Akta<br>Timbang dan Sukat |                                   |

**Work Category:** Chemicals  
Process Chemicals  
Production Chemicals  
Deoiler/Water Clarifier

10142611P

**Work Category's Description:** To formulate, manufacture, supply and provision of associated services for Deoiler/Water Clarifier

**Mode of Operation:** Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |                      |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |                      |  |                                   |
|                               |               |            |   |                         |                      | 1. Business License from<br>Local Authority<br>2. Kementerian<br>Perdagangan - Akta<br>Timbang dan Sukat |                                   |



**Work Category:** Chemicals  
Process Chemicals  
Production Chemicals  
Dispersant  
10142612P

Work Category's Description: To formulate, manufacture, supply and provision of associated services for Dispersant

Mode of Operation: Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |                      |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |                      |  |                                   |
|                               |               |            |   |                         |                      | 1. Business License from<br>Local Authority<br>2. Kementerian<br>Perdagangan - Akta<br>Timbang dan Sukat |                                   |

**Work Category:** Chemicals  
Process Chemicals  
Production Chemicals  
Inhibitors & Biocides

10142613P

Work Category's Description: To formulate, manufacture, supply and provision of associated services for Inhibitors & Biocides

Mode of Operation: Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |                      |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |                      |  |                                   |
|                               |               |            |   |                         |                      | 1. Business License from<br>Local Authority<br>2. Kementerian<br>Perdagangan - Akta<br>Timbang dan Sukat |                                   |

**Work Category:** **Chemicals**  
**Process Chemicals**  
**Production Chemicals**  
**Other Production Chemicals**

10142614P

**Work Category's Description:** To formulate, manufacture, supply and provision of associated services for Other Production Chemicals excluding Demulsifiers, Deoiler/Water Clarifier, Dispersant, Inhibitors & Biocides, PPD - Pour Point Depressant, Sludge Breakers & Wax Removers

**Mode of Operation:** Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |                      |   |                                   |
|-------------------------------|---------------|------------|---|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |                      |   |                                   |
|                               |               |            |   |                         |                      | 1. Business License from Local Authority<br>2. Kementerian Perdagangan - Akta Timbang dan Sukat |                                   |

|                       |   |
|-----------------------|---|
| <b>Work Category:</b> | <b>Chemicals</b><br><b>Process Chemicals</b><br><b>Production Chemicals</b><br><b>PPD - Pour Point Depressant</b> |
| <b>10142615P</b>      |   |

Work Category's Description: To formulate, manufacture, supply and provision of associated services for PPD - Pour Point Depressant

Mode of Operation: Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |                      |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |                      |  |                                   |
|                               |               |            |   |                         |                      | 1. Business License from<br>Local Authority<br>2. Kementerian<br>Perdagangan - Akta<br>Timbang dan Sukat |                                   |

**Work Category:** **Chemicals**  
**Process Chemicals**  
**Production Chemicals**  
**Sludge Breakers**

10142616P

**Work Category's Description:** To formulate, manufacture, supply and provision of associated services for Sludge Breakers

**Mode of Operation:** Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |                      |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |                      |  |                                   |
|                               |               |            |   |                         |                      | 1. Business License from<br>Local Authority<br>2. Kementerian<br>Perdagangan - Akta<br>Timbang dan Sukat |                                   |

|                       |  |
|-----------------------|--|
| <b>Work Category:</b> | <b>Chemicals</b><br><b>Process Chemicals</b><br><b>Production Chemicals</b><br><b>Wax Removers</b> |
|                       | 10142617P  |

Work Category's Description: To formulate, manufacture, supply and provision of associated services for Wax Removers

Mode of Operation: Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |                      |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |                      |  |                                   |
|                               |               |            |   |                         |                      | 1. Business License from<br>Local Authority<br>2. Kementerian<br>Perdagangan - Akta<br>Timbang dan Sukat |                                   |

**Work Category:** 10143200P Chemicals  
Process Chemicals  
Water Injection Chemicals

Work Category's Description: To supply and deliver Water Injection Chemicals such as but not limited to Polyelectrolyte, Surfactant and Oxygen Scavenger

Mode of Operation: Agent

| Key Personnel |               |            | MINIMUM TECHNICAL REQUIREMENT             |                         |   |  |                                   |
|---------------|---------------|------------|---|-------------------------|---|--|-----------------------------------|
| Designation   | Qualification | Experience | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
|               |               |            |   |                         | Principal to have min of 10 years in formulate, manufacture, supply and provision of associated services in Integrity Chemicals for Oil & Gas |  |                                   |

**Work Category:** Chemicals  
Process Chemicals  
Sulphiding Agent  
**10142800P**

Work Category's Description: To supply, deliver and provide associated services for Sulphiding Agents such as but not limited to Dimethyl Disulfide (DMDS)

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |                      |  |  |
|-------------------------------|---------------|------------|---|-------------------------|----------------------|--|--|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification | Experience |   |                         |                      |  |  |
|                               |               |            |   |                         |                      |  | Meet minimum 99% purity<br>(Company to attach spec<br>sheet or lab report) |



**Work Category:** **Chemicals**  
**Process Chemicals**  
**Sulphiding Agent**  
**10142800P**

**Work Category's Description:** To supply, deliver and provide associated services for Sulphiding Agents such as but not limited to Dimethyl Disulfide (DMDS)

**Mode of Operation:** Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |                      |  |   |
|-------------------------------|---------------|------------|---|-------------------------|----------------------|--|---|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard<br><br>Meet minimum 99% purity<br>(Company to attach spec<br>sheet or lab report) |
| Designation                   | Qualification | Experience |   |                         |                      |  |   |
|                               |               |            |   |                         |                      |  |   |

**Work Category:** 11101300S **Civil, Marine, Infrastructure & Building Maintenance**  
**Civil Consultancy Services**  
**Project Management - Building, Structural & Civil Works**

Work Category's Description: The provision of project management services for Building, Structural & Civil Works

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |                             |  |  |                                |                      |  |                                   |
|-------------------------------|-----------------------------|--|--|--------------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |                             |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools        | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification               | Experience                               |  |                                |                      |  |                                   |
| Lead/Senior Civil Engineer    | Degree in Civil Engineering | 10 years experience in plant engineering | Proper office setup                    | StaadPro /Prokon or equivalent |                      |  |                                   |
| Civil Engineer                | Degree in Civil Engineering | 5 years experience in plant engineering  |  |                                |                      |  |                                   |

**Work Category:** 11130000S Civil, Marine, Infrastructure & Building Maintenance  
Grounds Maintenance Services

**Work Category's Description:** The provision of manpower, materials, equipment, services and facilities for landscaping including but not limited to tree planting, turfing, hardscape & maintenance, grass cutting, lawn mowing and regrading earth drains, clearing of access route such as Right of Way (ROW) including but not limited to clearing of bushes, shrubs and trimming of trees branches

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | CIDB B09 or CE14; Grade G1 & above               |                                   |

**Work Category:** 11141100S **Civil, Marine, Infrastructure & Building Maintenance**  
**Geotechnical Services**  
**Offshore Site Preparation**

Work Category's Description: The provision of manpower, materials, equipment, services and facilities for Offshore Site Preparation such as but not limited to underwater debris removal, seabed leveling and stumping

Mode of Operation: Agent

| Key Personnel   |   |  | MINIMUM TECHNICAL REQUIREMENT          |   |                      |  |                                   |
|-----------------|---|--|--|---|----------------------|--|-----------------------------------|
| Designation     | Qualification   | Experience   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools                   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Project Manager | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management | Manned and permanent office setup      | *Principal to provide all necessary tools |                      |  |                                   |
| Field Engineer  | Degree in any Engineering field                                     | Minimum 3 years experience in marine operation field and trained by Principal                        |  |   |                      |  |                                   |
| Site supervisor | N/A   | Minimum 5 years experience in marine operation field   |  |   |                      |  |                                   |

**Work Category:** 11141100S Civil, Marine, Infrastructure & Building Maintenance  
 Geotechnical Services  
 Offshore Site Preparation

Work Category's Description: The provision of labour, materials, equipment, services and facilities for offshore site preparation including underwater debris removal, seabed leveling, stumping, etc.

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |   |   |  |  |                      |  |                                   |
|-------------------------------|---|---|--|--|----------------------|--|-----------------------------------|
| Key Personnel                 |   |   | Facilities<br>E.g. Warehouse, Dockyard                               | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience  |  |  |                      |  |                                   |
| Project Manager               | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 8 years experience in project management Or Minimum 10 years experience in project management | 1.Manned and permanent office setup<br>2.Owned/ rented marine spread | Owned/rented relevant facilities for offshore site preparation |                      |  |                                   |
| Field Engineer                | Degree in any Engineering field                                     | Minimum 8 years experience in marine operation field  |  |  |                      |  |                                   |
| Site supervisor               | N/A   | Minimum 5 years experience in marine operation field  |  |  |                      |  |                                   |

**Work Category:** 11151000P Civil, Marine, Infrastructure & Building Maintenance  
 Marine Systems  
 Jetty

**Work Category's Description:** To supply and deliver marine systems/products related to jetty such as but not limited to mooring system (e.g. quick release hook, etc.), fendering system (e.g. single mooring point, jetty, boat landing for offshore platform, etc.), and product system (e.g. loading arm, cargo/transfer hoses, etc.)

**Mode of Operation:** Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |   |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |   |  |                                   |
|                               |               |            |  |                         | Principal to have minimum 5 years proven track records of related jetty system supply and manufacturing |  |                                   |

|                       |   |
|-----------------------|---|
| <b>Work Category:</b> | <b>Civil, Marine, Infrastructure &amp; Building Maintenance</b><br><b>Marine Systems Repairs &amp; Services</b><br><b>11161100S Single Buoy Mooring (SBMs) System</b> |
|-----------------------|---|

Work Category's Description: The provision of manpower, diver, materials, consumables and equipments necessary for inspection, troubleshooting, repair, maintenance, change out and overhaul of Single Buoy Mooring (SBMs) System

Mode of Operation: Self-operated

| Key Personnel |   |  | MINIMUM TECHNICAL REQUIREMENT                    |                           |                      |  |                                   |
|---------------|---|--|--|---------------------------|----------------------|--|-----------------------------------|
| Designation   | Qualification   | Experience   | Facilities<br>E.g. Warehouse, Dockyard           | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| SBM Engineer  | Degree in Marine / Mechanical Engineering<br>Diploma in Marine / Mechanical Engineering | 3 years experience in SBMs maintenance<br>3 years experience in SBMs maintenance       | Proper office & operational workshop in Malaysia | Access to diving services |                      |  |                                   |
| Supervisor    | Diploma in Marine / Mechanical Engineering<br>Or<br>Certificate in engineering          | 3 years experience in SBMs maintenance<br>Or<br>5 years experience in SBMs maintenance |  |                           |                      |  |                                   |

**Work Category:** 11101000S Civil, Marine, Infrastructure & Building Maintenance  
 Civil Consultancy Services  
 Building Architectural Design Services

Work Category's Description: The provision of manpower, services and project management for Building Architectural Design Services and installation works

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH              | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            |  |                         |                      | Firm must be registered with "Lembaga Arkitek Malaysia (LAM)" |                                   |



**Work Category:** 1111000S Civil, Marine, Infrastructure & Building Maintenance  
 Civil Works & Maintenance  
 Building & Structure Construction

**Work Category's Description:** The provision of manpower, materials, equipment, services and facilities necessary for Building & Structure Construction such as but not limited to construction of offices, warehouses and laboratories

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | CIDB B01/B02/ B04/CE24;<br>Grade G3 & above      |                                   |

|                       |  |
|-----------------------|--|
| <b>Work Category:</b> | <b>Civil, Marine, Infrastructure &amp; Building Maintenance</b><br><b>Civil Works &amp; Maintenance</b><br><b>Drainage &amp; Sewerage Construction &amp; Maintenance</b> |
| 11111100S             |  |

Work Category's Description: The provision of manpower, materials, equipment, services and facilities for Drainage & Sewerage Construction & Maintenance such as but not limited to monsoon drain and culvert, and also sewerage facilities including sewer pipes, treatment plant and pump house

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | 1. CIDB B27/CE19/CE38;<br>Grade G3 & above<br>2. Suruhanjaya<br>Perkhidmatan Air Negara<br>(SPAN)<br>Permit C or D (except Sabah<br>& Sarawak companies) |                                   |

**Work Category:** 1111200S Civil, Marine, Infrastructure & Building Maintenance  
 Civil Works & Maintenance  
 Onshore Marine Structure Construction & Maintenance

**Work Category's Description:** The provision of manpower, materials, equipment, services and facilities for Onshore Marine Structure Construction & Maintenance such as but not limited to jetties, ports, wharves, harbours, breakwater and river walls

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | CIDB CE03; Grade G3 & above                      |                                   |

**Work Category:** 1111300S Civil, Marine, Infrastructure & Building Maintenance  
 Civil Works & Maintenance  
 Railway Tracks Construction & Maintenance

**Work Category's Description:** The provision of manpower, materials, equipment, services and facilities for Railway Tracks Construction & Maintenance and installation works

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | CIDB CE07; Grade G1 & above                      |                                   |

**Work Category:** 11111400S Civil, Marine, Infrastructure & Building Maintenance  
 Civil Works & Maintenance  
 Road & Pavement Construction & Maintenance

Work Category's Description: The provision of labour, materials, equipment, services and facilities for Road & Pavement Construction & Maintenance such as but not limited to open carpark

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | CIDB CE01; Grade G3 & above                      |                                   |

**Work Category:** 11141000S Civil, Marine, Infrastructure & Building Maintenance  
 Geotechnical Services  
 Land Survey

**Work Category's Description:** The provision of manpower, materials, equipment, services and facilities for Land Survey such as but not limited to underground utilities scanning and mapping

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH               | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | Land Surveyor must be registered with "Board of Land Surveyor" |                                   |

**Work Category:** 11141200S Civil, Marine, Infrastructure & Building Maintenance  
 Geotechnical Services  
 Onshore Site Preparation

**Work Category's Description:** The provision of manpower, materials, equipment, services and facilities for Onshore Site Preparation such as but not limited to installation of temporary facilities, site clearing, earthworks and levelling

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | CIDB CE21; Grade G3 & above                      |                                   |

**Work Category:** 11141300S Civil, Marine, Infrastructure & Building Maintenance  
 Geotechnical Services  
 Onshore Soil Investigation

**Work Category's Description:** The provision of manpower, equipment & services for Onshore Soil Investigation (Wellsite, Onshore Facilities and Pipeline (Onshore) site investigation) including but not limited to marine condition (coastal and river)

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | CIDB CE21; Grade G3 & above                      |                                   |



**Work Category:** 11141400S Civil, Marine, Infrastructure & Building Maintenance  
 Geotechnical Services  
 Other Foundation Works

**Work Category's Description:** The provision of labour, materials, equipment, services and facilities for installation of Other Foundation Works (excluding piling) such as but not limited to pad footing, strip footing and raft foundation

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |   |                                   |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      |   |                                   |
|                               |               |            |                          |            |                      | CIDB B04 or CE21; Grade G3 & above            |                                   |

**Work Category:** 11141500S Civil, Marine, Infrastructure & Building Maintenance  
 Geotechnical Services  
 Piling

Work Category's Description: The provision of labour, materials, equipment, services and facilities for installation of all types of Piling

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | CIDB B05 or CE10; Grade G3 & above               |                                   |

**Work Category:** 11141600S Civil, Marine, Infrastructure & Building Maintenance  
 Geotechnical Services  
 Reclamation & Dredging Works

Work Category's Description: The provision of manpower, materials, equipment, services and facilities for Reclamation & Dredging Works

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |   |                                   |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      |   |                                   |
|                               |               |            |                          |            |                      | CIDB CE06 or CE18; Grade G3 & above           |                                   |

**Work Category:** 11141700S Civil, Marine, Infrastructure & Building Maintenance  
 Geotechnical Services  
 Slope Protection

**Work Category's Description:** The provision of manpower, materials, equipment, services and facilities for installation of specialised Slope Protection works such as but not limited to soil nailing, earth reinforcement and tension angle

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | CIDB CE08 or CE21; Grade G3 & above              |                                   |

**Work Category:** 11141800S Civil, Marine, Infrastructure & Building Maintenance  
Geotechnical Services  
Valuer

Work Category's Description: The provision of manpower, materials, equipment, services and facilities necessary for accurate estimation on current market properties value

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | Firm must registered with<br>'Board of Valuers,<br>Appraisers and Estate<br>Agents Malaysia' |                                   |

**Work Category:** 11191000S Civil, Marine, Infrastructure & Building Maintenance  
 Upgrading/Renovation & Repair Works  
 Concrete Repairs & Strengthening

**Work Category's Description:** The supply of manpower, materials, services and facilities for Concrete Repairs & Strengthening (reinforcement of structures) such as but not limited to pressure grouting and guniting

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | CIDB B06 or CE11; Grade G1 & above               |                                   |

**Work Category:** 11191100S Civil, Marine, Infrastructure & Building Maintenance  
 Upgrading/Renovation & Repair Works  
 Fencing

**Work Category's Description:** The provision of manpower, materials, equipment, services and facilities for construction, installation and maintenance of Fencing

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      | CIDB B04 or CE21; Grade<br>G3 & above            |                                   |
|                               |               |            |  |                         |                      |  |                                   |

**Work Category:** 11191200S Civil, Marine, Infrastructure & Building Maintenance  
 Upgrading/Renovation & Repair Works  
 General Structural/Building Painting

Work Category's Description: The supply of manpower, materials, services and facilities for internal and external painting/repainting of buildings and general structures

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | CIDB B14; Grade G1 & above                       |                                   |



**Work Category:** 11191300S Civil, Marine, Infrastructure & Building Maintenance  
 Upgrading/Renovation & Repair Works  
 Interior Decoration/Renovation

**Work Category's Description:** The provision of manpower, materials, equipment, services and facilities for Interior Decoration/Renovation of buildings such as but not limited to ceiling panels, partitions, built in fittings and raised floor works

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | CIDB B07; Grade G1 & above                       |                                   |

**Work Category:** 11191500S Civil, Marine, Infrastructure & Building Maintenance  
Upgrading/Renovation & Repair Works  
Plumbing

**Work Category's Description:** The supply of manpower, materials, services and facilities for installation, repairs and servicing of water pipes, sanitary works and plumbing fixture

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | 1. CIDB B10; Grade G1 & above<br>2. Suruhanjaya Perkhidmatan Air Negara (SPAN) Permit A for plumber (for Semenanjung Malaysia company) or Plumber and Pipe Fitter's certificate from Local Authority (for Sabah & Sarawak company) |                                   |

**Work Category:** 11191600S Civil, Marine, Infrastructure & Building Maintenance  
 Upgrading/Renovation & Repair Works  
 Roofing

Work Category's Description: The supply of manpower, materials, services and facilities for roof installation

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |                            |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|----------------------------|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH            | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | CIDB B15; Grade G1 & above |                        |

**Work Category:** 11191700S Civil, Marine, Infrastructure & Building Maintenance  
 Upgrading/Renovation & Repair Works  
 Water Proofing

Work Category's Description: The supply of manpower, materials, services and facilities of for waterproofing of building basement, roofs, floor, and wall and concrete tank

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | CIDB B08; Grade G1 & above                       |                                   |

**Work Category:** 11191800S Civil, Marine, Infrastructure & Building Maintenance  
 Upgrading/Renovation & Repair Works  
 Water Reticulation Works

**Work Category's Description:** The provision of manpower, materials, equipment, services and facilities for construction/maintenance of water supply facilities such as but not limited to piping works, treatment plant and pump house

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            |  |                         |                      | 1. CIDB B27/CE20/CE39;<br>Grade G3 & above<br>2. Suruhanjaya<br>Perkhidmatan Air Negara<br>(SPAN) Permata C or D<br>(except Sabah & Sarawak<br>companies) |                                   |

|                       |   |
|-----------------------|---|
| <b>Work Category:</b> | <b>Digital &amp; ICT</b>  |
| <b>13171900S</b>      | <b>Telecommunication Equipment &amp; Services</b>   |
|                       | <b>Network Design, Configuration &amp; Installation and Maintenance for Secured Voice &amp; Data Communication and Facilities</b> |

Work Category's Description: The provision of labor, materials, consumables, equipment and facilities necessary for repair, upgrading, change out/replacement, modification, maintenance, troubleshooting, testing and commissioning of secured voice and data communication network

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT   |   |   |  |  |                      |  |                                   |
|---------------------------------|---|---|--|--|----------------------|--|-----------------------------------|
| Key Personnel                   |   |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification                             | Experience  |  |  |                      |  |                                   |
| Project /Field Service Engineer | Degree in any Engineering field           | Minimum 3 years experience in Network Design, Configuration & Installation And Maintenance For Secured Voice & Data Communication | Manned and permanent office setup      | 1.Hand tools<br>2.Calibrators<br>3.Test Equipment<br>4.Software / Tools for diagnostic |                      |  |                                   |
| Technician                      | Certificate in relevant Engineering field | Minimum 5 years experience in Network Design, Configuration & Installation And Maintenance For Secured Voice & Data Communication |  |  |                      |  |                                   |

**Work Category:** **Digital & ICT**  
**13172700S** **Telecommunication Equipment & Services**  
**Telecommunication System Leased Services**

**Work Category's Description:** The provision of labour, materials, consumables, equipment and facilities necessary for design, repair, upgrading, change out/replacement, modification, maintenance, troubleshooting, testing and commissioning of Telecommunication System Leased Services (e.g. VSAT, DTRS, etc.)

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT   |   |  |  |  |                      |  |                                   |
|---------------------------------|---|--|--|--|----------------------|--|-----------------------------------|
| Key Personnel                   |   |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification                             | Experience   |  |  |                      |  |                                   |
| Project /Field Service Engineer | Degree in any Engineering field           | Minimum 3 years experience in Telecommunication System Leased Services | Manned and permanent office setup      | 1.Hand tools<br>2.Calibrators<br>3.Test Equipment<br>4.Software / Tools for diagnostic |                      |  |                                   |
| Technician                      | Certificate in relevant Engineering field | Minimum 5 years experience in Telecommunication System Leased Services |  |  |                      |  |                                   |

**Work Category:** 13101100P Digital & ICT  
Application Software  
Mainframe Software

**Work Category's Description:** To supply, deliver, install, test and commission of Mainframe Software specifically Z series which is the standard operation for mainframes

**Mode of Operation:** Dealer

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
| 1 ICT/EE personnel            | N/A           | N/A        |  |                         |                      |  |                                   |



**Work Category:** **13101200P** **Digital & ICT**  
**Application Software**  
**Office Software Application**

**Work Category's Description:** To supply, deliver, install, test and commission of Office Software Application such as but not limited to system software (e.g. Microsoft Windows, Mac OS X and etc.), programming software (e.g. PHP, Perl, C++ and etc.) and application software (e.g. accounting software, graphic software and etc.)

**Mode of Operation:** Dealer

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
| 1 ICT/EE personnel            | N/A           | N/A        |  |                         |                      |  |                                   |

**Work Category:** 13101300P **Digital & ICT**  
**Application Software**  
**Server Software**

**Work Category's Description:** To supply, deliver, install, test and commission of Server Software specifically those that are compatible with RISC based platform and Intel based platform

**Mode of Operation:** Dealer

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
| 1 ICT/EE personnel            | N/A           | N/A        |  |                         |                      |  |                                   |

**Work Category:** 13101500P **Digital & ICT  
Application Software  
Software for Workstations**

**Work Category's Description:** To supply, deliver, install, test and commission of Software for Workstations such as but not limited to linux, unix, technical application, scientific application and Autodesk Suite

**Mode of Operation:** Dealer

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
| 1 ICT/EE personnel            | N/A           | N/A        |  |                         |                      |  |                                   |

**Work Category:** 13111300S Digital & ICT  
 Building Automation  
 Smart Card & Related Services

**Work Category's Description:** The provision of support for warranty and maintenance of Smart Card & Related Services

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
| 1 ICT/EE personnel            | N/A           | N/A        |  |                         |                      |  |                                   |

**Work Category:** 13121000S Digital & ICT  
Data Management Services  
Backup & Restore Services

**Work Category's Description:** The provision of support for warranty and maintenance of Backup & Restore Services

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
| 1 ICT/EE personnel            | N/A           | N/A        |  |                         |                      |  |                                   |

**Work Category:** 13121100S Digital & ICT  
Data Management Services  
Computer Storage

**Work Category's Description:** The provision of support for warranty and maintenance of Computer Storage such as but not limited to tape library and peripherals

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
| 1 ICT/EE personnel            | N/A           | N/A        |  |                         |                      |  |                                   |

**Work Category:** 13121200S Digital & ICT  
 Data Management Services  
 Disaster Recovery Subscription Services

**Work Category's Description:** The provision of support for warranty and maintenance of Disaster Recovery Subscription Services which is a continuation of technology infrastructure critical to ensure business continuity in the midst/after disruptive events

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
| 1 ICT/EE personnel            | N/A           | N/A        |  |                         |                      |  |                                   |

**Work Category:** 13121400S **Digital & ICT  
Data Management Services  
Storage & Retrieval of Backup Media**

**Work Category's Description:** The provision of support for warranty and maintenance of Storage & Retrieval of Backup Media including but not limited to magnetic storage media (e.g. hard disk, magnetic tape and etc.) and optical storage media (e.g. CD, DVD and etc.)

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
| 1 ICT/EE personnel            | N/A           | N/A        |  |                         |                      |  |                                   |



**Work Category:** 13141100S Digital & ICT  
 ICT Consultancy Services  
 ICT Consultancy

**Work Category's Description:** The provision of manpower, services and project management for ICT consultancy

**Mode of Operation:** Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
| 1 ICT/EE personnel            | N/A           | N/A        |  |                         |                      |  |                                   |

**Work Category:** 13141100S Digital & ICT  
 ICT Consultancy Services  
 ICT Consultancy

**Work Category's Description:** The provision of manpower, services and project management for ICT consultancy

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
| 1 ICT/EE personnel            | N/A           | N/A        |  |                         |                      |  |                                   |

|                       |                                 |
|-----------------------|---------------------------------|
| <b>Work Category:</b> | <b>Digital &amp; ICT</b>        |
|                       | <b>ICT Consultancy Services</b> |
| 13141200S             | <b>ICT Training Services</b>    |

Work Category's Description: The provision of manpower, materials, equipment, services and facilities for ICT Training Services

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
| 1 ICT/EE personnel            | N/A           | N/A        |  |                         |                      |  |                                   |

**Work Category:** **Digital & ICT**  
**13151000P** **ICT Equipment & Hardware**  
**Accessories/Printers/Plotters/Peripherals**

**Work Category's Description:** To supply, deliver, install, test and commission of Accessories/Printers/Plotters/Peripherals that is connected to a computer either directly or via network include but not limited to mouse, keyboard, hard drive, expansion cards, graphics cards, printers, scanners, microphones, loudspeakers, webcams and plotters

**Mode of Operation:** Dealer

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
| 1 ICT/EE personnel            | N/A           | N/A        |  |                         |                      |  |                                   |

**Work Category:** 13151200P **Digital & ICT**  
**ICT Equipment & Hardware**  
**Data Storage Media**

**Work Category's Description:** To supply, deliver, install, test and commission of Data Storage Media devices which consist of primary storage, secondary storage, tertiary storage and offline storage, e.g. thumb drive, CD, DVD, CD / DVD writer, external hard disk, backup storage and etc., generally and High-End Enterprise Array (SAN), Mid-Range Enterprise Array (SAN), Network Attached Storage (NAS), Direct Attached Storage (DAS) and Tape Library

**Mode of Operation:** Dealer

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
| 1 ICT/EE personnel            | N/A           | N/A        |  |                         |                      |  |                                   |

|                       |                                     |
|-----------------------|-------------------------------------|
| <b>Work Category:</b> | <b>Digital &amp; ICT</b>            |
|                       | <b>ICT Equipment &amp; Hardware</b> |
| <b>13151400P</b>      | <b>Hardware for Workstations</b>    |

Work Category's Description: To supply, deliver, install, test and commission of Hardware for Workstations including but not limited to high-end computer specifically designed for technical or scientific applications

Mode of Operation: Dealer

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
| 1 ICT/EE personnel            | N/A           | N/A        |  |                         |                      |  |                                   |

**Work Category:** 13151500P Digital & ICT  
 ICT Equipment & Hardware  
 Mainframe

**Work Category's Description:** To supply, deliver, develop, install, test and commission of ICT system hardware's based on high end computing

**Mode of Operation:** Dealer

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
| 1 ICT/EE personnel            | N/A           | N/A        |  |                         |                      |  |                                   |

**Work Category:** 13151700P Digital & ICT  
 ICT Equipment & Hardware  
 Personal Computer

**Work Category's Description:** To supply, deliver, install, test and commission of personal computers which is intended to be used by individuals such as but not limited to desktop, laptop, netbook and tablet

**Mode of Operation:** Dealer

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
| 1 ICT/EE personnel            | N/A           | N/A        |  |                         |                      |  |                                   |



**Work Category:** **Digital & ICT**  
**13151900P** **ICT Equipment & Hardware**  
**Server**

**Work Category's Description:** To supply, deliver, develop, install, test and commission of server dedicated to run one or more services to server the needs of the users of other computers on the network such as database server, file server, mail server, print server, web server and etc., generally and Reduced Instruction Set Computing (RISC) based platform server and Intel based platform server specifically

**Mode of Operation:** Dealer

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
| 1 ICT/EE personnel            | N/A           | N/A        |  |                         |                      |  |                                   |

**Work Category:** 13171300S Digital & ICT  
 Telecommunication Equipment & Services  
 Hardware Support Services

**Work Category's Description:** The provision of manpower, materials, equipment, services and facilities for Hardware Support Services (e.g. installation, repair, maintenance, troubleshoot, migration, etc.)

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
| 1 ICT/EE personnel            | N/A           | N/A        |  |                         |                      |  |                                   |

**Work Category:** **Digital & ICT**  
**13171800S** **Telecommunication Equipment & Services**  
**Network Design, Configuration & Installation and Maintenance for ICT Voice & Data Communication and Facilities**

**Work Category's Description:** The provision of labor, materials, consumables, equipment and facilities necessary for repair, upgrading, change out/replacement, modification, maintenance, troubleshooting, testing and commissioning of ICT voice and data communication network

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | CIDB - category E                                |                                   |

**Work Category:** 14101700P Electrical Equipment & Services  
 Electrical Bulks  
 Subsea Cable

Work Category's Description: To design, assemble, supply, deliver, install, hook-up, test, commission Subsea Cable and conduct training on operation

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |  |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|--|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |  |   |                                   |
|                               |               |            |  |                         | Principal to have minimum 10 years' experience in subsea cable manufacturing |   |                                   |

|                       |  |
|-----------------------|--|
| <b>Work Category:</b> | <b>Electrical Equipment &amp; Services</b><br><b>Electrical Bunks</b><br><b>Subsea Cable</b> |
|                       | 14101700P  |

Work Category's Description: To design, assemble, supply, deliver, install, hook-up, test, commission Subsea Cable and conduct training on operation

Mode of Operation: Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |   |                      |   |                                   |
|-------------------------------|---|--|--|---|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools   | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |  |   |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience in subsea cable production  | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility<br>4. Access to cable laying barge | 1. Insulation Resistance Tester<br>2. Clamp Meter<br>3. AC/DC Current Probe<br>4. Fault Cable Locator<br>5. Electrical High Pressure Tester |                      | Business License from Local Authority         |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br><br>Or<br>Minimum 5 years experience in project management           |  |   |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 5 years experience in subsea cable installation, commission and troubleshoot. Trained and certified by Principal |  |   |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 3 years experience in subsea cable design  |  |   |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)   |  |   |                      |   |                                   |

**Work Category:** 14101700P **Electrical Equipment & Services**  
**Electrical Bults**  
**Subsea Cable**

Work Category's Description: To design, assemble, supply, deliver, install, hook-up, test, commission Subsea Cable and conduct training on operation

Mode of Operation: Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |   |                      |   |                                   |
|-------------------------------|---|--|---|---|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools   | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |   |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience in subsea cable production  | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility<br>4. R&D facility<br>5. Access to cable laying barge | 1. Insulation Resistance Tester<br>2. Clamp Meter<br>3. AC/DC Current Probe<br>4. Fault Cable Locator<br>5. Electrical High Pressure Tester |                      | Business License from Local Authority         |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management |   |   |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 10 years experience in subsea cable installation, commission and troubleshoot.                     |   |   |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 5 years experience in subsea cable design  |   |   |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)                                   |   |   |                      |   |                                   |
| R&D Engineer                  | Degree in Electrical Engineering  | Minimum 5 years experience in subsea cable design  |   |   |                      |   |                                   |

**Work Category:** 14151000P Electrical Equipment & Services  
Generators & Transformers  
Cast Resin Dry Type

Work Category's Description: To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of cast resin dry type transformers

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |  |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|--|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |  |   |                                   |
|                               |               |            |  |                         | Principal to have minimum 5 years' experience in design, engineering and assembly of cast resin dry type transformer |   |                                   |

**Work Category:** 14151000P **Electrical Equipment & Services**  
**Generators & Transformers**  
**Cast Resin Dry Type**

Work Category's Description: To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of cast resin dry type transformers

Mode of Operation: Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |   |   |  |                      |   |                                   |
|-------------------------------|---|---|---|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |   | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience  |   |  |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience cast resin dry type transformer production   | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility | 1. Multi Tester<br>2. Insulation Resistance Tester<br>3. Clamp Meter<br>4. AC/DC Current Probe<br>5. Voltage Regulator<br>6. Transformer turn ratio test set |                      | Business License from Local Authority         |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management                                  |   |  |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 5 years experience in cast resin dry type transformer installation, commission and troubleshoot. Trained and certified by Principal |   |  |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 3 years experience cast resin dry type transformer design   |   |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)  |   |  |                      |   |                                   |



**Work Category:** 14151000P **Electrical Equipment & Services**  
**Generators & Transformers**  
**Cast Resin Dry Type**

Work Category's Description: To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of cast resin dry type transformers

Mode of Operation: Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |  |                      |   |                                   |
|-------------------------------|---|--|--|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |  |  |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience in cast resin dry type transformer production                                   | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility<br>4. R&D facility | 1. Multi Tester<br>2. Insulation Resistance Tester<br>3. Clamp Meter<br>4. AC/DC Current Probe<br>5. Voltage Regulator<br>6. Transformer turn ratio test set |                      | Business License from Local Authority         |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management |  |  |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 10 years experience in cast resin dry type transformer installation, commission and troubleshoot   |  |  |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 5 years experience in cast resin dry type transformer design                                       |  |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)                                   |  |  |                      |   |                                   |
| R&D Engineer                  | Degree in Electrical Engineering  | Minimum 5 years experience in cast resin dry type transformer design                                       |  |  |                      |   |                                   |

**Work Category:** 14151100P Electrical Equipment & Services  
Generators & Transformers  
Closed Cycle Vapour Turbogenerator (CCVT)

Work Category's Description: To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of Closed Cycle Vapour Turbogenerator (CCVT)

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |   |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|---|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |   |   |                                   |
|                               |               |            |  |                         | Principal to have minimum 5 years' experience in design, engineering and assembly of CCVT |   |                                   |

|                       |  |
|-----------------------|--|
| <b>Work Category:</b> | <b>Electrical Equipment &amp; Services<br/>Generators &amp; Transformers<br/>Closed Cycle Vapour Turbogenerator (CCVT)</b> |
| 14151100P             |  |

Work Category's Description: To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of Closed Cycle Vapour Turbogenerator (CCVT)

Mode of Operation: Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |   |  |   |                      |   |                                   |
|-------------------------------|---|---|--|---|----------------------|---|-----------------------------------|
| Key Personnel                 |   |   | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools   | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience  |  |   |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience<br>CCVT production   | 1. Manned and permanent office<br>setup<br>2. Assembling facility<br>3. Testing facility | 1. Multi Tester<br>2. Insulation Resistance Tester<br>3. Clamp Meter<br>4. Vibration Meter<br>5. AC/DC Current Probe<br>6. Tachometer<br>7. Temperature Measurement<br>Device |                      | Business License from Local<br>Authority      |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in<br>project management<br>Or<br>Minimum 5 years experience in<br>project management          |  |   |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 5 years experience in<br>CCVT installation, commission<br>and troubleshoot. Trained and<br>certified by Principal |  |   |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 3 years experience<br>CCVT design   |  |   |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience<br>doing QA/QC and Factory<br>Acceptance Test (FAT)  |  |   |                      |   |                                   |

**Work Category:** Electrical Equipment & Services  
 Generators & Transformers  
 14151100P Closed Cycle Vapour Turbogenerator (CCVT)

Work Category's Description: To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of Closed Cycle Vapour Turbogenerator (CCVT)

Mode of Operation: Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |  |                      |   |                                   |
|-------------------------------|---|--|--|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |  |  |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience in CCVT production  | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility<br>4. R&D facility | 1. Multi Tester<br>2. Insulation Resistance Tester<br>3. Clamp Meter<br>4. Vibration Meter<br>5. AC/DC Current Probe<br>6. Tachometer<br>7. Temperature Measurement Device |                      | Business License from Local Authority         |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management |  |  |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 10 years experience in CCVT installation, commission and troubleshoot                              |  |  |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 5 years experience in CCVT design  |  |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)                                   |  |  |                      |   |                                   |
| R&D Engineer                  | Degree in Electrical Engineering  | Minimum 5 years experience in CCVT design  |  |  |                      |   |                                   |

**Work Category:** 14151200P Electrical Equipment & Services  
Generators & Transformers  
Diesel Engine Driven Generator

Work Category's Description: To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of Diesel Engine Driven Generator

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |   |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|---|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |   |   |                                   |
|                               |               |            |  |                         | Principal to have minimum 5 years' experience in design, engineering and assembly of diesel engine driven generator |   |                                   |

**Work Category:** 14151200P **Electrical Equipment & Services**  
**Generators & Transformers**  
**Diesel Engine Driven Generator**

Work Category's Description: To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of Diesel Engine Driven Generator

Mode of Operation: Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |  |                      |   |                                   |
|-------------------------------|---|--|---|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |  |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience diesel engine driven generator production   | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility | 1. Multi Tester<br>2. Insulation Resistance Tester<br>3. Clamp Meter<br>4. Vibration Meter<br>5. AC/DC Current Probe<br>6. Tachometer<br>7. Temperature Measurement Device |                      | Business License from Local Authority         |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management                                 |   |  |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 5 years experience in diesel engine driven generator installation, commission and troubleshoot. Trained and certified by Principal |   |  |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 3 years experience diesel engine driven generator design   |   |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)   |   |  |                      |   |                                   |

|                       |   |
|-----------------------|---|
| <b>Work Category:</b> | <b>Electrical Equipment &amp; Services<br/>Generators &amp; Transformers<br/>Diesel Engine Driven Generator</b> |
| 14151200P             |   |

Work Category's Description: To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of Diesel Engine Driven Generator

Mode of Operation: Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |  |                      |   |                                   |
|-------------------------------|---|--|--|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |  |  |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience in diesel engine driven generator production                                    | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility<br>4. R&D facility | 1. Multi Tester<br>2. Insulation Resistance Tester<br>3. Clamp Meter<br>4. Vibration Meter<br>5. AC/DC Current Probe<br>6. Tachometer<br>7. Temperature Measurement Device |                      | Business License from Local Authority         |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management |  |  |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 10 years experience in diesel engine driven generator installation, commission and troubleshoot    |  |  |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 5 years experience in diesel engine driven generator design  |  |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)                                   |  |  |                      |   |                                   |
| R&D Engineer                  | Degree in Electrical Engineering  | Minimum 5 years experience in diesel engine driven generator design  |  |  |                      |   |                                   |

**Work Category:** 14151300P Electrical Equipment & Services  
Generators & Transformers  
Gas Engine Driven Generator

Work Category's Description: To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of Gas Engine Driven Generator

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |  |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|--|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |  |   |                                   |
|                               |               |            |  |                         | Principal to have minimum 5 years' experience in design, engineering and assembly of gas engine driven generator |   |                                   |



**Work Category:** 14151300P **Electrical Equipment & Services**  
**Generators & Transformers**  
**Gas Engine Driven Generator**

Work Category's Description: To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of Gas Engine Driven Generator

Mode of Operation: Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |   |   |  |                      |   |                                   |
|-------------------------------|---|---|---|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |   | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience  |   |  |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience gas engine driven generator production   | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility | 1. Multi Tester<br>2. Insulation Resistance Tester<br>3. Clamp Meter<br>4. Vibration Meter<br>5. AC/DC Current Probe<br>6. Tachometer<br>7. Temperature Measurement Device |                      | Business License from Local Authority         |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management                              |   |  |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 5 years experience in gas engine driven generator installation, commission and troubleshoot. Trained and certified by Principal |   |  |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 3 years experience gas engine driven generator design   |   |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)  |   |  |                      |   |                                   |

|                       |  |
|-----------------------|--|
| <b>Work Category:</b> | <b>Electrical Equipment &amp; Services<br/>Generators &amp; Transformers<br/>Gas Engine Driven Generator</b> |
| 14151300P             |  |

Work Category's Description: To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of Gas Engine Driven Generator

Mode of Operation: Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |  |                      |   |                                   |
|-------------------------------|---|--|--|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |  |  |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience in gas engine driven generator production                                       | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility<br>4. R&D facility | 1. Multi Tester<br>2. Insulation Resistance Tester<br>3. Clamp Meter<br>4. Vibration Meter<br>5. AC/DC Current Probe<br>6. Tachometer<br>7. Temperature Measurement Device |                      | Business License from Local Authority         |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management |  |  |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 10 years experience in gas engine driven generator installation, commission and troubleshoot       |  |  |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 5 years experience in gas engine driven generator design   |  |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)                                   |  |  |                      |   |                                   |
| R&D Engineer                  | Degree in Electrical Engineering  | Minimum 5 years experience in gas engine driven generator design   |  |  |                      |   |                                   |

**Work Category:** 14151400P Electrical Equipment & Services  
Generators & Transformers  
Micro Turbine Generator

Work Category's Description: To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of Micro Turbine Generator

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |  |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|--|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |  |   |                                   |
|                               |               |            |  |                         | Principal to have minimum 5 years' experience in design, engineering and assembly of micro turbine generator |   |                                   |

**Work Category:** 14151400P **Electrical Equipment & Services  
Generators & Transformers  
Micro Turbine Generator**

**Work Category's Description:** To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of Micro Turbine Generator

**Mode of Operation:** Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |   |   |  |                      |   |                                   |
|-------------------------------|---|---|---|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |   | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience  |   |  |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience micro turbine generator production   | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility | 1. Multi Tester<br>2. Insulation Resistance Tester<br>3. Clamp Meter<br>4. Vibration Meter<br>5. AC/DC Current Probe<br>6. Tachometer<br>7. Temperature Measurement Device |                      | Business License from Local Authority         |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management                          |   |  |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 5 years experience in micro turbine generator installation, commission and troubleshoot. Trained and certified by Principal |   |  |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 3 years experience micro turbine generator design   |   |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)  |   |  |                      |   |                                   |

**Work Category:** 14151400P **Electrical Equipment & Services  
Generators & Transformers  
Micro Turbine Generator**

Work Category's Description: To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of Micro Turbine Generator

Mode of Operation: Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |  |                      |   |                                   |
|-------------------------------|---|--|--|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |  |  |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience in micro turbine generator production   | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility<br>4. R&D facility | 1. Multi Tester<br>2. Insulation Resistance Tester<br>3. Clamp Meter<br>4. Vibration Meter<br>5. AC/DC Current Probe<br>6. Tachometer<br>7. Temperature Measurement Device |                      | Business License from Local Authority         |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management |  |  |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 10 years experience in micro turbine generator installation, commission and troubleshoot           |  |  |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 5 years experience in micro turbine generator design   |  |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)                                   |  |  |                      |   |                                   |
| R&D Engineer                  | Degree in Electrical Engineering  | Minimum 5 years experience in micro turbine generator design   |  |  |                      |   |                                   |

**Work Category:** 14151500P Electrical Equipment & Services  
Generators & Transformers  
Oil Immersion Type

Work Category's Description: To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of Oil Immersion Type Transformers

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |  |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|--|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |  |   |                                   |
|                               |               |            |  |                         | Principal to have minimum 3 years' experience in engineering (shop drawing) and assembly of oil immersion type transformer |   |                                   |

**Work Category:** 14151500P **Electrical Equipment & Services  
Generators & Transformers  
Oil Immersion Type**

Work Category's Description: To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of Oil Immersion Type Transformers

Mode of Operation: Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |  |                      |   |                                   |
|-------------------------------|---|--|---|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |  |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience oil immersion type transformer production   | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility | 1. Multi Tester<br>2. Insulation Resistance Tester<br>3. Clamp Meter<br>4. AC/DC Current Probe<br>5. Voltage Regulator<br>6. Transformer turn ratio test set |                      | Business License from Local Authority         |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management                                 |   |  |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 5 years experience in oil immersion type transformer installation, commission and troubleshoot. Trained and certified by Principal |   |  |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 3 years experience oil immersion type transformer design   |   |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)   |   |  |                      |   |                                   |

**Work Category:** 14151500P **Electrical Equipment & Services  
Generators & Transformers  
Oil Immersion Type**

Work Category's Description: To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of Oil Immersion Type Transformers

Mode of Operation: Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |  |                      |   |                                   |
|-------------------------------|---|--|--|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |  |  |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience in oil immersion type transformer production                                    | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility<br>4. R&D facility | 1. Multi Tester<br>2. Insulation Resistance Tester<br>3. Clamp Meter<br>4. AC/DC Current Probe<br>5. Voltage Regulator<br>6. Transformer turn ratio test set |                      | Business License from Local Authority         |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management |  |  |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 10 years experience in oil immersion type transformer installation, commission and troubleshoot    |  |  |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 5 years experience in oil immersion type transformer design  |  |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)                                   |  |  |                      |   |                                   |
| R&D Engineer                  | Degree in Electrical Engineering  | Minimum 5 years experience in oil immersion type transformer design  |  |  |                      |   |                                   |



**Work Category:** 14161000P Electrical Equipment & Services  
 Power Distribution & Control  
 Containerized Substation

Work Category's Description: To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of Containerized Substation

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |   |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|---|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |   |   |                                   |
|                               |               |            |  |                         | Principal to have minimum 5 years' experience in design, engineering and assembly of containerized substation |   |                                   |

**Work Category:** 14161000P **Electrical Equipment & Services**  
**Power Distribution & Control**  
**Containerized Substation**

Work Category's Description: To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of Containerized Substation

Mode of Operation: Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |  |                      |   |                                   |
|-------------------------------|---|--|---|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |  |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience containerized substation production   | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility | 1. Multi Tester<br>2. Insulation Resistance Tester<br>3. Micro Ohm Meter<br>4. Clamp Meter<br>5. AC/DC Current Probe<br>6. Voltage Regulator |                      | Business License from Local Authority         |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management                           |   |  |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 5 years experience in containerized substation installation, commission and troubleshoot. Trained and certified by Principal |   |  |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 3 years experience containerized substation design   |   |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)   |   |  |                      |   |                                   |

**Work Category:** 14161000P Electrical Equipment & Services  
Power Distribution & Control  
Containerized Substation

Work Category's Description: To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of Containerized Substation

Mode of Operation: Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |  |                      |   |                                   |
|-------------------------------|---|--|--|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |  |  |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience in containerized substation   | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility<br>4. R&D facility | 1. Multi Tester<br>2. Insulation Resistance Tester<br>3. Micro Ohm Meter<br>4. Clamp Meter<br>5. AC/DC Current Probe<br>6. Voltage Regulator |                      | Business License from Local Authority         |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management |  |  |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 10 years experience in containerized substation installation, commission and troubleshoot          |  |  |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 5 years experience in containerized substation design  |  |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)                                   |  |  |                      |   |                                   |
| R&D Engineer                  | Degree in Electrical Engineering  | Minimum 5 years experience in containerized substation design  |  |  |                      |   |                                   |

**Work Category:** Electrical Equipment & Services  
 Power Distribution & Control  
 14161600P Low Voltage Switchboard/Switchgear/MCC/Air Circuit Breaker(ACB)/Busbar

Work Category's Description: To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of Low Voltage Switchboard/Switchgear/MCC/Air Circuit Breaker(ACB)/Busbar

Mode of Operation: Assembler

| Key Personnel          |   |  | MINIMUM TECHNICAL REQUIREMENT   |  |                      |   |                                   |
|------------------------|---|--|---|--|----------------------|---|-----------------------------------|
| Designation            | Qualification   | Experience   | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Production Manager     | Degree in any Engineering field   | Minimum 5 years experience in LV switchgear production   | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility | 1. Multi Tester<br>2. Insulation Resistance Tester<br>3. Micro Ohm Meter<br>4. Clamp Meter<br>5. AC/DC Current Probe<br>6. Voltage Regulator |                      | Business License from Local Authority         |                                   |
| Project Coordinator    | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management                   |   |  |                      |   |                                   |
| Field Service Engineer | Degree in Electrical Engineering  | Minimum 5 years experience in LV switchgear installation, commission and troubleshooting. Trained and certified by Principal |   |  |                      |   |                                   |
| Design Engineer        | Degree in Electrical Engineering  | Minimum 3 years experience in LV switchgear design   |   |  |                      |   |                                   |
| QA/QC Engineer         | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)   |   |  |                      |   |                                   |

**Work Category:** 14161600P **Electrical Equipment & Services**  
**Power Distribution & Control**  
**Low Voltage Switchboard/Switchgear/MCC/Air Circuit Breaker(ACB)/Busbar**

Work Category's Description: To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of low voltage switchboard/switchgear/MCC/ACB/Busbar/air break contactors

Mode of Operation: Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |  |                      |   |                                   |
|-------------------------------|---|--|--|--|----------------------|---|-----------------------------------|
| Designation                   | Key Personnel   |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
|                               | Qualification   | Experience   |  |  |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience in LV switchgear production   | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility<br>4. R&D facility | 1. Multi Tester<br>2. Insulation Resistance Tester<br>3. Micro Ohm Meter<br>4. Clamp Meter<br>5. AC/DC Current Probe<br>6. Voltage Regulator |                      |   |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management |  |  |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 10 years experience in LV switchgear installation, commission and troubleshoot                     |  |  |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 5 years experience in LV switchgear design   |  |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)                                   |  |  |                      |   |                                   |
| R&D Engineer                  | Degree in Electrical Engineering  | Minimum 5 years experience in LV switchgear design   |  |  |                      |   |                                   |

**Work Category:** Electrical Equipment & Services  
 14161700P Power Distribution & Control  
 High Voltage Switchboard/Switchgear/Vacuum Circuit Breaker (VCB)/Vacuum Contactor Unit (VCU)/Contactor/Busbar

**Work Category's Description:** To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of High Voltage Switchboard/Switchgear/Vacuum Circuit Breaker (VCB)/Vacuum Contactor Unit (VCU)/Contactor/Busbar

**Mode of Operation:** Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |  |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|--|---|-----------------------------------|
| Designation                   | Key Personnel |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
|                               | Qualification | Experience |  |                         |  |   |                                   |
|                               |               |            |  |                         | Principal to have minimum 5 years' experience in design, engineering and assembly of HV switchgear |   |                                   |

**Work Category:** Electrical Equipment & Services  
 Power Distribution & Control  
 14161700P High Voltage Switchboard/Switchgear/Vacuum Circuit Breaker (VCB)/Vacuum Contactor Unit (VCU)/Contactor/Busbar

Work Category's Description: To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of high voltage switchboard/switchgear/VCB/VCU/Contactor/Busbar

Mode of Operation: Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |   |   |  |                      |   |                                   |
|-------------------------------|---|---|---|--|----------------------|---|-----------------------------------|
| Designation                   | Key Personnel   |   | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
|                               | Qualification   | Experience  |   |  |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience in HV switchgear production  | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility | 1. Multi Tester<br>2. Insulation Resistance Tester<br>3. Micro Ohm Meter<br>4. Clamp Meter<br>5. AC/DC Current Probe<br>6. Voltage Regulator |                      | Business License from Local Authority         |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management                |   |  |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 5 years experience in HV switchgear installation, commission and troubleshoot. Trained and certified by Principal |   |  |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 3 years experience in HV switchgear design  |   |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)  |   |  |                      |   |                                   |

**Work Category:** 14161700P **Electrical Equipment & Services**  
**Power Distribution & Control**  
**High Voltage Switchboard/Switchgear/Vacuum Circuit Breaker (VCB)/Vacuum Contactor Unit (VCU)/Contactor/Busbar**

Work Category's Description: To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of high voltage switchboard/switchgear/VCB/VCU/Contactor/Busbar

Mode of Operation: Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |  |                      |   |                                   |
|-------------------------------|---|--|--|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |  |  |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience in HV switchgear production   | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility<br>4. R&D facility | 1. Multi Tester<br>2. Insulation Resistance Tester<br>3. Micro Ohm Meter<br>4. Clamp Meter<br>5. AC/DC Current Probe<br>6. Voltage Regulator |                      | Business License from Local Authority         |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management |  |  |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 10 years experience in HV switchgear installation, commission and troubleshoot                     |  |  |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 5 years experience in HV switchgear design   |  |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)                                   |  |  |                      |   |                                   |
| R&D Engineer                  | Degree in Electrical Engineering  | Minimum 5 years experience in HV switchgear design   |  |  |                      |   |                                   |



**Work Category:** 14162000P Electrical Equipment & Services  
 Power Distribution & Control  
 Telecontrol & Substation Automation System

Work Category's Description: To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of Telecontrol & Substation Automation System

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |   |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|---|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |   |   |                                   |
|                               |               |            |  |                         | Principal to have minimum 5 years' experience in design, engineering and assembly of telecontrol & substation automation system |   |                                   |

**Work Category:** 14162000P Electrical Equipment & Services  
Power Distribution & Control  
Telecontrol & Substation Automation System

Work Category's Description: To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of Telecontrol & Substation Automation System

Mode of Operation: Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |  |                      |   |                                   |
|-------------------------------|---|--|---|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |  |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience telecontrol & substation automation system system production  | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility | 1. Multi Tester<br>2. Scope Meter<br>3. Insulation Resistance Tester<br>4. Clamp Meter<br>5. AC/DC Current Probe<br>6. Voltage Regulator |                      | Business License from Local Authority         |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management   |   |  |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 5 years experience in telecontrol & substation automation system installation, commission and troubleshoot. Trained and certified by Principal |   |  |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 3 years experience telecontrol & substation automation system system design  |   |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)   |   |  |                      |   |                                   |

**Work Category:** 14162000P **Electrical Equipment & Services**  
**Power Distribution & Control**  
**Telecontrol & Substation Automation System**

Work Category's Description: To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of Telecontrol & Substation Automation System

Mode of Operation: Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |  |                      |   |                                   |
|-------------------------------|---|--|--|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |  |  |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience in telecontrol & substation automation system system production                                 | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility<br>4. R&D facility | 1. Multi Tester<br>2. Scope Meter<br>3. Insulation Resistance Tester<br>4. Clamp Meter<br>5. AC/DC Current Probe<br>6. Voltage Regulator |                      | Business License from Local Authority         |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management                 |  |  |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 10 years experience in telecontrol & substation automation system system installation, commission and troubleshoot |  |  |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 5 years experience in telecontrol & substation automation system system transformer design                         |  |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)   |  |  |                      |   |                                   |
| R&D Engineer                  | Degree in Electrical Engineering  | Minimum 5 years experience in telecontrol & substation automation system system design                                     |  |  |                      |   |                                   |

**Work Category:** 14162100P Electrical Equipment & Services  
 Power Distribution & Control  
 Variable Speed Drives and Soft Starter

Work Category's Description: To design, supply, deliver, install, hook up, test, commission and personnel training of Variable Speed Drives and Soft Starter System

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |  |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|--|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |  |   |                                   |
|                               |               |            |  |                         | Principal to have minimum 5 years' experience in design, engineering and assembly of VSD and soft starter system |   |                                   |

**Work Category:** 14162100P **Electrical Equipment & Services**  
**Power Distribution & Control**  
**Variable Speed Drives and Soft Starter**

Work Category's Description: To design, supply, deliver, install, hook up, test, commission and personnel training of Variable Speed Drives and Soft Starter System

Mode of Operation: Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |   |   |  |                      |   |                                   |
|-------------------------------|---|---|---|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |   | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience  |   |  |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience VSD and soft starter system production   | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility | 1. Multi Tester<br>2. Scope Meter<br>3. Insulation Resistance Tester<br>4. Clamp Meter<br>5. AC/DC Current Probe<br>6. Voltage Regulator |                      | Business License from Local Authority         |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br><br>Or<br>Minimum 5 years experience in project management                          |   |  |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 5 years experience in VSD and soft starter system installation, commission and troubleshoot. Trained and certified by Principal |   |  |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 3 years experience VSD and soft starter system design   |   |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)  |   |  |                      |   |                                   |

**Work Category:** 14162100P **Electrical Equipment & Services**  
**Power Distribution & Control**  
**Variable Speed Drives and Soft Starter**

Work Category's Description: To design, supply, deliver, install, hook up, test, commission and personnel training of VSD & Soft Starter System

Mode of Operation: Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |  |                      |   |                                   |
|-------------------------------|---|--|--|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |  |  |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience in VSD and soft starter system production                                       | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility<br>4. R&D facility | 1. Multi Tester<br>2. Scope Meter<br>3. Insulation Resistance Tester<br>4. Clamp Meter<br>5. AC/DC Current Probe<br>6. Voltage Regulator |                      | Business License from Local Authority         |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management |  |  |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 10 years experience in VSD and soft starter system installation, commission and troubleshoot       |  |  |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 5 years experience in VSD and soft starter system transformer design                               |  |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)                                   |  |  |                      |   |                                   |
| R&D Engineer                  | Degree in Electrical Engineering  | Minimum 5 years experience in VSD and soft starter system design   |  |  |                      |   |                                   |

**Work Category:** 14181300P Electrical Equipment & Services  
 Power Supply System  
 Industrial UPS - Static Type

**Work Category's Description:** To design, assemble, supply, deliver, install, hook-up, test, commission Industrial UPS - Static Type and conduct training on operation

**Mode of Operation:** Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |   |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|---|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |   |   |                                   |
|                               |               |            |  |                         | Principal to have minimum 5 years experience in design, engineering and assembly of UPS |   |                                   |

**Work Category:** 14181300P **Electrical Equipment & Services**  
**Power Supply System**  
**Industrial UPS - Static Type**

Work Category's Description: To design, assemble, supply, deliver, install, hook-up, test, commission Industrial UPS - Static Type and conduct training on operation

Mode of Operation: Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |   |   |  |                      |   |                                   |
|-------------------------------|---|---|---|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |   | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience  |   |  |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience in UPS production  | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility | 1. Multi Tester<br>2. Scope Meter<br>3. Insulation Resistance Tester<br>4. Clamp Meter<br>5. AC/DC Current Probe<br>6. Voltage Regulator<br>7. Load Bank<br>8. Manufacturing Software for Configuration & Diagnostic |                      | Business License from Local Authority         |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management      |   |  |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 5 years experience in UPS installation, commission and troubleshoot. Trained and certified by Principal |   |  |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 3 years experience in UPS design  |   |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)  |   |  |                      |   |                                   |



**Work Category:** Electrical Equipment & Services  
 14181300P Power Supply System  
 Industrial UPS - Static Type

Work Category's Description: To design, assemble, supply, deliver, install, hook-up, test, commission Industrial UPS - Static Type and conduct training on operation

Mode of Operation: Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |  |                      |   |                                   |
|-------------------------------|---|--|---|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |  |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience in UPS production   | 1. Manned and permanent office setup<br>2. Manufacturing facility<br>3. Testing facility<br>4. R&D facility | 1. Multi Tester<br>2. Scope Meter<br>3. Insulation Resistance Tester<br>4. Clamp Meter<br>5. AC/DC Current Probe<br>6. Voltage Regulator<br>7. Load Bank<br>8. Manufacturing Software for Configuration & Diagnostic |                      | Business License from Local Authority         |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management |   |  |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 10 years experience in UPS installation, commission and troubleshoot                               |   |  |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 5 years experience in UPS design   |   |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)                                   |   |  |                      |   |                                   |
| R&D Engineer                  | Degree in Electrical Engineering  | Minimum 5 years experience in UPS design   |   |  |                      |   |                                   |

**Work Category:** 14181600P Electrical Equipment & Services  
 Power Supply System  
 Solar Power Supply

Work Category's Description: To design, assemble, supply, deliver, install, hook-up, test, commission Solar Power Supply and conduct training on operation

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |  |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|--|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |  |   |                                   |
|                               |               |            |  |                         | Principal to have minimum 5 years experience in design, engineering and assembly of Solar Power Supply |   |                                   |

**Work Category:** 14181600P Electrical Equipment & Services  
Power Supply System  
Solar Power Supply

Work Category's Description: To design, assemble, supply, deliver, install, hook-up, test, commission Solar Power Supply and conduct training on operation

Mode of Operation: Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |  |                      |   |                                   |
|-------------------------------|---|--|---|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |  |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience in Solar Power Supply production  | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility | 1. Multi Tester<br>2. Scope Meter<br>3. Insulation Resistance Tester<br>4. Clamp Meter<br>5. AC/DC Current Probe<br>6. Voltage Regulator<br>7. Load Bank<br>8. Manufacturing Software for Configuration & Diagnostic |                      | Business License from Local Authority         |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management                     |   |  |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 5 years experience in Solar Power Supply installation, commission and troubleshoot. Trained and certified by Principal |   |  |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 3 years experience in Solar Power Supply design  |   |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)   |   |  |                      |   |                                   |

**Work Category:** 14181600P **Electrical Equipment & Services**  
**Power Supply System**  
**Solar Power Supply**

Work Category's Description: To design, assemble, supply, deliver, install, hook-up, test, commission Solar Power Supply and conduct training on operation

Mode of Operation: Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |  |                      |   |                                   |
|-------------------------------|---|--|---|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |  |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience in Solar Power Supply production  | 1. Manned and permanent office setup<br>2. Manufacturing facility<br>3. Testing facility<br>4. R&D facility | 1. Multi Tester<br>2. Scope Meter<br>3. Insulation Resistance Tester<br>4. Clamp Meter<br>5. AC/DC Current Probe<br>6. Voltage Regulator<br>7. Load Bank<br>8. Manufacturing Software for Configuration & Diagnostic |                      | Business License from Local Authority         |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management |   |  |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 10 years experience in Solar Power Supply installation, commission and troubleshoot                |   |  |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 5 years experience in Solar Power Supply design  |   |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)                                   |   |  |                      |   |                                   |
| R&D Engineer                  | Degree in Electrical Engineering  | Minimum 5 years experience in Solar Power Supply design  |   |  |                      |   |                                   |

**Work Category:** 14181700P Electrical Equipment & Services  
Power Supply System  
UPS - Modular Type

Work Category's Description: To design, assemble, supply, deliver, install, hook-up, test, commission UPS Modular Type and conduct training on operation

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |   |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|---|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |   |   |                                   |
|                               |               |            |  |                         | Principal to have minimum 5 years experience in design, engineering and assembly of UPS |   |                                   |

**Work Category:** 14181700P Electrical Equipment & Services  
Power Supply System  
UPS - Modular Type

Work Category's Description: To design, assemble, supply, deliver, install, hook-up, test, commission UPS Modular Type and conduct training on operation

Mode of Operation: Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |   |   |  |                      |   |                                   |
|-------------------------------|---|---|---|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |   | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience  |   |  |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience in UPS production  | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility | 1. Multi Tester<br>2. Scope Meter<br>3. Insulation Resistance Tester<br>4. Clamp Meter<br>5. AC/DC Current Probe<br>6. Voltage Regulator<br>7. Load Bank<br>8. Manufacturing Software for Configuration & Diagnostic |                      | Business License from Local Authority         |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management      |   |  |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 5 years experience in UPS installation, commission and troubleshoot. Trained and certified by Principal |   |  |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 3 years experience in UPS design  |   |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)  |   |  |                      |   |                                   |

**Work Category:** 14181700P **Electrical Equipment & Services**  
**Power Supply System**  
**UPS - Modular Type**

Work Category's Description: To design, assemble, supply, deliver, install, hook-up, test, commission UPS Modular Type and conduct training on operation

Mode of Operation: Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |  |                      |   |                                   |
|-------------------------------|---|--|---|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |  |                      |   |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience in UPS production   | 1. Manned and permanent office setup<br>2. Manufacturing facility<br>3. Testing facility<br>4. R&D facility | 1. Multi Tester<br>2. Scope Meter<br>3. Insulation Resistance Tester<br>4. Clamp Meter<br>5. AC/DC Current Probe<br>6. Voltage Regulator<br>7. Load Bank<br>8. Manufacturing Software for Configuration & Diagnostic |                      | Business License from Local Authority         |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management |   |  |                      |   |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 10 years experience in UPS installation, commission and troubleshoot.                              |   |  |                      |   |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 5 years experience in UPS design   |   |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)                                   |   |  |                      |   |                                   |
| R&D Engineer                  | Degree in Electrical Engineering  | Minimum 5 years experience in UPS design   |   |  |                      |   |                                   |

**Work Category:** 14131000S Electrical Equipment & Services  
 Electrical Heating Systems Maintenance  
 Heat Tracing System Maintenance

Work Category's Description: The provision of labour, materials, manpower, consumables, equipment and facilities necessary for cleaning, repair, troubleshooting, maintenance, testing and commissioning Heat Tracing System

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Designation                   | Key Personnel |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
|                               | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | Suruhanjaya Tenaga (ST) for Semenanjung Malaysia and Sabah company or Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply Sarawak (Form O) for Sarawak company |                                   |



**Work Category:** 14131000S Electrical Equipment & Services  
 Electrical Heating Systems Maintenance  
 Heat Tracing System Maintenance

Work Category's Description: The provision of labour, materials, manpower, consumables, equipment and facilities necessary for cleaning, repair, troubleshooting, maintenance, testing and commissioning Heat Tracing System

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Designation                   | Key Personnel |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
|                               | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | Suruhanjaya Tenaga (ST) for Semenanjung Malaysia and Sabah company or Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply Sarawak (Form O) for Sarawak company |                                   |

**Work Category:** 14131100S Electrical Equipment & Services  
 Electrical Heating Systems Maintenance  
 Process Heater Maintenance

Work Category's Description: The provision of labour, materials, manpower, consumables, equipment and facilities necessary for cleaning, repair, troubleshooting, maintenance, testing and commissioning of Process Heater

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Designation                   | Key Personnel |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
|                               | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | Suruhanjaya Tenaga (ST) for Semenanjung Malaysia and Sabah company or Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply Sarawak (Form O) for Sarawak company |                                   |

**Work Category:** 14131100S Electrical Equipment & Services  
 Electrical Heating Systems Maintenance  
 Process Heater Maintenance

Work Category's Description: The provision of labour, materials, manpower, consumables, equipment and facilities necessary for cleaning, repair, troubleshooting, maintenance, testing and commissioning of Process Heater

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Designation                   | Key Personnel |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
|                               | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | Suruhanjaya Tenaga (ST) for Semenanjung Malaysia and Sabah company or Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply Sarawak (Form O) for Sarawak company |                                   |

**Work Category:** 14141000S Electrical Equipment & Services  
 General Electrical Services  
 Aircraft Warning Light & System

Work Category's Description: The provision of labour, materials, consumables, equipment and facilities necessary for repair troubleshooting, maintenance, testing and commissioning of Aircraft Warning Light & System

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | Suruhanjaya Tenaga (ST) for Semenanjung Malaysia and Sabah company or Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply Sarawak (Form O) for Sarawak company |                                   |

**Work Category:** 14141100S Electrical Equipment & Services  
 General Electrical Services  
 Cathodic Protection Services

Work Category's Description: The provision of labour, materials, consumables, equipment and facilities necessary for Cathodic Protection services

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | Suruhanjaya Tenaga (ST) for Semenanjung Malaysia and Sabah company or Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply Sarawak (Form O) for Sarawak company |                                   |

**Work Category:** 14141200S Electrical Equipment & Services  
 General Electrical Services  
 Earthing, Lightning Protection System & Surge Protection Materials

**Work Category's Description:** The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, upgrading, maintenance, testing and commissioning of Earthing System, Lightning Protection System & Surge Protection Materials

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | Suruhanjaya Tenaga (ST) for Semenanjung Malaysia and Sabah company or Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply Sarawak (Form O) for Sarawak company |                                   |

|                       |  |
|-----------------------|--|
| <b>Work Category:</b> | <b>Electrical Equipment &amp; Services</b>   |
| 14141300S             | <b>General Electrical Services</b>           |
|                       | <b>Electrical Cabling &amp; Wiring Works</b> |

Work Category's Description: The provision of labour, materials, consumables, equipment and facilities necessary to troubleshoot cable fault, jointing, cable laying, test and commission Cable & Wiring

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | Suruhanjaya Tenaga (ST) for Semenanjung Malaysia and Sabah company or Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply Sarawak (Form O) for Sarawak company |                                   |

**Work Category:** **Electrical Equipment & Services**  
**14141500S** **General Electrical Services**  
**Other General Electrical Services**

Work Category's Description: The provision of labour, materials, consumables, equipment and facilities necessary to undertake the General Electrical Services such as but limited to Bulbs, Fuses, Light Fittings, Tester, Distribution Panel, Junction Box, Remote Control Unit (RCU), MCCB and MCB

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Designation                   | Key Personnel |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
|                               | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | Suruhanjaya Tenaga (ST) for Semenanjung Malaysia and Sabah company or Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply Sarawak (Form O) for Sarawak company |                                   |



|                       |  |
|-----------------------|--|
| <b>Work Category:</b> | <b>Electrical Equipment &amp; Services</b><br><b>Power Distribution &amp; Control Maintenance</b><br><b>Electrical Motor Maintenance</b><br><b>Explosion Proof</b> |
| 14171010S             |  |

Work Category's Description: The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, bearing replacement, rewinding, troubleshooting, maintenance, testing and commissioning of Explosion Proof Motors

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |  |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|--|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration   | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH  | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | Suruhanjaya Tenaga (ST) for Semenanjung Malaysia and Sabah company or Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply Sarawak (Form O) for Sarawak company |                        |

|                       |  |
|-----------------------|--|
| <b>Work Category:</b> | <b>Electrical Equipment &amp; Services</b><br><b>Power Distribution &amp; Control Maintenance</b><br><b>Electrical Motor Maintenance</b><br><b>Non-Explosion Proof</b> |
| 14171011S             |  |

Work Category's Description: The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, bearing replacement, rewinding, troubleshooting, maintenance, testing and commissioning of Non-Explosion Proof Motors

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            |  |                         |                      | Suruhanjaya Tenaga (ST) for<br>Semenanjung Malaysia and<br>Sabah company or Certificate of<br>Registration as an Electrical<br>Installation Contractor (EIC)<br>issued by Director of Electricity<br>Supply Sarawak (Form O) for<br>Sarawak company |                                   |

**Work Category:** 14171100S Electrical Equipment & Services  
Power Distribution & Control Maintenance  
HV Switchgear

**Work Category's Description:** The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, upgrading, maintenance, servicing, testing and commissioning of HV Switchgear inclusive of HV busduct

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | Suruhanjaya Tenaga (ST) for Semenanjung Malaysia and Sabah company or Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply Sarawak (Form O) for Sarawak company |                                   |

**Work Category:** Electrical Equipment & Services  
 14171200S Power Distribution & Control Maintenance  
 Intelligent Motor Control System (IMCS)

Work Category's Description: To design, assemble, supply, install, hook up, testing, commissioning, maintenance and training of Intelligent Motor Control System

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | Suruhanjaya Tenaga (ST) for Semenanjung Malaysia and Sabah company or Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply Sarawak (Form O) for Sarawak company |                                   |

**Work Category:** 14171300S Electrical Equipment & Services  
 Power Distribution & Control Maintenance  
 LV Switchgear

**Work Category's Description:** The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, upgrading, maintenance, servicing, testing and commissioning of LV Switchgear inclusive of LV busduct

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | Suruhanjaya Tenaga (ST) for Semenanjung Malaysia and Sabah company or Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply Sarawak (Form O) for Sarawak company |                                   |

**Work Category:** 14171400S Electrical Equipment & Services  
 Power Distribution & Control Maintenance  
 Protection Relay Maintenance

Work Category's Description: The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, upgrade, maintenance, calibrate, test and commission of Protection Relay

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | Suruhanjaya Tenaga (ST) for Semenanjung Malaysia and Sabah company or Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply Sarawak (Form O) for Sarawak company |                                   |

**Work Category:** 14171500S Electrical Equipment & Services  
 Power Distribution & Control Maintenance  
 Telecontrol & Substation Automation System Maintenance

**Work Category's Description:** The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, upgrading, maintenance, troubleshooting, testing and commissioning of Electrical Network Monitoring and Control System

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | Suruhanjaya Tenaga (ST) for Semenanjung Malaysia and Sabah company or Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply Sarawak (Form O) for Sarawak company |                                   |

**Work Category:** 14171600S Electrical Equipment & Services  
 Power Distribution & Control Maintenance  
 Variable Speed Drives and Soft Starter Maintenance

**Work Category's Description:** The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, upgrading, maintenance, testing and commissioning of Variable Speed Drive and Soft Starter System

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | Suruhanjaya Tenaga (ST) for Semenanjung Malaysia and Sabah company or Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply Sarawak (Form O) for Sarawak company |                                   |



**Work Category:** 14191000S Electrical Equipment & Services  
Power Supply System Maintenance  
Batteries

Work Category's Description: The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, maintenance, testing and commissioning of Batteries

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | Suruhanjaya Tenaga (ST) for Semenanjung Malaysia and Sabah company or Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply Sarawak (Form O) for Sarawak company |                                   |

**Work Category:** 14191100S Electrical Equipment & Services  
 Power Supply System Maintenance  
 Uninterrupted Power Supply (UPS) System

Work Category's Description: The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, upgrading, maintenance, testing and commissioning of AC/DC UPS System

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | Suruhanjaya Tenaga (ST) for Semenanjung Malaysia and Sabah company or Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply Sarawak (Form O) for Sarawak company |                                   |

**Work Category:** 14201000S Electrical Equipment & Services  
Transformers & Generators Maintenance  
Generator

Work Category's Description: The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, overhaul, rewinding, refurbish, maintenance, testing and commissioning of Generator

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | Suruhanjaya Tenaga (ST) for Semenanjung Malaysia and Sabah company or Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply Sarawak (Form O) for Sarawak company |                                   |

**Work Category:** 14201100S Electrical Equipment & Services  
Transformers & Generators Maintenance  
Transformer

**Work Category's Description:** The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, overhaul, rewinding, refurbish, oil filtration and regeneration, maintenance, testing and commissioning of Transformer

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | Suruhanjaya Tenaga (ST) for Semenanjung Malaysia and Sabah company or Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply Sarawak (Form O) for Sarawak company |                                   |

**Work Category:** Engineering, Construction & Projects (EC&P)  
 Associated Services  
 15101000S Anti-Corrosion & Concrete Pipeline Coating

Work Category's Description: Provision of labor, material, equipment, services and facilities for Pipeline Insulation Coating including but not limited to hot, cold, corrosion coating, concrete weight coating and internal coating

Mode of Operation: Self-operated

| Key Personnel                 |   |   | MINIMUM TECHNICAL REQUIREMENT  |   |                      |   |                                   |
|-------------------------------|---|---|--|---|----------------------|---|-----------------------------------|
| Designation                   | Qualification                             | Experience  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools   | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Project / Technical Manager   | Degree / diploma in any engineering field | Minimum 7 years experience in oil and gas with a minimum 5 years experience in pipeline coating | 1. Manned and permanent office setup<br>2. Manufacturing Plant<br>3. Storage<br>4. Loadout<br>5. Test Facilities | Test Facilities Specification & Equipment<br><br>*Company to provide the list of equipment, quantity, owned/ rent, owner (if rented). |                      | Business License from local authority         |                                   |
| Lead / Senior Engineer        | Degree / diploma in any engineering field | Minimum 5 years experience in oil and gas with a minimum 3 years experience in pipeline coating |  |   |                      |   |                                   |
| Project Coordinator / Planner | Degree / diploma in any engineering field | Minimum 3 years experience in oil and gas with a minimum 3 years experience in pipeline coating |  |   |                      |   |                                   |

**Work Category:** **Engineering, Construction & Projects (EC&P)**  
**15101100S** **Associated Services**  
**Marine Warranty Survey**

**Work Category's Description:** The provision of suitability survey for installation vessel & supporting tugs/barges, witnessing, verifying, reviewing, approving procedure, attend installation activities and issue certificate of approval (platform, pipeline & subsea facilities), attend construction risk assessment and fabrication yard (trail fitting, dimensional check, sea-fastening & loud operation)

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |                           |   |  |                         |                      |   |                                   |
|-------------------------------|---------------------------|---|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |                           |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification             | Experience  |  |                         |                      |   |                                   |
| Project Manager               | Degree in engineering     | Minimum 7 exp. years in Oil & Gas industry with minimum 2 years of exp. in similar position | Proper & Manned Office Setup           |                         |                      |   |                                   |
| Naval Architect               | Degree in naval architect | Minimum 7 exp. years in Oil & Gas industry with minimum 2 years of exp. in similar position |  |                         |                      |   |                                   |
| Master Mariner                | Master of Foreign Going   | Minimum 7 exp. years in Oil & Gas industry with minimum 2 years of exp. in similar position |  |                         |                      |   |                                   |
| QA / QC Manager               | Degree in engineering     | Minimum 7 exp. years in Oil & Gas industry with minimum 2 years of exp. in similar position |  |                         |                      |   |                                   |

|                       |  |
|-----------------------|--|
| <b>Work Category:</b> | <b>Engineering, Construction &amp; Projects (EC&amp;P)</b> |
|                       | Associated Services  |
|                       | 15101200S Pipeline Pre-Commissioning & Commissioning       |

Work Category's Description: The provision of PMT, procedures, labour, equipment, services and facilities for offshore and onshore pipeline cleaning, pigging, gauging, fill, hydrotest, dewatering, drying, inerting including provision of pigs, temporary launcher/receiver, materials & consumables (including chemicals)

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT                     |  |   |  |  |                      |   |                                   |
|---|--|---|--|--|----------------------|---|-----------------------------------|
| Key Personnel                                     |  |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                                       | Qualification                                  | Experience  |  |  |                      |   |                                   |
| Project Manager                                   | Degree / Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position | Proper & Manned Office Setup           | List of:<br>1. Pre-Commissioning & Commissioning Equipment (Owned / Lease) |                      |   |                                   |
| Construction / Installation / Engineering Manager | Degree / Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |                      |   |                                   |
| QA/QC Manager                                     | Degree / Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |                      |   |                                   |
| HSE Manager                                       | Degree / Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |                      |   |                                   |

**Work Category:** Engineering, Construction & Projects (EC&P)  
 15111000S Consultancy Services  
 Decommissioning Study of Offshore Facilities

Work Category's Description: The provision of service for decommissioning feasibility study for D&A Late Life Planning and Preparation, D&A Regulatory Compliant & Permitting, D&A Facilities Hook-down/Facilities Making Safe, Removal & Remediation for offshore facilities

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |                               |  |  |   |                      |   |  |
|-------------------------------|-------------------------------|--|--|---|----------------------|---|--|
| Key Personnel                 |                               |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools                                 | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard                        |
| Designation                   | Qualification                 | Experience   |  |   |                      |   |  |
| Project /Technical Manager    | Degree/Diploma in engineering | Minimum 15 years experience in engineering with a minimum 8 years experience in D&A Industries, minimum 5 years experience in D&A study and Engineering work | Proper & Manned Office Setup           | Engineering software & drafting facilities e.g OrcaFlex |                      |   | 1. Quality Management System<br>2. HSE Management System |
| D&A Lead/ Senior Engineer     | Degree/Diploma in engineering | 8 years experience in offshore oil and gas design engineering with a minimum 5 years experience in D&A study and Engineering work                            |  |   |                      |   |  |
| Environment Exec              | Degree in Environment         | Minimum 7 years experience in engineering with a minimum 5 years experience in D&A position (offshore or onshore)  |  |   |                      |   |  |
| Regulatory Compliance Manager | Any related degree or diploma | Minimum 7 years experience in engineering with a minimum 5 years experience in D&A position (offshore or onshore)  |  |   |                      |   |  |



**Work Category:** Engineering, Construction & Projects (EC&P)  
 15111000S Consultancy Services  
 Decommissioning Study of Offshore Facilities

Work Category's Description: The provision of service for decommissioning feasibility study for D&A Late Life Planning and Preparation, D&A Regulatory Compliant & Permitting, D&A Facilities Hook-down/Facilities Making Safe, Removal & Remediation for offshore facilities

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |                               |  |  |   |                      |   |  |
|-------------------------------|-------------------------------|--|--|---|----------------------|---|--|
| Key Personnel                 |                               |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools                                 | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard                        |
| Designation                   | Qualification                 | Experience   |  |   |                      |   |  |
| Project /Technical Manager    | Degree/Diploma in engineering | Minimum 15 years experience in engineering with a minimum 8 years experience in D&A Industries, minimum 5 years experience in D&A study and Engineering work | Proper & Manned Office Setup           | Engineering software & drafting facilities e.g OrcaFlex |                      |   | 1. Quality Management System<br>2. HSE Management System |
| D&A Lead/ Senior Engineer     | Degree/Diploma in engineering | 8 years experience in offshore oil and gas design engineering with a minimum 5 years experience in D&A study and Engineering work                            |  |   |                      |   |  |
| Environment Exec              | Degree in Environment         | Minimum 7 years experience in engineering with a minimum 5 years experience in D&A position (offshore or onshore)  |  |   |                      |   |  |
| Regulatory Compliance Manager | Any related degree or diploma | Minimum 7 years experience in engineering with a minimum 5 years experience in D&A position (offshore or onshore)  |  |   |                      |   |  |

**Work Category:** **Engineering, Construction & Projects (EC&P)**  
**15111300S** **Consultancy Services**  
**Project Management - Plant**

Work Category's Description: The provision of Project Management Services for plant construction, rejuvenation and major maintenance work

Mode of Operation: Self-operated

| Key Personnel              |                             |  | MINIMUM TECHNICAL REQUIREMENT          |                               |                      |   |                                   |
|----------------------------|-----------------------------|--|--|-------------------------------|----------------------|---|-----------------------------------|
| Designation                | Qualification               | Experience                               | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools       | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Lead/Senior Civil Engineer | Degree in Civil Engineering | 10 years experience in plant engineering | Proper office setup                    | StaadPro/Prokon or equivalent |                      |   |                                   |
| Civil Engineer             | Degree in Civil Engineering | 5 years experience in plant engineering  |  |                               |                      |   |                                   |

**Work Category:** **Engineering, Construction & Projects (EC&P)**  
**15121000S** **Decommissioning**  
**Decommissioning of Offshore Facilities**

Work Category's Description: The provision of PMT, manpower, engineering, procedures, derrick barge/vessel inclusive of marine spread, transportation spread, decommissioning equipment, diving spread, ROV spread, heavy lift rigging, NDT services, survey & positioning, and specialize services which includes environmental & consultancy services required for decommissioning, removal and disposal of offshore facilities

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT                     |  |   |  |   |                      |   |                                   |
|---|--|---|--|---|----------------------|---|-----------------------------------|
| Key Personnel                                     |  |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                                       | Qualification                                  | Experience  |  |   |                      |   |                                   |
| Project Manager                                   | Degree / Diploma in engineering                | Minimum 7 exp. years in Oil & Gas industry with minimum 2 years of exp. in similar position | Proper & Manned Office Setup           | List of:<br>1. Derrick barge/vessel (Owned/Lease)<br>2. Decommissioning Equipment (Owned/Lease) |                      |   |                                   |
| Construction / Installation / Engineering Manager | Degree / Diploma in engineering                | Minimum 7 exp. years in Oil & Gas industry with minimum 2 years of exp. in similar position |  |   |                      |   |                                   |
| QA/QC Manager                                     | Degree / Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas industry with minimum 2 years of exp. in similar position |  |   |                      |   |                                   |
| HSE Manager                                       | Degree / Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas industry with minimum 2 years of exp. in similar position |  |   |                      |   |                                   |

|                       |  |
|-----------------------|--|
| <b>Work Category:</b> | <b>Engineering, Construction &amp; Projects (EC&amp;P)</b> |
|                       | Decommissioning<br>Decommissioning of Offshore Facilities  |
|                       | 151210005  |

Work Category's Description: The provision of PMT, manpower, engineering, procedures, derrick barge/vessel inclusive of marine spread, transportation spread, decommissioning equipment, diving spread, ROV spread, heavy lift rigging, NDT services, survey & positioning, and specialize services which includes environmental & consultancy services required for decommissioning, removal and disposal of offshore facilities

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT                   |  |   |  |   |                      |   |                                   |
|---|--|---|--|---|----------------------|---|-----------------------------------|
| Key Personnel                                   |  |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                                     | Qualification                                | Experience  |  |   |                      |   |                                   |
| Project Manager                                 | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas industry with minimum 2 years of exp. in similar position | Proper & Manned Office Setup           | List of:<br>1. Derrick barge/vessel (Owned/Lease)<br>2. Decommissioning Equipment (Owned/Lease) |                      |   |                                   |
| Construction/ Installation/ Engineering Manager | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas industry with minimum 2 years of exp. in similar position |  |   |                      |   |                                   |
| QA/QC Manager                                   | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas industry with minimum 2 years of exp. in similar position |  |   |                      |   |                                   |
| HSE Manager                                     | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas industry with minimum 2 years of exp. in similar position |  |   |                      |   |                                   |

**Work Category:** **Engineering, Construction & Projects (EC&P)**  
**15121100S** **Decommissioning**  
**Decommissioning of Onshore Facilities/Project**

**Work Category's Description:** The provision of PMT, manpower, engineering, procedures, decommissioning equipment, demolition, NDT services, and specialize services which includes environmental & consultancy services required for decommissioning, removal, demolition, remediation and disposal of onshore upstream and downstream facilities

**Mode of Operation:** Agent

| MINIMUM TECHNICAL REQUIREMENT                   |  |   |  |   |                      |   |  |
|---|--|---|--|---|----------------------|---|--|
| Key Personnel                                   |  |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools                 | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard                        |
| Designation                                     | Qualification                                | Experience  |  |   |                      |   |  |
| Project Manager                                 | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas industry with minimum 2 years of exp. in similar position | Proper & Manned Office Setup           | Decommissioning Equipment (Owned/Lease) |                      |   | 1. Quality Management System<br>2. HSE Management System |
| Construction/ Installation/ Engineering Manager | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas industry with minimum 2 years of exp. in similar position |  |   |                      |   |  |
| HSE Manager                                     | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas industry with minimum 2 years of exp. in similar position |  |   |                      |   |  |

**Work Category:** Engineering, Construction & Projects (EC&P)  
 15121100S Decommissioning  
 Decommissioning of Onshore Facilities/Project

**Work Category's Description:** The provision of PMT, manpower, engineering, procedures, decommissioning equipment, demolition, NDT services, and specialize services which includes environmental & consultancy services required for decommissioning, removal, demolition, remediation and disposal of onshore upstream and downstream facilities

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT             |  |   |  |   |                      |   |  |
|---|--|---|--|---|----------------------|---|--|
| Key Personnel                             |  |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools                 | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard                        |
| Designation                               | Qualification                                | Experience  |  |   |                      |   |  |
| Project Manager                           | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas industry with minimum 2 years of exp. in similar position | Proper & Manned Office Setup           | Decommissioning Equipment (Owned/Lease) |                      |   | 1. Quality Management System<br>2. HSE Management System |
| D&A/<br>Construction /Engineering Manager | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas industry with minimum 2 years of exp. in similar position |  |   |                      |   |  |
| HSE Manager                               | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas industry with minimum 2 years of exp. in similar position |  |   |                      |   |  |

**Work Category:** Engineering, Construction & Projects (EC&P)  
 15131000S Engineering Services for Greenfield & Brownfield Projects  
 Commissioning Engineering Services

Work Category's Description: The provision of engineering commissioning services for precommissioning, startup, commissioning

Mode of Operation: Self-operated

| Key Personnel    |  |   | MINIMUM TECHNICAL REQUIREMENT          |  |                      |   |                                   |
|------------------|--|---|--|--|----------------------|---|-----------------------------------|
| Designation      | Qualification                                  | Experience  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH             | Quality<br>E.g. ISO, API Standard |
| Project Manager  | Degree in Engineering                          | Min ten (10) years experience in managing similar scope of services                           | Proper office setup                    | Company to have existing Engineering software (leased or owned) and qualified operator of following as minimum, whichever is relevant for respective discipline:<br>1. Process - Process Simulation and Analysis: HYSIS and PIPESIM or equivalent of the respective, OR<br>2. Mechanical - Pressure Vessel and Exchanger Design & Analysis: PV ELITE or equivalent, OR<br>3. Piping - Pipe Stress Analysis and Design: CEASAR or equivalent, OR<br>4. Electrical - Power System Design and Analysis: EDSA or equivalent (ETAP/SKIM), OR<br>5. Civil & Structural - Structural Analysis and Drafting: SACS and BOCAD or equivalent of the respective, OR<br>6. Control & Instrumentation - Instrument design and database: InstruCALC and INTOOLS or equivalent of the respective, OR<br>7. Pipeline - Pipeline design, analysis and simulation: CEASER 2 and AGA or equivalent of the respective, OR<br>8. PDMS or AutoCAD<br><br>*Company to provide list of software(s) and copy of the software license(s). |                      | Valid registration with BEM (Board of Engineers Malaysia) |                                   |
| Lead Engineers   | Degree in Engineering of respective discipline | Min seven (7) years of respective discipline experience in managing similar scope of services |  |  |                      |   |                                   |
| Senior Engineers | Degree in Engineering of respective discipline | Min five (5) years of respective discipline experience in managing similar scope of services  |  |  |                      |   |                                   |

**Work Category:** Engineering, Construction & Projects (EC&P)  
 Engineering Services for Greenfield & Brownfield Projects  
 Draughting Services  
 15131110S Deepwater Pipeline Design & Draughting Services

Work Category's Description: The provision of engineering feasibility study, conceptual design and Front End Engineering Design (FEED) services for deepwater pipeline design such as but not limited to pipeline/riser

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |   |   |                          |   |                      |                                |                        |
|-------------------------------|---|---|--------------------------|---|----------------------|--------------------------------|------------------------|
| Key Personnel                 |   |   | Facilities               | Equipment   | Company's Experience | External Body Registration     | Quality                |
| Designation                   | Qualification   | Experience  | E.g. Warehouse, Dockyard | E.g. Tools  |                      | E.g. CIDB, DOSH                | E.g. ISO, API Standard |
| Lead/Senior Engineer          | Master in any relevant engineering discipline, preferably Riser Engineering/Pipeline Engineering/Mechanical Engineering/Marine Engineering/Structural/Naval Architecture<br><br>Or<br>B.Eng/Diploma in any relevant engineering discipline, preferably Riser Engineering/ Pipeline Engineering/ Mechanical Engineering/ Marine Engineering/ Structural/Naval Architecture | 12 years experience in offshore oil and gas design engineering with a minimum 7 years of experience in pipeline/riser engineering<br><br>12 years experience in offshore oil and gas design engineering with a minimum 10 years of experience in pipeline / riser engineering | Proper office setup      | Company to provide the list of engineering workstation/hardware/software (e.g. FLEXCOM, ORCAFLEX, ANSYS, ABAQUS) or any relevant engineering program.<br><br>*Company to provide list of software(s) and copy of the software license(s). |                      | Registration with BOE (Form F) |                        |



**Work Category:** **Engineering, Construction & Projects (EC&P)**  
**Engineering Services for Greenfield & Brownfield Projects**  
**15131300S Major Engineering - Conceptual Engineering Design/FEED/Detailed Design**

**Work Category's Description:** The provision to perform engineering works include Conceptual Engineering Design/Feasibility Studies (which required deliverables to be used for FEED/ Detailed Design) and FEED/Detailed Design services (which required deliverables to be used for subsequent Engineering stage, Procurement, Fabrication, Installation, Commissioning and Start-Up of the facilities for onshore or offshore). Example of deliverables for Conceptual engineering design are Concept Layouts, HSE Philosophies, Process Flow Diagram, Simulation Report, etc. Example of deliverables for FEED/ Detailed Design are Data Sheets, Project Execution Plan, Control Strategy and System Overview Sketches, HSE plan, P&IDs, Weight Management, Transportation, Installation, Risk Assessment, etc.

**Mode of Operation:** Self-operated

| Key Personnel    |   |   | MINIMUM TECHNICAL REQUIREMENT          |   |  |  |                                   |
|------------------|---|---|--|---|--|--|-----------------------------------|
| Designation      | Qualification   | Experience  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools   | Company's Experience   | External Body Registration<br>E.g. CIDB, DOSH                | Quality<br>E.g. ISO, API Standard |
| Project Manager  | Bachelor Degree in Engineering                          | Min twelve (12) years experience in managing similar scope of services                        |  | Company to have existing Engineering software (leased or owned) and qualified operator of following as minimum:<br><br>1.Process Simulation and Analysis: HYSIS and PIPESIM or equivalent of the respective<br>2.Pressure Vessel and Exchanger Design & Analysis: PV ELITE or equivalent<br>3.Pipe Stress Analysis and Design: CEASAR or equivalent<br>4.Power System Design and Analysis: EDSA or equivalent (ETAP/SKM)<br>5.Structural Analysis and Drafting: SACS and BOCAD or equivalent of the respective<br>6.Instrument design and database: InstruCALC and INTOOLS or equivalent of the respective<br>7.Pipeline design, analysis and simulation: CEASER 2 and AGA or equivalent of the respective<br>8.CAD: PDMS & AutoCAD or equivalent<br><br>*Company to provide list of software(s) and copy of the software license(s). | Company must have a minimum experience in executing Conceptual Engineering Design/Feasibility Studies/FEED/Detailed Design for at least 1 project for the past 5 years | Valid registration with BEM (Board of Engineerings Malaysia) |                                   |
| Lead Engineers   | Bachelor Degree in Engineering of respective discipline | Min ten (10) years of respective discipline experience in managing similar scope of services  |  |   |  |  |                                   |
| Senior Engineers | Bachelor Degree in Engineering of respective discipline | Min seven (7) years of respective discipline experience in managing similar scope of services |  |   |  |  |                                   |

**Work Category:** 15131400S **Engineering, Construction & Projects (EC&P)**  
 Engineering Services for Greenfield & Brownfield Projects  
 Naval Architecture & Marine Engineering

Work Category's Description: The provision to perform engineering works include Feasibility Studies/ Conceptual Engineering Design which required deliverables to be used for FEED/ Detailed Design

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |                                |  |  |  |                      |   |                                   |
|-------------------------------|--------------------------------|--|--|--|----------------------|---|-----------------------------------|
| Key Personnel                 |                                |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                  | Experience   |  |  |                      |   |                                   |
| Lead Engineer                 | Bachelor Degree in engineering | Min 7 years experience in managing similar scope of services | Proper office setup                    | The company to provide IT facilities (e.g. video/teleconference)<br>*Principal to provide list of software(s) and copy of the software license(s). |                      |   |                                   |

**Work Category:** **Engineering, Construction & Projects (EC&P)**  
**15131400S** **Engineering Services for Greenfield & Brownfield Projects**  
**Naval Architecture & Marine Engineering**

Work Category's Description: The provision to perform engineering works include Feasibility Studies/ Conceptual Engineering Design which required deliverables to be used for FEED/ Detailed Design for Naval Architecture and Marine Engineering

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |   |   |  |  |  |   |                                   |
|-------------------------------|---|---|--|--|--|---|-----------------------------------|
| Key Personnel                 |   |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience   | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience  |  |  |  |   |                                   |
| Project Manager               | Bachelor Degree in Engineering                          | Min twelve (12) years experience in managing similar scope of services                        |  | Company to have existing Engineering software (leased or owned) and qualified operator of following as minimum:<br>1. Structural/Finite Element software: e.g. ANSYS, SESAM, AQUA, Abacus, or equivalent<br>2. Hydrodynamics: e.g. WAMIT/HydroD or equivalent<br>3. Stability: e.g. GHS, Autohydro, HydroD or equivalent<br>4. Coupled Analysis: e.g. Winpost, DeepC or equivalent<br>5. Mooring Analysis: e.g. MIMOSA, SIMO, Orcaflex, or equivalent<br>6. CAD: e.g. PDMS, AutoCAD, or equivalent<br><br>*Company to provide list of software(s) and copy of the software license(s). | Company must have a minimum experience in executing Naval Architecture and Marine Feasibility Studies and Conceptual Engineering for at least 1 project for the past 5 years |   |                                   |
| Lead Engineers                | Bachelor Degree in Engineering of respective discipline | Min ten (10) years of respective discipline experience in managing similar scope of services  |  |  |  |   |                                   |
| Senior Engineers              | Bachelor Degree in Engineering of respective discipline | Min seven (7) years of respective discipline experience in managing similar scope of services |  |  |  |   |                                   |

**Work Category:** **Engineering, Construction & Projects (EC&P)**  
**Engineering Services for Greenfield & Brownfield Projects**  
**Specialised Engineering**  
**Civil & Structural**

15131610S

Work Category's Description: The provision to undertake small scale projects such as but not limited to specific platform/plant modification, retrofitting, rejuvenation engineering for Civil & Structural discipline

Mode of Operation: Self-operated

| Key Personnel  |  |   | MINIMUM TECHNICAL REQUIREMENT          |  |                      |   |                                   |
|--|--|---|--|--|----------------------|---|-----------------------------------|
| Designation  | Qualification                                  | Experience  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH             | Quality<br>E.g. ISO, API Standard |
| 1 Project Manager  | Degree in Engineering                          | Min ten (10) years experience in managing similar scope of services                           |  | Company to have existing Engineering software (leased or owned) and qualified operator of following as minimum:<br>1. Structural Analysis and Drafting; SACS and BOCAD or equivalent of the respective<br><br>*Company to provide list of software(s) and copy of the software license(s). |                      | Valid registration with BEM (Board of Engineers Malaysia) |                                   |
| 1 Lead Engineer (Civil & Structural discipline)<br>Shall be permanent staff and Professional Engineer (PE) | Degree in Engineering of respective discipline | Min seven (7) years of respective discipline experience in managing similar scope of services |  |  |                      |   |                                   |
| 2 Senior Engineers (Civil & Structural discipline)<br>One of two shall be permanent staff                  | Degree in Engineering of respective discipline | Min five (5) years of respective discipline experience in managing similar scope of services  |  |  |                      |   |                                   |

(Company to attach PE certification and organization chart)

**Work Category:** Engineering, Construction & Projects (EC&P)  
 Engineering Services for Greenfield & Brownfield Projects  
 Specialised Engineering  
 Control & Instrumentation  
 15131611S

Work Category's Description: The provision to undertake small scale projects such as but not limited to specific platform/plant modification, retrofitting, rejuvenation engineering for Control & Instrumentation discipline

Mode of Operation: Self-operated

| Key Personnel   |  |   | MINIMUM TECHNICAL REQUIREMENT          |  |                      |   |                                   |
|---|--|---|--|--|----------------------|---|-----------------------------------|
| Designation   | Qualification                                  | Experience  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH             | Quality<br>E.g. ISO, API Standard |
| 1 Project Manager   | Degree in Engineering                          | Min ten (10) years experience in managing similar scope of services                           |  | Company to have existing Engineering software (leased or owned) and qualified operator of following as minimum:<br>1. Instrument design and database: InstruCALC and INTOOLS or equivalent of the respective |                      | Valid registration with BEM (Board of Engineers Malaysia) |                                   |
| 1 Lead Engineer (Control & Instrumentation discipline)<br>Shall be permanent staff and Professional Engineer (PE) | Degree in Engineering of respective discipline | Min seven (7) years of respective discipline experience in managing similar scope of services |  |  |                      |   |                                   |
| 2 Senior Engineers (Control & Instrumentation discipline)<br>One of two shall be permanent staff                  | Degree in Engineering of respective discipline | Min five (5) years of respective discipline experience in managing similar scope of services  |  |  |                      |   |                                   |

(Company to attach PE certification and organization chart)

**Work Category:** **Engineering, Construction & Projects (EC&P)**  
**Engineering Services for Greenfield & Brownfield Projects**  
**Specialised Engineering**  
**Electrical**  
**15131612S**

Work Category's Description: The provision to undertake small scale projects such as but not limited to specific platform/plant modification, retrofitting, rejuvenation engineering for Electrical discipline

Mode of Operation: Self-operated

| Key Personnel   |  |   | MINIMUM TECHNICAL REQUIREMENT          |   |                      |   |                                   |
|---|--|---|--|---|----------------------|---|-----------------------------------|
| Designation   | Qualification                                  | Experience  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH             | Quality<br>E.g. ISO, API Standard |
| 1 Project Manager   | Degree in Engineering                          | Min ten (10) years experience in managing similar scope of services                           |  | Company to have existing Engineering software (leased or owned) and qualified operator of following as minimum:<br>1. Power System Design and Analysis: EDSA or equivalent (ETAP/SKM)<br><br>*Company to provide list of software(s) and copy of the software license(s). |                      | Valid registration with BEM (Board of Engineers Malaysia) |                                   |
| 1 Lead Engineers (Electrical discipline)<br>Shall be permanent staff and Professional Engineer (PE) | Degree in Engineering of respective discipline | Min seven (7) years of respective discipline experience in managing similar scope of services |  |   |                      |   |                                   |
| 2 Senior Engineers (Electrical discipline)<br>One of two shall be permanent staff                   | Degree in Engineering of respective discipline | Min five (5) years of respective discipline experience in managing similar scope of services  |  |   |                      |   |                                   |

(Company to attach PE certification and organization chart)

**Work Category:** Engineering, Construction & Projects (EC&P)  
 Engineering Services for Greenfield & Brownfield Projects  
 Specialised Engineering  
 Mechanical & Piping  
 15131613S

Work Category's Description: The provision to undertake small scale projects such as but not limited to specific platform/plant modification, retrofitting, rejuvenation engineering for Mechanical & Piping discipline

Mode of Operation: Self-operated

| Key Personnel   |  |   | MINIMUM TECHNICAL REQUIREMENT          |   |                      |   |                                   |
|---|--|---|--|---|----------------------|---|-----------------------------------|
| Designation   | Qualification                                  | Experience  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH             | Quality<br>E.g. ISO, API Standard |
| 1 Project Manager   | Degree in Engineering                          | Min ten (10) years experience in managing similar scope of services                           |  | Company to have existing Engineering software (leased or owned) and qualified operator of following as minimum:<br>1. Pressure Vessel and Exchanger Design & Analysis: PV ELITE or equivalent<br><br>*Company to provide list of software(s) and copy of the software license(s). |                      | Valid registration with BEM (Board of Engineers Malaysia) |                                   |
| 1 Lead Engineer (Mechanical/Piping discipline)<br>Shall be permanent staff and Professional Engineer (PE) | Degree in Engineering of respective discipline | Min seven (7) years of respective discipline experience in managing similar scope of services |  |   |                      |   |                                   |
| 2 Senior Engineers (Mechanical/Piping discipline)<br>One of two shall be permanent staff                  | Degree in Engineering of respective discipline | Min five (5) years of respective discipline experience in managing similar scope of services  |  |   |                      |   |                                   |

(Company to attach PE certification and organization chart)

**Work Category:** 15131614S **Engineering, Construction & Projects (EC&P)**  
**Engineering Services for Greenfield & Brownfield Projects**  
**Specialised Engineering**  
**Pipeline**

Work Category's Description: The provision to undertake small scale projects such as but not limited to specific platform/plant modification, retrofitting, rejuvenation engineering for Pipeline discipline

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT  |  |   |  |  |                      |   |                                   |
|--|--|---|--|--|----------------------|---|-----------------------------------|
| Designation  | Key Personnel                                  |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH             | Quality<br>E.g. ISO, API Standard |
|  | Qualification                                  | Experience  |  |  |                      |   |                                   |
| 1 Project Manager  | Degree in Engineering                          | Min ten (10) years experience in managing similar scope of services                           |  | Company to have existing Engineering software (leased or owned) and qualified operator of following as minimum:<br>1. Pipeline design, analysis and simulation; CEASER 2 and AGA or equivalent of the respective<br><br>*Company to provide list of software(s) and copy of the software license(s). |                      | Valid registration with BEM (Board of Engineers Malaysia) |                                   |
| 1 Lead Engineer (Pipeline discipline)<br>Shall be permanent staff and Professional Engineer (PE) | Degree in Engineering of respective discipline | Min seven (7) years of respective discipline experience in managing similar scope of services |  |  |                      |   |                                   |
| 2 Senior Engineers (Pipeline discipline)<br>One of two shall be permanent staff                  | Degree in Engineering of respective discipline | Min five (5) years of respective discipline experience in managing similar scope of services  |  |  |                      |   |                                   |

(Company to attach PE certification and organization chart)



**Work Category:** **Engineering, Construction & Projects (EC&P)**  
**Engineering Services for Greenfield & Brownfield Projects**  
**Specialised Engineering**  
**Process**  
**15131615S**

Work Category's Description: The provision to undertake small scale projects e.g. specific platform/plant modification, retrofitting, rejuvenation engineering for Process discipline

Mode of Operation: Self-operated

| Key Personnel   |  |   | MINIMUM TECHNICAL REQUIREMENT          |  |                      |   |                                   |
|---|--|---|--|--|----------------------|---|-----------------------------------|
| Designation   | Qualification                                  | Experience  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH             | Quality<br>E.g. ISO, API Standard |
| 1 Project Manager   | Degree in Engineering                          | Min ten (10) years experience in managing similar scope of services                           |  | Company to have existing Engineering software (leased or owned) and qualified operator of following as minimum:<br>1. Process Simulation and Analysis: HYSIS and PIPESIM or equivalent of the respective |                      | Valid registration with BEM (Board of Engineers Malaysia) |                                   |
| 1 Lead Engineer (Process discipline)<br>Shall be permanent staff and Professional Engineer (PE) | Degree in Engineering of respective discipline | Min seven (7) years of respective discipline experience in managing similar scope of services |  |  |                      |   |                                   |
| 2 Senior Engineers (Process discipline)<br>One of two shall be permanent staff                  | Degree in Engineering of respective discipline | Min five (5) years of respective discipline experience in managing similar scope of services  |  |  |                      |   |                                   |

(Company to attach PE certification and organization chart)

**Work Category:** Engineering, Construction & Projects (EC&P)  
 15131700S Engineering Services for Greenfield & Brownfield Projects  
 Subsea Engineering Services

Work Category's Description: The provision of engineering services including but not limited to Feasibility Study and Concept Select Study services for Subsea Engineering

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |  |   |  |   |  |   |                                   |
|-------------------------------|--|---|--|---|--|---|-----------------------------------|
| Key Personnel                 |  |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools   | Company's Experience   | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                                | Experience  |  |   |  |   |                                   |
| Project/Technical Manager     | Degree/Diploma in any engineering discipline | 10 years experience in offshore oil and gas engineering with a minimum 5 years of experience in Subsea engineering design | Comprehensive office setup             | Company to provide the list of engineering workstation/hardware/software (e.g. HYSYS, PIPESIM, ACAD) & drafting facilities.<br><br>*Company to provide list of software(s) and copy of the software license(s). | Company must have a minimum experience in executing Subsea Feasibility Studies and Conceptual Engineering for at least 1 project for the past 5 years. |   |                                   |
| Lead/Senior Engineer          | Degree/Diploma in any engineering discipline | 10 years experience in offshore oil and gas engineering with a minimum 8 years of experience in Subsea engineering design |  |   |  |   |                                   |

**Work Category:** Engineering, Construction & Projects (EC&P)  
 15141010P Fabrication & Construction  
 Marine Systems - Deepwater  
 Anchor, Buoys & Mooring Line

Work Category's Description: To supply and design Deepwater Anchoring System, Deepwater Buoys System and Deepwater Mooring Line such as but not limited to wire rope, chain, polyester rope, connectors, fairlead and mooring jack

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |   |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|---|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |   |   |                                   |
|                               |               |            |  |                         | Principal to have minimum 5 years experience in supply and design of Deepwater Anchoring System/Deepwater Buoys System/Deepwater Mooring Line (Company to provide list of experiences). |   |                                   |

**Work Category:** **Engineering, Construction & Projects (EC&P)**  
**15141010P** **Fabrication & Construction**  
**Marine Systems - Deepwater**  
**Anchor, Buoys & Mooring Line**

Work Category's Description: To supply and design Deepwater Anchoring System, Deepwater Buoys System and Deepwater Mooring Line i.e. wire rope, chain, polyester rope, connectors, fairlead and mooring jack, etc.

Mode of Operation: Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |  |  |   |                         |                      |   |                                   |
|-------------------------------|--|--|---|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |  |  | Facilities<br>E.g. Warehouse, Dockyard                                | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification  | Experience   |   |                         |                      |   |                                   |
| Lead/Senior Engineer          | Master in any relevant engineering discipline, preferably Mechanical Engineering/ Marine Engineering/Naval Architecture/ Structural/ Riser Engineering / Pipeline Engineering<br><br>Or<br><br>B.Eng/ Diploma in any relevant engineering discipline, preferably Mechanical Engineering/ Marine Engineering/Naval Architecture/ Structural/ Riser Engineering / Pipeline Engineering | 5 years of experience in supply and design of Deepwater Anchoring System/Deepwater Buoys System/Deepwater Mooring Line<br><br>Or<br><br>7 years of experience in supply and design of Deepwater Anchoring System/Deepwater Buoys System/Deepwater Mooring Line | Proper office setup, Manufacturing Plant, Storage and Test Facilities |                         |                      |   |                                   |

**Work Category:** Engineering, Construction & Projects (EC&P)  
 15141011P Fabrication & Construction  
 Marine Systems - Deepwater  
 Single Point Mooring

Work Category's Description: To supply and design of deepwater single point mooring/turret

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |   |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|---|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |   |   |                                   |
|                               |               |            |  |                         | Principal to have minimum 5 years experience in supply and design of single point mooring system/turret |   |                                   |

**Work Category:** Engineering, Construction & Projects (EC&P)  
 15141011P Fabrication & Construction  
 Marine Systems - Deepwater  
 Single Point Mooring

Work Category's Description: Supply and design of deepwater single point mooring/turret

Mode of Operation: Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |                         |                      |   |                                   |
|-------------------------------|---|--|---|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard                                | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |                         |                      |   |                                   |
| Lead/Senior Engineer          | Master in any relevant engineering discipline, preferably Mechanical Engineering/Structural/ Riser Engineering/ Pipeline Engineering/ Naval Architecture/ Marine Engineering<br>Or<br>B.Eng/Diploma in any relevant engineering discipline, preferably Mechanical Engineering/Structural/ Riser Engineering/ Pipeline Engineering/ Naval Architecture/ Marine Engineering | 5 years of experience in supply and design of deepwater single point mooring system/turret<br>Or<br>7 years of experience in supply and design of deepwater single point mooring system/turret | Proper office setup, Manufacturing Plant, Storage and Test Facilities |                         |                      |   |                                   |

**Work Category:** 15141110P Engineering, Construction & Projects (EC&P)  
 Fabrication & Construction  
 Marine Systems - Single Point Mooring System  
 Buoy

Work Category's Description: To design, manufacture, supply, install, and test Buoy at marine structure

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |   |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|---|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |   |   |                                   |
|                               |               |            |  |                         | Principal to have minimum 5 years proven track records of SPM Buoy supply and manufacturing |   |                                   |

**Work Category:** 15141111P Engineering, Construction & Projects (EC&P)  
 Fabrication & Construction  
 Marine Systems - Single Point Mooring System  
 Hose System

Work Category's Description: To design, manufacture, supply, install, and test Hose System at marine structure

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |  |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|--|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |  |   |                                   |
|                               |               |            |  |                         | Principal to have minimum 5 years proven track records of SPM Hose system supply and manufacturing |   |                                   |



**Work Category:** Engineering, Construction & Projects (EC&P)  
 15141112P Fabrication & Construction  
 Marine Systems - Single Point Mooring System  
 Mooring Systems

Work Category's Description: To design, manufacture, supply, install, and test Mooring System at marine structure

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |   |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|---|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |   |   |                                   |
|                               |               |            |  |                         | Principal to have minimum 5 years proven track records of SPM Mooring System supply and manufacturing |   |                                   |

**Work Category:** Engineering, Construction & Projects (EC&P)  
 15141300S Fabrication & Construction  
 Offshore - Floating Production Facilities (FPSO/FSO)

Work Category's Description: Provision to perform fabrication for Floating Offshore Facilities which include new-built/conversion/refurbishment/supply/operation/maintenance such as but not limited to FPSO, FSO, TLP, SPAR and Semi-sub

Mode of Operation: Agent

| Key Personnel                       |  |  | MINIMUM TECHNICAL REQUIREMENT          |                         |  |   |                                   |
|-------------------------------------|--|--|--|-------------------------|--|---|-----------------------------------|
| Designation                         | Qualification  | Experience   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Company/ Principal: Project Manager | Bachelor Degree in Engineering   | Min ten (10) years experience in managing similar scope of services  | Proper office setup                    |                         | Principal to have at least 10 years experience in Oil and Gas business with minimum of 5 years of proven track record in floating offshore facilities business |   |                                   |
| Company/ Principal: Lead Engineers  | Bachelor Degree in any relevant engineering discipline, preferably Naval Architecture/ Marine Engineering/ Mechanical Engineering/ Structural/Riser Engineering/Pipeline Engineering. Master is preferred. | 5 years experience in Oil and Gas business with a minimum of 3 years of operation/design/ fabrication/ conversion of Floating Offshore Facilities e.g.: FPSO, FPSO, FPS, TLP, Spar, Semisub, etc |  |                         |  |   |                                   |

**Work Category:** **Engineering, Construction & Projects (EC&P)**  
**15141300S** **Fabrication & Construction**  
**Offshore - Floating Production Facilities (FPSO/FSO)**

Work Category's Description: Provision to perform fabrication for Floating Offshore Facilities which include new-built/conversion/ refurbishment/supply/operation/maintenance such as but not limited to FPSO, FSO, TLP, SPAR, Semi-sub, etc.

Mode of Operation: Self-operated

| Key Personnel   |  |   | MINIMUM TECHNICAL REQUIREMENT          |                         |                      |   |                                   |
|-----------------|--|---|--|-------------------------|----------------------|---|-----------------------------------|
| Designation     | Qualification  | Experience  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Project Manager | Bachelor Degree in Engineering   | Min ten (10) years experience in managing similar scope of services   | Proper office setup                    |                         |                      |   |                                   |
| Lead Engineers  | Bachelor Degree in any relevant engineering discipline, preferably Naval Architecture/ Marine Engineering/ Mechanical Engineering/ Structural/Riser Engineering/Pipeline Engineering. Master is preferred. | 5 years experience in Oil and Gas business with a minimum of 3 years of operation/design/ fabrication/ conversion of Floating Offshore Facilities e.g.: FPSO, FPSO, FPS, TLP, Spar, Semisub, etc. |  |                         |                      |   |                                   |

**Work Category:** **Engineering, Construction & Projects (EC&P)**  
**15141400S** **Fabrication & Construction**  
**Offshore - Mobile Production Facilities (MOPU)**

Work Category's Description: Provision to perform fabrication for Mobile Offshore Facilities which includes new-built/conversion/refurbishment/supply/operation/maintenance such as but not limited to MOPU, MODU, MOPSU and MOAB

Mode of Operation: Agent

| Key Personnel                      |  |   | MINIMUM TECHNICAL REQUIREMENT          |                         |  |   |                                   |
|------------------------------------|--|---|--|-------------------------|--|---|-----------------------------------|
| Designation                        | Qualification  | Experience  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Company/ Principal/Project Manager | Bachelor Degree in Engineering   | Min ten (10) years experience in managing similar scope of services   | Proper office setup                    |                         | Principal to have at least 10 years experience in Oil and Gas business with minimum of 5 years of proven track record in Mobile Offshore Facilities business |   |                                   |
| Company/ Principal/ Lead Engineers | Bachelor Degree in any relevant engineering discipline, preferably Naval Architecture/ Marine Engineering/ Mechanical Engineering/ Structural/Riser Engineering/Pipeline Engineering. Master is preferred. | 5 years experience in Oil and Gas business with a minimum of 3 years of operation/design/ fabrication/ conversion of Mobile Offshore Facilities e.g.: MOPU, MODU, MOPSU, MOAB, and etc. |  |                         |  |   |                                   |

**Work Category:** 15141400S **Engineering, Construction & Projects (EC&P)**  
 Fabrication & Construction  
 Offshore - Mobile Production Facilities (MOPU)

Work Category's Description: Provision to perform fabrication for Mobile Offshore Facilities which includes new-built/conversion/refurbishment/supply/ operation/maintenance such as but not limited to MOPU, MODU, MOPSU, MOAB, etc.

Mode of Operation: Self-operated

| Key Personnel   |  |   | MINIMUM TECHNICAL REQUIREMENT          |                         |                      |   |                                   |
|-----------------|--|---|--|-------------------------|----------------------|---|-----------------------------------|
| Designation     | Qualification  | Experience  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Project Manager | Bachelor Degree in Engineering   | Min ten (10) years experience in managing similar scope of services   | Proper office setup                    |                         |                      |   |                                   |
| Lead Engineers  | Bachelor Degree in any relevant engineering discipline, preferably Naval Architecture/ Marine Engineering/ Mechanical Engineering/ Structural/Riser Engineering/Pipeline Engineering. Master is preferred. | 5 years experience in Oil and Gas business with a minimum of 3 years of operation/design/ fabrication/ conversion of Mobile Offshore Facilities e.g.: MOPU, MODU, MOPSU, MOAB, and etc. |  |                         |                      |   |                                   |

**Work Category:** 15141910S **Engineering, Construction & Projects (EC&P)**  
**Fabrication & Construction**  
**Structural & Piping Fabrication/Welding Services**  
**Metallic - Carbon Steel, Stainless Steel, Non-Ferrous, Internally Lined Pipe & etc.**

**Work Category's Description:** The provision of labour, materials, consumables, equipments and facilities necessary for fabrication, repair and maintenance of metallic piping, internally lined pipe and structure

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |  |  |  |  |                      |   |                                       |
|-------------------------------|--|--|--|--|----------------------|---|---------------------------------------|
| Key Personnel                 |  |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard     |
| Designation                   | Qualification  | Experience   |  |  |                      |   |                                       |
| Engineer                      | Degree in Mechanical Engineering<br>Or relevant field  | 3 years experience in piping and structure repair and maintenance  | Workshop and proper office setup       | Generator set, welding set, air compressor.<br><br>*Company to provide the list of equipment, quantity, owned/rent, owner (if rented). |                      |   | Welding Procedure Specification (WPS) |
| Supervisor                    | Diploma in Mechanical Engineering<br>Or relevant field<br><br>Or<br>Certificate in related field | 5 years experience in piping and structure repair and maintenance<br><br>Or<br>7 years experience in piping and structure repair and maintenance |  |  |                      |   |                                       |
| Quality Control               | Diploma in Mechanical Engineering<br>Or relevant field<br><br>Or<br>Certificate in related field | 5 years experience in piping and structure repair and maintenance<br><br>Or<br>7 years experience in piping and structure repair and maintenance |  |  |                      |   |                                       |

**Work Category:** 15141911S **Engineering, Construction & Projects (EC&P)**  
 Fabrication & Construction  
 Structural & Piping Fabrication/Welding Services  
 Non Metallic - PVC, PVC, HDPE, Fibreglass & etc.

Work Category's Description: The provision of labour, materials, consumables, equipments and facilities necessary for fabrication, repair and maintenance of non-metallic piping

Mode of Operation: Self-operated

| Key Personnel   |  |  | MINIMUM TECHNICAL REQUIREMENT          |  |                      |   |                                   |
|-----------------|--|--|--|--|----------------------|---|-----------------------------------|
| Designation     | Qualification  | Experience   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Engineer        | Degree in Mechanical Engineering<br>Or relevant field  | 3 years experience in piping and structure repair and maintenance  | Workshop and proper office setup       | Generator set, air compressor.<br><br>*Company to provide the list of equipment, quantity, owned/ rent, owner (if rented). |                      |   |                                   |
| Supervisor      | Diploma in Mechanical Engineering<br>Or relevant field<br><br>Or<br>Certificate in related field | 5 years experience in piping and structure repair and maintenance<br><br>Or<br>7 years experience in piping and structure repair and maintenance |  |  |                      |   |                                   |
| Quality Control | Diploma in Mechanical Engineering<br>Or relevant field<br><br>Or<br>Certificate in related field | 5 years experience in piping and structure repair and maintenance<br><br>Or<br>7 years experience in piping and structure repair and maintenance |  |  |                      |   |                                   |

**Work Category:** **Engineering, Construction & Projects (EC&P)**  
**15142000P** **Fabrication & Construction**  
**Subsea Systems & Umbilical**

**Work Category's Description:** To design, manufacture, assemble, test, supply, deliver, install, hookup, commissioning of Subsea Systems & Umbilical such as but not limited to Subsea Production Control System (SPCS), Subsea Structure, Foundation, Piping & Connection System (e.g. manifold, PLET, PLEM, SLED, rigid jumper), Subsea Boosting & Separation System, Subsea Metering (single- or multi-phase) Subsea Production Control Umbilical (steel tube and/or thermoplastic hose and/or power/communication) for static & dynamic services, umbilical accessories & proprietary items

**Mode of Operation:** Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |  |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|--|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |  |   |                                   |
|                               |               |            |  |                         | Principal to have minimum 3 years experience in Subsea System & Umbilical related works in oil and gas industry in accordance to ISO13628/API 17 (Company to provide minimum 2 projects) |   |                                   |



**Work Category:** Engineering, Construction & Projects (EC&P)  
 15142000P Fabrication & Construction  
 Subsea Systems & Umbilical

Work Category's Description: To design, manufacture, assemble, test, supply, deliver, install, hookup, commissioning of Subsea Systems & Umbilical such as but not limited to Subsea Production Control System (SPCS), Subsea Structure, Foundation, Piping & Connection System (e.g. manifold, PLET, PLEM, SLED, rigid jumper), Subsea Boosting & Separation System, Subsea Metering (single- or multi-phase) Subsea Production Control Umbilical (steel tube and/or thermoplastic hose and/or power/communication) for static & dynamic services, umbilical accessories & proprietary items

Mode of Operation: Manufacturer

| Key Personnel              |  |   | MINIMUM TECHNICAL REQUIREMENT  |                                   |                      |   |                                   |
|----------------------------|--|---|--|-----------------------------------|----------------------|---|-----------------------------------|
| Designation                | Qualification  | Experience  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools           | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Project/ Technical Manager | Degree/Diploma in any related engineering discipline | 15 years experience in offshore oil and gas with a minimum 5 years of experience in providing related services e.g. Subsea Engineering  | 1. Comprehensive office setup<br>2. Manufacturing Plant<br>3. Storage<br>4. Loadout facilities<br>5. Test facilities | Manufacturing and test facilities |                      |   |                                   |
| Lead/Senior Engineer       | Degree/Diploma in any related engineering discipline | 10 years experience in offshore oil and gas with a minimum 5 years of experience in providing related services e.g. Subsea Production Control System (SPCS) and Installation & Workover Control System (IWOC) design, Subsea Umbilical Design |  |                                   |                      |   |                                   |
| QA/QC Manager              | Degree in any related engineering discipline         | 10 years' experience in oil and gas with a minimum 5 years of experience in providing related services e.g. Subsea Production Control System (SPCS) and Subsea Umbilical manufacturing & testing related works                                |  |                                   |                      |   |                                   |
| HSE Manager                | Degree in any related engineering discipline         | 10 years' experience in oil and gas with a minimum 5 years of experience in providing related services e.g. Subsea Production Control System (SPCS) and Subsea Umbilical manufacturing & testing related works                                |  |                                   |                      |   |                                   |

**Work Category:** 15161100S **Engineering, Construction & Projects (EC&P)**  
**Integrated EPC/EPCC/EPCIC**  
**Offshore - Floating Production Facilities (FPSO/FSO - EPC/EPCC/EPCIC)**

**Work Category's Description:** Provision to perform Engineering, Procurement, Fabrication, Installation, Commissioning and Start-Up the facilities for Floating Offshore Facilities which include new-built/conversion/refurbishment/supply/operation/maintenance such as but not limited to FPSO, FSO, TLP, SPAR and Semi-sub

**Mode of Operation:** Agent

| Key Personnel                       |  |   | MINIMUM TECHNICAL REQUIREMENT         |                         |  |   |                                  |
|-------------------------------------|--|---|---------------------------------------|-------------------------|--|---|----------------------------------|
| Designation                         | Qualification  | Experience  | Facilities<br>E.g Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g ISO, API Standard |
| Company/ Principal: Project Manager | Bachelor Degree in Engineering   | Min ten (10) years experience in managing similar scope of services   | Proper office setup                   |                         | Principal to have at least 10 years experience in Oil and Gas business with minimum of 5 years of proven track record in floating offshore facilities business |   |                                  |
| Company/ Principal: Lead Engineers  | Bachelor Degree in any relevant engineering discipline, preferably Naval Architecture/ Marine Engineering/ Mechanical Engineering/ Structural/Riser Engineering/Pipeline Engineering. Master is preferred. | 5 years experience in Oil and Gas business with a minimum of 3 years of operation/design/ fabrication/ conversion of Floating Offshore Facilities e.g.: FSO, FPSO, FPS, TLP, Spar, Semisub, etc |                                       |                         |  |   |                                  |

**Work Category:** **15161100S** **Engineering, Construction & Projects (EC&P)**  
**Fabrication & Construction**  
**Offshore - Floating Production Facilities (FPSO/FSO)**

**Work Category's Description:** Provision to perform Engineering, Procurement, Fabrication, Installation, Commissioning and Start-Up the facilities for Floating Offshore Facilities which include new-built/conversion/refurbishment/supply/operation/maintenance such as but not limited to FPSO, FSO, TLP, SPAR and Semi-sub

**Mode of Operation:** Self-operated

| Key Personnel   |  |   | MINIMUM TECHNICAL REQUIREMENT          |                         |                      |   |                                   |
|-----------------|--|---|--|-------------------------|----------------------|---|-----------------------------------|
| Designation     | Qualification  | Experience  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Project Manager | Bachelor Degree in Engineering   | Min ten (10) years experience in managing similar scope of services   | Proper office setup                    |                         |                      |   |                                   |
| Lead Engineers  | Bachelor Degree in any relevant engineering discipline, preferably Naval Architecture/ Marine Engineering/ Mechanical Engineering/ Structural/Riser Engineering/Pipeline Engineering. Master is preferred. | 5 years experience in Oil and Gas business with a minimum of 3 years of operation/design/ fabrication/ conversion of Floating Offshore Facilities e.g.: FPSO, FPSO, FPS, TLP, Spar, Semsuob, etc. |  |                         |                      |   |                                   |

**Work Category:** Engineering, Construction & Projects (EC&P)  
 15161200S Integrated EPC/EPC/EPCIC  
 Offshore - Mobile Production Facilities (MOPU - EPC/EPC/EPCIC)

**Work Category's Description:** Provision to perform Engineering, Procurement, Fabrication, Installation, Commissioning and Start-Up the facilities for Mobile Offshore Facilities which includes new-built/conversion/refurbishment/supply/ operation/maintenance such as but not limited to MOPU, MODU, MOPSU and MOAB

**Mode of Operation:** Agent

| Key Personnel                      |  |  | MINIMUM TECHNICAL REQUIREMENT          |                         |  |   |                                   |
|------------------------------------|--|--|--|-------------------------|--|---|-----------------------------------|
| Designation                        | Qualification  | Experience   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Company/ Principal/Project Manager | Bachelor Degree in Engineering   | Min ten (10) years experience in managing similar scope of services  | Proper office setup                    |                         | Principal to have at least 10 years experience in Oil and Gas business with minimum of 5 years of proven track record in Mobile Offshore Facilities business |   |                                   |
| Company/ Principal/ Lead Engineers | Bachelor Degree in any relevant engineering discipline, preferably Naval Architecture/ Marine Engineering/ Mechanical Engineering/ Structural/Riser Engineering/Pipeline Engineering. Master is preferred. | 5 years experience in Oil and Gas business with a minimum of 3 years of operations/design/ fabrication/ conversion of Mobile Offshore Facilities e.g.: MOPU, MODU, MOPSU, MOAB, and etc. |  |                         |  |   |                                   |

**Work Category:** 15161200S **Engineering, Construction & Projects (EC&P)**  
 Integrated EPC/EPC/EPCIC  
 Offshore - Mobile Production Facilities (MOPU - EPC/EPC/EPCIC)

**Work Category's Description:** Provision to perform Engineering, Procurement, Fabrication, Installation, Commissioning and Start-Up the facilities for Mobile Offshore Facilities which includes new-built/conversion/refurbishment/supply/ operation/maintenance such as but not limited to MOPU, MODU, MOPSU, MOAB, etc.

**Mode of Operation:** Self-operated

| Key Personnel   |  |   | MINIMUM TECHNICAL REQUIREMENT          |                         |                      |   |                                   |
|-----------------|--|---|--|-------------------------|----------------------|---|-----------------------------------|
| Designation     | Qualification  | Experience  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Project Manager | Bachelor Degree in Engineering   | Min ten (10) years experience in managing similar scope of services   | Proper office setup                    |                         |                      |   |                                   |
| Lead Engineers  | Bachelor Degree in any relevant engineering discipline, preferably Naval Architecture/ Marine Engineering/ Mechanical Engineering/ Structural/Riser Engineering/Pipeline Engineering. Master is preferred. | 5 years experience in Oil and Gas business with a minimum of 3 years of operation/design/ fabrication/ conversion of Mobile Offshore Facilities e.g.: MOPU, MODU, MOPSU, MOAB, and etc. |  |                         |                      |   |                                   |

**Work Category:** 15161400S **Engineering, Construction & Projects (EC&P)**  
 Integrated EPC/EPCCEPCIC  
 Onshore Facilities

**Work Category's Description:** Provision to perform Engineering, Procurement, Construction, Installation, Commissioning and Start-Up for integrated construction work including but not limited to mechanical, instrumentation, electrical, structural and civil work. Typical onshore facilities such as but not limited to terminal, gas processing plant and tank farm

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            |  |                         |                      | CIDB - related M/E category                   |                                   |

**Work Category:** 15161500S Engineering, Construction & Projects (EC&P)  
 Integrated EPC/EPCCE/PCIC  
 Onshore Pipeline

Work Category's Description: Provision of labor, material, equipment, services and facilities for onshore general pipeline construction and installation

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH                     | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            |  |                         |                      | 1. CIDB – Category CE<br>2. DOSH registered as Pipeline Installer |                                   |

**Work Category:** **Engineering, Construction & Projects (EC&P)**  
**15171000S** **Offshore Transportation & Installation**  
**Cable & Umbilical**

Work Category's Description: The provision of PMT, transportation & installation engineering, procedures, cable & umbilical laying marine spread, inclusive of construction equipment, diving spread, qualified personnel, rigging, survey & positioning, ROV, consumables and other installation aids required for offshore installation and pre-commissioning

Mode of Operation: Agent

| Key Personnel                                   |  |   | MINIMUM TECHNICAL REQUIREMENT          |  |  |   |                                   |
|---|--|---|--|--|--|---|-----------------------------------|
| Designation                                     | Qualification                                  | Experience  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience   | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Project Manager                                 | Degree / Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position | Proper & Manned Office Setup           | List of:<br>1. Cable lay barge/vessel (Owned by principal)<br>2. Construction Equipment (Owned/Leased) | Principal<br>Minimum 5 years in managing & executing offshore construction |   |                                   |
| Construction/ Installation/ Engineering Manager | Degree / Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |  |   |                                   |
| QA/QC Manager                                   | Degree / Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |  |   |                                   |
| HSE Manager                                     | Degree / Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |  |   |                                   |



**Work Category:** **Engineering, Construction & Projects (EC&P)**  
**15171000S** **Offshore Transportation & Installation**  
**Cable & Umbilical**

Work Category's Description: The provision of PMT, transportation & installation engineering, procedures, cable & umbilical laying marine spread, inclusive of construction equipment, diving spread, qualified personnel, rigging, survey & positioning, ROV, consumables and other installation aids required for offshore installation and pre-commissioning

Mode of Operation: Self-operated

| Key Personnel                                     |  |   | MINIMUM TECHNICAL REQUIREMENT          |  |                      |   |                                   |
|---|--|---|--|--|----------------------|---|-----------------------------------|
| Designation                                       | Qualification                                  | Experience  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Project Manager                                   | Degree / Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position | Proper & Manned Office Setup           | List of:<br>1. Cable lay barge/vessel (Owned/Leased)<br>2. Construction Equipment (Owned/Leased) |                      |   |                                   |
| Construction / Installation / Engineering Manager | Degree / Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |                      |   |                                   |
| QA/QC Manager                                     | Degree / Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |                      |   |                                   |
| HSE Manager                                       | Degree / Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |                      |   |                                   |

|                       |  |
|-----------------------|--|
| <b>Work Category:</b> | <b>Engineering, Construction &amp; Projects (EC&amp;P)</b><br>Offshore Transportation & Installation<br>Fixed Structure<br>Floatover/Other Methods |
| 15171110S             |  |

Work Category's Description: The provision of PMT, transportation & installation engineering, procedures, floatover barge/vessel inclusive of marine spread, construction equipment, diving spread, qualified personnel, rigging, survey & positioning, ROV and other installation aids required for offshore installation

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT                   |  |   |  |   |   |   |                                   |
|---|--|---|--|---|---|---|-----------------------------------|
| Key Personnel                                   |  |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools   | Company's Experience  | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                                     | Qualification                                | Experience  |  |   |   |   |                                   |
| Project Manager                                 | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position | Proper & Manned Office Setup           | List of:<br>1. Floatover barge/vessel (Owned by principal)<br>2. Construction Equipment (Owned /Leased) | Principal to have minimum 5 years in managing & executing offshore construction |   |                                   |
| Construction/ Installation/ Engineering Manager | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |   |   |   |                                   |
| QA/QC Manager                                   | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |   |   |   |                                   |
| HSE Manager                                     | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |   |   |   |                                   |

**Work Category:** Engineering, Construction & Projects (EC&P)  
 Offshore Transportation & Installation  
 Fixed Structure  
 Floatover/Other Methods  
 15171110S

**Work Category's Description:** The provision of PMT, transportation & installation engineering, procedures, floatover barge/vessel inclusive of marine spread, construction equipment, diving spread, qualified personnel, rigging, survey & positioning, ROV and other installation aids required for offshore installation

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT                   |  |   |  |  |                      |   |                                   |
|---|--|---|--|--|----------------------|---|-----------------------------------|
| Key Personnel                                   |  |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                                     | Qualification                                | Experience  |  |  |                      |   |                                   |
| Project Manager                                 | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position | Proper & Manned Office Setup           | List of:<br>1. Floatover barge/vessel (Owned/Leased)<br>2. Construction Equipment (Owned/Leased) |                      |   |                                   |
| Construction/ Installation/ Engineering Manager | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |                      |   |                                   |
| QA/QC Manager                                   | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |                      |   |                                   |
| HSE Manager                                     | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |                      |   |                                   |

|                       |  |
|-----------------------|--|
| <b>Work Category:</b> | <b>Engineering, Construction &amp; Projects (EC&amp;P)</b><br>Offshore Transportation & Installation<br>Fixed Structure<br>Lifting Method - Dynamic Positioning Vessel |
| 15171111S             |  |

Work Category's Description: The provision of PMT, transportation & installation engineering, procedures, DP derrick barge/vessel inclusive of marine spread, construction equipment, diving spread, qualified personnel, heavy lift rigging, piling, grouting, survey & positioning, ROV and other installation aids required for offshore installation

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT                   |  |   |  |  |   |   |                                   |
|---|--|---|--|--|---|---|-----------------------------------|
| Key Personnel                                   |  |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience  | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                                     | Qualification                                | Experience  |  |  |   |   |                                   |
| Project Manager                                 | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position | Proper & Manned Office Setup           | List of:<br>1. Lifting DP Vessel (Owned by principal)<br>2. Construction Equipment (Owned /Leased) | Principal to have minimum 5 years in managing & executing offshore construction |   |                                   |
| Construction/ Installation/ Engineering Manager | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |   |   |                                   |
| QA/QC Manager                                   | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |   |   |                                   |
| HSE Manager                                     | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |   |   |                                   |

**Work Category:** Engineering, Construction & Projects (EC&P)  
 Offshore Transportation & Installation  
 Fixed Structure  
 Lifting Method - Dynamic Positioning Vessel  
 15171111S

Work Category's Description: The provision of PMT, transportation & installation engineering, procedures, DP derrick barge/vessel inclusive of marine spread, construction equipment, diving spread, qualified personnel, heavy lift rigging, piling, grouting, survey & positioning, ROV and other installation aids required for offshore installation

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT                   |  |   |  |   |                      |   |                                   |
|---|--|---|--|---|----------------------|---|-----------------------------------|
| Key Personnel                                   |  |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                                     | Qualification                                | Experience  |  |   |                      |   |                                   |
| Project Manager                                 | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position | Proper & Manned Office Setup           | List of:<br>1. Lifting DP Vessel (Owned /Leased)<br>2. Construction Equipment (Owned /Leased) |                      |   |                                   |
| Construction/ Installation/ Engineering Manager | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |   |                      |   |                                   |
| QA/QC Manager                                   | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |   |                      |   |                                   |
| HSE Manager                                     | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |   |                      |   |                                   |

**Work Category:** Engineering, Construction & Projects (EC&P)  
 Offshore Transportation & Installation  
 Fixed Structure  
 Lifting Method - Non Dynamic Positioning Vessel  
 15171112S

Work Category's Description: The provision of PMT, transportation & installation engineering, procedures, derrick barge/vessel inclusive of marine spread, construction equipment, diving spread, qualified personnel, heavy lift rigging, piling, grouting, survey & positioning, ROV and other installation aids required for offshore installation

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT                   |  |   |  |   |   |   |                                   |
|---|--|---|--|---|---|---|-----------------------------------|
| Key Personnel                                   |  |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools   | Company's Experience  | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                                     | Qualification                                | Experience  |  |   |   |   |                                   |
| Project Manager                                 | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position | Proper & Manned Office Setup           | List of:<br>1. Derrick barge/vessel (Owned by principal)<br>2. Construction Equipment (Owned /Leased) | Principal to have minimum 5 years in managing & executing offshore construction |   |                                   |
| Construction/ Installation/ Engineering Manager | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |   |   |   |                                   |
| QA/QC Manager                                   | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |   |   |   |                                   |
| HSE Manager                                     | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |   |   |   |                                   |

**Work Category:** Engineering, Construction & Projects (EC&P)  
 Offshore Transportation & Installation  
 Fixed Structure  
 Lifting Method - Non Dynamic Positioning Vessel  
 15171112S

**Work Category's Description:** The provision of PMT, transportation & installation engineering, procedures, derrick barge/vessel inclusive of marine spread, construction equipment, diving spread, qualified personnel, heavy lift rigging, piling, grouting, survey & positioning, ROV and other installation aids required for offshore installation

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT                   |  |   |  |  |                      |   |                                   |
|---|--|---|--|--|----------------------|---|-----------------------------------|
| Key Personnel                                   |  |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                                     | Qualification                                | Experience  |  |  |                      |   |                                   |
| Project Manager                                 | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position | Proper & Manned Office Setup           | List of:<br>1. Derrick barge/vessel (Owned/Leased)<br>2. Construction Equipment (Owned/Leased) |                      |   |                                   |
| Construction/ Installation/ Engineering Manager | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |                      |   |                                   |
| QA/QC Manager                                   | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |                      |   |                                   |
| HSE Manager                                     | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |                      |   |                                   |

|                       |  |
|-----------------------|--|
| <b>Work Category:</b> | <b>Engineering, Construction &amp; Projects (EC&amp;P)</b><br><b>Offshore Transportation &amp; Installation</b><br><b>Pipeline &amp; Cable</b><br><b>15171210S</b><br><b>Pipelay Conventional Method ('S' and/or 'J' Lay Method)</b> |
|-----------------------|--|

Work Category's Description: The provision of PMT, transportation & installation engineering, procedures (including welding), pipeline installation barge/vessel inclusive of marine spread, construction equipment, diving spread, qualified personnel, rigging, survey & positioning, ROV, field joint coating, NDT, consumables and other installation aids required for offshore installation and pre-commissioning

Mode of Operation: Agent

| Key Personnel                                   |  |   | MINIMUM TECHNICAL REQUIREMENT          |  |   |   |                                   |
|---|--|---|--|--|---|---|-----------------------------------|
| Designation                                     | Qualification                                | Experience  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience  | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Project Manager                                 | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position | Proper & Manned Office Setup           | List of:<br>1. Pipeline Installation barge/ vessel (Owned by principal)<br>2. Construction Equipment (Owned /Leased) | Principal to have minimum 5 years in managing & executing offshore construction |   |                                   |
| Construction/ Installation/ Engineering Manager | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |   |   |                                   |
| QA/QC Manager                                   | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |   |   |                                   |
| HSE Manager                                     | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |   |   |                                   |



|                       |  |
|-----------------------|--|
| <b>Work Category:</b> | <b>Engineering, Construction &amp; Projects (EC&amp;P)</b><br><b>Offshore Transportation &amp; Installation</b><br><b>Pipeline &amp; Cable</b><br><b>15171210S</b><br><b>Pipelay Conventional Method ('S' and/or 'J' Lay Method)</b> |
|-----------------------|--|

Work Category's Description: The provision of PMT, transportation & installation engineering, procedures (including welding), pipeline installation barge/vessel inclusive of marine spread, construction equipment, diving spread, qualified personnel, rigging, survey & positioning, ROV, field joint coating, NDT, consumables and other installation aids required for offshore installation and pre-commissioning

Mode of Operation: Self-operated

| Key Personnel                                   |  |   | MINIMUM TECHNICAL REQUIREMENT          |  |                      |   |                                   |
|---|--|---|--|--|----------------------|---|-----------------------------------|
| Designation                                     | Qualification                                | Experience  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Project Manager                                 | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position | Proper & Manned Office Setup           | List of:<br>1. Pipeline Installation barge/ vessel (Owned/Leased)<br>2. Construction Equipment (Owned /Leased) |                      |   |                                   |
| Construction/ Installation/ Engineering Manager | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |                      |   |                                   |
| QA/QC Manager                                   | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |                      |   |                                   |
| HSE Manager                                     | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |                      |   |                                   |

**Work Category:** **Engineering, Construction & Projects (EC&P)**  
**Offshore Transportation & Installation**  
**15171211S Pipeline & Cable**  
**Tow, Reeling, Flexible & Other Methods**

**Work Category's Description:** The provision of PMT, transportation & installation engineering, procedures (including welding), construction marine spread, pipe stringing facilities inclusive of construction equipment, diving spread, qualified personnel, rigging, survey & positioning, ROV, field joint coating, NDT, consumables and other installation aids required for offshore installation and pre-commissioning

**Mode of Operation:** Agent

| Key Personnel                                   |  |   | MINIMUM TECHNICAL REQUIREMENT          |  |   |   |                                   |
|---|--|---|--|--|---|---|-----------------------------------|
| Designation                                     | Qualification                                | Experience  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience  | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Project Manager                                 | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position | Proper & Manned Office Setup           | List of:<br>1. Pipelay barge/vessel or construction vessel (Owned by principal)<br>2. Construction Equipment (Owned /Leased) | Principal to have minimum 5 years in managing & executing offshore construction |   |                                   |
| Construction/ Installation/ Engineering Manager | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |   |   |                                   |
| QA/QC Manager                                   | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |   |   |                                   |
| HSE Manager                                     | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |   |   |                                   |

**Work Category:** Engineering, Construction & Projects (EC&P)  
 Offshore Transportation & Installation  
 Pipeline & Cable  
 15171211S Tow, Reeling, Flexible & Other Methods

Work Category's Description: The provision of PMT, transportation & installation engineering, procedures (including welding), construction marine spread, pipe stringing facilities inclusive of construction equipment, diving spread, qualified personnel, rigging, survey & positioning, ROV, field joint coating, NDT, consumables and other installation aids required for offshore installation and pre-commissioning

Mode of Operation: Self-operated

| Key Personnel                                   |  |   | MINIMUM TECHNICAL REQUIREMENT          |  |                      |   |                                   |
|---|--|---|--|--|----------------------|---|-----------------------------------|
| Designation                                     | Qualification                                | Experience  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Project Manager                                 | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position | Proper & Manned Office Setup           | List of:<br>1. Pipelay barge/vessel or construction vessel (Owned/Leased)<br>2. Construction Equipment (Owned /Leased) |                      |   |                                   |
| Construction/ Installation/ Engineering Manager | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |                      |   |                                   |
| QA/QC Manager                                   | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |                      |   |                                   |
| HSE Manager                                     | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |                      |   |                                   |

**Work Category:** **Engineering, Construction & Projects (EC&P)**  
**15171300S** **Offshore Transportation & Installation**  
**SBM & Subsea Structure**

Work Category's Description: The provision of PMT, transportation & installation engineering, procedures, offshore construction barge/vessel inclusive of marine spread, construction equipment, diving spread, qualified personnel, rigging, piling, survey & positioning, ROV and other installation aids required for offshore installation

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT                   |  |   |  |   |   |   |                                   |
|---|--|---|--|---|---|---|-----------------------------------|
| Key Personnel                                   |  |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools   | Company's Experience  | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                                     | Qualification                                | Experience  |  |   |   |   |                                   |
| Project Manager                                 | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position | Proper & Manned Office Setup           | List of:<br>1. Offshore Construction barge/vessel (Owned by principal)<br>2. Construction Equipment (Owned /Leased) | Principal to have minimum 5 years in managing & executing offshore construction |   |                                   |
| Construction/ Installation/ Engineering Manager | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |   |   |   |                                   |
| QA/QC Manager                                   | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |   |   |   |                                   |
| HSE Manager                                     | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |   |   |   |                                   |

**Work Category:** **Engineering, Construction & Projects (EC&P)**  
**15171300S** **Offshore Transportation & Installation**  
**SBM & Subsea Structure**

Work Category's Description: The provision of PMT, transportation & installation engineering, procedures, offshore construction barge/vessel inclusive of marine spread, construction equipment, diving spread, qualified personnel, rigging, piling, survey & positioning, ROV and other installation aids required for offshore installation

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT                   |  |   |  |  |                      |   |                                   |
|---|--|---|--|--|----------------------|---|-----------------------------------|
| Key Personnel                                   |  |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                                     | Qualification                                | Experience  |  |  |                      |   |                                   |
| Project Manager                                 | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position | Proper & Manned Office Setup           | List of:<br>1. Offshore Construction barge/vessel (Owned/Leased)<br>2. Construction Equipment (Owned/Leased) |                      |   |                                   |
| Construction/ Installation/ Engineering Manager | Degree/Diploma in engineering                | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |                      |   |                                   |
| QA/QC Manager                                   | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |                      |   |                                   |
| HSE Manager                                     | Degree/Diploma<br>Or<br>Relevant Certificate | Minimum 7 exp. years in Oil & Gas Industry with minimum 2 years of exp. in similar position |  |  |                      |   |                                   |

**Work Category:** **Engineering, Construction & Projects (EC&P)**  
 15141610S **Fabrication & Construction**  
**Onshore - Facilities Fabrication**  
**Major Fabrication**

**Work Category's Description:** Provision to perform Construction for integrated construction work including but not limited to mechanical, instrumentation, electrical, structural and civil work. Typical onshore facilities such as but not limited to terminal, gas processing plant and tank farm

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            |  |                         |                      | CIDB - related M/E category                   |                                   |

**Work Category:** 15141700S Engineering, Construction & Projects (EC&P)  
 Fabrication & Construction  
 Onshore - Pipeline

Work Category's Description: Provision of labor, material, equipment, services and facilities for onshore general pipeline construction

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH                     | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            |  |                         |                      | 1. CIDB – Category CE<br>2. DOSH registered as Pipeline Installer |                                   |

**Work Category:** 15141800S **Engineering, Construction & Projects (EC&P)**  
 Fabrication & Construction  
 Service Station Construction

Work Category's Description: The provision of engineering, manpower, materials, equipment, services, project management and facilities for construction of service station and associated infrastructure

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH                         | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            |  |                         |                      | 1. CIDB B02 or B04; Grade G3 & above<br>2. CIDB M12; Grade G3 & above |                                   |



**Work Category:** 15142100S Engineering, Construction & Projects (EC&P)  
 Fabrication & Construction  
 Tank/Tank Farms

Work Category's Description: To design, supply, deliver, install and test of tank/tank farms

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            |  |                         |                      | CIDB – related M category                     |                                   |

**Work Category:** **Engineering, Construction & Projects (EC&P)**  
**15151100S** **Hook-up & Commissioning**  
**Hook-Up & Commissioning of Offshore Facilities**

**Work Category's Description:** The provision of manpower, materials, consumables, equipment and services necessary for hook-up & commissioning such as but not limited to workpack development, onshore prefabrication, onshore testing & precommissioning and marine spreads

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            |  |                         |                      | CIDB – Category CE15                          |                                   |

**Work Category** : **16120000S** **General Equipment, Maintenance & Spares**  
**Equipment Chemical Cleaning**

Work Category's Description : Provision of expert advice, labour, equipment and chemical for equipment chemical cleaning services and post cleaning services such as but not limited to passivation and handling of waste

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |                                      |  |  |   |  |   |                                   |
|-------------------------------|--------------------------------------|--|--|---|--|---|-----------------------------------|
| Key Personnel                 |                                      |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools   | Company's Experience   | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                        | Experience   |  |   |  |   |                                   |
| Engineer                      | Degree in any engineering discipline | Minimum of 5 years experience in chemical cleaning   | 1. Manned and permanent office setup   | Chemical Cleaning Equipment<br>1. Pump<br>2. Retention Tank<br>3. Hoses<br>4. Connection<br>5. Waste Retention Equipment<br>6. Appropriate corrosion monitoring tools (e.g. Corrosion Coupon Holder)<br>7. Tools kit for lab test (e.g. pH meter, conductivity, iron and etc) | Principal to have minimum of 10 years in providing chemical cleaning and minimum 15 proven track record in chemical cleaning | Business License from Local Authority         |                                   |
| Site Supervisor / Technician  | Diploma in any field of engineering  | Minimum of 3 years experience in chemical cleaning and able to conduct full range of chemical analysis require during chemical cleaning exercise |  |   |  |   |                                   |

**Work Category** : **16150000S** **General Equipment, Maintenance & Spares Heating, Ventilating & Air Conditioning (HVAC) Services**

Work Category's Description : The provision of manpower, materials, consumables, equipment and facilities necessary for inspection, repair and maintenance of Heating Ventilation Air Conditioning (HVAC) & Split Unit

Mode of Operation : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |   |   |  |   |                      |   |                                   |
|-------------------------------|---|---|--|---|----------------------|---|-----------------------------------|
| Key Personnel                 |   |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience                                      |  |   |                      |   |                                   |
| Project Engineer              | Degree in Mechanical Engineering  | 3 years experience in HVAC repair & maintenance | Proper office & operational workshop   | 1. Waterjet /hydrojet<br>2. Air compressor<br>3. Access to lifting equipment<br>4. Hand tools |                      |   |                                   |
| Site Supervisor               | Diploma in Mechanical Engineering<br>Or<br>Certificate in related field | 5 years experience in HVAC maintenance & repair |  |   |                      |   |                                   |

**Work Category:** 16160000P General Equipment, Maintenance & Spares Heating, Ventilation & Air Conditioning (HVAC) Equipment & Spares

Work Category's Description: The provision of labor, materials, consumables, equipment and facilities necessary for repair, upgrading, change out/replacement, modification, maintenance, troubleshooting, testing and commissioning of secured voice and data communication network

Mode of Operation: Assembler

| MINIMUM TECHNICAL REQUIREMENT |  |  |   |  |                      |   |                                   |
|-------------------------------|--|--|---|--|----------------------|---|-----------------------------------|
| Key Personnel                 |  |  | Facilities<br>E.g. Warehouse, Dockyard                              | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH             | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification  | Experience   |   |  |                      |   |                                   |
| Project Manager               | Degree in Mechanical /Electrical Engineering<br><br>Or<br>Diploma in Mechanical / Electrical Engineering | Minimum 5 years experience in project management<br><br>Or<br>Minimum 7 years experience in project management | 1. Office Building<br>2. Fabrication Yard/<br>Assembling facilities | 1. Lifting Facilities (i.e. Overhead Crane, forklift)<br>2. CAD Software<br>3. Access to cutting & bending machine<br>4. Access to testing facilities (e.g. smoke generator, pressure test for refrigeration piping, duct work & etc.) |                      | 1. Business License from local authority<br>2. CIDB – M01 |                                   |
| Production Manager            | Degree in any Engineering field<br><br>Or<br>Diploma in Mechanical / Electrical Engineering              | Minimum 5 years experience in HVAC assembling<br><br>Or<br>Minimum 7 years in HVAC assembling                  |   |  |                      |   |                                   |
| Engineering Manager           | Degree in Mechanical /Electrical Engineering   | Minimum 5 years experience in HVAC design  |   |  |                      |   |                                   |
| Design Engineer               | Degree in Mechanical /Electrical Engineering   | Minimum 3 years experience in HVAC design  |   |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field  | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)                                       |   |  |                      |   |                                   |

**Work Category** : **General Equipment, Maintenance & Spares**  
**16191000S** **Machining & Fabrication Workshop**  
**In-situ Machining**

Work Category's Description : The provision of labour, materials, consumables, equipments and facilities necessary for in-situ machining (inclusive of drilling, grinding, cutting, shaping, milling, turning, balancing)

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |                                     |  |  |   |                      |   |                                   |
|-------------------------------|-------------------------------------|--|--|---|----------------------|---|-----------------------------------|
| Key Personnel                 |                                     |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                       | Experience   |  |   |                      |   |                                   |
| Supervisor                    | SPM Or certificate in related field | 3 years experience in in-situ machining              | Workshop, Proper office setup          | Drilling, grinding, cutting, shaping, milling, turning equipment In-situ flange machining equipment valve lapping machine<br><br>*Company to provide the list of equipment, quantity, owned/ rent, owner (if rented). |                      |   |                                   |
| Machinist                     | SPM Or certificate in related field | 3 years experience in in-situ machining and workshop |  |   |                      |   |                                   |

**Work Category** : **General Equipment, Maintenance & Spares**  
**16191100S** **Machining & Fabrication Workshop**  
**Machining Workshop**

Work Category's Description : The provision of labour, materials, consumables, equipments and facilities necessary for machining workshop (inclusive of lathe, bending, drilling, grinding, cutting, shaping, milling, turning, balancing)

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |                                     |  |   |   |                      |   |                                   |
|-------------------------------|-------------------------------------|--|---|---|----------------------|---|-----------------------------------|
| Key Personnel                 |                                     |  | Facilities<br>E.g. Warehouse, Dockyard                  | Equipment<br>E.g. Tools   | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                       | Experience   |   |   |                      |   |                                   |
| Supervisor                    | SPM Or certificate in related field | 3 years experience in machining and workshop fabrication | Workshop, Proper office setup<br>Mechanical Maintenance | lathe, bending, drilling, grinding, cutting, shaping, milling, turning, blasting, welding equipment<br><br>*Company to provide the list of equipment, quantity, owned/ rent, owner (if rented). |                      |   |                                   |
| Machinist                     | SPM Or certificate in related field | 3 years experience in machining and workshop fabrication |   |   |                      |   |                                   |

**Work Category** : **General Equipment, Maintenance & Spares**  
**16241000P** **Service Station Equipment**  
**Fuel Dispenser & Accessories**

**Work Category's Description** : To supply, deliver, install, test and commission service station fuel dispenser & accessories such as but not limited to nozzle, hose, visi gauge, breakaway coupling, swivel joint, submersible turbine pump, leak detector, automatic tank gauging, outdoor payment terminal, digital screen display, lighting surge protector, pump controller and shear valves

**Mode of Operation** : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |   |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|---|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |   |   |                                   |
|                               |               |            |  |                         | Principal to have minimum 5 years experience in petrol station equipment, manufacturing and maintenance |   |                                   |



**Work Category** : **General Equipment, Maintenance & Spares**  
**16241300P** **Service Station Equipment**  
**Underground Flexible Fuel Piping System**

Work Category's Description : To supply, deliver, install, test and commission underground flexible fuel piping system and accessories such as but not limited to tank sump and cover, manhole cover and lifting handle, monitoring test well and dispenser sump

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |  |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|--|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |  |   |                                   |
|                               |               |            |  |                         | Principal to have minimum 5 years experience in manufacturing of underground flexible fuel piping system |   |                                   |

**Work Category** : **General Equipment, Maintenance & Spares**  
**16241400P** **Service Station Equipment**  
**Underground Storage Tank & Accessories**

**Work Category's Description** : To supply, deliver, install, test and commission underground storage tank and accessories such as but not limited to float vent valve, manhole cover, dipping pipe, filling pipe, monitoring test well and vacuum gauge

**Mode of Operation** : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |   |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|---|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |   |   |                                   |
|                               |               |            |  |                         | Principal to have minimum 5 years experience in manufacturing of storage tank |   |                                   |

**Work Category** : **General Equipment, Maintenance & Spares**  
**16241400P** **Service Station Equipment**  
**Underground Storage Tank & Accessories**

Work Category's Description : To supply, deliver, install, test and commission underground storage tank & accessories (e.g. float vent valve, manhole cover, dipping pipe, filling pipe, monitoring test well, vacuum gauge, etc.)

Mode of Operation : Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |  |                      |   |                                   |
|-------------------------------|---|--|---|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                                   | Experience   |   |  |                      |   |                                   |
| Project Manager               | Degree in Mechanical Or Civil Engineering       | Minimum 5 years experience in managing civil construction work and/or underground storage tank facilities. | 1.Manned and permanent office setup<br>2.Fabrication Yard/ Fabrication & Assembling facilities<br>3.Warehouse | 1.Lifting Facilities (i.e. Overhead Crane, forklift)<br>2.Design software e.g. CAD<br>3.Rolling, cutting & bending machine<br>4.Welding facilities<br>5.Access to blasting & painting facilities / services<br>6.Testing facilities (e.g. pressure test, hydrotest and etc.) |                      | Business License from local authority         |                                   |
| Production Manager            | Degree in Mechanical Engineering                | Minimum 3 years experience in manufacturing of underground storage tank facilities.                        |   |  |                      |   |                                   |
| QA/QC Engineer                | Degree in Mechanical Engineering field          | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)                                   |   |  |                      |   |                                   |
| Project Engineer              | Degree in Mechanical Or Civil Engineering field | Minimum 2 years experience in petrol station construction and/or underground storage tank facilities.      |   |  |                      |   |                                   |
| Technician                    | Trained and certified                           | N/A  |   |  |                      |   |                                   |

**Work Category** : **General Equipment, Maintenance & Spares**  
**16261000P** **Spare Parts**  
**Aviation Filters (Jet A1 & Avgas)**

Work Category's Description : To supply and deliver aviation filters such as but not limited to microfilter, coalescer, separator, clay filter and filter monitor

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |   |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|---|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |   |   |                                   |
|                               |               |            |  |                         | Principal to have minimum 10 years experience in aviation filters related works<br><br>Company to have minimum 3 years experience in aviation filters related works |   |                                   |

**Work Category** : **General Equipment, Maintenance & Spares**  
**16261500P** **Spare Parts**  
**Fluid/Turbo Coupling**

Work Category's Description : To supply and deliver Fluid/Turbo Coupling component and parts

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |   |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|---|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |   |   |                                   |
|                               |               |            |  |                         | Minimum 3 years experience in O&G mechanical rotating related works |   |                                   |

|                      |   |   |
|----------------------|---|---|
| <b>Work Category</b> | : | <b>General Equipment, Maintenance &amp; Spares<br/>Spare Parts<br/>Fluid/Turbo Coupling</b> |
|                      |   | <b>16261500P</b>  |

Work Category's Description : To supply and deliver Fluid/Turbo Coupling component and parts

Mode of Operation : Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |   |  |   |                      |   |                                   |
|-------------------------------|---|---|--|---|----------------------|---|-----------------------------------|
| Key Personnel                 |   |   | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools   | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH                                 | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience  |  |   |                      |   |                                   |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or<br>Minimum 5 years experience in project management               | 1.Manned and permanent office setup<br>2.Assembling facility<br>3.Access to testing facility | Required tools for assembly and testing, e.g. alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      | 1.Business License from Local Authority<br>2.DOSH – "Surat Kebenaran Operasi" |                                   |
| Engineer                      | Degree in Mechanical Engineering or related engineering field       | 1. Minimum 5 years experience in mechanical rotating related works<br>2.Trained and certified from Principal          |  |   |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field                                     | 1. Minimum 5 years experience doing QA/QC and Factory Acceptance Test (FAT)<br>2.Trained and certified from Principal |  |   |                      |   |                                   |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in mechanical rotating related works   |  |   |                      |   |                                   |

**Work Category** : **General Equipment, Maintenance & Spares**  
**16141200S** **Gas Cylinder Services**  
**LPG Reticulation System**

Work Category's Description : The provision of manpower, materials, equipment and facilities necessary for installation, requalification and maintenance of LPG bulk tank facilities

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            |  |                         |                      | Suruhanjaya Tenaga (ST) or<br>DOSH – Kontraktor Talian<br>Paip (Gas) for Company in<br>Semenanjung Malaysia and<br>Sabah or Certificate of<br>Electrical Installation Contractor<br>(EIC) for Company Sarawak |                                   |

**Work Category** : **General Equipment, Maintenance & Spares**  
**16141200S** **Gas Cylinder Services**  
**LPG Reticulation System**

Work Category's Description : The provision of manpower, materials, equipment and facilities necessary for installation, requalification and maintenance of LPG bulk tank facilities

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            |  |                         |                      | Suruhanjaya Tenaga (ST) or<br>DOSH – Kontraktor Talian<br>Paip (Gas) for Company in<br>Semenanjung Malaysia and<br>Sabah or Certificate of<br>Electrical Installation Contractor<br>(EIC) for Company Sarawak |                                   |



**Work Category** : **General Equipment, Maintenance & Spares**  
**16231100S** **Removal & Disposal Services**  
**Removal & Disposal Of Metal Scrap**

Work Category's Description : The provision of manpower, equipment, services, treatment, characterization, transportation & disposal of metal scrap

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            |  |                         |                      | Business license applicable to the scope of work issued by relevant authority (e.g. PDRM, local municipal / city council) |                                   |

**Work Category** : **General Equipment, Maintenance & Spares**  
**16262100P** **Spare Parts**  
**Specialised Connectors & Joints**

Work Category's Description : To supply and deliver Welded or Non-welded Specialised Connectors and Joints such as clamp type connectors, compact flanges, swivels flanges, hammer lug, swage connector and joints

Mode of Operation : Dealer

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            |  |                         |                      | 3rd party type approval (DNV, etc)<br>*Require 3rd party approval due to product not listed in ASME or API then manufacturer need to design and inspected by 3rd party. |                                   |

**Work Category :** Geological & Geophysical (G&G)  
**17101000S** G&G Consultancy Services  
 Geological Feasibility/Prospecting/Reconnaissance Study

**Work Category's Description :** The provision of personnel and equipment to conduct study and propose optimal solution to acquire and process geological data such as but not limited to surface geochemistry and time Lapse

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT            |                          |  |   |   |   |  |                                   |
|--|--------------------------|--|---|---|---|--|-----------------------------------|
| Key Personnel                            |                          |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                              | Qualification            | Experience   |   |   |   |  |                                   |
| AGENT<br>Business Development<br>Manager | Degree in any discipline | Minimum 3 years<br>experience in oil & gas<br>exploration & production | Manned office setup                       | PRINCIPAL<br>1. Coring<br>equipment/Geological<br>tools/Lab equipment<br><br>2. Geological software &<br>hardware | PRINCIPAL<br>Minimum 5 years<br>experience in geological<br>feasibility / prospecting /<br>reconnaissance Study |  |                                   |

**Work Category** : **Geological & Geophysical (G&G)**  
**17101000S** **G&G Consultancy Services**  
**Geological Feasibility/Prospecting/Reconnaissance Study**

**Work Category's Description** : The provision of personnel & equipment to conduct study and propose optimal solution to acquire and process geological data. (e.g. surface geochemistry, Time Lapse, etc.)

**Mode of Operation** : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                      |  |   |   |                      |  |                                   |
|-------------------------------|----------------------|--|---|---|----------------------|--|-----------------------------------|
| Key Personnel                 |                      |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification        | Experience   |   |   |                      |  |                                   |
| Geologist / Geophysicist      | Degree in Geoscience | Minimum 5 years in geological feasibility / prospecting / reconnaissance Study | Manned office setup                       | 1. Coring equipment / Geological tools / Lab equipment<br>2. geological software & hardware |                      |  |                                   |

**Work Category :** Geological & Geophysical (G&G)  
 17101100S G&G Consultancy Services  
 Geophysical Feasibility Study

**Work Category's Description :** The provision of personnel and equipment to conduct study and propose optimal solution to acquire and process geophysical data such as but not limited to time-lapse, multi-component, reservoir characterization and illumination

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT            |                          |  |   |   |  |  |                                   |
|--|--------------------------|--|---|---|--|--|-----------------------------------|
| Key Personnel                            |                          |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                              | Qualification            | Experience   |   |   |  |  |                                   |
| AGENT<br>Business Development<br>Manager | Degree in any discipline | Minimum 3 years<br>experience in oil & gas<br>exploration & production | Manned office setup                       | PRINCIPAL<br>Geophysical modeling,<br>interpretation and analysis<br>equipment and software | PRINCIPAL<br>Minimum 3 years<br>experience or have at<br>least 3 projects<br>successfully completed in<br>geophysical feasibility<br>study |  |                                   |

**Work Category :** Geological & Geophysical (G&G)  
 17101100S G&G Consultancy Services  
 Geophysical Feasibility Study

**Work Category's Description :** The provision of personnel & equipment to conduct study and propose optimal solution to acquire and process geophysical data. (e.g. Time-lapse, multi-component, reservoir characterization, illumination, etc.)

**Mode of Operation :** Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                                      |  |   |  |                      |  |                                   |
|-------------------------------|--------------------------------------|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |                                      |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                        | Experience   |   |  |                      |  |                                   |
| Technical Manager             | Degree in any engineering discipline | Minimum 3 years experience in oil & gas exploration & production | Manned office setup                       | Geophysical modeling, interpretation and analysis equipment and software |                      |  |                                   |

**Work Category :** Geological & Geophysical (G&G)  
**17101300S** G&G Consultancy Services  
 Integrated Full Field Review

Work Category's Description : The provision to conduct full field review study

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |  |  |   |   |                      |  |                                   |
|-------------------------------|--|--|---|---|----------------------|--|-----------------------------------|
| Key Personnel                 |  |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools                               | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                                | Experience                                       |   |   |                      |  |                                   |
| Petrophysicist                | Degree in Geology /<br>Petroleum Engineering | Minimum 5 years in<br>formation evaluation       | Manned office setup                       | Workstation and<br>geological & modelling<br>software |                      |  |                                   |
| Geologist (Geomodeller)       | Degree in Geology                            | Minimum 5 years in<br>geological modelling       |   |   |                      |  |                                   |
| Reservoir Engineer            | Degree in Petroleum<br>Engineering           | Minimum 5 years in<br>reservoir engineering      |   |   |                      |  |                                   |
| Geophysicist                  | Degree in Geophysic /<br>Geology             | Minimum 5 years in<br>geophysical interpretation |   |   |                      |  |                                   |

**Work Category :** 17111100S **Geological & Geophysical (G&G)**  
**General Geomatics Survey**  
**MetOcean & Hydrographic Survey**

**Work Category's Description :** The provision of personnel, equipments and services for Meteorological Survey (including analysis, study and advice to provide weather forecast report and studies), Oceanographic Survey (including analysis, study and advice to collect and analyze metocean data) and Hydrographic Survey to map seabed topography

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT                                |                          |   |  |   |  |  |                                   |
|--|--------------------------|---|--|---|--|--|-----------------------------------|
| Key Personnel  |                          |   | Facilities<br>E.g. Warehouse,<br>Dockyard  | Equipment<br>E.g. Tools   | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation  | Qualification            | Experience  |  |   |  |  |                                   |
| <b>AGENT</b><br>Business Development<br>Manager              | Degree in any discipline | Minimum 3 years<br>experience in oil & gas<br>exploration & production  | <b>AGENT</b><br>Manned office setup<br><br><b>PRINCIPAL</b><br>Processing centre | <b>PRINCIPAL</b><br>Data receiver/measuring<br>instruments, processors &<br>interpretation<br>system/software | <b>PRINCIPAL</b><br>Principal to have<br>minimum 5 years<br>experience in<br>Meteorological<br>Survey/Oceanographic<br>Survey/Hydrographical<br>Survey |  |                                   |
| <b>PRINCIPAL</b><br>Meteorologist/Oceanographer/Hydrographer | Degree in Sc/Eng         | Minimum 5 years<br>experience in providing<br>related services e.g.<br>weather forecast and<br>meteorological studies,<br>metocean consultancy<br>work and studies,<br>hydrographic studies |  |   |  |  |                                   |



**Work Category :** **Geological & Geophysical (G&G)**  
**17111100S** **General Geomatics Survey**  
**MetOcean & Hydrographic Survey**

**Work Category's Description :** The provision of personnel, equipments & services for Meteorological Survey (including analysis, study and advice to provide weather forecast report and studies), Oceanographic Survey (including analysis, study and advice to collect and analyze metocean data) and Hydrographic Survey to map seabed topography

**Mode of Operation :** Self-operated

| Key Personnel                            |                  |  | MINIMUM TECHNICAL REQUIREMENT             |  |                      |  |                                   |
|--|------------------|--|---|--|----------------------|--|-----------------------------------|
| Designation                              | Qualification    | Experience   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Meteorologist/Oceanographer/Hydrographer | Degree in Sc/Eng | Minimum 5 years experience in providing related services e.g. weather forecast and meteorological studies, metocean consultancy work and studies, hydrographic studies | Processing centre                         | Data receiver/measuring instruments, processors & interpretation system/software |                      |  |                                   |

**Work Category :** **Geological & Geophysical (G&G)**  
**17121000S** **General Geophysical Data Services**  
**Geography Information System (GIS)**

**Work Category's Description :** Services related to acquisition, processing, managing, analyze and monitoring E&P data and E&P GIS application development

**Mode of Operation :** Self-operated

| MINIMUM TECHNICAL REQUIREMENT           |   |  |   |                                 |                      |  |                                   |
|---|---|--|---|---------------------------------|----------------------|--|-----------------------------------|
| Key Personnel                           |   |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools         | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                             | Qualification   | Experience   |   |                                 |                      |  |                                   |
| Project Manager                         | Degree in Land Surveying/ Geomatics/ Geoinformation/ remote sensing | Minimum 7 years experience in O&G exploration & production | Manned office setup                       | Related GIS Software & Hardware |                      |  |                                   |
| Team Leader                             | Degree in Land Surveying/ Geomatics/ Geoinformation/ remote sensing | Minimum 5 years experience in O&G exploration & production |   |                                 |                      |  |                                   |
| GIS Specialist / Database Administrator | Degree in Land Surveying/ Geomatics/ Geoinformation/ remote sensing | Minimum 3 years experience in O&G exploration & production |   |                                 |                      |  |                                   |
| Programmer                              | Degree in Geoinformation/ Computer Science/ Computer Engineering    | Minimum 3 years experience in O&G exploration & production |   |                                 |                      |  |                                   |

**Work Category** : **Geological & Geophysical (G&G)**  
**17121100S** **General Geophysical Data Services**  
**Geological & Geophysical Data Storage**

**Work Category's Description** : The provision of services for geological & geophysical data storage such as but not limited to core, fluid, cutting sample, seismic, navigation, gravity, magnetic, and electromagnetic

**Mode of Operation** : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                        |                             |   |  |                      |  |                                   |
|-------------------------------|------------------------|-----------------------------|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |                        |                             | Facilities<br>E.g. Warehouse,<br>Dockyard   | Equipment<br>E.g. Tools                                  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification          | Experience                  |   |  |                      |  |                                   |
| Warehouse supervisor          | O-level/SPM equivalent | 5 years relevant experience | Climatic controlled (temperature & humidity) warehouse in Malaysia & large enough for tapes and geological sample (rock & fluid) with security services | Fire & Flood protection system, tape management database |                      |  |                                   |

**Work Category :** Geological & Geophysical (G&G)  
 17121200S General Geophysical Data Services  
 Other Geological & Geophysical Services

**Work Category's Description :** The provision of services for tape copying, digitising, plotting, formatting, scanning, vectorising, & etc.

**Mode of Operation :** Self Operated

| MINIMUM TECHNICAL REQUIREMENT |               |                                |   |   |                      |  |                                   |
|-------------------------------|---------------|--------------------------------|---|---|----------------------|--|-----------------------------------|
| Key Personnel                 |               |                                | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience                     |   |   |                      |  |                                   |
| Supervisor                    | Degree        | 5 years relevant<br>experience | Secured center in<br>Malaysia             | Tape recovery equipment,<br>tape-copying system,<br>plotter, analog-to-digital<br>conversion hardware &<br>software |                      |  |                                   |

**Work Category** : **17130000S** **Geological & Geophysical (G&G)**  
**Geological Analysis While Drilling**

Work Category's Description : The provision of geological analysis while drilling such as but not limited to biostratigraphy, geochemistry and sedimentology

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT            |                          |  |   |   |   |  |                                   |
|--|--------------------------|--|---|---|---|--|-----------------------------------|
| Key Personnel                            |                          |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                              | Qualification            | Experience   |   |   |   |  |                                   |
| AGENT<br>Business Development<br>Manager | Degree in any discipline | Minimum 3 years<br>experience in oil & gas<br>exploration & production | Manned office setup                       | PRINCIPAL<br>1.Geological software &<br>hardware<br>2.Logging analysis<br>equipment | PRINCIPAL<br>Minimum 2 years<br>experience in Geological<br>Analysis While Drilling |  |                                   |

**Work Category** : **17130000S** **Geological & Geophysical (G&G)**  
**Geological Analysis While Drilling**

Work Category's Description : The provision of geological analysis while drilling (e.g. biostratigraphy, geochemistry, sedimentology, etc.)

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                      |                                       |   |  |                      |  |                                   |
|-------------------------------|----------------------|---------------------------------------|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |                      |                                       | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification        | Experience                            |   |  |                      |  |                                   |
| Geoscientist                  | Degree in Geoscience | Minimum 3 years in wellsite operation | Manned office setup                       | 1.Geological software & hardware<br>2.Logging analysis equipment |                      |  |                                   |

**Work Category :** Geological & Geophysical (G&G)  
 17151000S Geology Modeling Services  
 Geochemistry & Basin

Work Category's Description : The provision of geochemical & basin modelling services

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT            |                          |  |   |  |  |  |                                   |
|--|--------------------------|--|---|--|--|--|-----------------------------------|
| Key Personnel                            |                          |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools  | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                              | Qualification            | Experience   |   |  |  |  |                                   |
| AGENT<br>Business Development<br>Manager | Degree in any discipline | Minimum 3 years<br>experience in oil & gas<br>exploration & production | Manned office setup                       | PRINCIPAL<br>Geochem & basin<br>modelling software &<br>hardware | PRINCIPAL<br>Minimum 5 years<br>experience in geochem &<br>basin geology modelling /<br>analyses |  |                                   |

**Work Category** : **Geological & Geophysical (G&G)**  
**17151000S** **Geology Modeling Services**  
**Geochemistry & Basin**

Work Category's Description : The provision of geochemical & basin modelling services

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                                  |   |   |   |                      |  |                                   |
|-------------------------------|----------------------------------|---|---|---|----------------------|--|-----------------------------------|
| Key Personnel                 |                                  |   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools                             | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                    | Experience  |   |   |                      |  |                                   |
| Geochemist                    | Degree in Geology /<br>Chemistry | Minimum 5 years in<br>geochemistry & basin<br>modelling and geochem &<br>basin modelling<br>application | Manned office setup                       | Geochem & basin<br>modelling software &<br>hardware |                      |  |                                   |



**Work Category** : **Geological & Geophysical (G&G)**  
**17151100S** **Geology Modeling Services**  
**Pore Pressure Prediction**

Work Category's Description : The provision of pore pressure prediction modelling

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT            |                          |  |   |   |  |  |                                   |
|--|--------------------------|--|---|---|--|--|-----------------------------------|
| Key Personnel                            |                          |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools                                     | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                              | Qualification            | Experience   |   |   |  |  |                                   |
| AGENT<br>Business Development<br>Manager | Degree in any discipline | Minimum 3 years<br>experience in oil & gas<br>exploration & production | Manned office setup                       | PRINCIPAL<br>Pore pressure modelling<br>software & hardware | PRINCIPAL<br>Minimum 5 years<br>experience in pore<br>pressure modelling /<br>analyses |  |                                   |

**Work Category** : **Geological & Geophysical (G&G)**  
**17151100S** **Geology Modeling Services**  
**Pore Pressure Prediction**

Work Category's Description : The provision of pore pressure prediction modelling

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT                        |  |  |   |  |                      |  |                                   |
|--|--|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel  |  |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools                        | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation  | Qualification  | Experience   |   |  |                      |  |                                   |
| Geologist / Geophysicist<br>Or<br>Petroleum Engineer | Degree in Geoscience<br>Or<br>Degree in Petroleum<br>Engineering | Minimum 5 years in pore<br>pressure analysis<br>modelling and pore<br>pressure analysis<br>modelling application | Manned office setup                       | Pore Pressure modelling<br>software & hardware |                      |  |                                   |

**Work Category** : **Geological & Geophysical (G&G)**  
**17151200S** **Geology Modeling Services**  
**Reservoir**

Work Category's Description : The provision of reservoir modelling services (i.e. static and dynamic)

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT            |                          |  |   |   |   |  |                                   |
|--|--------------------------|--|---|---|---|--|-----------------------------------|
| Key Personnel                            |                          |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools                                 | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                              | Qualification            | Experience   |   |   |   |  |                                   |
| AGENT<br>Business Development<br>Manager | Degree in any discipline | Minimum 3 years<br>experience in oil & gas<br>exploration & production | Manned office setup                       | PRINCIPAL<br>Reservoir modelling<br>software & hardware | PRINCIPAL<br>Minimum 5 years<br>experience in reservoir<br>modelling / analyses |  |                                   |

**Work Category** : **Geological & Geophysical (G&G)**  
**17151200S** **Geology Modeling Services**  
**Reservoir**

Work Category's Description : The provision of reservoir modelling services (i.e. static and dynamic)

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |   |   |   |  |                      |  |                                   |
|-------------------------------|---|---|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |   |   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools                    | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                                   | Experience  |   |  |                      |  |                                   |
| Geomodeller                   | Degree in Geoscience /<br>petroleum engineering | Minimum 5 years in<br>reservoir modelling and<br>reservoir modelling<br>application | Manned office setup                       | Reservoir modelling<br>software & hardware |                      |  |                                   |

**Work Category** : **Geological & Geophysical (G&G)**  
**17151300S** **Geology Modeling Services**  
**Structural Geology**

**Work Category's Description** : The provision of structural geology/geomechanics modelling services such as but not limited to fault seal analysis, regional structural trend and fracture analysis

**Mode of Operation** : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                   |  |   |  |                      |  |                                   |
|-------------------------------|-------------------|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |                   |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools                  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification     | Experience   |   |  |                      |  |                                   |
| Structural Geologist          | Bsc in Geoscience | Minimum 5 years in structural geology / geophysics / geomechanics and structural modelling application | Manned office setup                       | Structural modelling software & hardware |                      |  |                                   |

**Work Category** : **Geological & Geophysical (G&G)**  
**17161000S** **Non-seismic Survey**  
**Electromagnetic Data Processing/Reprocessing**

Work Category's Description : The provision of personnel, equipment & services for electromagnetic data processing/reprocessing and interpretation

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT            |                          |  |   |   |  |  |                                   |
|--|--------------------------|--|---|---|--|--|-----------------------------------|
| Key Personnel                            |                          |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                              | Qualification            | Experience   |   |   |  |  |                                   |
| AGENT<br>Business Development<br>Manager | Degree in any discipline | Minimum 3 years<br>experience in oil & gas<br>exploration & production | Manned office setup                       | PRINCIPAL<br>Electromagnetic<br>processing / reprocessing<br>& interpretation equipment<br>and software | PRINCIPAL<br>Minimum 3 years<br>experience or have at<br>least 3 projects<br>successfully completed in<br>electromagnetic<br>processing / reprocessing |  |                                   |

**Work Category** : **Geological & Geophysical (G&G)**  
**171610005** **Non-seismic Survey**  
**Electromagnetic Data Processing/Reprocessing**

Work Category's Description : The provision of personnel, equipment & services for electromagnetic data processing/reprocessing and interpretation

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                                      |  |   |   |                      |  |                                   |
|-------------------------------|--------------------------------------|--|---|---|----------------------|--|-----------------------------------|
| Key Personnel                 |                                      |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                        | Experience   |   |   |                      |  |                                   |
| Technical Manager             | Degree in any engineering discipline | Minimum 3 years experience in oil & gas exploration & production | Manned office setup                       | Electromagnetic processing / reprocessing & interpretation equipment and software |                      |  |                                   |

**Work Category** : **Geological & Geophysical (G&G)**  
**171611005** **Non-seismic Survey**  
**Electromagnetic Feasibility Study**

Work Category's Description : The provision of personnel & equipment to conduct study and propose an optimal survey design to acquire and process electromagnetic data

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT            |                          |  |   |   |  |  |                                   |
|--|--------------------------|--|---|---|--|--|-----------------------------------|
| Key Personnel                            |                          |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                              | Qualification            | Experience   |   |   |  |  |                                   |
| AGENT<br>Business Development<br>Manager | Degree in any discipline | Minimum 3 years<br>experience in oil & gas<br>exploration & production | Manned office setup                       | PRINCIPAL<br>Electromagnetic modeling<br>& interpretation equipment<br>and software | PRINCIPAL<br>Minimum 3 years<br>experience or have at<br>least 3 projects<br>successfully completed in<br>electromagnetic feasibility<br>study |  |                                   |



**Work Category** : **Geological & Geophysical (G&G)**  
**171611005** **Non-seismic Survey**  
**Electromagnetic Feasibility Study**

Work Category's Description : The provision of personnel & equipment to conduct study and propose an optimal survey design to acquire and process electromagnetic data

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                                      |  |   |  |                      |  |                                   |
|-------------------------------|--------------------------------------|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |                                      |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                        | Experience   |   |  |                      |  |                                   |
| Technical Manager             | Degree in any engineering discipline | Minimum 3 years experience in oil & gas exploration & production | Manned office setup                       | Electromagnetic modeling & interpretation equipment and software |                      |  |                                   |

**Work Category** : **Geological & Geophysical (G&G)**  
**171612005** **Non-seismic Survey**  
**Electromagnetic Survey - Land**

Work Category's Description : Provision of personnel, equipment & services for land electromagnetic data acquisition, processing and interpretation

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT            |                          |  |   |  |  |  |                                   |
|--|--------------------------|--|---|--|--|--|-----------------------------------|
| Key Personnel                            |                          |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools  | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                              | Qualification            | Experience   |   |  |  |  |                                   |
| AGENT<br>Business Development<br>Manager | Degree in any discipline | Minimum 3 years<br>experience in oil & gas<br>exploration & production | Manned office setup                       | PRINCIPAL<br>Land electromagnetic<br>acquisition, processing &<br>interpretation equipment | PRINCIPAL<br>Minimum 5 years<br>experience or have at<br>least 5 projects<br>successfully completed in<br>land electromagnetic<br>survey |  |                                   |

**Work Category** : **Geological & Geophysical (G&G)**  
**171612005** **Non-seismic Survey**  
**Electromagnetic Survey - Land**

Work Category's Description : Provision of personnel, equipment & services for land electromagnetic data acquisition, processing and interpretation

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                                      |  |   |   |                      |  |                                   |
|-------------------------------|--------------------------------------|--|---|---|----------------------|--|-----------------------------------|
| Key Personnel                 |                                      |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                        | Experience   |   |   |                      |  |                                   |
| Technical Manager             | Degree in any engineering discipline | Minimum 3 years experience in oil & gas exploration & production | Manned office setup                       | Land electromagnetic acquisition, processing & interpretation equipment |                      |  |                                   |

**Work Category :** **Geological & Geophysical (G&G)**  
**171613005** **Non-seismic Survey**  
**Electromagnetic Survey - Marine**

Work Category's Description : Provision of personnel, equipment & services for marine electromagnetic data acquisition, processing and interpretation

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT            |                          |  |   |  |  |  |                                   |
|--|--------------------------|--|---|--|--|--|-----------------------------------|
| Key Personnel                            |                          |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools  | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                              | Qualification            | Experience   |   |  |  |  |                                   |
| AGENT<br>Business Development<br>Manager | Degree in any discipline | Minimum 3 years<br>experience in oil & gas<br>exploration & production | Manned office setup                       | PRINCIPAL<br>Marine electromagnetic<br>acquisition, processing &<br>interpretation equipment | PRINCIPAL<br>Minimum 3 years<br>experience or have at<br>least 3 projects<br>successfully completed in<br>marine electromagnetic<br>survey |  |                                   |

**Work Category** : **Geological & Geophysical (G&G)**  
**171613005** **Non-seismic Survey**  
**Electromagnetic Survey - Marine**

Work Category's Description : Provision of personnel, equipment & services for marine electromagnetic data acquisition, processing and interpretation

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                                      |  |   |   |                      |  |                                   |
|-------------------------------|--------------------------------------|--|---|---|----------------------|--|-----------------------------------|
| Key Personnel                 |                                      |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                        | Experience   |   |   |                      |  |                                   |
| Technical Manager             | Degree in any engineering discipline | Minimum 3 years experience in oil & gas exploration & production | Manned office setup                       | Marine electromagnetic acquisition, processing & interpretation equipment |                      |  |                                   |

**Work Category :** **Geological & Geophysical (G&G)**  
**171614005** **Non-seismic Survey**  
**Magnetic & Gravity Data Interpretation**

Work Category's Description : The provision of personnel, equipment & services for magnetic & gravity data processing/reprocessing and interpretation

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT                   |                          |   |   |   |   |  |                                   |
|---|--------------------------|---|---|---|---|--|-----------------------------------|
| Key Personnel                                   |                          |   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                                     | Qualification            | Experience  |   |   |   |  |                                   |
| <u>AGENT</u><br>Business Development<br>Manager | Degree in any discipline | Minimum 3 years<br>experience in oil & gas<br>exploration & production                  | Manned office setup                       | Gravity and magnetic<br>processing &<br>interpretation software | Minimum 3 years<br>experience in gravity and<br>magnetic processing &<br>interpretation |  |                                   |
| <u>PRINCIPAL</u><br>Supervisor                  | Degree in Sc/Eng         | Minimum 5 years<br>experience in gravity and<br>magnetic processing &<br>interpretation | Processing centre                         |   |   |  |                                   |

**Work Category** : **Geological & Geophysical (G&G)**  
**171614005** **Non-seismic Survey**  
**Magnetic & Gravity Data Interpretation**

Work Category's Description : The provision of personnel, equipment & services for magnetic & gravity data processing/reprocessing and interpretation

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                                      |  |  |   |                      |  |                                   |
|-------------------------------|--------------------------------------|--|--|---|----------------------|--|-----------------------------------|
| Key Personnel                 |                                      |  | Facilities<br>E.g. Warehouse,<br>Dockyard      | Equipment<br>E.g. Tools                                   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                        | Experience   |  |   |                      |  |                                   |
| Technical Manager             | Degree in any engineering discipline | Minimum 3 years experience in oil & gas exploration & production               | 1. Manned office setup<br>2. Processing centre | Gravity and magnetic processing & interpretation software |                      |  |                                   |
| Supervisor                    | Degree in Sc/Eng                     | Minimum 5 years experience in gravity and magnetic processing & interpretation |  |   |                      |  |                                   |

**Work Category** : **Geophysical Services**  
**171615005** **Non-seismic Survey**  
**Magnetic & Gravity Survey - Aerial**

Work Category's Description : The provision of personnel, equipment & services for aeromagnetic & gravity data acquisition, processing & interpretation

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT          |   |   |  |  |   |  |                                   |
|--|---|---|--|--|---|--|-----------------------------------|
| Key Personnel                          |   |   | Facilities<br>E.g. Warehouse,<br>Dockyard                                    | Equipment<br>E.g. Tools                    | Company's Experience                                    | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                            | Qualification                                     | Experience  |  |  |   |  |                                   |
| AGENT<br>Logistic Coordinator          | SPM or equivalent                                 | Minimum 3 years in oil & gas exploration & production | Manned office setup<br>Acquisition, processing and interpretation facilities | Gravity and magnetic acquisition equipment | Minimum 5 years experience in gravity & magnetic survey |  |                                   |
| PRINCIPAL<br>Pilot cum/and party chief | Valid commercial pilot licence / Degree in Sc/Eng | Minimum 5 years in gravity & magnetic survey          |  |  |   |  |                                   |



**Work Category** : **171615005** **Geophysical Services**  
**Non-seismic Survey**  
**Magnetic & Gravity Survey - Aerial**

Work Category's Description : The provision of personnel, equipment & services for aeromagnetic & gravity data acquisition, processing & interpretation

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |   |   |  |  |                      |  |                                   |
|-------------------------------|---|---|--|--|----------------------|--|-----------------------------------|
| Key Personnel                 |   |   | Facilities<br>E.g. Warehouse,<br>Dockyard                                    | Equipment<br>E.g. Tools                    | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                                     | Experience  |  |  |                      |  |                                   |
| Logistic Coordinator          | SPM or equivalent                                 | Minimum 3 years in oil & gas exploration & production | Manned office setup<br>Acquisition, processing and interpretation facilities | Gravity and magnetic acquisition equipment |                      |  |                                   |
| Pilot cum/and party chief     | Valid commercial pilot licence / Degree in Sc/Eng | Minimum 5 years in gravity & magnetic survey          |  |  |                      |  |                                   |

**Work Category** : **Geological & Geophysical (G&G)**  
**171616005** **Non-seismic Survey**  
**Magnetic & Gravity Survey - Land**

Work Category's Description : Provision of personnel, equipments & services for land magnetic & gravity data for G&G interpretation

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT  |                  |                                     |   |  |                      |  |                                   |
|--|------------------|-------------------------------------|---|--|----------------------|--|-----------------------------------|
| Key Personnel  |                  |                                     | Facilities<br>E.g. Warehouse,<br>Dockyard               | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                                     | Quality<br>E.g. ISO, API Standard |
| Designation  | Qualification    | Experience                          |   |  |                      |  |                                   |
| <b>AGENT</b><br>Business Development<br>Manager                          | Degree in Sc/Eng | 5 years (in upstream<br>activities) | <b>AGENT</b><br>Office Premise/PC<br>/Office Facilities |  |                      | <b>AGENT</b><br>Exclusive appointment<br>from principal                              |                                   |
| <b>PRINCIPAL</b><br>Sr. Observer/Sr.<br>Navigator/Sr.<br>Engineer/Sr. QC | Degree in Sc/Eng | 5 years (in upstream<br>activities) |   | <b>PRINCIPAL</b><br>Logistic,<br>magnetometer,<br>accelerometer,<br>navigation / positioning<br>& recording system |                      | <b>PRINCIPAL</b><br>International<br>Association<br>Geophysical Contractor<br>(IAGC) |                                   |

**Work Category** : **Geological & Geophysical (G&G)**  
**171616005** **Non-seismic Survey**  
**Magnetic & Gravity Survey - Land**

Work Category's Description : Provision of personnel, equipments & services for land magnetic & gravity data for G & G interpretation

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT                        |                  |                                     |   |  |                      |  |                                   |
|--|------------------|-------------------------------------|---|--|----------------------|--|-----------------------------------|
| Key Personnel  |                  |                                     | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                 | Quality<br>E.g. ISO, API Standard |
| Designation  | Qualification    | Experience                          |   |  |                      |  |                                   |
| Sr. Observer/Sr.<br>Navigator/Sr.<br>Engineer/Sr. QC | Degree in Sc/Eng | 5 years (in upstream<br>activities) |   | Logistic,<br>magnetometer,<br>accelerometer,<br>navigation / positioning<br>& recording system |                      | International<br>Association<br>Geophysical Contractor<br>(IAGC) |                                   |

**Work Category** : **Geological & Geophysical (G&G)**  
**17161700S** **Non-seismic Survey**  
**Survey Vessel**

Work Category's Description : The provision of Survey Vessel including personnel, designed and equipped to carry out survey at sea for the purpose of hydrography, general oceanography, environmental, etc.

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |  |                      |  |                                   |
|-------------------------------|---------------|------------|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |  |                      |  |                                   |
|                               |               |            | Manned Ship<br>Management office setup    | 1. One valid exclusive<br>appointment letter from<br>Principal for one year<br>2. List of vessel |                      | Principal must provide<br>follow documents:<br><br>1. Certificate Registry of<br>Vessel<br>2. Document of<br>Compliance (DOC) for<br>above 500 Gross<br>Tonnage<br>3. Safety Management<br>Certificate (SMC) for<br>above 500 Gross<br>Tonnage |                                   |

**Work Category** : **Geological & Geophysical (G&G)**  
**17161700S** **Non-seismic Survey**  
**Survey Vessel**

**Work Category's Description** : The provision of Survey Vessel including personnel, designed and equipped to carry out survey at sea for the purpose of hydrography, general oceanography, environmental, etc.

**Mode of Operation** : Vessel Operator

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |   |                      |  |                                   |
|-------------------------------|---------------|------------|---|---|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |   |                      |  |                                   |
|                               |               |            | Manned Ship<br>Management office setup    | 1. Letter of appointment<br>from Owner to operator<br>for each vessel to operate<br>2. List of vessel |                      | Vessel Operator must<br>provide follow documents:<br><br>1. Certificate Registry of<br>Vessel<br>2. Document of<br>Compliance (DOC) for<br>above 500 Gross<br>Tonnage<br>3. Safety Management<br>Certificate (SMC) for<br>above 500 Gross<br>Tonnage |                                   |

**Work Category :** **Geological & Geophysical (G&G)**  
**17161700S** **Non-seismic Survey**  
**Survey Vessel**

**Work Category's Description :** The provision of Survey Vessel including personnel, designed and equipped to carry out survey at sea for the purpose of hydrography, general oceanography, environmental, etc.

**Mode of Operation :** Vessel Owner Operator

| MINIMUM TECHNICAL REQUIREMENT              |  |                        |   |                         |                      |   |  |
|--|--|------------------------|---|-------------------------|----------------------|---|--|
| Key Personnel                              |  |                        | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard  |
| Designation                                | Qualification                                  | Experience             |   |                         |                      |   |  |
| Operational Manager /<br>Technical Manager | Master Mariner or Marine<br>Engineer Unlimited | 5 years in Oil and Gas | Manned Ship<br>Management office setup    | 1. List of own vessel   |                      | Owner must provide<br>follow documents:<br>1. Certificate Registry of<br>Vessel from Malaysian<br>Ship Registry<br>2. Document of<br>Compliance (DOC)<br>3. Safety Management<br>Certificate (SMC)<br>4. Vessel shall be<br>registered with<br>classification society<br>which is member of<br>International Association<br>of Classification Societies<br>(IACS) | Compliance to:<br>1. Offshore Vessel<br>Management Self<br>Assessment (OVMSA) -<br>Minimum Level 1, verified<br>by MISC Maritime<br>Services Sdn. Bhd.<br>(MMSSB)<br>2. International Safety<br>Management Code (ISM)<br>incorporating oil and gas<br>industry Health, Safety<br>and Environment<br>Management System<br>(HSE MS) elements |

**Work Category** : **Geological & Geophysical (G&G)**  
**17171000S** **Positioning**  
**Positioning - Offshore**

Work Category's Description : Provision of personnel, equipment & services to determine the position for drilling, engineering and seismic activities (offshore), Vessel Management System (VMS)

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |   |   |   |   |                      |  |                                   |
|-------------------------------|---|---|---|---|----------------------|--|-----------------------------------|
| Key Personnel                 |   |   | Facilities<br>E.g. Warehouse,<br>Dockyard       | Equipment / Machineries<br>E.g. Tools                                 | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                                 | Experience  |   |   |                      |  |                                   |
| Survey Manager                | Degree in Geomatics or equivalents            | Minimum 8 years in oil & gas exploration & production (positioning) | 1.Manned office setup<br>2.Warehouse / Workshop | Navigation / positioning suite, data recording & processing equipment |                      | International Marine Contractors Association (IMCA) / Oil & Gas Producer Association (OGP) |                                   |
| Sr. Surveyor                  | Diploma in Geomatics or equivalents           | Minimum 5 years in oil & gas exploration & production (positioning) |   |   |                      |  |                                   |
| Sr. Engineer                  | Diploma in Electronics / Instrumentation Eng. | Minimum 5 years in oil & gas exploration & production (positioning) |   |   |                      |  |                                   |

**Work Category :** **Geological & Geophysical (G&G)**  
**17171100S Positioning**  
**Positioning - Onshore**

Work Category's Description : Provision of personnel, equipment & services to determine the position for drilling, engineering and seismic activities (onshore)

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |   |   |   |  |                      |  |                                   |
|-------------------------------|---|---|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |   |   | Facilities<br>E.g. Warehouse,<br>Dockyard       | Equipment / Machineries<br>E.g. Tools                                    | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                                 | Experience  |   |  |                      |  |                                   |
| Survey Manager                | Degree in Geomatics or equivalents            | Minimum 8 years in oil & gas exploration & production (positioning) | 1.Manned office setup<br>2.Warehouse / Workshop | Surveying & positioning equipment, data recording & processing equipment |                      |  |                                   |
| Sr. Surveyor                  | Diploma in Geomatics or equivalents           | Minimum 5 years in oil & gas exploration & production (positioning) |   |  |                      |  |                                   |
| Sr. Engineer                  | Diploma in Electronics / Instrumentation Eng. | Minimum 5 years in oil & gas exploration & production (positioning) |   |  |                      |  |                                   |



**Work Category :** 17180000S **Geological & Geophysical (G&G)**  
**Remote Sensing**

**Work Category's Description :** Provision of personnel, equipment & services for acquisition of remote sensing data (satellite, radar images) & services for geological, geophysical & geomatics application

**Mode of Operation :** Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                                    |                                      |   |                                       |                      |  |                                   |
|-------------------------------|------------------------------------|--------------------------------------|---|---------------------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |                                    |                                      | Facilities<br>E.g. Warehouse,<br>Dockyard                     | Equipment / Machineries<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                      | Experience                           |   |                                       |                      |  |                                   |
| Sr. Geoscientist              | Degree in Science /<br>Engineering | Minimum 5 years in<br>remote sensing | Manned office setup<br>complete with processing<br>facilities | Data processing system                |                      |  |                                   |
| Sr. Data Analyst              | Degree in Science /<br>Engineering | Minimum 5 years in<br>remote sensing |   |                                       |                      |  |                                   |

**Work Category :** Geological & Geophysical (G&G)  
 17191000S Sample Analysis, Preservation, Handling & Transportation  
 Fluid Sampling Services

**Work Category's Description :** The provision of routine fluids sample analysis for geochemistry & reservoir fluid studies , PVT, crude, gas & water, and sample handling, storage and transportation of fluid (PVT Fluid Sample) analyzed sample

**Mode of Operation :** Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                                 |  |   |                         |                      |  |                                   |
|-------------------------------|---------------------------------|--|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |                                 |  | Facilities<br>E.g. Warehouse,<br>Dockyard                       | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                   | Experience                               |   |                         |                      |  |                                   |
| Geochemist / Chemist          | Degree in Geology / Chemistry   | Minimum 5 years in fluid sample analysis | 1. Manned office setup<br>2. Operational Laboratory in Malaysia | Laboratory equipment    |                      |  |                                   |
| Petroleum Engineer            | Degree in Petroleum engineering | Minimum 5 years in fluid sample analysis |   |                         |                      |  |                                   |

**Work Category :** Geological & Geophysical (G&G)  
 17191100S Sample Analysis, Preservation, Handling & Transportation  
 Rock Sampling Services

**Work Category's Description :** The provision of routine rock sample analysis for structural geology, geochemistry, biostratigraphy, sedimentology and petrophysical analyses, and sample handling, storage and transportation of rock analysed sample

**Mode of Operation :** Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                               |   |   |                         |                      |  |                                   |
|-------------------------------|-------------------------------|---|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |                               |   | Facilities<br>E.g. Warehouse,<br>Dockyard                       | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                 | Experience                              |   |                         |                      |  |                                   |
| Geochemist                    | Degree in Geology / Chemistry | Minimum 5 years in geochemistry         | 1. Manned office setup<br>2. Operational Laboratory in Malaysia | Laboratory equipment    |                      |  |                                   |
| Biostratigrapher              | Degree in Geology             | Minimum 5 years in biostratigraphy      |   |                         |                      |  |                                   |
| Sedimentologist               | Degree in Geology             | Minimum 5 years in sedimentology        |   |                         |                      |  |                                   |
| Petrophysicist                | Degree in Geology / Physic    | Minimum 5 years in formation evaluation |   |                         |                      |  |                                   |

**Work Category :** Geological & Geophysical (G&G)  
 17191200S Sample Analysis, Preservation, Handling & Transportation  
 Specialized Sample Analysis

Work Category's Description : The provision of specialized sample analysis such as but not limited to fluid inclusion, carbon isotope and GC/MS/MS

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT            |                          |  |   |                                   |  |  |                                   |
|--|--------------------------|--|---|-----------------------------------|--|--|-----------------------------------|
| Key Personnel                            |                          |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools           | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                              | Qualification            | Experience   |   |                                   |  |  |                                   |
| AGENT<br>Business Development<br>Manager | Degree in any discipline | Minimum 3 years<br>experience in oil & gas<br>exploration & production | Manned office setup                       | PRINCIPAL<br>Laboratory equipment | PRINCIPAL<br>Minimum 5 years<br>experience in specialized<br>laboratory analyses |  |                                   |

**Work Category :** Geological & Geophysical (G&G)  
 17191200S Sample Analysis, Preservation, Handling & Transportation  
 Specialized Sample Analysis

**Work Category's Description :** The provision of specialized sample analysis (e.g. fluid inclusion, carbon isotope, GC/MS/MS, etc.)

**Mode of Operation :** Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |                          |  |   |                         |                      |  |                                   |
|-------------------------------|--------------------------|--|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |                          |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification            | Experience   |   |                         |                      |  |                                   |
| Technical Manager             | Degree in any discipline | Minimum 3 years<br>experience in oil & gas<br>exploration & production | Manned office setup                       | Laboratory equipment    |                      |  |                                   |

**Work Category :** Geological & Geophysical (G&G)  
 172010005 Seismic Services  
 G&G Data Interpretation Services

Work Category's Description : The provision of personnel, equipment & services for G&G data interpretation services

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT                   |  |  |   |  |  |  |                                   |
|---|--|--|---|--|--|--|-----------------------------------|
| Key Personnel                                   |  |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools  | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                                     | Qualification  | Experience   |   |  |  |  |                                   |
| <u>AGENT</u><br>Business Development<br>Manager | Degree in any discipline                                     | Minimum 3 years<br>experience in oil & gas<br>exploration & production | <u>AGENT</u><br>Manned office setup       |  |  |  |                                   |
| <u>PRINCIPAL</u><br>Senior G&G Interpreter      | Degree in Geology /<br>Geophysics / Physics or<br>equivalent | Minimum 7 years<br>experience in G&G data<br>interpretation            |   | <u>PRINCIPAL</u><br>G&G data interpretation<br>software and hardware | <u>PRINCIPAL</u><br>Minimum 5 years<br>experience or at least 5<br>projects successfully<br>completed in G&G data<br>interpretation services |  |                                   |

**Work Category** : **Geological & Geophysical (G&G)**  
**172010005** **Seismic Services**  
**G&G Data Interpretation Services**

Work Category's Description : The provision of personnel, equipment & services for G&G data interpretation services

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |  |   |   |  |                      |  |                                   |
|-------------------------------|--|---|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |  |   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools                          | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification  | Experience  |   |  |                      |  |                                   |
| Senior G&G Interpreter        | Degree in Geology /<br>Geophysics / Physics or<br>equivalent | Minimum 7 years<br>experience in G&G data<br>interpretation | Manned office setup                       | G&G data interpretation<br>software and hardware |                      |  |                                   |

**Work Category** : **Geological & Geophysical (G&G)**  
**172011005** **Seismic Services**  
**G&G Interpretation/Mapping Systems**

Work Category's Description : The provision of purchase/lease of equipment & maintenance services for G&G Interpretation/mapping systems

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT    |                                    |   |   |                         |   |  |                                   |
|----------------------------------|------------------------------------|---|---|-------------------------|---|--|-----------------------------------|
| Key Personnel                    |                                    |   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                      | Qualification                      | Experience  |   |                         |   |  |                                   |
| AGENT<br>Software Engineer       | Degree in Science /<br>Engineering | Minimum 5 years in<br>maintenance of<br>Geological & Geophysical<br>Software            | AGENT<br>Manned office setup              |                         |   |  |                                   |
| PRINCIPAL<br>Software Specialist | Degree in Science /<br>Engineering | Minimum 5 years in<br>Geological & Geophysical<br>software development &<br>maintenance | PRINCIPAL<br>Software R&D facilities      |                         | PRINCIPAL<br>Minimum 3 years<br>experience in G&G<br>software development |  |                                   |



**Work Category** : **Geological & Geophysical (G&G)**  
**172011005** **Seismic Services**  
**G&G Interpretation/Mapping Systems**

Work Category's Description : The provision of purchase/lease of equipment & maintenance services for G&G Interpretation/mapping systems

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                                    |   |   |                         |                      |  |                                   |
|-------------------------------|------------------------------------|---|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |                                    |   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                      | Experience  |   |                         |                      |  |                                   |
| Software Specialist           | Degree in Science /<br>Engineering | Minimum 5 years in<br>Geological & Geophysical<br>software development &<br>maintenance | Software R&D facilities                   |                         |                      |  |                                   |

**Work Category :** Geological & Geophysical (G&G)  
 Seismic Services  
 172012005 Land Seismic Data Acquisition

Work Category's Description : Provision of personnel, equipment & services for 2D & 3D land seismic data acquisition

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT            |                          |  |   |  |  |  |                                   |
|--|--------------------------|--|---|--|--|--|-----------------------------------|
| Key Personnel                            |                          |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools                                    | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH                               | Quality<br>E.g. ISO, API Standard |
| Designation                              | Qualification            | Experience   |   |  |  |  |                                   |
| AGENT<br>Business Development<br>Manager | Degree in any discipline | Minimum 3 years<br>experience in oil & gas<br>exploration & production | Manned office setup                       | PRINCIPAL<br>List of land seismic<br>acquisition equipment | PRINCIPAL<br>Minimum 5 years<br>experience or at least 5<br>projects successfully<br>completed in land seismic<br>data acquisition | PRINCIPAL<br>International Association<br>of Geophysical<br>Contractors (IAGC) |                                   |

**Work Category** : **Geological & Geophysical (G&G)**  
**172012005** **Seismic Services**  
**Land Seismic Data Acquisition**

Work Category's Description : Provision of personnel, equipment & services for 2D & 3D land seismic data acquisition

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                  |   |  |  |                      |   |                                   |
|-------------------------------|------------------|---|--|--|----------------------|---|-----------------------------------|
| Key Personnel                 |                  |   | Facilities<br>E.g. Warehouse,<br>Dockyard            | Equipment<br>E.g. Tools                    | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH            | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification    | Experience  |  |  |                      |   |                                   |
| Party Chief                   | Degree in Sc/Eng | Minimum 7 years experience in land seismic data acquisition | 1. Manned office setup<br>2. Warehouse (owned/lease) | List of land seismic acquisition equipment |                      | International Association of Geophysical Contractors (IAGC) |                                   |
| Sr. Observer                  | Degree in Sc/Eng | Minimum 7 years experience in land seismic data acquisition |  |  |                      |   |                                   |
| Sr. Navigator                 | Degree in Sc/Eng | Minimum 7 years experience in land seismic data acquisition |  |  |                      |   |                                   |
| Sr. QC                        | Degree in Sc/Eng | Minimum 7 years experience in land seismic data acquisition |  |  |                      |   |                                   |
| Sr. HSE Personnel             | Degree in Sc/Eng | Minimum 7 years experience in oil & gas industry            |  |  |                      |   |                                   |

**Work Category :** Geological & Geophysical (G&G)  
 Seismic Services  
 172013005 Marine Seismic Data Acquisition - 2D/3D/4D

Work Category's Description : The provision of personnel, equipments & services for 2D/3D/4D marine seismic data acquisition

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT            |                          |  |   |  |  |  |                                   |
|--|--------------------------|--|---|--|--|--|-----------------------------------|
| Key Personnel                            |                          |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools                            | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                              | Qualification            | Experience   |   |  |  |  |                                   |
| AGENT<br>Business Development<br>Manager | Degree in any discipline | Minimum 3 years<br>experience in oil & gas<br>exploration & production | Manned office setup                       | PRINCIPAL<br>List of seismic vessel &<br>equipment | PRINCIPAL<br>Minimum 3 years<br>experience or at least 3<br>projects successfully<br>completed in marine<br>seismic data acquisition | PRINCIPAL<br>Certificate of seismic<br>vessel<br><br>International Association<br>of Geophysical<br>Contractors (IAGC) |                                   |

**Work Category :** Geological & Geophysical (G&G)  
 Seismic Services  
 172013005 Marine Seismic Data Acquisition - 2D/3D/4D

Work Category's Description : The provision of personnel, equipments & services for 2D/3D/4D marine seismic data acquisition

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                  |   |  |                                    |                      |  |                                   |
|-------------------------------|------------------|---|--|------------------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |                  |   | Facilities<br>E.g. Warehouse,<br>Dockyard            | Equipment<br>E.g. Tools            | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification    | Experience  |  |                                    |                      |  |                                   |
| Party Chief                   | Degree in Sc/Eng | Minimum 7 years experience in marine seismic data acquisition | 1. Manned office setup<br>2. Warehouse (owned/lease) | List of seismic vessel & equipment |                      | Certificate of seismic vessel<br><br>International Association of Geophysical Contractors (IAGC) |                                   |
| Sr. Observer                  | Degree in Sc/Eng | Minimum 5 years experience in marine seismic data acquisition |  |                                    |                      |  |                                   |
| Sr. Navigator                 | Degree in Sc/Eng | Minimum 5 years experience in marine seismic data acquisition |  |                                    |                      |  |                                   |
| Sr. Engineer                  | Degree in Sc/Eng | Minimum 5 years experience in marine seismic data acquisition |  |                                    |                      |  |                                   |
| Sr. QC                        | Degree in Sc/Eng | Minimum 5 years experience in marine seismic data acquisition |  |                                    |                      |  |                                   |

**Work Category :** Geological & Geophysical (G&G)  
 Seismic Services  
 172014005 Multicomponent Seismic Acquisition

Work Category's Description : Provision of personnel, equipment & services for multi-component seismic data acquisition (i.e. OBC,OBN & OBS)

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT            |                          |  |   |   |   |   |                                   |
|--|--------------------------|--|---|---|---|---|-----------------------------------|
| Key Personnel                            |                          |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools                                   | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH                                      | Quality<br>E.g. ISO, API Standard |
| Designation                              | Qualification            | Experience   |   |   |   |   |                                   |
| AGENT<br>Business Development<br>Manager | Degree in any discipline | Minimum 3 years<br>experience in oil & gas<br>exploration & production | Manned office setup                       | <u>PRINCIPAL</u><br>List of seismic vessel &<br>equipment | <u>PRINCIPAL</u><br>Minimum 3 years<br>experience or at least 3<br>projects successfully<br>completed in<br>multicomponent seismic<br>acquisition | <u>PRINCIPAL</u><br>International Association<br>of Geophysical<br>Contractors (IAGC) |                                   |

**Work Category :** Geological & Geophysical (G&G)  
**172014005** Seismic Services  
 Multicomponent Seismic Acquisition

Work Category's Description : Provision of personnel, equipment & services for multi-component seismic data acquisition (i.e. OBC, OBN & OBS)

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                  |   |  |                                   |                      |   |                                   |
|-------------------------------|------------------|---|--|-----------------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |                  |   | Facilities<br>E.g. Warehouse,<br>Dockyard            | Equipment<br>E.g. Tools           | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH            | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification    | Experience  |  |                                   |                      |   |                                   |
| Party Chief                   | Degree in Sc/Eng | Minimum 7 years experience in marine seismic data acquisition | 1. Manned office setup<br>2. Warehouse (owned/lease) | List of multi-component equipment |                      | International Association of Geophysical Contractors (IAGC) |                                   |
| Sr. Observer                  | Degree in Sc/Eng | Minimum 5 years experience in marine seismic data acquisition |  |                                   |                      |   |                                   |
| Sr. Navigator                 | Degree in Sc/Eng | Minimum 5 years experience in marine seismic data acquisition |  |                                   |                      |   |                                   |
| Sr. Engineer                  | Degree in Sc/Eng | Minimum 5 years experience in marine seismic data acquisition |  |                                   |                      |   |                                   |
| Sr. QC                        | Degree in Sc/Eng | Minimum 5 years experience in marine seismic data acquisition |  |                                   |                      |   |                                   |

**Work Category :** Geological & Geophysical (G&G)  
 172015005 Seismic Services  
 Seismic Data Processing/Reprocessing

Work Category's Description : The provision of personnel, equipment & services for seismic data processing/reprocessing

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT            |                          |  |   |  |  |  |                                   |
|--|--------------------------|--|---|--|--|--|-----------------------------------|
| Key Personnel                            |                          |  | Facilities<br>E.g. Warehouse,<br>Dockyard   | Equipment<br>E.g. Tools                                  | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH                               | Quality<br>E.g. ISO, API Standard |
| Designation                              | Qualification            | Experience   |   |  |  |  |                                   |
| AGENT<br>Business Development<br>Manager | Degree in any discipline | Minimum 3 years<br>experience in oil & gas<br>exploration & production | AGENT<br>Manned office setup<br><br>PRINCIPAL<br>Processing center in<br>Malaysia | PRINCIPAL<br>List of processing<br>software and hardware | PRINCIPAL<br>Minimum 5 years<br>experience or at least 5<br>projects successfully<br>completed in seismic data<br>processing | PRINCIPAL<br>International Association<br>of Geophysical<br>Contractors (IAGC) |                                   |



**Work Category :** Geological & Geophysical (G&G)  
 172015005 Seismic Services  
 Seismic Data Processing/Reprocessing

Work Category's Description : The provision of personnel, equipment & services for seismic data processing/reprocessing

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                  |  |   |  |                      |   |                                   |
|-------------------------------|------------------|--|---|--|----------------------|---|-----------------------------------|
| Key Personnel                 |                  |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools                  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH            | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification    | Experience   |   |  |                      |   |                                   |
| Center Manager                | Degree in Sc/Eng | Minimum 10 years experience in seismic data processing | Processing center in Malaysia             | List of processing software and hardware |                      | International Association of Geophysical Contractors (IAGC) |                                   |
| Processing supervisor         | Degree in Sc/Eng | Minimum 7 years experience in seismic data processing  |   |  |                      |   |                                   |
| Group leader                  | Degree in Sc/Eng | Minimum 5 years experience in seismic data processing  |   |  |                      |   |                                   |

**Work Category** : **Geological & Geophysical (G&G)**  
**172016005** **Seismic Services**  
**Seismic Modelling Services**

Work Category's Description : The provision of personnel, equipment & services for seismic modelling services such as but not limited to seismic inversion, AVO and rock property inversion

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT                   |  |  |   |   |   |  |                                   |
|---|--|--|---|---|---|--|-----------------------------------|
| Key Personnel                                   |  |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                                     | Qualification  | Experience   |   |   |   |  |                                   |
| AGENT<br>Business Development<br>Manager        | Degree in any discipline                                     | Minimum 3 years<br>experience in oil & gas<br>exploration & production | AGENT<br>Manned office setup              |   |   |  |                                   |
| PRINCIPAL<br>Senior Quantitative<br>Interpreter | Degree in Geology /<br>Geophysics / Physics or<br>equivalent | Minimum 10 years<br>experience in Quantitative<br>Interpretation       |   | PRINCIPAL<br>Quantitative Interpretation<br>software and hardware | PRINCIPAL<br>Minimum 5 years<br>experience or at least 5<br>projects successfully<br>completed in Quantitative<br>Interpretation Services |  |                                   |

|                      |                  |   |
|----------------------|------------------|---|
| <b>Work Category</b> | :                | <b>Geological &amp; Geophysical (G&amp;G)</b> |
|                      |                  | Seismic Services                              |
|                      | <b>172016005</b> | Seismic Modelling Services                    |
|                      | <b>SG2020602</b> | Seismic Modelling System                      |

Work Category's Description : The provision of personnel, equipment & services for seismic modelling services (e.g. seismic inversion, AVO, rock property inversion)

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT   |  |  |   |   |                      |  |                                   |
|---------------------------------|--|--|---|---|----------------------|--|-----------------------------------|
| Key Personnel                   |  |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools                           | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification  | Experience   |   |   |                      |  |                                   |
| Senior Quantitative Interpreter | Degree in Geology / Geophysics / Physics or equivalent | Minimum 10 years experience in Quantitative Interpretation |   | Quantitative Interpretation software and hardware |                      |  |                                   |

**Work Category :** Geological & Geophysical (G&G)  
 Seismic Services  
 172017005 Transition Zone Seismic Data Acquisition

Work Category's Description : Provision of personnel, equipment & services for transition zone (near shore <20m water depth) seismic data acquisition

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT            |                          |  |   |   |   |   |                                   |
|--|--------------------------|--|---|---|---|---|-----------------------------------|
| Key Personnel                            |                          |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH                                      | Quality<br>E.g. ISO, API Standard |
| Designation                              | Qualification            | Experience   |   |   |   |   |                                   |
| AGENT<br>Business Development<br>Manager | Degree in any discipline | Minimum 3 years<br>experience in oil & gas<br>exploration & production | Manned office setup                       | <u>PRINCIPAL</u><br>List of transition zone<br>seismic acquisition<br>equipment | <u>PRINCIPAL</u><br>Minimum 5 years<br>experience or at least 5<br>projects successfully<br>completed in transition<br>zone seismic data<br>acquisition | <u>PRINCIPAL</u><br>International Association<br>of Geophysical<br>Contractors (IAGC) |                                   |

**Work Category :** Geological & Geophysical (G&G)  
 Seismic Services  
 172017005 Transition Zone Seismic Data Acquisition

Work Category's Description : Provision of personnel, equipment & services for transition zone (near shore <20m water depth) seismic data acquisition

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                  |   |  |   |                      |   |                                   |
|-------------------------------|------------------|---|--|---|----------------------|---|-----------------------------------|
| Key Personnel                 |                  |   | Facilities<br>E.g. Warehouse,<br>Dockyard            | Equipment<br>E.g. Tools                               | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH            | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification    | Experience  |  |   |                      |   |                                   |
| Party Chief                   | Degree in Sc/Eng | Minimum 7 years experience in marine seismic data acquisition | 1. Manned office setup<br>2. Warehouse (owned/lease) | List of transition zone seismic acquisition equipment |                      | International Association of Geophysical Contractors (IAGC) |                                   |
| Sr. Observer                  | Degree in Sc/Eng | Minimum 5 years experience in marine seismic data acquisition |  |   |                      |   |                                   |
| Sr. Navigator                 | Degree in Sc/Eng | Minimum 5 years experience in marine seismic data acquisition |  |   |                      |   |                                   |
| Sr. Engineer                  | Degree in Sc/Eng | Minimum 5 years experience in marine seismic data acquisition |  |   |                      |   |                                   |
| Sr. QC                        | Degree in Sc/Eng | Minimum 5 years experience in marine seismic data acquisition |  |   |                      |   |                                   |

**Work Category :** **Geological & Geophysical (G&G)**  
**17211100S** **Site Investigation**  
**Site Investigation - Offshore**

**Work Category's Description :** Provision of personnel, equipment & services for analogue (e.g. bathymetry, side scan sonar, sub-bottom profiler (including AUV for deepwater)), digital survey & drop core for well, platform & pipeline (offshore) site investigation

**Mode of Operation :** Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                                     |  |   |   |                      |  |                                   |
|-------------------------------|-------------------------------------|--|---|---|----------------------|--|-----------------------------------|
| Key Personnel                 |                                     |  | Facilities<br>E.g. Warehouse,<br>Dockyard       | Equipment / Machineries<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                       | Experience   |   |   |                      |  |                                   |
| Party Chief                   | Degree in Geosciences /Sc.          | Minimum 8 years in oil & gas exploration & production geophysical survey | 1.Manned office setup<br>2.Warehouse / Workshop | 1.Survey Vessel (Owned/Long Term Leased)<br>2.Surveying & positioning equipment<br>3.Data recording & processing equipment<br>4.Geophysical equipment |                      |  |                                   |
| Sr. Surveyor                  | Diploma in Geomatics or equivalents | Minimum 5 years in oil & gas exploration & production geophysical survey |   |   |                      |  |                                   |
| Sr. Geophysicist              | Degree in Geosciences /Sc.          | Minimum 8 years in oil & gas exploration & production geophysical survey |   |   |                      |  |                                   |

**Work Category** : **Geological & Geophysical (G&G)**  
**17211200S** **Site Investigation**  
**Site Investigation - Onshore**

Work Category's Description : Provision of personnel, equipment & services for topographical data for Well, Platform & Pipeline onshore geohazard investigation, Underground Utilities Detection

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                                     |  |   |   |                      |  |                                   |
|-------------------------------|-------------------------------------|--|---|---|----------------------|--|-----------------------------------|
| Key Personnel                 |                                     |  | Facilities<br>E.g. Warehouse,<br>Dockyard       | Equipment / Machineries<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                       | Experience   |   |   |                      |  |                                   |
| Party Chief                   | Degree in Geosciences /Sc.          | Minimum 8 years in oil & gas exploration & production geophysical survey | 1.Manned office setup<br>2.Warehouse / Workshop | 1.Surveying & positioning equipment<br>2.Data recording & processing equipment<br>3.Geophysical equipment |                      |  |                                   |
| Sr. Surveyor                  | Diploma in Geomatics or equivalents | Minimum 5 years in oil & gas exploration & production geophysical survey |   |   |                      |  |                                   |
| Sr. Geophysicist              | Degree in Geosciences /Sc.          | Minimum 8 years in oil & gas exploration & production geophysical survey |   |   |                      |  |                                   |

**Work Category :** Health, Safety, Security, & Environment  
 Environmental Sustainability  
 18101000S Climate Change Services

**Work Category's Description :** The provision of climate change services such as but not limited to greenhouse gas emissions, reduction, validation and verification as well as climate change adaptation

**Mode of Operation :** Self-Operated  
 18111000S

| MINIMUM TECHNICAL REQUIREMENT                 |  |   |  |                         |   |  |                                   |
|---|--|---|--|-------------------------|---|--|-----------------------------------|
| Key Personnel                                 |  |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                                   | Qualification                                  | Experience  |  |                         |   |  |                                   |
| Technical Reviewer /<br>Subject Matter Expert | Bachelor's Degree in<br>Science or Engineering | Minimum 8 years<br>experience related to<br>Climate Change services in<br>Oil & Gas/Energy Industry |  |                         | Minimum 5 years<br>experience related to<br>Climate Change services in<br>Oil & Gas/Energy Industry |  |                                   |
| Team Leader / Project<br>Manager              | Bachelor's Degree in<br>Science or Engineering | Minimum 5 years<br>experience related to<br>Climate Change services in<br>Oil & Gas/Energy Industry |  |                         |   |  |                                   |
| Project Team Member /<br>Consultant           | Bachelor's Degree in<br>Science or Engineering | Minimum 3 years<br>experience related to<br>Climate Change services in<br>Oil & Gas/Energy Industry |  |                         |   |  |                                   |



**Work Category** : **18111000S** **Health, Safety, Security, & Environment**  
**HSE Consultancy Services**  
**Environment Consultancy**

**Work Category's Description** : The provision of environment consultancy services such as but not limited to Environmental Impact Assessment, Environmental Risk Assessment, ISO 14001, Environmental Baseline Survey and Environmental Monitoring

**Mode of Operation** : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT  |                                       |   |  |                         |                      |  |                                   |
|--|---------------------------------------|---|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel  |                                       |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation  | Qualification                         | Experience  |  |                         |                      |  |                                   |
| Officer / Environmental Executive / Environmental Engineer or equivalent | Degree in Engineering / Science field | Minimum 3 years experiences in Environmental Services |  |                         |                      |  |                                   |

**Work Category** : **Health, Safety, Security, & Environment**  
**18111100S** **HSE Consultancy Services**  
**Industrial Hygiene Survey & Services**

**Work Category's Description** : The provision of Industrial Hygiene Survey and Consultancy services such as but not limited to Health Risk Assessment, Chemical Health Risk Assessment, Indoor Air Quality, Noise Monitoring Services and Dust Monitoring Services

**Mode of Operation** : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |   |   |  |                         |                      |  |                                   |
|-------------------------------|---|---|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |   |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience  |  |                         |                      |  |                                   |
| Project Manager<br>/Engineer  | Degree in Engineering/<br>Science/Occupational<br>Safety & Health (OSH) | Minimum 3 years<br>experience in managing<br>Industrial Hygiene<br>contracts/projects |  |                         |                      |  |                                   |

**Work Category** : **18101100S** **Health, Safety, Security, & Environment**  
**Environmental Sustainability**  
**Sustainability Services**

**Work Category's Description** : The provision of services related to sustainability report writing in accordance with international standards and other regulatory requirements (Note: Familiar with Global

**Mode of Operation** : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |   |   |  |                         |   |  |   |
|-------------------------------|---|---|--|-------------------------|---|--|---|
| Key Personnel                 |   |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard                                       |
| Designation                   | Qualification                               | Experience  |  |                         |   |  |   |
| Report Writers                | Bachelor's Degree in Science or Engineering | Minimum 6 years experience in Sustainability Reporting Services |  |                         | 1. Minimum 1 Sustainability Report for Oil & Gas industry; and<br>2. Minimum 4 Sustainability Report for other industry |  | Comply to stipulated standards and guidelines i.e. IPIECA, GRI and etc. |

**Work Category :** Health, Safety, Security, & Environment  
 18111600S HSE Consultancy Services  
 Social Assessment Consultancy

**Work Category's Description :** The provision of Social Performance Consultancy services such as but not limited to Social Impact Assessment, Social Risk Assessment, Human Rights Due Diligence, Social Baseline Survey and social audit and assurance, and any social performance related services

**Mode of Operation :** Self-Operated

| MINIMUM TECHNICAL REQUIREMENT  |   |  |  |                         |                                |  |                                   |
|--|---|--|--|-------------------------|--------------------------------|--|-----------------------------------|
| Key Personnel  |   |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience           | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation  | Qualification   | Experience   |  |                         |                                |  |                                   |
| Lead Consultant (Social Impact Assessment/ Social Risk Assessment/ Human Rights Due Diligence) | Degree in Sociology/Anthropology of equivalent in any discipline.     | Minimum of ten (10) years' experience in conducting Social Impact Assessment/Social Risk Assessment/Human Rights Due Diligence |  |                         | Minimum 3 approved SIA reports |  |                                   |
| Consultant (Social Impact Assessment/ Social Risk Assessment/ Human Rights Due Diligence)      | Degree in Sociology/Anthropology/Law of equivalent in any discipline. | Minimum of five (5) years' experience in conducting Social Impact Assessment/Social Risk Assessment/Human Rights Due Diligence |  |                         |                                |  |                                   |
| Social Performance Consultant  | Degree in Sociology/Anthropology/Law of equivalent in any discipline. | Minimum of five (5) years' experience in Social Performance consultancy and assessment   |  |                         |                                |  |                                   |

**Work Category :** Health, Safety, Security, & Environment  
**18141000P** Monitoring & Detection Systems and Maintenance  
**Continuous Emission Monitoring System**

**Work Category's Description :** To design, supply, deliver, install, calibrate and commission continuous emission monitoring system (i.e. DOE Continuous Emission Monitoring System)

**Mode of Operation :** Dealer

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |                         |                      |  |                                   |
|-------------------------------|---|--|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |  |                         |                      |  |                                   |
| Project Manager               | Degree in Engineering<br>Or<br>Diploma in Engineering   | Minimum 5 years<br>experience in project<br>management<br>Or<br>Minimum 7 years<br>experience in project<br>management | Manned and permanent<br>office setup   | Calibration kit         |                      |  |                                   |
| Design Engineer               | Degree in Environmental /<br>Chemical Engineering<br>or<br>Degree in Environmental<br>Science | Minimum 3 years<br>experience in designing<br>CEMS systems   |  |                         |                      |  |                                   |

**Work Category** : **18141500S** **Health, Safety, Security, & Environment  
Monitoring & Detection Systems and Maintenance  
Radiation Survey, Monitoring & Services**

**Work Category's Description** : The provision of Radiation Survey, Monitoring & Services such as but not limited to radioactive material and TENORM including but not limited to monitoring, analysis, mapping, decontamination and waste handling

**Mode of Operation** : Self-operated

| MINIMUM TECHNICAL REQUIREMENT      |  |            |  |                         |                      |  |                                   |
|------------------------------------|--|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                      |  |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                        | Qualification                                    | Experience |  |                         |                      |  |                                   |
| Radiation Protection Officer (RPO) | Possess valid competency certification from AELB |            |  |                         |                      | Approved/valid license (Class A and H) from AELB for Technically Enhanced Naturally Occurring Radioactive Materials (TENORM) | Atomic Energy Licensing Act 1984  |

**Work Category** : **18191000P** **Health, Safety, Security, & Environment**  
**Safety/Firefighting Equipment**  
**Fire and Gas System**

**Work Category's Description** : To design, engineer, assemble, supply, deliver, install, hook up, test, commission and training of Fire and Gas System for process area inclusive of beacons, sounder, fire alarm panel

**Mode of Operation** : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |  |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH                         | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |  |  |                                   |
|                               |               |            |  |                         | Principal to have minimum 10 years experience in O&G Fire and Gas System related works | Fire & Gas System (FGS) shall be SIL2 (Safety Integrity Level) certified |                                   |

**Work Category** : **18191100P** **Health, Safety, Security, & Environment**  
**Safety/Firefighting Equipment**  
**Fire Engines/Tenders**

Work Category's Description : To design, assemble, install, test, supply, deliver, commission fire engines/tenders and conduct training on operation

Mode of Operation : Assembler

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |   |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |   |  |                                   |
|                               |               |            |  |                         | Principal to have minimum 10 years experience in O&G Fire/Heat Detector related works |  |                                   |



**Work Category** : **Health, Safety, Security, & Environment**  
**18191200P** **Safety/Firefighting Equipment**  
**Fire Protection System for Building**

Work Category's Description : To design, engineer, assemble, supply, deliver, install, hook up, test, commission and training of Fire Protection System for Building

Mode of Operation : System Integrator

| MINIMUM TECHNICAL REQUIREMENT   |  |   |  |   |                      |  |                                   |
|---------------------------------|--|---|--|---|----------------------|--|-----------------------------------|
| Key Personnel                   |  |   | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification  | Experience  |  |   |                      |  |                                   |
| Technical Manager               | Degree in any Engineering field  | Minimum 5 years experience in Fire and Gas System   | 1.Office setup<br>2.Assembling facility<br>3.Testing facility<br>4.Staging Area<br>5.Training Facility | 1.Lifting equipment<br>2.Computer Aided Design (CAD) software<br>3.Emulator/ Simulator for logic testing & configuration<br>4.Multi Meter<br>5.Hand tools<br>6.Calibrators<br><br>(owned or rent) |                      | 1.Business License from Local Authority<br>2. Fire Protection System for Building shall be SIL2 (Safety Integrity Level) certified |                                   |
| Project /Field Service Engineer | Degree in any Engineering field and trained & certified from Principal | Minimum 3 years experience in Fire and Gas System & Sub System Integration, configuration and troubleshooting |  |   |                      |  |                                   |
| System Engineer                 | Degree in any Engineering and trained & certified from Principal       | Minimum 5 years experience in Fire and Gas System design  |  |   |                      |  |                                   |
| QA/QC Engineer                  | Degree in any Engineering field  | Minimum 5 years experience doing QA/QC and Factory Acceptance Test (FAT)                                      |  |   |                      |  |                                   |

**Work Category** : **18191300P** **Health, Safety, Security, & Environment**  
**Safety/Firefighting Equipment**  
**HAZMAT Equipment & Vehicles**

Work Category's Description : To design, assemble, install, test, supply, deliver, commission and conduct training on operation for Hazardous Material (HAZMAT) Equipment & Vehicles

Mode of Operation : Assembler

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |   |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |   |  |                                   |
|                               |               |            |  |                         | Principal to have minimum 10 years experience in Fire/Heat Detector related works in oil and gas industry |  |                                   |

**Work Category** : **18201100P** **Health, Safety, Security, & Environment**  
**Security Management**  
**Security Equipment & Surveillance System**

**Work Category's Description** : To design, engineer, assemble, supply, deliver, install, hook up, test, commission and training of Security Equipment and Surveillance System such as but not limited to CCTV, motion detection and perimeter intrusion detection

**Mode of Operation** : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |   |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |   |  |                                   |
|                               |               |            |  |                         | Principal to have minimum 10 years experience in O&G Security Equipment and Surveillance System |  |                                   |

**Work Category :** Health, Safety, Security, & Environment  
 18201200S Security Management  
 Security Equipment & Surveillance System Maintenance

**Work Category's Description :** The provision of labour, materials, consumables, equipment and facilities necessary for design, repair, upgrading, change out/replacement, modification, maintenance, troubleshooting, testing and commissioning of Security Equipment and Surveillance System Maintenance such as but not limited to Access control, CCTV and PAGA

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT   |                                    |  |   |  |   |  |                                   |
|---------------------------------|------------------------------------|--|---|--|---|--|-----------------------------------|
| Key Personnel                   |                                    |  | Facilities<br>E.g. Warehouse, Dockyard            | Equipment<br>E.g. Tools  | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification                      | Experience   |   |  |   |  |                                   |
| Project /Field Service Engineer | Degree in any Engineering field    | Minimum 3 years experience in Security Equipment and Surveillance System configuration and troubleshooting, trained and certified from Principal | 1.Manned and permanent office setup<br>2.Workshop | 1.Hand tools<br>2.Calibrators<br>3.Test Equipment<br>4.Software / Tools for diagnostic | Principal to have minimum 10 years experience in Security Equipment and Surveillance System Maintenance |  |                                   |
| Technician                      | Trained and certified by Principal | Minimum 5 years experience in Security Equipment and Surveillance System servicing   |   |  |   |  |                                   |

**Work Category** : **18201200S** **Health, Safety, Security, & Environment**  
**Security Management**  
**Security Equipment & Surveillance System Maintenance**

Work Category's Description : The provision of labour, materials, consumables, equipment and facilities necessary for design, repair, upgrading, change out/replacement, modification, maintenance, troubleshooting, testing and commissioning of Security Equipment and Surveillance System Maintenance (e.g. Access control, CCTV, PAGA, etc)

Mode of Operation : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT   |   |  |   |  |                      |  |                                   |
|---------------------------------|---|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                   |   |  | Facilities<br>E.g. Warehouse, Dockyard            | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification                             | Experience   |   |  |                      |  |                                   |
| Project /Field Service Engineer | Degree in any Engineering field           | Minimum 3 years experience in Security Equipment and Surveillance System configuration and troubleshooting | 1.Manned and permanent office setup<br>2.Workshop | 1.Hand tools<br>2.Calibrators<br>3.Test Equipment<br>4.Software / Tools for diagnostic |                      |  |                                   |
| Technician                      | Certificate in relevant Engineering field | Minimum 5 years experience in Security Equipment and Surveillance System servicing                         |   |  |                      |  |                                   |

**Work Category** : **18221000S** **Health, Safety, Security, & Environment**  
**Survival Equipment Services**  
**Free Fall**

Work Category's Description : The provision of servicing free fall survival craft

Mode of Operation : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |                                 |  |                          |   |   |                            |                        |
|-------------------------------|---------------------------------|--|--------------------------|---|---|----------------------------|------------------------|
| Key Personnel                 |                                 |  | Facilities               | Equipment   | Company's Experience                            | External Body Registration | Quality                |
| Designation                   | Qualification                   | Experience                                       | E.g. Warehouse, Dockyard | E.g. Tools  |   | E.g. CIDB, DOSH            | E.g. ISO, API Standard |
| Mechanical Engineer           | Degree in Automotive/Marine Eng | 3 yrs exp in marine activities and related field | Warehouse, Test pond     | Lifting equipment, hydro test machine, Nitrogen recharging machine, 6 ft cylinder rack (fit for offshore use), winch test bench | 1 yr exp in marine activities and related field |                            |                        |
| Supervisor/ Technician        | Certificate in related field    | 5 yrs exp in marine activities and related field |                          |   |   |                            |                        |

**Work Category** : **18221400S** **Health, Safety, Security, & Environment**  
**Survival Equipment Services**  
**Single Fall**

Work Category's Description : The provision of servicing single fall survival craft

Mode of Operation : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |                                 |  |                          |   |   |   |                                   |
|-------------------------------|---------------------------------|--|--------------------------|---|---|---|-----------------------------------|
| Key Personnel                 |                                 |  | Facilities               | Equipment   | Company's Experience                            | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                   | Experience                                       | E.g. Warehouse, Dockyard | E.g. Tools  |   |   |                                   |
| Mechanical Engineer           | Degree in Automotive/Marine Eng | 3 yrs exp in marine activities and related field | Warehouse, Test pond     | Lifting equipment, hydro test machine, Nitrogen recharging machine, 6 ft cylinder rack (fit for offshore use), winch test bench | 1 yr exp in marine activities and related field |   |                                   |
| Supervisor/ Technician        | Certificate in related field    | 5 yrs exp in marine activities and related field |                          |   |   |   |                                   |

**Work Category** : **18221500S** **Health, Safety, Security, & Environment**  
**Survival Equipment Services**  
**Twin fall**

Work Category's Description : The provision of servicing twin fall survival craft

Mode of Operation : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |                                 |  |                          |   |   |   |                                   |
|-------------------------------|---------------------------------|--|--------------------------|---|---|---|-----------------------------------|
| Key Personnel                 |                                 |  | Facilities               | Equipment   | Company's Experience                            | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                   | Experience                                       | E.g. Warehouse, Dockyard | E.g. Tools  |   |   |                                   |
| Mechanical Engineer           | Degree in Automotive/Marine Eng | 3 yrs exp in marine activities and related field | Warehouse, Test pond     | Lifting equipment, hydro test machine, Nitrogen recharging machine, 6 ft cylinder rack (fit for offshore use), winch test bench | 1 yr exp in marine activities and related field |   |                                   |
| Supervisor/ Technician        | Certificate in related field    | 5 yrs exp in marine activities and related field |                          |   |   |   |                                   |



**Work Category** : **Health, Safety, Security, & Environment**  
**18231100S** **Waste management**  
**Decontamination Services**

Work Category's Description : The provision of manpower, materials, consumables and equipment for decontamination services such as but not limited to biological, chemical and radioactive contamination

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                                    |   |   |  |                      |  |                                   |
|-------------------------------|------------------------------------|---|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |                                    |   | Facilities<br>E.g. Warehouse, Dockyard                | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                      | Experience  |   |  |                      |  |                                   |
| Subject Matter Expert         | Degree in Engineering/<br>Science  | Minimum 5 years<br>experiences in<br>decontamination services | 1.Manned and permanent<br>office setup<br>2.Warehouse | 1. Relevant<br>decontamination tools and<br>equipment<br>2. Spraying Equipment<br>3. Hydrojet<br>4. Receptacle (Storage<br>Tank) |                      |  |                                   |
| Technician                    | Diploma in Engineering/<br>Science | Minimum 3 years<br>experiences in<br>decontamination services |   |  |                      |  |                                   |

**Work Category :** Health, Safety, Security, & Environment  
 Waste management  
 18231200S Mercury Integrated Services

**Work Category's Description :** The provision of manpower, material, equipment, consumables and disposal for mercury integrated services inclusive of comprehensive HAZMAT (mercury) training, mercury mapping/survey, offline mercury decontamination, mercury waste handling, mercury HAZMAT supervision (monitoring), non-biological mercury analysis and Mercury Removal Unit (MRU) monitoring

**Mode of Operation :** Self Operated

| MINIMUM TECHNICAL REQUIREMENT |  |   |  |  |                      |   |                                   |
|-------------------------------|--|---|--|--|----------------------|---|-----------------------------------|
| Key Personnel                 |  |   | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                    | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification  | Experience  |  |  |                      |   |                                   |
| Project Manager               | Degree in Engineering / Sciences   | Minimum 7 years working experience with minimum 3 years experience in mercury monitoring, mercury mapping and assessment study, MRU profiling study and mercury clean-up and decontamination activities | Manned and permanent office setup<br><br>Analytical laboratory for analysis of organic & inorganic samples (from water, solids, gas and hydrocarbon), industrial hygiene and biological samples. | 1. Laboratory equipment for sample analysis i.e. ICP-MS, Cold Vapor Atomic Fluorescence, Coupled Plasma-Mass Spectrometry, Atomic Absorption Spectrophotometry, Atomic Fluorescence Spectroscopy<br>2. Direct reading equipment i.e. mercury vapor analyzer<br>3. Colorimetric detector tubes<br>4. Self contained breathing apparatus and chemical suits<br>5. Portable decontamination equipment and station i.e. shower, boot wash bath, portable hand sprayer/backpack sprayer<br>6. Mercury vacuum cleaners<br>7. Decontamination equipment and station i.e. shower, boot wash bath, portable hand sprayer/backpack sprayer |                      | Laboratory Accreditation Scheme of Malaysia (SAMM) to ISO/IEC 17025 |                                   |
| Chemist                       | Degree in Chemistry / Chemical Engineering / Industrial Chemistry<br><br>Associate Member with Institut Kimia Malaysia | Minimum 5 years experience working as a chemist   |  |  |                      |   |                                   |
| Field Technician              | Diploma in Engineering/ Science  | Minimum 3 years experience in mercury management services   |  |  |                      |   |                                   |

**Work Category** : **18130000S** **Health, Safety, Security, & Environment**  
**Medical Services**

**Work Category's Description** : The provision of manpower, material, consumables, facility and equipment for management and operation of Medical Services (e.g. blood test, urine test, management & operation of medical clinics, etc.) and Medical Specialized Services (e.g. providing medical advice, treatment and medical assistance at facilities, include medevac for injured person to the hospital, etc.)

**Mode of Operation** : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                              | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            |  |                         |                      | Registration with Ministry of Health (MoH) and Malaysia Medical Council (MMC) |                                   |

**Work Category** : **Health, Safety, Security, & Environment**  
**18151200P** **Protection Equipment**  
**Fire Resistant Doors**

Work Category's Description : To design, supply, deliver and install Fire Resistant Doors

Mode of Operation : Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | Manufacturing License                            |                                   |

**Work Category** : **Health, Safety, Security, & Environment**  
**18181000S** **Safety & Firefighting Services**  
**Fixed Fire Protection Systems**

Work Category's Description : The provision of manpower, materials, consumables, equipment and facilities for maintenance and testing of fixed fire protection systems

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | CIDB - M   |                                   |

**Work Category** : **Health, Safety, Security, & Environment**  
**18181100S** **Safety & Firefighting Services**  
**Mobile Fire Fighting Appliances Servicing**

Work Category's Description : The provision of Mobile Fire Fighting Appliances Servicing such as but not limited to fire trucks, fire extinguisher, fire hose/fire nozzle and foam branch

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | 1. CIDB - M<br>2. 'Sijil LULUS Kursus Keselamatan & Pencegahan Kebakaran' from Jabatan Bomba |                                   |

Work Category : Health, Safety, Security, & Environment  
 18221100S Survival Equipment Services  
 Liferaft

Work Category's Description : The provision of life raft services and maintenance

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                               | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | 1. SOLAS(Safety of life at sea)<br>2. IMO(International Maritime Organization) |                                   |

**Work Category** : **Health, Safety, Security, & Environment**  
**18231000S** **Waste Management**  
**Biological/Clinical Waste Disposal**

**Work Category's Description** : The provision of manpower, equipment, transportation and facilities for biological/clinical waste disposal but not limited to microwave treatment

**Mode of Operation** : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH          | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            |  |                         |                      | DOE – "Lesen Rawatan Buangan Menggunakan Gelombang Mikro" |                                   |



**Work Category** : **Health, Safety, Security, & Environment**  
**18231300S** **Waste Management**  
**Off-Site Scheduled Waste Storage Services**

**Work Category's Description** : The provision of manpower, equipment and facilities for off-site scheduled waste storage services

**Mode of Operation** : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | DOE – "Lesen Penstoran Luar Tapak"               |                                   |

**Work Category** : **Health, Safety, Security, & Environment**  
**18231400S** **Waste Management**  
**Off-Site Scheduled Waste Treatment, Recycle & Recovery**

**Work Category's Description** : The provision of manpower, materials, consumables, equipment and facilities necessary for Off-Site Scheduled Waste Treatment, Recycle & Recovery

**Mode of Operation** : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | DOE – "Lesen Pemerolehan Kembali Luar Tapak"     |                                   |

**Work Category** : **Health, Safety, Security, & Environment**  
**18231600S** **Waste Management**  
**Radioactive Waste Disposal**

Work Category's Description : The provision of manpower, equipment, transportation and facilities for disposal of radioactive waste

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            |  |                         |                      | Approved/valid license (Class A and H) from AELB specifically for Technically Enhanced Naturally Occurring Radioactive Materials (TENORM) |                                   |

**Work Category :** Health, Safety, Security, & Environment  
 18231700S Waste Management  
 Scheduled Waste Disposal

**Work Category's Description :** The provision of manpower, equipment, transportation and facilities for scheduled waste disposal but not limited to physical chemical treatment (PCT), Solidification, landfill or incineration

**Mode of Operation :** Self Operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | DOE – "Lesen Perlupusan Buangan Terjadual"       |                                   |

**Work Category :** Health, Safety, Security, & Environment  
 18231800S Waste Management  
 Scheduled Waste Transportation

**Work Category's Description :** The provision of manpower, equipment and transportation for scheduled waste transportation

**Mode of Operation :** Self Operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | DOE – "Lesen Pengangkutan Buangan Terjadual"     |                                   |

**Work Category :** Health, Safety, Security, & Environment  
 18201000S Security Management  
 Security Services

**Work Category's Description :** The provision of security services not limited to site installation, cash in transit, and surveillance system inspection & maintenance

**Mode of Operation :** Self Operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH        | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            |  |                         |                      | Kementerian Dalam Negeri (KDN) - Private Agency License |                                   |

**Work Category :** Instrumentation & Control Equipment and Services  
 Certification & Consultancy Services  
 20101100S Measurement/Metering of Hydrocarbon Consultancy

**Work Category's Description :** The provision of Measurement/Metering Consultancy work such as development of Measurement Concept, Metering Project execution consultancy, study related to metering matters and hydrocarbon allocation. Audit and assessment on Metering System and Hydrocarbon Allocation System

**Mode of Operation :** Agent

| Key Personnel |   |  | MINIMUM TECHNICAL REQUIREMENT             |  |  |  |                                   |
|---------------|---|--|---|--|--|--|-----------------------------------|
| Designation   | Qualification                                 | Experience                                     | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools                | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Engineer      | Degree or equivalent in any Engineering field | Minimum 5 years experience in Custody Metering | Manned and permanent office setup         | 1.Engineering & Configuration software | Principal to have minimum 10 years experience in O&G Measurement/Metering of Hydrocarbon Consultancy |  |                                   |

**Work Category :** Instrumentation & Control Equipment and Services  
 Certification & Consultancy Services  
 20101100S Measurement/Metering of Hydrocarbon Consultancy

**Work Category's Description :** The provision of Measurement/Metering Consultancy work such as development of Measurement Concept, Metering Project execution consultancy, study related to metering matters and hydrocarbon allocation. Audit and assessment on Metering System and Hydrocarbon Allocation System

**Mode of Operation :** Self Operated

| MINIMUM TECHNICAL REQUIREMENT |  |   |   |                                      |                      |  |                                   |
|-------------------------------|--|---|---|--------------------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |  |   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools              | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification  | Experience                                      |   |                                      |                      |  |                                   |
| Consultant                    | 1. Degree or equivalent in any Engineering field<br>2. Registered Professional Engineers or equivalent | Minimum 10 years experience in Custody Metering | Manned and permanent office setup         | Engineering & Configuration software |                      |  |                                   |

**Work Category** : Instrumentation & Control Equipment and Services  
 20111000P Control Panels  
 Annunciator/Master Shutdown Panel

Work Category's Description : To design, engineer, procure, assemble, supply, deliver, install, hook up, test, commission and training of Annunciator/Master Shutdown Panel

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |   |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |   |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in O&G Annunciator/ Master Shutdown Panel related works |  |                                   |



**Work Category :** Instrumentation & Control Equipment and Services  
**20111000P** Control Panels  
 Annunciator/Master Shutdown Panel

**Work Category's Description :** To design, engineer, procure, assemble, supply, deliver, install, hook up, test, commission and training of Annunciator/Master Shutdown Panel

**Mode of Operation :** System Integrator

| MINIMUM TECHNICAL REQUIREMENT  |   |   |  |  |                      |   |                                   |
|--------------------------------|---|---|--|--|----------------------|---|-----------------------------------|
| Key Personnel                  |   |   | Facilities<br>E.g. Warehouse,<br>Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIBB, DOSH                              | Quality<br>E.g. ISO, API Standard |
| Designation                    | Qualification   | Experience  |  |  |                      |   |                                   |
| Technical Manager              | Degree in any Engineering field   | Minimum 5 years experience in Annunciator/Master Shutdown Panel production  | 1.Office setup<br>2.Assembling facility<br>3.Testing facility<br>4.Staging Area<br>5.Training Facility | 1.Lifting equipment<br>2.Computer Aided Design (CAD) software<br>3.Pneumatic Simulator for logic testing & configuration<br>4.Multi Meter<br>5.Hand tools<br>6.Calibrators |                      | 1.Business License from Local Authority<br>2.DOSH – "Surat Kebenaran Operasi" |                                   |
| Project/Field Service Engineer | Degree in any Engineering field and trained & certified from Principal                                  | Minimum 3 years experience in Annunciator/Master Shutdown Panel & Sub System Integration, configuration and troubleshooting |  |  |                      |   |                                   |
| System Engineer                | Degree in any Engineering and trained & certified from Principal and trained & certified from Principal | Minimum 5 years experience in Annunciator/Master Shutdown Panel design  |  |  |                      |   |                                   |
| QA/QC Engineer                 | Degree in any Engineering field   | Minimum 5 years experience doing QA/QC and Factory Acceptance Test (FAT)  |  |  |                      |   |                                   |

**Work Category :** Instrumentation & Control Equipment and Services  
**20111000P** Control Panels  
 Annunciator/Master Shutdown Panel

**Work Category's Description :** To design, engineer, procure, assemble, supply, deliver, install, hook up, test, commission and training of Annunciator/Master Shutdown Panel

**Mode of Operation :** Manufacturer

| MINIMUM TECHNICAL REQUIREMENT   |   |   |  |  |                      |   |                                   |
|---------------------------------|---|---|--|--|----------------------|---|-----------------------------------|
| Key Personnel                   |   |   | Facilities<br>E.g. Warehouse,<br>Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                              | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification   | Experience  |  |  |                      |   |                                   |
| Production Manager              | Degree in any Engineering field<br>Degree in any Engineering field and trained & certified from Principal | Minimum 5 years experience in Annunciator/Master Shutdown Panel production<br>Minimum 3 years experience in Annunciator/ Master Shutdown Panel selection and servicing , trained and certified from Principal | 1.Office setup<br>2.Manufacturing facility<br>3. Testing facility<br>4.Training Facility | 1.Heavy lifting equipment<br>2.Computerized Numerical Control Machineries<br>3.Milling Machines<br>4. Test Equipment<br>5.Programmable Logic & Hydraulic Test Equipments<br>6.Computer Aided Design (CAD) software |                      | 1.Business License from Local Authority<br>2.DOSH – "Surat Kebenaran Operasi" |                                   |
| Project /Field Service Engineer | Degree in any Engineering field and trained & certified from Principal                                    | Minimum 3 years experience in Annunciator/Master Shutdown Panel selection and servicing , trained and certified from Principal  |  |  |                      |   |                                   |
| Design Engineer                 | Degree in any Engineering and trained & certified from Principal  | Minimum 5 years experience in Annunciator/Master Shutdown Panel design  |  |  |                      |   |                                   |
| QA/QC Engineer                  | Degree in any Engineering field   | Minimum 5 years experience doing QA/QC and Factory Acceptance Test (FAT)  |  |  |                      |   |                                   |
| R & D Engineer                  | Degree in any Engineering and trained & certified from Principal  | Minimum 5 years experience in Annunciator/Master Shutdown Panel design  |  |  |                      |   |                                   |

**Work Category** : Instrumentation & Control Equipment and Services  
 20111100P Control Panels  
 Instrument Control Panel

Work Category's Description : To design, engineer, procure, assemble, supply, deliver, install, hook up, test, commission and training of Instrument Control Panel

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |   |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |   |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in O&G Instrument Control Panel related works |  |                                   |

**Work Category :** Instrumentation & Control Equipment and Services  
**20111100P** Control Panels  
Instrument Control Panel

**Work Category's Description :** To design, engineer, procure, assemble, supply, deliver, install, hook up, test, commission and training of Instrument Control Panel

**Mode of Operation :** System Integrator

| MINIMUM TECHNICAL REQUIREMENT  |  |  |  |   |                      |   |                                   |
|--------------------------------|--|--|--|---|----------------------|---|-----------------------------------|
| Key Personnel                  |  |  | Facilities<br>E.g. Warehouse,<br>Dockyard  | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                              | Quality<br>E.g. ISO, API Standard |
| Designation                    | Qualification  | Experience   |  |   |                      |   |                                   |
| Technical Manager              | Degree in any Engineering field  | Minimum 5 years experience in Instrument Control Panel production  | 1.Office setup<br>2.Assembling facility<br>3.Testing facility<br>4.Staging Area<br>5.Training Facility | 1.Lifting equipment<br>2.Computer Aided Design (CAD) software<br>3.Emulator/ Simulator for logic testing & configuration<br>4.Multi Meter<br>5.Hand tools |                      | 1.Business License from Local Authority<br>2.DOSH – "Surat Kebenaran Operasi" |                                   |
| Project/Field Service Engineer | Degree in any Engineering field and trained & certified from Principal | Minimum 3 years experience in Instrument Control Panel & Sub System Integration, configuration and troubleshooting |  |   |                      |   |                                   |
| System Engineer                | Degree in any Engineering and trained & certified from Principal       | Minimum 5 years experience in Instrument Control Panel design  |  |   |                      |   |                                   |
| QA/QC Engineer                 | Degree in any Engineering field  | Minimum 5 years experience doing QA/QC and Factory Acceptance Test (FAT)   |  |   |                      |   |                                   |

**Work Category :** Instrumentation & Control Equipment and Services  
**20111100P** Control Panels  
Instrument Control Panel

**Work Category's Description :** To design, engineer, procure, assemble, supply, deliver, install, hook up, test, commission and training of Instrument Control Panel

**Mode of Operation :** Manufacturer

| MINIMUM TECHNICAL REQUIREMENT   |  |   |   |  |                      |   |                                   |
|---------------------------------|--|---|---|--|----------------------|---|-----------------------------------|
| Key Personnel                   |  |   | Facilities<br>E.g. Warehouse,<br>Dockyard   | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                              | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification  | Experience  |   |  |                      |   |                                   |
| Production Manager              | Degree in any Engineering field  | Minimum 5 years experience in Instrument Control Panel production   | 1.Office setup<br>2.Manufacturing facility<br>3.Testing facility<br>4.Training Facility | 1.Heavy lifting equipment<br>2.Computerized Numerical Control Machineries<br>3.Milling Machines<br>4. Test Equipment<br>5.Programmable Logic & Hydraulic Test Equipments<br>6.Computer Aided Design (CAD) software |                      | 1.Business License from Local Authority<br>2.DOSH – "Surat Kebenaran Operasi" |                                   |
| Project /Field Service Engineer | Degree in any Engineering field and trained & certified from Principal | Minimum 3 years experience in Instrument Control Panel selection and servicing , trained and certified from Principal |   |  |                      |   |                                   |
| Design Engineer                 | Degree in any Engineering and trained & certified from Principal       | Minimum 5 years experience in Instrument Control Panel design   |   |  |                      |   |                                   |
| QA/QC Engineer                  | Degree in any Engineering field  | Minimum 5 years experience doing QA/QC and Factory Acceptance Test (FAT)  |   |  |                      |   |                                   |
| R & D Engineer                  | Degree in any Engineering and trained & certified from Principal       | Minimum 5 years experience in Instrument Control Panel design   |   |  |                      |   |                                   |

**Work Category** : **Instrumentation & Control Equipment and Services**  
**20121000P** **Controllers**  
**Electronic Type**

**Work Category's Description** : To design, engineer, procure, assemble, supply, deliver, install, hook up, test, commission and provide training of Electronic Type controllers such as but not limited to Single Loop Controller, Anti Surge Controller, Governor Controller and Turbine Controller

**Mode of Operation** : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |  |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |  |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in O&G Instrumentation & Control related works |  |                                   |

**Work Category** : **Instrumentation & Control Equipment and Services**  
**20121100P** **Controllers**  
**Pneumatic Type Controllers**

Work Category's Description : To design, engineer, procure, assemble, supply, deliver, install, hook up, test, commission and provide training of Pneumatic Controllers

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |  |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |  |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in O&G Pneumatic Controllers related works |  |                                   |

**Work Category** : **Instrumentation & Control Equipment and Services**  
**20121200P** **Controllers**  
**Programmable Controllers**

Work Category's Description : To design, engineer, procure, assemble, supply, deliver, install, hook up, test, commission and training of General PLC (non safety type)

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |  |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |  |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in O&G PLC related works |  |                                   |



**Work Category** : Instrumentation & Control Equipment and Services  
 20141000P Custody Metering  
 Gas Metering - Custody Transfer/Fiscal Allocation System

Work Category's Description : To design, engineer, procure, assemble, supply, deliver, install, hook up, test, commission and training of Gas Metering - Custody Transfer/Fiscal Allocation System

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |  |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |  |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in O&G Gas Metering - Custody Transfer/ Fiscal Allocation System related works |  |                                   |

**Work Category** : Instrumentation & Control Equipment and Services  
 20141300P Custody Metering  
 Tank Gauge

Work Category's Description : To design, engineer, procure, assemble, supply, deliver, install, hook up, test, commission and training of Tank Gauge

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |   |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |   |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in O&G Tank Gauge related works |  |                                   |

**Work Category** : **Instrumentation & Control Equipment and Services**  
**20141400S** **Custody Metering**  
**Test & Calibration - Custody Metering**

Work Category's Description : The provision of custody metering test & calibration related works

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |   |   |   |   |  |   |                                   |
|-------------------------------|---|---|---|---|--|---|-----------------------------------|
| Key Personnel                 |   |   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH            | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience  |   |   |  |   |                                   |
| Engineer                      | Degree in relevant<br>Engineering discipline/field                                    | Minimum 5 years of<br>experience in O&G<br>custody metering test &<br>calibration related works |   | All relevant equipment<br>required to perform<br>calibration of specific<br>measurement parameters<br>such as Temperature,<br>Humidity, Density,<br>Electrical Parameters,<br>Pressure and Flow | Minimum 5 years<br>experience in O&G<br>Custody Metering test &<br>calibration related works | SIRIM - Calibration &<br>Registration Endorsement<br>System |                                   |
| Technician                    | Diploma or certificates in<br>instrument / electronics /<br>mechatronics / automation | Minimum 5 years of<br>experience in O&G<br>custody metering test &<br>calibration related works |   |   |  |   |                                   |

**Work Category** : Instrumentation & Control Equipment and Services  
 20141500P Custody Metering  
 Weighing Machine Equipment

Work Category's Description : To design, engineer, procure, assemble, supply, deliver, install, hook up, test, commission and training of Weighing Machine Equipment

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |  |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |  |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in industrial Weighing Machine Equipment related works |  |                                   |

**Work Category :** Instrumentation & Control Equipment and Services  
**20141600P Custody Metering Wet Gas Metering**

**Work Category's Description :** To design, engineer, procure, assemble, supply, deliver, install, hook up, test, commission and training of Wet Gas Metering

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT |   |   |   |   |  |  |                                   |
|-------------------------------|---|---|---|---|--|--|-----------------------------------|
| Key Personnel                 |   |   | Facilities<br>E.g. Warehouse,<br>Dockyard   | Equipment<br>E.g. Tools   | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience  |   |   |  |  |                                   |
| Engineer                      | Degree in relevant Engineering discipline/field                                 | Minimum 5 years of experience in O&G Wet Gas Metering related works | <b>Principal</b><br>Fabrication and testing facilities<br><br><b>Agent</b><br>After sale service and staging facility setup in Malaysia | All relevant equipment required to perform assembling, testing, calibration (flow meter can be by 3rd party), troubleshooting and maintenance | Principal to have minimum of 10 years experience in O&G Wet Gas Metering related works and engineering capabilities for wet gas metering design. |  |                                   |
| Technician                    | Diploma or certificates in instrument / electronics / mechatronics / automation | Minimum 5 years of experience in O&G Wet Gas Metering related works |   |   |  |  |                                   |

**Work Category :** Instrumentation & Control Equipment and Services  
**20141600P** Custody Metering  
 Wet Gas Metering

**Work Category's Description :** To design, engineer, procure, assemble, supply, deliver, install, hook up, test, commission and training of Wet Gas Metering

**Mode of Operation :** Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |   |   |   |  |  |                                   |
|-------------------------------|---|---|---|---|--|--|-----------------------------------|
| Key Personnel                 |   |   | Facilities<br>E.g. Warehouse,<br>Dockyard   | Equipment<br>E.g. Tools   | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience  |   |   |  |  |                                   |
| Engineer                      | Degree in relevant Engineering discipline/field                                 | Minimum 5 years of experience in O&G Wet Gas Metering related works | 1. Fabrication and testing facilities<br>2. After sale service and staging facility setup in Malaysia | All relevant equipment required to perform assembling, testing, calibration (flow meter can be by 3rd party), troubleshooting and maintenance | Minimum 5 years experience in O&G Wet Gas Metering related works and engineering capabilities for wet gas metering design. |  |                                   |
| Technician                    | Diploma or certificates in instrument / electronics / mechatronics / automation | Minimum 5 years of experience in O&G Wet Gas Metering related works |   |   |  |  |                                   |

**Work Category** : **20150000P Instrumentation & Control Equipment and Services  
Emergency Shutdown (ESD) System**

**Work Category's Description** : To design, engineer, assemble, supply, deliver, install, hook up, test, commission and training of Emergency Shutdown System (ESD) such as but not limited to Safety Programmable Logic Controller (TUV Rhineland certified and tested to IEC 61508), Electro Mechanical Relay Shutdown System, Pneumatic Shutdown System and Solid State Shutdown System

**Mode of Operation** : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |   |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |   |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in Emergency Shutdown System (ESD) related works in oil and gas industry (e.g. Safety PLC, Electro Mechanical Relay, Pneumatic, Solid State). |  |                                   |

**Work Category :** Instrumentation & Control Equipment and Services  
 Field Instrumentation Maintenance  
 Analyser/QMI Process Instruments  
 20161011S Continuous Emission Monitoring System (CEMS) & Sampling System

**Work Category's Description :** The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, upgrading, change out/replacement, troubleshooting, testing and commissioning of Continuous Emission Monitoring System (CEMS) and sampling system

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT   |                                    |   |   |   |   |  |                                   |
|---------------------------------|------------------------------------|---|---|---|---|--|-----------------------------------|
| Key Personnel                   |                                    |   | Facilities<br>E.g. Warehouse,<br>Dockyard         | Equipment<br>E.g. Tools   | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification                      | Experience  |   |   |   |  |                                   |
| Project /Field Service Engineer | Degree in any Engineering field    | Minimum 3 years experience in Continuous Emission Monit Oring System (CEMS) and sampling system configuration and troubleshooting, trained and certified from Principal | 1.Manned and permanent office setup<br>2.Workshop | 1.Hand tools<br>2.Calibrators<br>3. Test Equipment<br>4.Software / Tools for diagnostic | Principal to have minimum 10 years experience in O&G for Continuous Emission Monitoring System (CEMS) and sampling system related works |  |                                   |
| Technician                      | Trained and certified by Principal | Minimum 5 years experience in Continuous Emission Monit Oring System (CEMS) and sampling system servicing   |   |   |   |  |                                   |



**Work Category :** Instrumentation & Control Equipment and Services  
 Field Instrumentation Maintenance  
 Analyser/QMI Process Instruments  
 20161011S Continuous Emission Monitoring System (CEMS) & Sampling System

**Work Category's Description :** The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, upgrading, change out/replacement, troubleshooting, testing and commissioning of Continuous Emission Monitoring System (CEMS) and sampling system

**Mode of Operation :** Self-Operated

| MINIMUM TECHNICAL REQUIREMENT   |   |  |   |  |                      |  |                                   |
|---------------------------------|---|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                   |   |  | Facilities<br>E.g. Warehouse,<br>Dockyard         | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification                             | Experience   |   |  |                      |  |                                   |
| Project /Field Service Engineer | Degree in any Engineering field           | Minimum 3 years experience in Continuous Emission Monitoring System (CEMS) and sampling system configuration and troubleshooting | 1.Manned and permanent office setup<br>2.Workshop | 1.Hand tools<br>2.Calibrators<br>3.Test Equipment<br>4.Software / Tools for diagnostic |                      |  |                                   |
| Technician                      | Certificate in relevant Engineering field | Minimum 5 years experience in Continuous Emission Monitoring System (CEMS) and sampling system servicing                         |   |  |                      |  |                                   |

**Work Category :** Instrumentation & Control Equipment and Services  
 Field Instrumentation Maintenance  
 20161012S Analyser/QMI Process Instruments and Sampling System  
 Gas Chromatograph & Sampling System

**Work Category's Description :** The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, upgrading, change out/replacement, troubleshooting, testing and commissioning of Gas Chromatograph and Sampling System

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT   |                                    |   |   |  |  |  |                                   |
|---------------------------------|------------------------------------|---|---|--|--|--|-----------------------------------|
| Key Personnel                   |                                    |   | Facilities<br>E.g. Warehouse,<br>Dockyard         | Equipment<br>E.g. Tools  | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification                      | Experience  |   |  |  |  |                                   |
| Project /Field Service Engineer | Degree in any Engineering field    | Minimum 3 years experience in Gas Chromatograph and Sampling System configuration and troubleshooting, trained and certified from Principal | 1.Manned and permanent office setup<br>2.Workshop | 1.Hand tools<br>2.Calibrators<br>3.Test Equipment<br>4.Software / Tools for diagnostic | Principal to have minimum 10 years experience in O&G for Gas Chromatograph and Sampling System related works |  |                                   |
| Technician                      | Trained and certified by Principal | Minimum 5 years experience in Gas Chromatograph and Sampling System servicing   |   |  |  |  |                                   |

**Work Category :** Instrumentation & Control Equipment and Services  
 Field Instrumentation Maintenance  
 Analyser/QM/ Process Instruments and Sampling System  
 20161012S Gas Chromatograph & Sampling System

**Work Category's Description :** The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, upgrading, change out/replacement, troubleshooting, testing and commissioning of Gas Chromatograph and Sampling System

**Mode of Operation :** Self-Operated

| MINIMUM TECHNICAL REQUIREMENT   |   |   |   |  |                      |  |                                   |
|---------------------------------|---|---|---|--|----------------------|--|-----------------------------------|
| Key Personnel                   |   |   | Facilities<br>E.g. Warehouse,<br>Dockyard         | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification                             | Experience  |   |  |                      |  |                                   |
| Project /Field Service Engineer | Degree in any Engineering field           | Minimum 3 years experience in Gas Chromatograph and Sampling System configuration and troubleshooting | 1.Manned and permanent office setup<br>2.Workshop | 1.Hand tools<br>2.Calibrators<br>3.Test Equipment<br>4.Software / Tools for diagnostic |                      |  |                                   |
| Technician                      | Certificate in relevant Engineering field | Minimum 5 years experience in Gas Chromatograph and Sampling System servicing                         |   |  |                      |  |                                   |

**Work Category :** Instrumentation & Control Equipment and Services  
 Field Instrumentation Maintenance  
 Analyser/QMI Process Instruments and Sampling System  
 20161013S General Analyser/QMI Process Instruments, Analyzer House & Sampling System

**Work Category's Description :** The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, upgrading, change out/replacement, troubleshooting, testing and commissioning of General Analyser/QMI Process Instruments Including liquid & gas analyser application such as mercury, H2S, CO2, portable analyzer and Analyzer Shelter/House

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT   |                                    |  |   |   |   |  |                                   |
|---------------------------------|------------------------------------|--|---|---|---|--|-----------------------------------|
| Key Personnel                   |                                    |  | Facilities<br>E.g. Warehouse,<br>Dockyard         | Equipment<br>E.g. Tools   | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification                      | Experience   |   |   |   |  |                                   |
| Project /Field Service Engineer | Degree in any Engineering field    | Minimum 3 years experience in Analyser/QMI Process Instruments, Analyzer House and Sampling System configuration and troubleshooting, trained and certified from Principal | 1.Manned and permanent office setup<br>2.Workshop | 1.Hand tools<br>2.Callibrators<br>3.Test Equipment<br>4.Software / Tools for diagnostic | Principal to have minimum 10 years experience in O&G for General Analyser/QMI Process Instruments, Analyzer House and Sampling System related works |  |                                   |
| Technician                      | Trained and certified by Principal | Minimum 5 years experience in Analyser/QMI Process Instruments, Analyzer House and Sampling System servicing   |   |   |   |  |                                   |

**Work Category :** Instrumentation & Control Equipment and Services  
 Field Instrumentation Maintenance  
 Analyser/QMI Process Instruments and Sampling System  
 20161013S General Analyser/QMI Process Instruments, Analyzer House & Sampling System

**Work Category's Description :** The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, upgrading, change out/replacement, troubleshooting, testing and commissioning of General Analyser/QMI Process Instruments including liquid & gas analyser application such as mercury, H2S, CO2, portable analyzer and Analyzer Shelter/House

**Mode of Operation :** Self-Operated

| MINIMUM TECHNICAL REQUIREMENT   |   |  |   |  |                      |  |                                   |
|---------------------------------|---|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                   |   |  | Facilities<br>E.g. Warehouse,<br>Dockyard         | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification                             | Experience   |   |  |                      |  |                                   |
| Project /Field Service Engineer | Degree in any Engineering field           | Minimum 3 years experience in Analyser/QMI Process Instruments. Analyzer House and Sampling System configuration and troubleshooting | 1.Manned and permanent office setup<br>2.Workshop | 1.Hand tools<br>2.Calibrators<br>3.Test Equipment<br>4.Software / Tools for diagnostic |                      |  |                                   |
| Technician                      | Certificate in relevant Engineering field | Minimum 5 years experience in Analyser/QMI Process Instruments. Analyzer House and Sampling System servicing                         |   |  |                      |  |                                   |

**Work Category :** Instrumentation & Control Equipment and Services  
 Field Instrumentation Maintenance  
 Analyser/QMI Process Instruments and Sampling System  
 Specialized Analyzer  
**20161014S**

**Work Category's Description :** The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, upgrading, change out/replacement, troubleshooting, testing and commissioning of Specialized Analyzer such as but not limited to Mass Spectrometer, Tunable Laser Diode (TLD) and Near Infrared (NIR)

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT   |                                    |  |   |  |   |  |                                   |
|---------------------------------|------------------------------------|--|---|--|---|--|-----------------------------------|
| Key Personnel                   |                                    |  | Facilities<br>E.g. Warehouse,<br>Dockyard         | Equipment<br>E.g. Tools  | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification                      | Experience   |   |  |   |  |                                   |
| Project /Field Service Engineer | Degree in any Engineering field    | Minimum 3 years experience in Specialized Analyzer configuration and troubleshooting, trained and certified from Principal | 1.Manned and permanent office setup<br>2.Workshop | 1.Hand tools<br>2.Calibrators<br>3.Test Equipment<br>4.Software / Tools for diagnostic | Principal to have minimum 10 years experience in O&G for Specialized Analyzer related works |  |                                   |
| Technician                      | Trained and certified by Principal | Minimum 5 years experience in Specialized Analyzer servicing   |   |  |   |  |                                   |

**Work Category :** Instrumentation & Control Equipment and Services  
 Field Instrumentation Maintenance  
 Analyser/QM/ Process Instruments and Sampling System  
 Specialized Analyser  
**20161014S**

**Work Category's Description :** The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, upgrading, change out/replacement, troubleshooting, testing and commissioning of Specialized Analyser e.g. Mass Spectrometer, Tunable Laser Diode (TLD), Near Infrared (NIR) and etc.

**Mode of Operation :** Self-Operated

| MINIMUM TECHNICAL REQUIREMENT   |   |  |   |  |                      |  |                                   |
|---------------------------------|---|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                   |   |  | Facilities<br>E.g. Warehouse,<br>Dockyard         | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification                             | Experience   |   |  |                      |  |                                   |
| Project /Field Service Engineer | Degree in any Engineering field           | Minimum 3 years experience in Specialized Analyser configuration and troubleshooting | 1.Manned and permanent office setup<br>2.Workshop | 1.Hand tools<br>2.Calibrators<br>3.Test Equipment<br>4.Software / Tools for diagnostic |                      |  |                                   |
| Technician                      | Certificate in relevant Engineering field | Minimum 5 years experience in Specialized Analyser servicing                         |   |  |                      |  |                                   |

**Work Category** : **Instrumentation & Control Equipment and Services**  
**20161600S** **Field Instrumentation Maintenance**  
**Radioactive Based Instrument Maintenance**

Work Category's Description : The provision of labour, consumables, equipment and facilities necessary for testing, calibration, repair, replacement, transportation and removal of Radioactive Based Instrument

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |                      |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIBD, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |                      |  |                                   |
|                               |               |            |   |                         |                      | AELB Class D, E & F Or<br>AELB Class A           |                                   |



**Work Category** : **Instrumentation & Control Equipment and Services**  
**20161600S** **Field Instrumentation Maintenance**  
**Radioactive Based Instrument Maintenance**

Work Category's Description : The provision of labour, consumables, equipment and facilities necessary for testing, calibration, repair, replacement, transportation and removal of Radioactive Based Instrument

Mode of Operation : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |                      |  |  |
|-------------------------------|---------------|------------|---|-------------------------|----------------------|--|--|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIBB, DOSH               | Quality<br>E.g. ISO, API Standard        |
| Designation                   | Qualification | Experience |   |                         |                      |  |  |
|                               |               |            |   |                         |                      | 1. Business License from<br>Local Authority<br>2. AELB Class A | 1. Radiation Safety<br>Management System |

**Work Category** : **Instrumentation & Control Equipment and Services**  
**20171100P** **Field Instruments**  
**Fire & Gas Detectors**

Work Category's Description : To supply and deliver Fire & Gas Detectors such as but not limited to Gas Detector, Smoke Detector, Fire/Heat Detector, Ultra Violet and Infra Red Flame Detector and Visual Flame Detector

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |   |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |   |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in Fire & Gas Detectors related works in oil and gas industry (e.g. Gas Detector, Fire/Heat Detector, Ultra Violet & Infra Red Flame Detector, Visual Flame Detector) |  |                                   |

**Work Category** : **Instrumentation & Control Equipment and Services**  
**20171200P** **Field Instruments**  
**Flow Instruments**

Work Category's Description : To design, engineer, procure, supply, deliver, install, hook up, test, commission and training of Flow Instruments such as but not limited to Orifice Bodies (Fittings, Flanges, Plates), Cone Meter, Coriolis, Electronic Flow Recorder, Flow Computers, Flow Nozzle, Flow Switches, Flow Transmitter, Magnetic, Pitot/Annubar, Pneumatic Flow/Temperature/Pressure Recorder, Positive Displacement Flow Meter, Rotameter, Sight Flow Indicators, Thermal Mass Flow Meter, Turbine Flowmeters, Ultrasonic Type, Venturi Tube, Vortex, Target Meter, Non-conventional Flow Meter, etc.

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |  |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |  |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 5 years experience in flow instruments related works in oil and gas industry |  |                                   |

**Work Category** : **Instrumentation & Control Equipment and Services**  
**20171300P** **Field Instruments**  
**Level Instruments**

**Work Category's Description** : To design, engineer, procure, assemble, supply, deliver, install, hook up, test, commission and training of Level Instruments such as but not limited to Level Gauges/Glasses & Cocks, Capacitance/Resistance Type, Differential Pressure Type, Displacement Type, Float Operated Type, Level Switches, Level Transmitter, Ultrasonic Type, Radar Type, Nuclear Type and Tuning Fork

**Mode of Operation** : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |  |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |  |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 5 years experience in level instruments related works in oil and gas industry. |  |                                   |

**Work Category** : **Instrumentation & Control Equipment and Services**  
**20171400P** **Field Instruments**  
**Machine Monitoring Sensors**

Work Category's Description : To design, engineer, procure, assemble, supply, deliver, install, hook up, test, commission and training of Machine Monitoring Sensors

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |   |   |   |                         |  |  |                                   |
|-------------------------------|---|---|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |   |   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience  |   |                         |  |  |                                   |
| Engineer                      | Degree in relevant Engineering discipline/field                                 | Minimum 5 years of experience in vibration monitoring sensor/system related works |   | Calibration kit         | Minimum 5 years experience in supply, engineering and installation of machine monitoring sensors instruments in O&G industry |  |                                   |
| Technician                    | Diploma or certificates in instrument / electronics / mechatronics / automation | Minimum 5 years of experience in vibration monitoring sensor/system related works |   |                         |  |  |                                   |

**Work Category** : **Instrumentation & Control Equipment and Services**  
**20171400P** **Field Instruments**  
**Machine Monitoring Sensors**

Work Category's Description : To design, engineer, procure, assemble, supply, deliver, install, hook up, test, commission and training of Machine Monitoring Sensors

Mode of Operation : Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |                         |  |  |                                   |
|-------------------------------|---|--|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |                         |  |  |                                   |
| Engineer                      | Degree in relevant<br>Engineering discipline/field                                    | Minimum 5 years of<br>experience in vibration<br>monitoring sensor/system<br>related works |   | Calibration kit         | Minimum 5 years<br>experience in supply,<br>engineering and<br>installation of machine<br>monitoring sensors<br>instruments in O&G<br>industry |  |                                   |
| Technician                    | Diploma or certificates in<br>instrument / electronics /<br>mechatronics / automation | Minimum 5 years of<br>experience in vibration<br>monitoring sensor/system<br>related works |   |                         |  |  |                                   |

**Work Category** : Instrumentation & Control Equipment and Services  
 20171600P Field Instruments  
 Pressure Instruments

Work Category's Description : To supply and deliver Pressure Instrument such as but not limited to Pressure/DP Transmitter (inclusive conventional, HART and/or fieldbus, wireless), Pressure/DP Switches, Pressure Gauge, Pressure Transducers, etc.

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |  |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |  |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 5 years experience in pressure instruments related works in oil and gas industry |  |                                   |

**Work Category** : Instrumentation & Control Equipment and Services  
 20171700P Field Instruments  
 Temperature Instruments

Work Category's Description : To design, engineer, procure, supply and deliver Temperature Instruments such as but not limited to Temperature Transmitters (inclusive conventional, HART and/or fieldbus, wireless), Temperature Switches, Thermowells, Temperature Gauge and Temperature Sensor/Element (Thermocouple/RTD/others)

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |  |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |  |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 5 years' experience in temperature instruments related works in oil and gas industry |  |                                   |



**Work Category** : Instrumentation & Control Equipment and Services  
 20171800P Field Instruments  
 Weighing & Measuring Metering & Sales System - Multiphase Metering

Work Category's Description : To design, engineer, procure, assemble, supply, deliver, install, hook up, test, commission and training of Multiphase Metering

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |  |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |  |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in O&G Multiphase Metering related works |  |                                   |

**Work Category :** Instrumentation & Control Equipment and Services  
 20181000P General Instrument Accessories  
 Fittings & Tubings

**Work Category's Description :** To supply and deliver Instrument Fittings & Tubings

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |  |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |  |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in instrument fittings/tubings related works in oil and gas industry |  |                                   |

**Work Category** : **20190000S Instrumentation & Control Equipment and Services**  
**General Instrument Maintenance**

Work Category's Description : The provision of labour, materials, consumables, equipment and facilities necessary for design, repair, upgrading, change out/replacement, modification, maintenance, troubleshooting, testing and commissioning of general instrument maintenance

Mode of Operation : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT   |   |  |   |  |                      |  |                                   |
|---------------------------------|---|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                   |   |  | Facilities<br>E.g. Warehouse,<br>Dockyard         | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification                             | Experience   |   |  |                      |  |                                   |
| Project /Field Service Engineer | Degree in relevant Engineering field      | Minimum 3 years experience in general instrument maintenance | 1.Manned and permanent office setup<br>2.Workshop | 1.Hand tools<br>2.Calibrators<br>3.Test Equipment<br>4.Software / Tools for diagnostic |                      |  |                                   |
| Technician                      | Certificate in relevant engineering field | Minimum 5 years experience in general instrument maintenance |   |  |                      |  |                                   |

**Work Category** : **20220000P Instrumentation & Control Equipment and Services Machinery Condition Monitoring System**

**Work Category's Description** : To design, engineer, procure, assemble, supply, deliver, install, hook up, test, commission and training of Machinery Condition Monitoring System inclusive of probes, cables and transducers

**Mode of Operation** : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |  |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH                 | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |  |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in O&G Machinery Condition Monitoring System related works | Machine Monitoring System (MMS) shall be TUV Rhineland certified |                                   |

**Work Category** : **Instrumentation & Control Equipment and Services**  
**20231000P** **Process Control & Monitoring System**  
**Distributed Control System (DCS)**

**Work Category's Description** : To design, engineer, assemble, supply, deliver, install, hook up, test, commission and training of Distributed Control System (DCS)

**Mode of Operation** : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |  |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |  |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in O&G DCS related works |  |                                   |

**Work Category** : Instrumentation & Control Equipment and Services  
 20231100P Process Control & Monitoring System  
 SCADA System/Telemetry

Work Category's Description : To design, engineer, assemble, supply, deliver, install, hook up, test, commission and training of SCADA System/Telemetry

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |   |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |   |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in O&G SCADA System/Telemetry related works |  |                                   |

**Work Category** : **2025000P Instrumentation & Control Equipment and Services Sampling System**

Work Category's Description : To design, engineer, procure, assemble, supply, deliver, install, hook up, test, commission Sampling System for metering and manual sampling including multiphase sampler

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |  |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |  |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in O&G Sampling System |  |                                   |

**Work Category** : **Instrumentation & Control Equipment and Services**  
**20261200S** **Systems Maintenance**  
**DCS & PLC**

Work Category's Description : The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, refurbish, upgrading, change out/replacement, modification, maintenance, troubleshooting, testing and commissioning of Digital Control System (DCS) and Programmable Logic Controller (PLC)

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT  |                                    |  |   |  |  |  |                                   |
|--------------------------------|------------------------------------|--|---|--|--|--|-----------------------------------|
| Key Personnel                  |                                    |  | Facilities<br>E.g. Warehouse,<br>Dockyard         | Equipment<br>E.g. Tools  | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                    | Qualification                      | Experience   |   |  |  |  |                                   |
| Project/Field Service Engineer | Degree in any Engineering field    | Minimum 3 years experience in Distributed Control System (DCS) and Sub System Integration, configuration and troubleshooting, trained and certified from Principal | 1.Manned and permanent office setup<br>2.Workshop | 1.Hand tools<br>2.Calibrators<br>3.Test Equipment<br>4.Software / Tools for diagnostic | Principal to have minimum 10 years experience in O&G DCS & PLC related works |  |                                   |
| Technician                     | Trained and certified by Principal | Minimum 5 years experience in DCS & PLC servicing  |   |  |  |  |                                   |



**Work Category** : **Instrumentation & Control Equipment and Services**  
**20261200S** **Systems Maintenance**  
**DCS & PLC**

Work Category's Description : The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, refurbish, upgrading, change out/replacement, modification, maintenance, troubleshooting, testing and commissioning of Digital Control System (DCS) and Programmable Logic Controller (PLC)

Mode of Operation : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT  |                                 |  |   |   |                      |  |                                   |
|--------------------------------|---------------------------------|--|---|---|----------------------|--|-----------------------------------|
| Key Personnel                  |                                 |  | Facilities<br>E.g. Warehouse,<br>Dockyard         | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                    | Qualification                   | Experience   |   |   |                      |  |                                   |
| Project/Field Service Engineer | Degree in any Engineering field | Minimum 3 years experience in Distributed Control System (DCS) and Sub System Integration, configuration and troubleshooting | 1.Manned and permanent office setup<br>2.Workshop | 1.Hand tools<br>2.Callibrators<br>3.Test Equipment<br>4.Software / Tools for diagnostic |                      |  |                                   |
| Technician                     | N/A                             | Minimum 5 years experience in DCS & PLC servicing  |   |   |                      |  |                                   |

**Work Category :** Instrumentation & Control Equipment and Services  
Systems Maintenance  
20261400S Safeguarding/Safety System

**Work Category's Description :** The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, refurbish, upgrading, change out/replacement, modification, maintenance, troubleshooting, testing and commissioning of Safeguarding/Safety System

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT   |                                    |  |   |  |   |  |                                   |
|---------------------------------|------------------------------------|--|---|--|---|--|-----------------------------------|
| Key Personnel                   |                                    |  | Facilities<br>E.g. Warehouse,<br>Dockyard         | Equipment<br>E.g. Tools  | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification                      | Experience   |   |  |   |  |                                   |
| Project /Field Service Engineer | Degree in any Engineering field    | Minimum 3 years experience in Safeguarding / Safety System and Sub System Integration, configuration and troubleshooting, trained and certified from Principal | 1.Manned and permanent office setup<br>2.Workshop | 1.Hand tools<br>2.Calibrators<br>3.Test Equipment<br>4.Software / Tools for diagnostic | Principal to have minimum 10 years experience in O&G Safeguarding / Safety System related works |  |                                   |
| Technician                      | Trained and certified by Principal | Minimum 5 years experience in Safeguarding / Safety System servicing   |   |  |   |  |                                   |

**Work Category :** Instrumentation & Control Equipment and Services  
 Systems Maintenance  
 20261400S Safeguarding/Safety System

**Work Category's Description :** The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, refurbish, upgrading, change out/replacement, modification, maintenance, troubleshooting, testing and commissioning of Safeguarding/Safety System

**Mode of Operation :** Self-Operated

| MINIMUM TECHNICAL REQUIREMENT   |                                 |  |   |  |                      |  |                                   |
|---------------------------------|---------------------------------|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                   |                                 |  | Facilities<br>E.g. Warehouse,<br>Dockyard         | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification                   | Experience   |   |  |                      |  |                                   |
| Project /Field Service Engineer | Degree in any Engineering field | Minimum 3 years experience in Safeguarding / Safety System and Sub System Integration, configuration and troubleshooting | 1.Manned and permanent office setup<br>2.Workshop | 1.Hand tools<br>2.Calibrators<br>3.Test Equipment<br>4.Software / Tools for diagnostic |                      |  |                                   |
| Technician                      | N/A                             | Minimum 5 years experience in Safeguarding / Safety System servicing   |   |  |                      |  |                                   |

**Work Category :** Instrumentation & Control Equipment and Services  
 Systems Maintenance  
 20261600S Turbo Machineries Instrument

**Work Category's Description :** The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, refurbish, upgrading, change out/replacement, modification, maintenance, troubleshooting, testing and commissioning of Turbo Machineries Instrument

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT   |                                    |  |   |  |   |  |                                   |
|---------------------------------|------------------------------------|--|---|--|---|--|-----------------------------------|
| Key Personnel                   |                                    |  | Facilities<br>E.g. Warehouse,<br>Dockyard         | Equipment<br>E.g. Tools  | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification                      | Experience   |   |  |   |  |                                   |
| Project /Field Service Engineer | Degree in any Engineering field    | Minimum 3 years experience in Turbo Machineries Instrument System Integration, configuration and troubleshooting, trained and certified from Principal | 1.Manned and permanent office setup<br>2.Workshop | 1.Hand tools<br>2.Calibrators<br>3.Test Equipment<br>4.Software / Tools for diagnostic | Principal to have minimum 10 years experience in Turbo Machineries Instrument related works |  |                                   |
| Technician                      | Trained and certified by Principal | Minimum 5 years experience in Turbo Machineries Instrument system servicing  |   |  |   |  |                                   |

**Work Category :** Instrumentation & Control Equipment and Services  
**20261600S** Systems Maintenance  
 Turbo Machineries Instrument

**Work Category's Description :** The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, refurbish, upgrading, change out/replacement, modification, maintenance, troubleshooting, testing and commissioning of Turbo Machineries Instrument

**Mode of Operation :** Self-Operated

| MINIMUM TECHNICAL REQUIREMENT   |                                 |  |   |  |                      |  |                                   |
|---------------------------------|---------------------------------|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                   |                                 |  | Facilities<br>E.g. Warehouse,<br>Dockyard         | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification                   | Experience   |   |  |                      |  |                                   |
| Project /Field Service Engineer | Degree in any Engineering field | Minimum 3 years experience in Turbo Machineries Instrument System Integration, configuration and troubleshooting | 1.Manned and permanent office setup<br>2.Workshop | 1.Hand tools<br>2.Calibrators<br>3.Test Equipment<br>4.Software / Tools for diagnostic |                      |  |                                   |
| Technician                      | N/A                             | Minimum 5 years experience in Turbo Machineries Instrument system servicing                                      |   |  |                      |  |                                   |

**Work Category** : **Instrumentation & Control Equipment and Services**  
**20101000S** **Certification & Consultancy Services**  
**Calibration of Measurement System**

**Work Category's Description** : The provision of labour, consumables, equipment and facilities related to testing, calibration and validation such as metering system and equipment used for such work for trade purposes is to be traceable to national and international standard

**Mode of Operation** : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |                      |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |                      |  |                                   |
|                               |               |            |   |                         |                      | SIRIM certified                                  |                                   |

**Work Category** : **Instrumentation & Control Equipment and Services**  
**20261300S** **Systems Maintenance**  
**Fire & Gas Detection & Alarm System**

Work Category's Description : The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, refurbish, upgrading, change out/replacement, modification, maintenance, troubleshooting, testing and commissioning of Fire & Gas Detection & Alarm System including but not limited to smoke and heat detection, infra-red heat detection, flammable and toxic gas detection and alarm panels

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |                      |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                         | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |                      |  |                                   |
|                               |               |            |   |                         |                      | Fire & Gas System (FGS) shall be SIL2 (Safety Integrity Level) certified |                                   |

**Work Category :** Instrumentation & Control Equipment and Services  
**20111200P** Control Panels  
Wellhead Control Panel

**Work Category's Description :** To design, engineer, procure, assemble, supply, deliver, install, hook up, test, commission and training of Wellhead Control Panel

**Mode of Operation :** System Integrator

| MINIMUM TECHNICAL REQUIREMENT   |  |  |  |   |                      |   |                                   |
|---------------------------------|--|--|--|---|----------------------|---|-----------------------------------|
| Key Personnel                   |  |  | Facilities<br>E.g. Warehouse,<br>Dockyard  | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                              | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification  | Experience   |  |   |                      |   |                                   |
| Technical Manager               | Degree in any Engineering field  | Minimum 5 years experience in Wellhead Control Panel production  | 1.Office setup<br>2.Assembling facility<br>3.Testing facility<br>4.Staging Area<br>5.Training Facility | 1.Lifting equipment<br>2.Computer Aided Design (CAD) software<br>3.Emulator/ Simulator for logic testing & configuration<br>4.Multi Meter<br>5.Hand tools |                      | 1.Business License from Local Authority<br>2.DOSH – "Surat Kebenaran Operasi" |                                   |
| Project /Field Service Engineer | Degree in any Engineering field and trained & certified from Principal | Minimum 3 years experience in Wellhead Control Panel & Sub System Integration, configuration and troubleshooting |  |   |                      |   |                                   |
| System Engineer                 | Degree in any Engineering and trained & certified from Principal       | Minimum 5 years experience in Wellhead Control Panel design  |  |   |                      |   |                                   |
| QA/QC Engineer                  | Degree in any Engineering field  | Minimum 5 years experience doing QA/QC and Factory Acceptance Test (FAT)   |  |   |                      |   |                                   |



**Work Category :** Instrumentation & Control Equipment and Services  
**20111200P** Control Panels  
 Wellhead Control Panel

**Work Category's Description :** To design, engineer, procure, assemble, supply, deliver, install, hook up, test, commission and training of Wellhead Control Panel

**Mode of Operation :** Manufacturer

| MINIMUM TECHNICAL REQUIREMENT   |  |  |   |   |                      |   |                                   |
|---------------------------------|--|--|---|---|----------------------|---|-----------------------------------|
| Key Personnel                   |  |  | Facilities<br>E.g. Warehouse,<br>Dockyard   | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                              | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification  | Experience   |   |   |                      |   |                                   |
| Production Manager              | Degree in any Engineering field  | Minimum 5 years experience in Wellhead Control Panel production  | 1.Office setup<br>2.Manufacturing facility<br>3.Testing facility<br>4.Training Facility | 1.Heavy lifting equipment<br>2.Test Equipment<br>3.Programmable Logic & Hydraulic Test Equipments<br>4.Computer Aided Design (CAD) software |                      | 1.Business License from Local Authority<br>2.DOSH – "Surat Kebenaran Operasi" |                                   |
| Project /Field Service Engineer | Degree in any Engineering field and trained & certified from Principal                           | Minimum 3 years experience in Wellhead Control Panel selection and servicing , trained and certified from Principal                  |   |   |                      |   |                                   |
| Design Engineer                 | Degree in any Engineering and trained & certified from Principal/Degree in any Engineering field | Minimum 5 years experience in Wellhead Control Panel design/Minimum 5 years experience doing QA/QC and Factory Acceptance Test (FAT) |   |   |                      |   |                                   |
| QA/QC Engineer                  | Degree in any Engineering field  | Minimum 5 years experience doing QA/QC and Factory Acceptance Test (FAT)   |   |   |                      |   |                                   |
| R & D Engineer                  | Degree in any Engineering and trained & certified from Principal                                 | Minimum 5 years experience in Wellhead Control Panel design  |   |   |                      |   |                                   |

**Work Category** : Instrumentation & Control Equipment and Services  
 20111200P Control Panels  
 Wellhead Control Panel

Work Category's Description : To design, engineer, procure, assemble, supply, deliver, install, hook up, test, commission and training of Wellhead Control Panel

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |   |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |   |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in O&G Wellhead Control Panel related works |  |                                   |

**Work Category :** **21101400S** **Logistics & Warehousing  
Aviation  
Fixed Wing Services**

**Work Category's Description :** The provision of manpower, equipment, facilities and services for fixed wing operation and maintenance including ground handling

**Mode of Operation :** Self-operated

| MINIMUM TECHNICAL REQUIREMENT                                   |  |   |                                   |            |                      |   |                        |
|---|--|---|-----------------------------------|------------|----------------------|---|------------------------|
| Key Personnel   |  |   | Facilities                        | Equipment  | Company's Experience | External Body Registration  | Quality                |
| Designation   | Qualification  | Experience  | E.g. Warehouse, Dockyard          | E.g. Tools |                      | E.g. CIDB, DOSH   | E.g. ISO, API Standard |
| Base Manager  | Degree in any discipline and/or a licensed pilot/engineer in aviation industry                 | Minimum 3 years' experience in managing fixed-wing operations   | Manned and permanent office setup |            |                      | Registered with Dept. of Civil Aviation (DCA) Malaysia with Air Operators Certificate (AOC) |                        |
| Chief Pilot   | Valid Airline Transport Pilot License (ATPL)   | Flying instructor and examiner experience with minimum 3 years experience in managing /supervisory position |                                   |            |                      |   |                        |
| Technical Support Manager                                       | Degree or license aircraft engineer in B1.1 (Mechanical - Aircraft Turbines) and B2 (Avionics) | Minimum 5 years experience in supervisory role  |                                   |            |                      |   |                        |
| Quality Assurance (QA) & Safety Management System (SMS) Manager | Degree in any engineering discipline<br>or<br>License in Aircraft engineer/pilot               | Minimum 5 years experience in QA/safety management functions  |                                   |            |                      |   |                        |

**Work Category** : **21101500S** **Logistics & Warehousing**  
**Aviation**  
**Helicopter Services**

Work Category's Description : The provision of manpower, equipment, facilities and services for helicopter operation and maintenance including ground handling

Mode of Operation : Self-operated

| Key Personnel   |   |   | MINIMUM TECHNICAL REQUIREMENT          |                         |                      |   |                                   |
|---|---|---|--|-------------------------|----------------------|---|-----------------------------------|
| Designation   | Qualification   | Experience  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Base Manager  | Degree in any discipline and/or a licensed pilot/engineer in aviation industry                  | Minimum 3 years experience in managing helicopter operations  | Manned and permanent office setup      |                         |                      | Registered with Dept. of Civil Aviation (DCA) Malaysia with Air Operators Certificate (AOC) |                                   |
| Chief Pilot   | Valid Airline Transport Pilot License (ATPL)  | Flying instructor and examiner experience with minimum 3 years experience in managing /supervisory position |  |                         |                      |   |                                   |
| Technical Support Manager                                       | Degree or license aircraft engineer in B1.3 (Mechanical - Helicopter Turbines) or B2 (Avionics) | Minimum 5 years experience in supervisory role  |  |                         |                      |   |                                   |
| Quality Assurance (QA) & Safety Management System (SMS) Manager | Degree in any engineering discipline<br>or<br>License in Aircraft engineer/pilot                | Minimum 5 years experience in QA/safety management functions  |  |                         |                      |   |                                   |

**Work Category** : **Logistics & Warehousing**  
**21121211S** **Marine**  
**Marine Operations Services**  
**Classification Society Survey**

Work Category's Description : The provision of carrying out classification for offshore structure

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |   |                      |   |                                   |
|-------------------------------|---|--|--|---|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |  |   |                      |   |                                   |
| Lead / Senior Engineer        | Master in any relevant engineering discipline, preferably Naval Architecture / Marine Engineering/ Mechanical Engineering/ Structural/ Riser Engineering / Pipeline Engineering | 10 years experience in offshore structure classification i.e: FSO, FPSO, FPS etc | Proper office setup                    | The company to provide the list of engineering workstation / hardware and relevant software and program to conduct classification<br><br>*Company to provide list of software(s) and copy of the software license(s). |                      |   |                                   |

**Work Category** : **21121510S** **Logistics & Warehousing**  
**Marine**  
**Marine Transportation**  
**Accommodation Work/Construction**

**Work Category's Description** : The provision of Accommodation Work/Construction Boat/Barge including personnel to accommodate work personnel and crew with a degree of comfort and safety, with deck space or materials work area and crane for Self-propelled Accommodation Vessel/Floatel/Work Boat and Non-propelled Accommodation/Construction/Barge

**Mode of Operation** : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |                                     |   |                      |  |                        |
|-------------------------------|---------------|------------|-------------------------------------|---|----------------------|--|------------------------|
| Key Personnel                 |               |            | Facilities                          | Equipment   | Company's Experience | External Body Registration   | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard            | E.g. Tools  |                      | E.g. CIDB, DOSH  | E.g. ISO, API Standard |
|                               |               |            | Manned Ship Management office setup | 1. One valid exclusive appointment letter from Principal for one year 2. List of vessel / floatel / work boat/construction/ barge |                      | Principal must provide following document:<br>1.Certificate Registry of Vessel |                        |

**Work Category** : **Logistics & Warehousing**  
**21121510S** **Marine**  
**Marine Transportation**  
**Accommodation Work/Construction**

**Work Category's Description** : The provision of Accommodation Work/Construction Boat/Barge including personnel to accommodate work personnel and crew with a degree of comfort and safety, with deck space or materials work area and crane for Self-propelled Accommodation Vessel/Floatel/Work Boat and Non-propelled Accommodation/Construction/Barge

**Mode of Operation** : Vessel Operator

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |   |                      |   |                                   |
|-------------------------------|---------------|------------|--|---|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |   |                      |   |                                   |
|                               |               |            | Manned Ship Management office setup    | 1. Letter of appointment from Owner to operator for each vessel to operate<br>2. List of vessel / floatel / work boat/construction/ barge |                      | Vessel Operator must provide following document:<br>1. Certificate Registry of Vessel |                                   |

**Work Category :** Logistics & Warehousing  
 Marine  
 Marine Transportation  
 21121510S Accommodation Work/Construction

**Work Category's Description :** The provision of Accommodation Work/Construction Boat/Barge including personnel to accommodate work personnel and crew with a degree of comfort and safety, with deck space or materials work area and crane for Self-propelled Accommodation Vessel/Floatel/Work Boat and Non-propelled Accommodation/Construction/Barge

**Mode of Operation :** Vessel Owner Operator

| MINIMUM TECHNICAL REQUIREMENT              |  |                        |  |  |                      |   |  |
|--|--|------------------------|--|--|----------------------|---|--|
| Key Personnel                              |  |                        | Facilities                             | Equipment                                | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard  |
| Designation                                | Qualification                                  | Experience             | E.g. Warehouse, Dockyard               | E.g. Tools                               |                      |   |  |
| Operational Manager /<br>Technical Manager | Master Mariner or Marine<br>Engineer Unlimited | 5 years in Oil and Gas | Manned Ship Management<br>office setup | List of own vessel/floatel/<br>work boat |                      | Owner must provide follow<br>documents:<br>1.Certificate Registry of<br>Vessel from Malaysian Ship<br>Registry<br>2.Document of Compliance<br>(DOC)<br>3.Safety Management<br>Certificate (SMC)<br>4. Vessel shall be registered<br>with classification society<br>which is member of<br>International Association of<br>Classification Societies<br>(IACS) | Compliance to:<br>1. Offshore Vessel<br>Management Self<br>Assessment (OVMSA) -<br>Minimum Level 1, verified by<br>MISC Maritime Services<br>Sdn. Bhd. (MMSSB)<br>2. International Safety<br>Management Code (ISM)<br>incorporating oil and gas<br>industry Health, Safety and<br>Environment Management<br>System (HSE MS) elements |



**Work Category :** Logistics & Warehousing  
 Marine  
 Marine Transportation  
 21121511S Anchor Handling Tug (AHT)/Anchor Handling Tug & Supply (AHTS)/Tow Tug Boat

**Work Category's Description :** The provision of AHT/AHTS/Tow Tug Boat including but not limited to personnel to supply oil rigs, transport liquid/bulk cargo, stores, materials and equipment, tow oil rigs to location, anchor oil rig and serve as an emergency rescue and recovery vessel (ERRV)

**Mode of Operation :** Vessel Owner Operator

| MINIMUM TECHNICAL REQUIREMENT              |  |                        |  |                                    |                      |   |   |
|--|--|------------------------|--|------------------------------------|----------------------|---|---|
| Key Personnel                              |  |                        | Facilities                             | Equipment                          | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard   |
| Designation                                | Qualification                                  | Experience             | E.g. Warehouse, Dockyard               | E.g. Tools                         |                      |   |   |
| Operational Manager /<br>Technical Manager | Master Mariner or Marine<br>Engineer Unlimited | 5 years in Oil and Gas | Manned Ship Management<br>office setup | 1.List of own AHT/AHTS/Tug<br>Boat |                      | Owner must provide follow<br>documents:<br><br>1.Certificate Registry of<br>Vessel from Malaysian Ship<br>Registry<br>2.Document of Compliance<br>(DOC)<br>3.Safety Management<br>Certificate (SMC)<br>4. Vessel shall be registered<br>with classification society<br>which is member of<br>International Association of<br>Classification Societies<br>(IACS) | Compliance to:<br><br>1. Offshore Vessel<br>Management Self<br>Assessment (OVMSA) -<br>Minimum Level 1, verified by<br>MISC Maritime Services<br>Sdn. Bhd. (MMSB)<br>2. International Safety<br>Management Code (ISM)<br>incorporating oil and gas<br>Industry Health, Safety and<br>Environment Management<br>System (HSE MS) elements |

**Work Category** : **Logistics & Warehousing**  
**Marine**  
**Marine Transportation**  
**Diving Support Vessel**  
**21121512S**

**Work Category's Description** : The provision of Diving Support Vessel including personnel used as a floating base for professional diving projects below or around oil production platforms and associated installations. The vessel can be fitted with dynamic positioning system (DP)

**Mode of Operation** : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |                                     |  |                      |   |         |
|-------------------------------|---------------|------------|-------------------------------------|--|----------------------|---|---------|
| Key Personnel                 |               |            | Facilities                          | Equipment  | Company's Experience | External Body Registration  | Quality |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard            | E.g. Tools   |                      |   |         |
|                               |               |            | Manned Ship Management office setup | 1. One valid exclusive appointment letter from Principal for one year<br>2. List of vessel |                      | Principal must provide follow documents:<br>1. Certificate Registry of Vessel<br>2. Document of Compliance (DOC) for above 500 Gross Tonnage<br>3. Safety Management Certificate (SMC) for above 500 Gross Tonnage<br>4. Vessel Specification |         |

**Work Category** : **Logistics & Warehousing**  
**Marine**  
**Marine Transportation**  
**Diving Support Vessel**  
**21121512S**

**Work Category's Description** : The provision of Diving Support Vessel including personnel used as a floating base for professional diving projects below or around oil production platforms and associated installations. The vessel can be fitted with dynamic positioning system (DP)

**Mode of Operation** : Vessel Operator

| MINIMUM TECHNICAL REQUIREMENT |               |            |                                     |   |                      |   |                                   |
|-------------------------------|---------------|------------|-------------------------------------|---|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities                          | Equipment   | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard            | E.g. Tools  |                      |   |                                   |
|                               |               |            | Manned Ship Management office setup | 1. Letter of appointment from Owner to operator for each vessel to operate<br>2. List of vessel |                      | Vessel Operator must provide follow documents:<br>1. Certificate Registry of Vessel<br>2. Document of Compliance (DOC) for above 500 Gross Tonnage<br>3. Safety Management Certificate (SMC) for above 500 Gross Tonnage<br>4. Vessel Specification |                                   |

**Work Category** : **Logistics & Warehousing**  
**Marine**  
**Marine Transportation**  
**Diving Support Vessel**  
**21121512S**

**Work Category's Description** : The provision of Diving Support Vessel including personnel used as a floating base for professional diving projects below or around oil production platforms and associated installations. The vessel can be fitted with dynamic positioning system (DP)

**Mode of Operation** : Vessel Owner Operator

| MINIMUM TECHNICAL REQUIREMENT |               |            |                                     |                      |                      |   |                                   |
|-------------------------------|---------------|------------|-------------------------------------|----------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities                          | Equipment            | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard            | E.g. Tools           |                      |   |                                   |
|                               |               |            | Manned Ship Management office setup | 1.List of own vessel |                      | Owner must provide follow documents:<br>1.Certificate Registry of Vessel<br>2.Document of Compliance (DOC) for above 500 Gross Tonnage<br>3.Safety Management Certificate (SMC) for above 500 Gross Tonnage<br>4.Vessel Specification |                                   |

**Work Category** : **Logistics & Warehousing**  
**Marine**  
**Marine Transportation**  
**21121513S** **Dumb/Flat Top/Transportation Barge**

**Work Category's Description** : The provision of Dumb/Flat Top/Transportation Barge including personnel to transport materials and equipments. It is a long, large, usually flat-bottomed barge, generally designed with absence of its own means of mechanical propulsion and to be towed or pushed by other craft, such as tug boat.

**Mode of Operation** : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |                                     |   |                      |  |                                   |
|-------------------------------|---------------|------------|-------------------------------------|---|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities                          | Equipment   | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard            | E.g. Tools  |                      |  |                                   |
|                               |               |            | Manned Ship Management office setup | 1. One valid exclusive appointment letter from Principal for one year<br>2. List of barge |                      | Principal must provide follow documents:<br>1. Certificate Registry of Vessel<br>2. Vessel / barge Specification |                                   |

**Work Category** : **Logistics & Warehousing**  
**Marine**  
**Marine Transportation**  
**21121513S** **Dumb/Flat Top/Transportation Barge**

**Work Category's Description** : The provision of Dumb/Flat Top/Transportation Barge including personnel to transport materials and equipments. It is a long, large, usually flat-bottomed barge, generally designed with absence of its own means of mechanical propulsion and to be towed or pushed by other craft, such as tug boat.

**Mode of Operation** : Vessel Operator

| MINIMUM TECHNICAL REQUIREMENT |               |            |                                     |   |                      |  |         |
|-------------------------------|---------------|------------|-------------------------------------|---|----------------------|--|---------|
| Key Personnel                 |               |            | Facilities                          | Equipment   | Company's Experience | External Body Registration   | Quality |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard            | E.g. Tools  |                      |  |         |
|                               |               |            | Manned Ship Management office setup | 1. Letter of appointment from Owner to operator for each vessel to operate<br>2. List of vessel |                      | Vessel Operator must provide follow documents:<br>1. Certificate Registry of Vessel<br>2. Vessel / barge Specification |         |

**Work Category** : **Logistics & Warehousing**  
**Marine**  
**Marine Transportation**  
**21121513S** **Dumb/Flat Top/Transportation Barge**

**Work Category's Description** : The provision of Dumb/Flat Top/Transportation Barge including personnel to transport materials and equipments. It is a long, large, usually flat-bottomed barge, generally designed with absence of its own means of mechanical propulsion and to be towed or pushed by other craft, such as tug boat.

**Mode of Operation** : Vessel Owner Operator

| MINIMUM TECHNICAL REQUIREMENT |               |            |                                     |                      |                      |  |         |
|-------------------------------|---------------|------------|-------------------------------------|----------------------|----------------------|--|---------|
| Key Personnel                 |               |            | Facilities                          | Equipment            | Company's Experience | External Body Registration   | Quality |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard            | E.g. Tools           |                      |  |         |
|                               |               |            | Manned Ship Management office setup | 1.List of own vessel |                      | Owner must provide follow documents:<br>1.Certificate Registry of Vessel<br>2.Vessel / barge Specification |         |

|                      |   |   |
|----------------------|---|---|
| <b>Work Category</b> | : | <b>Logistics &amp; Warehousing</b><br><b>Marine</b><br><b>Marine Transportation</b><br><b>Fast Crew Boat/Supply Crew Boat</b> |
|                      |   | <b>21121514S</b>  |

Work Category's Description : The provision of Fast Crew Boat/Supply Crew Boat including personnel to provide personnel transportation from base to / from offshore location or within fields such as but not limited to Surfer

Mode of Operation : Vessel Owner Operator

| MINIMUM TECHNICAL REQUIREMENT           |   |                        |                                     |                                     |                      |   |  |
|---|---|------------------------|-------------------------------------|-------------------------------------|----------------------|---|--|
| Key Personnel                           |   |                        | Facilities                          | Equipment                           | Company's Experience | External Body Registration  | Quality  |
| Designation                             | Qualification                               | Experience             | E.g. Warehouse, Dockyard            | E.g. Tools                          |                      | E.g. CIDB, DOSH   | E.g. ISO, API Standard   |
| Operational Manager / Technical Manager | Master Mariner or Marine Engineer Unlimited | 5 years in Oil and Gas | Manned Ship Management office setup | List of own fast / supply crew boat |                      | Owner must provide follow documents:<br>1.Certificate Registry of Vessel from Malaysian Ship Registry<br>2.Document of Compliance (DOC)<br>3.Safety Management Certificate (SMC)<br>4. Vessel shall be registered with classification society which is member of International Association of Classification Societies (IACS) | Compliance to:<br>1. Offshore Vessel Management Self Assessment (OVMSA) - Minimum Level 1, verified by MISC Maritime Services Sdn. Bhd. (MMSSB)<br>2. International Safety Management Code (ISM) incorporating oil and gas industry Health, Safety and Environment Management System (HSE MS) elements |



**Work Category** : **Logistics & Warehousing**  
**Marine**  
**Marine Transportation**  
**21121515S** **Landing Craft Tank**

Work Category's Description : The provision of Landing Craft Tank including personnel, specially designed to be flat-bottomed for transportation and supply of food, water and oil

Mode of Operation : Vessel Owner Operator

| MINIMUM TECHNICAL REQUIREMENT              |  |                        |  |                                     |                      |   |  |
|--|--|------------------------|--|-------------------------------------|----------------------|---|--|
| Key Personnel                              |  |                        | Facilities                             | Equipment                           | Company's Experience | External Body Registration  | Quality  |
| Designation                                | Qualification                                  | Experience             | E.g. Warehouse, Dockyard               | E.g. Tools                          |                      |   |  |
| Operational Manager /<br>Technical Manager | Master Mariner or Marine<br>Engineer Unlimited | 5 years in Oil and Gas | Manned Ship Management<br>office setup | 1.List of own Landing Craft<br>Tank |                      | Owner must provide follow<br>documents:<br><br>1.Certificate Registry of<br>Vessel from Malaysian Ship<br>Registry<br>2.Document of Compliance<br>(DOC)<br>3.Safety Management<br>Certificate (SMC)<br>4. Vessel shall be registered<br>with classification society<br>which is member of<br>International Association of<br>Classification Societies<br>(IACS) | Compliance to:<br><br>1. Offshore Vessel<br>Management Self<br>Assessment (OVMSA) -<br>Minimum Level 1, verified by<br>MISC Maritime Services<br>Sdn. Bhd. (MMSSB)<br>2. International Safety<br>Management Code (ISM)<br>incorporating oil and gas<br>industry Health, Safety and<br>Environment Management<br>System (HSE MS) elements |

**Work Category** : **Logistics & Warehousing**  
**Marine**  
**Marine Transportation**  
**Platform Supply Vessel**  
**21121518S**

**Work Category's Description** : The provision of Platform Supply Vessel including personnel to transport liquid/bulk cargo, stores, materials and equipment, or to transport personnel and materials between platforms and drilling rigs. The vessel is normally used for deepwater operations

**Mode of Operation** : Vessel Owner Operator

| MINIMUM TECHNICAL REQUIREMENT              |  |                        |  |   |                      |   |   |
|--|--|------------------------|--|---|----------------------|---|---|
| Key Personnel                              |  |                        | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools                 | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard   |
| Designation                                | Qualification                                  | Experience             |  |   |                      |   |   |
| Operational Manager /<br>Technical Manager | Master Mariner or Marine<br>Engineer Unlimited | 5 years in Oil and Gas | Manned Ship Management<br>office setup | 1.List of own platform supply<br>vessel |                      | Owner must provide follow<br>documents:<br>1.Certificate Registry of<br>Vessel from Malaysian Ship<br>Registry<br>2.Document of Compliance<br>(DOC)<br>3.Safety Management<br>Certificate (SMC)<br>4. Vessel shall be registered<br>with classification society<br>which is member of<br>International Association of<br>Classification Societies<br>(IACS) | Compliance to:<br>1. Offshore Vessel<br>Management Self<br>Assessment (OVMSA) -<br>Minimum Level 1, verified by<br>MISC Maritime Services<br>Sdn. Bhd. (MMSB)<br>2. International Safety<br>Management Code (ISM)<br>incorporating oil and gas<br>industry Health, Safety and<br>Environment Management<br>System (HSE MS) elements |

|                      |   |   |
|----------------------|---|---|
| <b>Work Category</b> | : | <b>Logistics &amp; Warehousing</b><br><b>Marine</b><br><b>Marine Transportation</b><br><b>Safety Standby/General Purpose/Utility Vessel</b> |
|                      |   | <b>21121519S</b>  |

Work Category's Description : The provision of Safety Standby Vessel including personnel at location or within field to provide assistance to emergency demobilization of offshore crew in the event of rig, platform, MODU, MOPU or offshore facilities being abandoned. General Purpose / Utility Vessel including personnel for transporting goods, personnel between platforms, standby boat and chaser boat

Mode of Operation : Vessel Owner Operator

| MINIMUM TECHNICAL REQUIREMENT              |  |                        |  |   |                      |   |   |
|--|--|------------------------|--|---|----------------------|---|---|
| Key Personnel                              |  |                        | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard   |
| Designation                                | Qualification                                  | Experience             |  |   |                      |   |   |
| Operational Manager /<br>Technical Manager | Master Mariner or Marine<br>Engineer Unlimited | 5 years in Oil and Gas | Manned Ship Management<br>office setup | 1.List of own Safety Standby<br>/ General Purpose / Utility<br>Vessel |                      | Owner must provide follow<br>documents:<br>1.Certificate Registry of<br>Vessel from Malaysian Ship<br>Registry<br>2.Document of Compliance<br>(DOC)<br>3.Safety Management<br>Certificate (SMC)<br>4. Vessel shall be registered<br>with classification society<br>which is member of<br>International Association of<br>Classification Societies<br>(IACS) | Compliance to:<br>1. Offshore Vessel<br>Management Self<br>Assessment (OVMSA) -<br>Minimum Level 1, verified by<br>MISC Maritime Services<br>Sdn. Bhd. (MMSB)<br>2. International Safety<br>Management Code (ISM)<br>incorporating oil and gas<br>industry Health, Safety and<br>Environment Management<br>System (HSE MS) elements |

**Work Category** : **Logistics & Warehousing**  
**Marine**  
**Marine Transportation**  
**21121520S** **Straight Supply Vessel**

**Work Category's Description** : The provision of Straight Supply Vessel including personnel to transport liquid / bulk cargo, stores, materials and equipment, or to transport personnel and materials between platforms / rigs

**Mode of Operation** : Vessel Owner Operator

| MINIMUM TECHNICAL REQUIREMENT           |   |                        |                                     |                                       |                      |  |   |
|---|---|------------------------|-------------------------------------|---------------------------------------|----------------------|--|---|
| Key Personnel                           |   |                        | Facilities                          | Equipment                             | Company's Experience | External Body Registration   | Quality   |
| Designation                             | Qualification                               | Experience             | E.g. Warehouse, Dockyard            | E.g. Tools                            |                      | E.g. CIDB, DOSH  | E.g. ISO, API Standard  |
| Operational Manager / Technical Manager | Master Mariner or Marine Engineer Unlimited | 5 years in Oil and Gas | Manned Ship Management office setup | 1. List of own straight supply vessel |                      | Owner must provide follow documents:<br>1. Certificate Registry of Vessel from Malaysian Ship Registry<br>2. Document of Compliance (DOC)<br>3. Safety Management Certificate (SMC)<br>4. Vessel shall be registered with classification society which is member of International Association of Classification Societies (IACS) | Compliance to:<br>1. Offshore Vessel Management Self Assessment (OVMSA) - Minimum Level 1, verified by MISC Maritime Services Sdn. Bhd. (MMSB)<br>2. International Safety Management Code (ISM) incorporating oil and gas Industry Health, Safety and Environment Management System (HSE MS) elements |

**Work Category** : **Logistics & Warehousing**  
**Marine**  
**Marine Transportation**  
**21121521S** **Tug Vessel**

Work Category's Description : The provision of Offshore and/or Harbour Tug / Vessel including personnel to assist tankers / commercial vessel during off-take (FPSO or FSO).

Mode of Operation : Vessel Owner Operator

| MINIMUM TECHNICAL REQUIREMENT           |   |                        |                                     |                          |                      |   |   |
|---|---|------------------------|-------------------------------------|--------------------------|----------------------|---|---|
| Key Personnel                           |   |                        | Facilities                          | Equipment                | Company's Experience | External Body Registration  | Quality   |
| Designation                             | Qualification                               | Experience             | E.g. Warehouse, Dockyard            | E.g. Tools               |                      |   |   |
| Operational Manager / Technical Manager | Master Mariner or Marine Engineer Unlimited | 5 years in Oil and Gas | Manned Ship Management office setup | 1.List of own tug vessel |                      | Owner must provide follow documents:<br>1.Certificate Registry of Vessel from Malaysian Ship Registry<br>2.Document of Compliance (DOC)<br>3.Safety Management Certificate (SMC)<br>4. Vessel shall be registered with classification society which is member of International Association of Classification Societies (IACS) | Compliance to:<br>1. Offshore Vessel Management Self Assessment (OVMSA) - Minimum Level 1, verified by MISC Maritime Services Sdn. Bhd. (MMSB)<br>2. International Safety Management Code (ISM) incorporating oil and gas Industry Health, Safety and Environment Management System (HSE MS) elements |

**Work Category** : **21121710S** **Logistics & Warehousing**  
**Marine**  
**Ship**  
**Bulk Carrier**

Work Category's Description : The provision of Bulk Carrier and personnel for transportation, storage of bulk materials

Mode of Operation : Vessel Operator

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |   |                      |   |                                   |
|-------------------------------|---------------|------------|--|---|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |   |                      |   |                                   |
|                               |               |            | Ship Management office setup           | Letter of appointment from Owner to operator for each operated vessel |                      | Vessel Operator must provide follow documents:<br>1.Certificate Registry of Vessel<br>2.Document of Compliance (DOC) for above 500 Gross Tonnage<br>3.Safety Management Certificate (SMC) for above 500 Gross Tonnage |                                   |

**Work Category** : **Logistics & Warehousing**  
**21121710S** **Marine**  
**Ship**  
**Bulk Carrier**

Work Category's Description : The provision of Bulk Carrier and personnel for transportation, storage of bulk materials

Mode of Operation : Vessel Owner Operator

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            | Ship Management office setup           | 1.List of own vessel    |                      | Owner must provide follow documents:<br>1.Certificate Registry of Vessel<br>2.Document of Compliance (DOC) for above 500 Gross Tonnage<br>3.Safety Management Certificate (SMC) for above 500 Gross Tonnage |                                   |

**Work Category** : **Logistics & Warehousing**  
**21121711S** **Marine**  
**Ship**  
**Chemical Tankers**

Work Category's Description : The provision of chemical tankers and personnel for transportation, storage of chemical products

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |                              |   |                      |                            |         |
|-------------------------------|---------------|------------|------------------------------|---|----------------------|----------------------------|---------|
| Key Personnel                 |               |            | Facilities                   | Equipment   | Company's Experience | External Body Registration | Quality |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard     | E.g. Tools  |                      |                            |         |
|                               |               |            | Ship Management office setup | 1. One valid exclusive appointment letter from Principal for one year<br>2. List of related vessel from Principal |                      |                            |         |



**Work Category** : **Logistics & Warehousing**  
**21121711S** **Marine**  
**Ship**  
**Chemical Tankers**

Work Category's Description : The provision of chemical tankers and personnel for transportation, storage of chemical products

Mode of Operation : Vessel Operator

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |   |                      |   |                                   |
|-------------------------------|---------------|------------|--|---|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |   |                      |   |                                   |
|                               |               |            | Ship Management office setup           | Letter of appointment from Owner to operator for each operated vessel |                      | Vessel Operator must provide follow documents:<br>1.Certificate Registry of Vessel<br>2.Document of Compliance (DOC) for above 500 Gross Tonnage<br>3.Safety Management Certificate (SMC) for above 500 Gross Tonnage |                                   |

**Work Category** : **Logistics & Warehousing**  
**21121711S** **Marine**  
**Ship**  
**Chemical Tankers**

Work Category's Description : The provision of chemical tankers and personnel for transportation, storage of chemical products

Mode of Operation : Vessel Owner Operator

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            | Ship Management office setup           | 1.List of own vessel    |                      | Owner must provide follow documents:<br>1.Certificate Registry of Vessel<br>2.Document of Compliance (DOC) for above 500 Gross Tonnage<br>3.Safety Management Certificate (SMC) for above 500 Gross Tonnage |                                   |

**Work Category** : **Logistics & Warehousing**  
**21121712S** **Marine Ship Crude Oil Tanker**

Work Category's Description : The provision of crude oil tankers and personnel for transportation, storage of crude oil

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |                              |   |                      |                            |         |
|-------------------------------|---------------|------------|------------------------------|---|----------------------|----------------------------|---------|
| Key Personnel                 |               |            | Facilities                   | Equipment   | Company's Experience | External Body Registration | Quality |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard     | E.g. Tools  |                      |                            |         |
|                               |               |            | Ship Management office setup | 1. One valid exclusive appointment letter from Principal for one year<br>2. List of related vessel from Principal |                      |                            |         |

**Work Category** : **Logistics & Warehousing**  
**21121712S** **Marine**  
**Ship**  
**Crude Oil Tanker**

Work Category's Description : The provision of crude oil tankers and personnel for transportation, storage of crude oil

Mode of Operation : Vessel Operator

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |   |                      |   |                                   |
|-------------------------------|---------------|------------|--|---|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |   |                      |   |                                   |
|                               |               |            | Ship Management office setup           | Letter of appointment from Owner to operator for each operated vessel |                      | Vessel Operator must provide follow documents:<br>1.Certificate Registry of Vessel<br>2.Document of Compliance (DOC) for above 500 Gross Tonnage<br>3.Safety Management Certificate (SMC) for above 500 Gross Tonnage |                                   |

**Work Category** : **Logistics & Warehousing**  
**21121712S** **Marine Ship Crude Oil Tanker**

Work Category's Description : The provision of crude oil tankers and personnel for transportation, storage of crude oil

Mode of Operation : Vessel Owner Operator

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            | Ship Management office setup           | 1.List of own vessel    |                      | Owner must provide follow documents:<br>1.Certificate Registry of Vessel<br>2.Document of Compliance (DOC) for above 500 Gross Tonnage<br>3.Safety Management Certificate (SMC) for above 500 Gross Tonnage |                                   |

**Work Category** : **Logistics & Warehousing**  
**21121713S** **Marine**  
**Ship**  
**Liner/Container Vessel**

Work Category's Description : The provision of Liner / Container Vessel and personnel for transportation, storage of container

Mode of Operation : Vessel Operator

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |   |                      |   |                                   |
|-------------------------------|---------------|------------|--|---|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |   |                      |   |                                   |
|                               |               |            | Ship Management office setup           | Letter of appointment from Owner to operator for each operated vessel |                      | Vessel Operator must provide follow documents:<br>1.Certificate Registry of Vessel<br>2.Document of Compliance (DOC) for above 500 Gross Tonnage<br>3.Safety Management Certificate (SMC) for above 500 Gross Tonnage |                                   |

**Work Category** : **Logistics & Warehousing**  
**21121713S** **Marine**  
**Ship**  
**Liner/Container Vessel**

Work Category's Description : The provision of Liner / Container Vessel and personnel for transportation, storage of container

Mode of Operation : Vessel Owner Operator

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            | Ship Management office setup           | 1.List of own vessel    |                      | Owner must provide follow documents:<br>1.Certificate Registry of Vessel<br>2.Document of Compliance (DOC) for above 500 Gross Tonnage<br>3.Safety Management Certificate (SMC) for above 500 Gross Tonnage |                                   |

**Work Category** : **Logistics & Warehousing**  
**21121714S** **Marine**  
**Ship**  
**LNG Tankers**

Work Category's Description : The provision of LNG tankers and personnel for transportation, storage of LNG products

Mode of Operation : Vessel Operator

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |   |                      |   |                                   |
|-------------------------------|---------------|------------|--|---|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |   |                      |   |                                   |
|                               |               |            | Ship Management office setup           | Letter of appointment from Owner to operator for each operated vessel |                      | Vessel Operator must provide follow documents:<br>1.Certificate Registry of Vessel<br>2.Document of Compliance (DOC) for above 500 Gross Tonnage<br>3.Safety Management Certificate (SMC) for above 500 Gross Tonnage |                                   |



**Work Category** : **Logistics & Warehousing**  
**21121714S** **Marine**  
**Ship**  
**LNG Tankers**

Work Category's Description : The provision of LNG tankers and personnel for transportation, storage of LNG products

Mode of Operation : Vessel Owner Operator

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            | Ship Management office setup           | 1.List of own vessel    |                      | Owner must provide follow documents:<br>1.Certificate Registry of Vessel<br>2.Document of Compliance (DOC) for above 500 Gross Tonnage<br>3.Safety Management Certificate (SMC) for above 500 Gross Tonnage |                                   |

**Work Category** : **Logistics & Warehousing**  
**21121715S** **Marine**  
**Ship**  
**LPG Tankers**

Work Category's Description : The provision of LPG tankers and personnel for transportation, storage of LPG products

Mode of Operation : Vessel Operator

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |   |                      |   |                                   |
|-------------------------------|---------------|------------|--|---|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |   |                      |   |                                   |
|                               |               |            | Ship Management office setup           | Letter of appointment from Owner to operator for each operated vessel |                      | Vessel Operator must provide follow documents:<br>1.Certificate Registry of Vessel<br>2.Document of Compliance (DOC) for above 500 Gross Tonnage<br>3.Safety Management Certificate (SMC) for above 500 Gross Tonnage |                                   |

**Work Category** : **Logistics & Warehousing**  
**21121715S** **Marine**  
**Ship**  
**LPG Tankers**

Work Category's Description : The provision of LPG tankers and personnel for transportation, storage of LPG products

Mode of Operation : Vessel Owner Operator

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            | Ship Management office setup           | 1.List of own vessel    |                      | Owner must provide follow documents:<br>1.Certificate Registry of Vessel<br>2.Document of Compliance (DOC) for above 500 Gross Tonnage<br>3.Safety Management Certificate (SMC) for above 500 Gross Tonnage |                                   |

**Work Category** : **Logistics & Warehousing**  
**21121716S** **Marine**  
**Petroleum Product Tankers**

Work Category's Description : The provision of Petroleum Product tankers and personnel for transportation, storage of Petroleum Product

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |                              |   |                      |                            |         |
|-------------------------------|---------------|------------|------------------------------|---|----------------------|----------------------------|---------|
| Key Personnel                 |               |            | Facilities                   | Equipment   | Company's Experience | External Body Registration | Quality |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard     | E.g. Tools  |                      |                            |         |
|                               |               |            | Ship Management office setup | 1. One valid exclusive appointment letter from Principal for one year<br>2. List of related vessel from Principal |                      |                            |         |

**Work Category** : **Logistics & Warehousing**  
**21121716S** **Marine**  
**Petroleum Product Tankers**

Work Category's Description : The provision of Petroleum Product tankers and personnel for transportation, storage of Petroleum Product

Mode of Operation : Vessel Operator

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |   |                      |   |                                   |
|-------------------------------|---------------|------------|--|---|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |   |                      |   |                                   |
|                               |               |            | Ship Management office setup           | Letter of appointment from Owner to operator for each operated vessel |                      | Vessel Operator must provide follow documents:<br>1.Certificate Registry of Vessel<br>2.Document of Compliance (DOC) for above 500 Gross Tonnage<br>3.Safety Management Certificate (SMC) for above 500 Gross Tonnage |                                   |

**Work Category** : **Logistics & Warehousing**  
**21121716S** **Marine**  
**Petroleum Product Tankers**

Work Category's Description : The provision of Petroleum Product tankers and personnel for transportation, storage of Petroleum Product

Mode of Operation : Vessel Owner Operator

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            | Ship Management office setup           | 1.List of own vessel    |                      | Owner must provide follow documents:<br>1.Certificate Registry of Vessel<br>2.Document of Compliance (DOC) for above 500 Gross Tonnage<br>3.Safety Management Certificate (SMC) for above 500 Gross Tonnage |                                   |

**Work Category** : **21131400P** **Logistics & Warehousing**  
**Storage & Packing**  
**Form Filled Seal & Hoods**

Work Category's Description : To design, supply and deliver form filled seal & hoods (i.e. shrink hoods, stretch hoods and cover hoods)

Mode of Operation : Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |   |   |            |                      |   |                        |
|-------------------------------|---|---|---|------------|----------------------|---|------------------------|
| Key Personnel                 |   |   | Facilities  | Equipment  | Company's Experience | External Body Registration  | Quality                |
| Designation                   | Qualification   | Experience  | E.g. Warehouse, Dockyard                                    | E.g. Tools |                      | E.g. CIDB, DOSH   | E.g. ISO, API Standard |
| Production Manager            | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 5 years experience in polymer / plastic application industry<br>Or<br>Minimum 7 years in polymer / plastic application industry | 1. Office Building<br>2. Production Line / Processing Plant |            |                      | 1. Business License from local authority<br>2. Member of Malaysian Plastic Manufacturer Association |                        |
| Technical Manager             | Degree in Chemical Engineering / Chemistry                                | Minimum 5 years experience in polymer / plastic application industry  |   |            |                      |   |                        |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC  |   |            |                      |   |                        |

**Work Category** : **Logistics & Warehousing**  
**Warehouse & Supply Base Equipment and Services**  
**Supply Base**  
**Supply Base Leasing/Rental**  
**21141110S**

Work Category's Description : Lease or rental of supply base for warehouse, storage, office.

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |  |  |   |   |                      |  |                        |
|-------------------------------|--|--|---|---|----------------------|--|------------------------|
| Key Personnel                 |  |  | Facilities  | Equipment   | Company's Experience | External Body Registration   | Quality                |
| Designation                   | Qualification  | Experience                             | E.g. Warehouse, Dockyard  | E.g. Tools  |                      | E.g. CIDB, DOSH  | E.g. ISO, API Standard |
| General Manager - Operations  | Degree in any discipline                                   | 10 years experiences in port operation | 1) Adequate land facing sea-front<br>2) Berthing with minimum of following facilities:<br>i) Fuel bunkering<br>ii) Water supply<br>iii) Food cargo handling<br>iv) Open space for transit | 1) Mechanical handling equipment<br>2) Cargo handling equipment |                      | 1) Approved Supply Base License from Ministry of Finance<br>2) Approved bonded area for Oil & Gas from Royal Malaysian Customs |                        |
| Operations Manager            | Degree in any discipline                                   | 5 years experiences in port operation  |   |   |                      |  |                        |
| Technical Manager             | Diploma in any discipline                                  | 5 years experiences in port operation  |   |   |                      |  |                        |
| HSE Manager                   | Degree in any discipline                                   | 3 years experience in port operation   |   |   |                      |  |                        |
| Security Manager              | Diploma in any discipline or equivalent or ex-armed forces | 2 years experience in port operation   |   |   |                      |  |                        |



**Work Category** : **Logistics & Warehousing**  
**Land**  
**21111010S** **Cargo Transport & Freight Forwarding Services**  
**Air Cargo Transport**

**Work Category's Description** : The provision of manpower, equipment, facilities and services for Air Cargo Transport

**Mode of Operation** : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |  |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|--|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration   | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH  | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | "Lesen Pembawa A" by LPKP-Lembaga Pelesenan Kendaraan Perdagangan (under the company's name) |                        |

**Work Category** : **Logistics & Warehousing**  
**Land**  
**21111011S** **Cargo Transport & Freight Forwarding Services**  
**Freight Forwarding Services**

**Work Category's Description** : The provision of freight forwarding services related to facilitate product delivery process such as but not limited to preparation of documents for customs declaration, customs clearance inclusion of pallet fumigation for both upstream and downstream

**Mode of Operation** : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |  |         |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|--|---------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration   | Quality |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      |  |         |
|                               |               |            |                          |            |                      | Royal Malaysian Customs Department – "Surat Kelulusan menjadi Agen Penghantaran" |         |

**Work Category** : **21111012S** **Logistics & Warehousing**  
**Land**  
**Cargo Transport & Freight Forwarding Services**  
**Marine Cargo Transport**

Work Category's Description : The provision of manpower, equipment, facilities and services for Marine Cargo Transport

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |  |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|--|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration   | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH  | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | "Lesen Pembawa A" by LPKP-Lembaga Pelesenan Kendaraan Perdagangan (under the company's name) |                        |

**Work Category** : **Logistics & Warehousing**  
**Land**  
**Land Transportation**  
**Passenger Vehicle**  
**21111111S**

Work Category's Description : The provision of Passenger Vehicle Services using bus, van and car

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |  |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|--|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration   | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH  | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | Ministry of Tourism Malaysia<br>- "Lesen Perniagaan Pengendalian Pelancongan Dalam Negeri" |                        |

**Work Category** : **Logistics & Warehousing**  
**21121218S** **Marine**  
**Marine Operations Services**  
**Service/Repair of Fire Detection System**

Work Category's Description : The provision of Service/Repair of Fire Detection System

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |                                      |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|--------------------------------------|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration           | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH                      | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | Fire Watch Permit from Jabatan Bomba |                        |

**Work Category** : **Logistics & Warehousing**  
**21121410S** **Marine**  
**Marine Services**  
**Lashing, Mooring/Unmooring & Liftings**

Work Category's Description : The provision of manpower and equipment for Lashing, Mooring/Unmooring & Liftings

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |                                     |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|-------------------------------------|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration          | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH                     | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | Registration With Lembaga Pelabuhan |                        |

**Work Category** : **Logistics & Warehousing**  
**21121411S** **Marine**  
**Marine Services**  
**Precool, Repairing Internal Machinery**

Work Category's Description : The provision of manpower and equipment for Precool & Repairing Internal Machinery

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |                                     |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|-------------------------------------|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration          | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH                     | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | Registration With Lembaga Pelabuhan |                        |

**Work Category** : **Logistics & Warehousing**  
**21121412S** **Marine**  
**Marine Services**  
**Stuffing & Unstuffing of Containers**

Work Category's Description : The provision of manpower and equipment for Stuffing & Unstuffing of Containers

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |                                     |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|-------------------------------------|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration          | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH                     | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | Registration With Lembaga Pelabuhan |                        |



**Work Category** : **Logistics & Warehousing**  
**Marine**  
**Marine Services**  
**21121413S** **Washing, Repair and Supply Parts & Equipment**

Work Category's Description : The provision of manpower and equipment for Washing, Repair and Supply Parts & Equipment for marine

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |                                     |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|-------------------------------------|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration          | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH                     | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | Registration With Lembaga Pelabuhan |                        |

**Work Category** : **21121516S** **Logistics & Warehousing**  
**Marine**  
**Marine Transportation**  
**Passenger Ferry**

Work Category's Description : The provision of passenger ferry including personnel to provide personnel transportation from base to/from onshore operation. Normally use in riverine activities

Mode of Operation : Vessel owner-operator

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |                            |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|----------------------------|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH            | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | River Board Authority      |                        |

**Work Category** : **21121516S** **Logistics & Warehousing**  
**Marine**  
**Marine Transportation**  
**Passenger Ferry**

Work Category's Description : The provision of passenger ferry including personnel to provide personnel transportation from base to/from onshore operation. Normally use in riverine activities

Mode of Operation : Vessel operator

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |                            |         |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|----------------------------|---------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration | Quality |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      |                            |         |
|                               |               |            |                          |            |                      | River Board Authority      |         |

**Work Category** : **Logistics & Warehousing**  
**Marine**  
**Ship**  
**Ro-Ro/Car Carrier**

21121717S

Work Category's Description : The provision of Roll-on/roll-off ships or Car Carrier including personnel to transport vehicle such as but not limited to cars and trucks

Mode of Operation : Vessel owner-operator

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |  |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|--|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration   | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH  | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | 1. Certificate - Registry of vessel<br>2. Master of Foreign Going/Master Mariner Class 1 |                        |

**Work Category** : **Logistics & Warehousing**  
**21121717S** **Marine**  
**Ship**  
**Ro-Ro/Car Carrier**

Work Category's Description : The provision of Roll-on/roll-off ships or Car Carrier including personnel to transport vehicle such as but not limited to cars and trucks

Mode of Operation : Vessel operator

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |  |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|--|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration   | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH  | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | 1. Certificate - Registry of vessel<br>2. Master of Foreign Going/Master Mariner Class 1 |                        |

**Work Category** : **Logistics & Warehousing**  
**21121910S** **Marine**  
**Shipping Agency Services**  
**Clearance of Vessel-Crew Changes for Clearance of Vessel**

Work Category's Description : The provision of personnel for shipping agency services for Clearance of Vessel - Crew Changes for Clearance of Vessel

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |   |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|---|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration                          | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH                                     | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | Approval from Jabatan Kastam Eksais Diraja Malaysia |                        |

**Work Category** : **Logistics & Warehousing**  
**21121911S** **Marine**  
**Shipping Agency Services**  
**Clearance of Vessel-Immigration Clearance**

Work Category's Description : The provision of personnel for shipping agency services for Clearance of Vessel - Immigration Clearance

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |   |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|---|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration                          | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH                                     | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | Approval from Jabatan Kastam Eksais Diraja Malaysia |                        |

**Work Category** : **Logistics & Warehousing**  
**21121912S** **Marine**  
**Shipping Agency Services**  
**Customs Clearance-Issuance of Port Clearance**

Work Category's Description : The provision of personnel for shipping agency services for Customs Clearance - Issuance of Port Clearance

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |   |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|---|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration                          | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH                                     | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | Approval from Jabatan Kastam Eksais Diraja Malaysia |                        |



**Work Category** : **Logistics & Warehousing**  
**21121913S** **Marine**  
**Shipping Agency Services**  
**Customs Clearance-Sealing of Vessel Bonded Stores**

Work Category's Description : The provision of personnel for shipping agency services for Customs Clearance - Sealing of Vessel Bonded Stores

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |   |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|---|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration                          | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH                                     | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | Approval from Jabatan Kastam Eksais Diraja Malaysia |                        |

**Work Category :** Logistics & Warehousing  
 Marine  
 Shipping Agency Services  
 Harbour Master Clearance-Crew Changes for Harbour Master Clearance  
**21121914S**

**Work Category's Description :** The provision of personnel for shipping agency services for Harbour Master Clearance - Crew Changes for Harbour Master Clearance

**Mode of Operation :** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH       | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            |  |                         |                      | Approval from Jabatan Kastam Eksais Diraja Malaysia |                                   |

**Work Category** : **Logistics & Warehousing**  
**21121915S** **Marine**  
**Shipping Agency Services**  
**Master Cash Advance**

Work Category's Description : The provision of personnel for shipping agency services for Master Cash Advance

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |   |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|---|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration                          | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH                                     | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | Approval from Jabatan Kastam Eksais Diraja Malaysia |                        |

**Work Category** : **Logistics & Warehousing**  
**21121917S** **Marine**  
**Shipping Agency Services**  
**Port Health Clearance - Deratting Certification**

Work Category's Description : The provision of personnel for shipping agency services for Port Health Clearance - Deratting Certification

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |   |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|---|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration                          | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH                                     | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | Approval from Jabatan Kastam Eksais Diraja Malaysia |                        |

**Work Category** : **Logistics & Warehousing**  
**21121918S** **Marine**  
**Shipping Agency Services**  
**Port Health Clearance - Vessel Status**

Work Category's Description : The provision of personnel for shipping agency services for Port Health Clearance - Vessel Status

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |   |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|---|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration                          | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH                                     | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | Approval from Jabatan Kastam Eksais Diraja Malaysia |                        |

**Work Category** : **21121919S** **Logistics & Warehousing**  
**Marine**  
**Shipping Agency Services**  
**Terminal - Port Costs**

Work Category's Description : The provision of personnel for shipping agency services for Terminal - Port Costs

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |   |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|---|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration                          | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH                                     | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | Approval from Jabatan Kastam Eksais Diraja Malaysia |                        |

**Work Category** : **Logistics & Warehousing**  
**Marine**  
**Shipping Agency Services**  
**Terminal - Request Berthing Prospects**

21121920S

Work Category's Description : The provision of personnel for shipping agency services for Terminal - Request Berthing Prospects

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |   |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|---|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration                          | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH                                     | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | Approval from Jabatan Kastam Eksais Diraja Malaysia |                        |

**Work Category** : **Logistics & Warehousing**  
**21121921S** **Marine**  
**Shipping Agency Services**  
**Terminal - Vessel Performance**

Work Category's Description : The provision of personnel for shipping agency services for Terminal - Vessel Performance

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |   |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|---|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration                          | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH                                     | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | Approval from Jabatan Kastam Eksais Diraja Malaysia |                        |



**Work Category** : **Logistics & Warehousing**  
**Marine**  
**Shipping Agency Services**  
**21121922S** **Victualling - Bonded Stores Supply to Vessel**

Work Category's Description : The provision of personnel for shipping agency services for Victualling - Bonded Stores Supply to Vessel

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |   |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|---|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration                          | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH                                     | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | Approval from Jabatan Kastam Eksais Diraja Malaysia |                        |

**Work Category** : **Logistics & Warehousing**  
**Marine**  
**Shipping Agency Services**  
**21121923S** **Victualling - Provision Supply to Vessel**

Work Category's Description : The provision of personnel for shipping agency services for Victualling - Provision Supply to Vessel

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |   |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|---|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration                          | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH                                     | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | Approval from Jabatan Kastam Eksais Diraja Malaysia |                        |

**Work Category** : **21131700P** **Logistics & Warehousing**  
**Storage & Packing**  
**Paper Bags**

Work Category's Description : To design, supply and deliver paper bags

Mode of Operation : Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |                                       |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|---------------------------------------|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration            | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH                       | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | Business License from Local Authority |                        |

**Work Category** : **21131800P** **Logistics & Warehousing**  
**Storage & Packing**  
**Woven Bags**

Work Category's Description : To design, supply and deliver woven bags

Mode of Operation : Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |                                       |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|---------------------------------------|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration            | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH                       | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | Business License from Local Authority |                        |

**Work Category** : **Logistics & Warehousing**  
**21121627S** **Marine**  
**Marine/Ship Repairs & Maintenance**  
**General Shiprepairs - Mechanical**

Work Category's Description : The provision of personnel and equipment to carry out general ship repairs

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |                            |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|----------------------------|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH            | E.g. ISO, API Standard |
|                               |               |            | Workshop                 |            |                      |                            |                        |

**Work Category :** Marketing, Advertising & Public Relation  
 Audio/Visual  
 22111000S Audio/Visual Aid Program Production & Equipment

**Work Category's Description :** The provision of audio/visual aid program production and related services such as but not limited to video montage, filming and rental of audio/visual equipment

**Mode of Operation :** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |                      |   |                                   |
|-------------------------------|---------------|------------|---|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |                      |   |                                   |
|                               |               |            |   |                         |                      | 1. CIDB - E01 - for large audio video set up<br>2. If Video Prod/Documentary Film, must have FINAS & KDN licence in installation of equipments as permanent structure |                                   |

**Work Category** : **Material Corrosion Equipment & Services and Inspection Services**  
**Coating Services**  
**23101000S** **Corrosion Prevention of bolt, nut & flanges using composite compound**

Work Category's Description : The provision of labour, materials, consumables, equipments and facilities necessary for corrosion prevention of bolt, nut and flanges using composite compound

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |  |  |                          |  |                      |                            |         |
|-------------------------------|--|--|--------------------------|--|----------------------|----------------------------|---------|
| Key Personnel                 |  |  | Facilities               | Equipment  | Company's Experience | External Body Registration | Quality |
| Designation                   | Qualification  | Experience   | E.g. Warehouse, Dockyard | E.g. Tools                                       |                      |                            |         |
| Supervisor                    | Diploma in Engineering or relevant field<br><br>Or<br>Certificate in related field | 3 years experience in corrosion prevention<br><br>5 years experience in corrosion prevention | Proper office setup      | 1. Personal hand tool<br>2. Applicable equipment |                      |                            |         |

**Work Category :** Material Corrosion Equipment & Services and Inspection Services  
 Coating Services  
 23101100S Hydroblasting

**Work Category's Description :** The provision of labour, materials, consumables, equipments and facilities necessary for hydroblasting for piping, structure and plant equipment

**Mode of Operation :** Self Operated

| MINIMUM TECHNICAL REQUIREMENT |  |  |   |   |                      |  |   |
|-------------------------------|--|--|---|---|----------------------|--|---|
| Key Personnel                 |  |  | Facilities<br>E.g. Warehouse, Dockyard            | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard                                     |
| Designation                   | Qualification  | Experience   |   |   |                      |  |   |
| Supervisor                    | Diploma in Engineering or relevant field<br><br>Or<br>Certificate in related field | 3 years experience in hydroblasting<br><br>5 years experience in hydroblasting | 1. Proper office setup<br>2. Operational workshop | Hydroblasting equipment<br><br>*Company to provide the list of equipment, quantity, owned/ rent, owner (if rented). |                      | IMM (Institute of Material Malaysia) certification or equivalent (e.g. NACE, TWI, etc) for blaster | 1. Surface preparation procedure<br>2. Hydroblasting safety procedure |
| Quality Controller            | Certificate in related field   | 3 years experience in quality assurance and quality control in hydroblasting   |   |   |                      |  |   |



**Work Category :** Material Corrosion Equipment & Services and Inspection Services  
 Coating Services  
 23101200S Special Coating/Wrapping

**Work Category's Description :** The provision of labour, materials, consumables, equipments and facilities necessary for special coating (ceramic, rubber lining, glass flake, fibre glass, chrome coating, fire proofing, etc) for piping, structure and plant equipment

**Mode of Operation :** Self Operated

| MINIMUM TECHNICAL REQUIREMENT |  |  |   |  |                      |  |   |
|-------------------------------|--|--|---|--|----------------------|--|---|
| Key Personnel                 |  |  | Facilities<br>E.g. Warehouse, Dockyard            | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard                     |
| Designation                   | Qualification  | Experience   |   |  |                      |  |   |
| Supervisor                    | Diploma in Engineering or relevant field<br><br>Or<br>Certificate in related field | 3 years experience in special coating/wrapping<br><br>5 years experience in special coating/wrapping | 1. Proper office setup<br>2. Operational workshop | Air compressor, power tools, coating equipment, surface tester<br><br>*Company to provide the list of equipment, quantity, owned/ rent, owner (if rented). |                      | IMM (Institute of Material Malaysia) certification or equivalent (e.g. NACE, TWI, etc) for blaster | 1. Surface preparation and coating/wrapping procedure |
| Quality Controller            | Certificate in related field   | 3 years experience in quality assurance and quality control in special coating/wrapping              |   |  |                      |  |   |

**Work Category :** **Material Corrosion Equipment & Services and Inspection Services**  
**23101300S** **Coating Services**  
**Surface Preparation, Painting & Coating**

**Work Category's Description :** The provision of labour, materials, consumables, equipments and facilities necessary for gritblasting surface preparation, painting and coating for piping, structure and plant equipment

**Mode of Operation :** Self Operated

| MINIMUM TECHNICAL REQUIREMENT |  |   |   |   |                      |  |  |
|-------------------------------|--|---|---|---|----------------------|--|--|
| Key Personnel                 |  |   | Facilities<br>E.g. Warehouse, Dockyard            | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification  | Experience  |   |   |                      |  |  |
| Supervisor                    | Diploma in Engineering or relevant field<br><br>Or<br><br>Certificate in related field | 3 years experience surface preparation, painting and coating<br><br>5 years experience in surface preparation, painting and coating | 1. Proper office setup<br>2. Operational workshop | Air compressor, blasting and painting equipment, surface tester, humidity tester, DFT tester, holiday tester, Chloride Tester<br><br>*Company to provide the list of equipment, quantity, owned/ rent, owner (if rented). |                      | IMM (Institute of Material Malaysia) certification or equivalent (e.g. NACE, TWI, etc) for blaster and painter | 1. Surface preparation and painting procedure<br>2. Blasting and painting safety procedure |
| Quality Controller            | Certificate in related field   | 3 years experience in quality assurance and quality control in blasting and coating   |   |   |                      |  |  |

**Work Category :** Material Corrosion Equipment & Services and Inspection Services  
 Corrosion Control & Monitoring Services  
 23111000S Cathodic Protection (CP)

**Work Category's Description :** The provision of manpower, equipment, consumables and safety gears for Cathodic Protection services such as but not limited to CP Design & Installation Services, CP Maintenance Services and CP Survey such as but not limited to Specialized CP Survey (e.g. Direct Current Voltage Gradient (DCVG), Close Interval Potential Survey (CIPS), etc.) and CP Potential Survey (e.g. Insulating Flanges Testing (IF), Test Point, etc.)

**Mode of Operation :** Self Operated

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |   |                      |   |                                   |
|-------------------------------|---|--|--|---|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities   | Equipment   | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   | E.g. Warehouse, Dockyard                           | E.g. Tools  |                      |   |                                   |
| Project Manager               | Degree in Engineering or Science  | Minimum 7 years experience in managing projects, procurement and etc   | 1.Manned and permanent office setup<br>2. Workshop | CP related software e.g. design software, calibration and analytical tools and software |                      |   | NACE standards                    |
| Engineer/Design Engineer      | Degree in Engineering or Science And Certification Corrosion related from National Association Corrosion Engineers (NACE) or other recognized body (e.g. The Welding Institute (TWI), Institute of Materials Malaysia (IMM), etc) | Minimum 5 years experience in Cathodic Protection design/Cathodic Protection Maintenance/Cathodic Protection specialized Survey/Cathodic Protection potential survey |  |   |                      |   |                                   |

**Work Category :** **Material Corrosion Equipment & Services and Inspection Services**  
**23111100S** **Corrosion Control & Monitoring Services**  
**Corrosion Monitoring Services**

**Work Category's Description :** The provision of manpower, equipment, consumables and safety gears for corrosion monitoring services (including corrosion coupon, electrical resistance probe and linear polarization resistance probe)

**Mode of Operation :** Self Operated

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |  |                      |  |                                   |
|-------------------------------|---|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard            | Equipment<br>E.g. Tools                | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience                                 |   |  |                      |  |                                   |
| Field Engineer                | Degree in any engineering or science<br>And<br>NACE Basic Corrosion Certification | 3 years experience in corrosion monitoring | 1.Manned and permanent office setup<br>2.Workshop | Coupon retrieval tools and accessories |                      |  |                                   |
| Corrosion Engineer            | Degree in any engineering or science  | 3 years experience in corrosion monitoring |   |  |                      |  |                                   |

**Work Category** : **Material Corrosion Equipment & Services and Inspection Services**  
**23121100S** **Corrosion Protection Services**  
**Pressure Containment**

Work Category's Description : The provision of labour, materials, consumables, equipments and facilities necessary for repair services for pressure containment such as but not limited to Composite pipe repair, diamond wrap, clock spring and armour plate

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                                  |   |   |                         |                      |  |                                   |
|-------------------------------|----------------------------------|---|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |                                  |   | Facilities<br>E.g. Warehouse, Dockyard            | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                    | Experience  |   |                         |                      |  |                                   |
| Engineer                      | Degree in Engineering or Science | Minimum 3 years experience in industrial wrapping | 1.Manned and permanent office setup<br>2.Workshop | Wrapping tools and kits |                      |  |                                   |

**Work Category :** Material Corrosion Equipment & Services and Inspection Services  
**23121200S** Corrosion Protection Services  
 Surface Preparation & Painting

**Work Category's Description :** The provision of manpower, services, equipment, materials and facilities for Onshore Fabrication - Surface Preparation and Painting

**Mode of Operation :** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |  |  |   |   |                      |  |  |
|-------------------------------|--|--|---|---|----------------------|--|--|
| Key Personnel                 |  |  | Facilities<br>E.g. Warehouse, Dockyard            | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                           | Quality<br>E.g. ISO, API Standard          |
| Designation                   | Qualification  | Experience   |   |   |                      |  |  |
| Manager                       | Diploma in Engineering or relevant field<br>Or<br>Diploma in related field | 3 years experience surface preparation, painting and coating<br>Or<br>7 years experience in surface preparation, painting and coating<br>Or<br>3 years experience in quality assurance and quality control in blasting and coating | 1. Proper office setup<br>2. Operational workshop | Air compressor, blasting and painting equipment, surface tester, humidity tester, DFT tester, holiday tester.<br><br>*Company to provide the list of equipment, quantity, owned/ rent, owner (if rented). |                      | IMM (Institute of Material Malaysia) certification for blaster and painter | Surface preparation and painting procedure |
| Quality Control/Supervisor    | Certificate in related field   | 3 years experience in quality assurance and quality control in blasting and coating  |   |   |                      |  |  |

**Work Category :** 23130000S **Material Corrosion Equipment & Services and Inspection Services**  
**Destructive Testing/Failure Analysis**

**Work Category's Description :** The provision of manpower, equipment, consumables and safety gears for Failure Analysis including In-situ Metallography/ Replica, Scoop sampling, lab analysis, mechanical testing and corrosion testing

**Mode of Operation :** Self Operated

| MINIMUM TECHNICAL REQUIREMENT |  |  |  |  |                      |  |   |
|-------------------------------|--|--|--|--|----------------------|--|---|
| Key Personnel                 |  |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard   |
| Designation                   | Qualification  | Experience   |  |  |                      |  |   |
| Engineer                      | Degree in Engineering or Science                         | Minimum 2 years experience in materials testing and failure investigation work | 1.Manned and permanent office setup<br>2.Operational laboratory for basic failure analysis.<br>3.Access to mechanical & corrosion testing laboratory | Laboratory equipment used to conduct sample analysis (e.g. Micro structure, mechanical and chemical) |                      |  | 1.Lab testing Accredited to Skim Akreditasi Makmal Malaysia (SAM) or equivalent |
| Technician                    | Diploma or Certificate (Sijil) in Engineering or Science | Minimum 2 years experience in materials testing and failure investigation work |  |  |                      |  |   |

**Work Category** : **Material Corrosion Equipment & Services and Inspection Services**  
**23141300S** **Equipment Inspection Services**  
**Offshore Cranes Inspection**

Work Category's Description : The provision of manpower, equipment and safety gears for offshore crane inspection, load test and certification

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                   |   |  |   |                      |  |                                   |
|-------------------------------|-------------------|---|--|---|----------------------|--|-----------------------------------|
| Key Personnel                 |                   |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification     | Experience  |  |   |                      |  |                                   |
| Crane Surveyor                | SPM or equivalent | 3 years experience in offshore crane inspection and certified by Crane Manufacturer | Manned and permanent office setup      | Inspection tools, load testing equipment, load cell and accessories |                      |  |                                   |



**Work Category** : **Material Corrosion Equipment & Services and Inspection Services**  
**23171000S** **Non Destructive Test (NDT) Services**  
**Acoustic Based Inspection**

**Work Category's Description** : The provision of manpower, equipment, consumables, facilities and safety gears to conduct Acoustic Based Inspection such as but not limited to Acoustic Resonance, Acoustic Emission and Sand monitoring

**Mode of Operation** : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |   |                      |  |                                   |
|-------------------------------|---|--|--|---|----------------------|--|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools                     | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |  |   |                      |  |                                   |
| Engineer                      | Degree in Engineering or Science And ASNT Central Certification Program - Level 2 (Acoustic Emission) | Minimum 3 years experience in Acoustic Emission inspection | Manned and permanent office setup.     | Acoustic Emission equipment and accessories |                      |  |                                   |
| Operator                      | SPM or equivalent And ASNT Central Certification Program - Level 1 (Acoustic Emission)                | Minimum 1 years experience in Acoustic Emission inspection |  |   |                      |  |                                   |

**Work Category** : **Material Corrosion Equipment & Services and Inspection Services**  
**23171100S** **Non Destructive Test (NDT) Services**  
**Acoustic Pulse Reflectometry (APR)**

Work Category's Description : The provision of manpower, equipment, consumables and safety gears for Acoustic Pulse Reflectometry (APR)

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |  |                      |  |                                   |
|-------------------------------|---|--|--|--|----------------------|--|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |  |  |                      |  |                                   |
| Mechanical Engineer           | Degree in Mechanical Engineering  | 3 years experience in heat exchanger / condenser / boiler cleaning & maintenance   | Proper office setup                    | 1.Acoustic Eye Dolphin G1 or G3 Inspection System and Software<br>2.Pneumatic Tube/ Pipe Cleaner |                      | AELB (Atomic Energy Licensing Board) / LPTA      |                                   |
| Supervisor/ Technician        | Certificate/ Diploma in Mechanical or Electrical & Electronic Engineering | Attended formal training by the tools manufacturer and 2 years experience in inspection using Acoustic Eye Inspection System |  |  |                      |  |                                   |

**Work Category** : **Material Corrosion Equipment & Services and Inspection Services**  
**23171300S** **Non Destructive Test (NDT) Services**  
**Caisson Scanning**

Work Category's Description : Provision of manpower, equipment, consumables, facilities and safety gears to conduct Caisson Scanning

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |                                  |   |  |  |   |  |                                   |
|-------------------------------|----------------------------------|---|--|--|---|--|-----------------------------------|
| Key Personnel                 |                                  |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                    | Experience  |  |  |   |  |                                   |
| Field Engineer                | Degree in Engineering or Science | Minimum 3 years experience in Inspection services | Manned and permanent office setup      | 1. Caisson Inspection tools and accessories<br>2. Data logger software | Principal to have minimum 5 years proven track records in Caisson Inspection by carrying out Advanced NDT and camera inspection |  |                                   |

**Work Category** : **Material Corrosion Equipment & Services and Inspection Services**  
**23171300S** **Non Destructive Test (NDT) Services**  
**Caisson Scanning**

Work Category's Description : Provision of manpower, equipment, consumables, facilities and safety gears to conduct Caisson Scanning

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |  |  |  |  |                      |  |                                   |
|-------------------------------|--|--|--|--|----------------------|--|-----------------------------------|
| Key Personnel                 |  |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification  | Experience   |  |  |                      |  |                                   |
| Project Manager               | Degree in Engineering or Science   | Minimum 5 years experience in managing projects, procurement and etc | Manned and permanent office setup      | 1. Caisson Inspection tools and accessories<br>2. Data logger software |                      |  |                                   |
| Field Engineer                | Degree or equivalent<br>And<br>ASNT / PCN / CSWIP Level II in Ultrasonic Testing | 3 years experience in Caisson Inspection Internally or Externally    |  |  |                      |  |                                   |

**Work Category :** **Material Corrosion Equipment & Services and Inspection Services**  
**23171400S** **Non Destructive Test (NDT) Services**  
**Column Scanning**

**Work Category's Description :** The provision of manpower, equipment, consumables, facilities and safety gears to conduct Column Scanning such as but not limited to Neutron Back Scattered scanning and Gamma Scanning

**Mode of Operation :** Self Operated

| MINIMUM TECHNICAL REQUIREMENT |   |  |                                   |   |                      |   |                                      |
|-------------------------------|---|--|-----------------------------------|---|----------------------|---|--------------------------------------|
| Key Personnel                 |   |  | Facilities                        | Equipment   | Company's Experience | External Body Registration                  | Quality                              |
| Designation                   | Qualification   | Experience   | E.g. Warehouse, Dockyard          | E.g. Tools  |                      | E.g. CIDB, DOSH                             | E.g. ISO, API Standard               |
| Engineer                      | Degree in engineering or science  | Minimum 3 years experience in Column Scanning Interpretation   | Manned and permanent office setup | 1.Radiation source (gamma or neutron)<br>2.Data logger Software |                      | AELB (Atomic Energy Licensing Board) / LPTA | 1.Radiation Safety Management System |
| Radiation Protection Officer  | Valid license from LPTA   | 3 years experience in Radiographic testing   |                                   |   |                      |   |                                      |
| Radiographer                  | Jabatan Pembangunan Kemahiran (JPK) Level 2 Or International Certification (PCN, ASNT, CSWIP) | 1.Minimum 3 years experience in Radiography Testing<br>2.Trained and certified to operate the specific equipment |                                   |   |                      |   |                                      |
| Assistant Radiographer        | Jabatan Pembangunan Kemahiran (JPK) Level 1 Or International Certification (PCN, ASNT, CSWIP) | 1.Minimum 1 years experience in Radiography Testing<br>2.Trained and certified to operate the specific equipment |                                   |   |                      |   |                                      |

**Work Category** : **Material Corrosion Equipment & Services and Inspection Services**  
**23171900S** **Non Destructive Test (NDT) Services**  
**Phonon Diagnostic Technology**

Work Category's Description : The provision of manpower, equipment, consumables, facilities and safety gears to conduct Phonon diagnostic

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |                                  |  |  |  |                      |  |                                   |
|-------------------------------|----------------------------------|--|--|--|----------------------|--|-----------------------------------|
| Key Personnel                 |                                  |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                    | Experience   |  |  |                      |  |                                   |
| Field Engineer                | Degree in Engineering or Science | 1 years experience in Phonon Diagnostic and qualified by Principal | Manned and permanent office setup      | 1.Phonon diagnostic tools and accessories<br>2.Phonon Software |                      |  |                                   |

**Work Category** : **23171900S** **Material Corrosion Equipment & Services and Inspection Services**  
**Non Destructive Test (NDT) Services**  
**Phonon Diagnostic Technology**

Work Category's Description : Provision of manpower, equipment, consumables, facilities and safety gears to conduct Phonon diagnostic

Mode of Operation : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |                                  |   |  |  |                      |  |                                   |
|-------------------------------|----------------------------------|---|--|--|----------------------|--|-----------------------------------|
| Key Personnel                 |                                  |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                    | Experience                              |  |  |                      |  |                                   |
| Field Engineer                | Degree in Engineering or Science | 1 years experience in Phonon Diagnostic | Manned and permanent office setup      | 1.Phonon diagnostic tools and accessories<br>2.Phonon Software |                      |  |                                   |

**Work Category :** **Material Corrosion Equipment & Services and Inspection Services**  
**23172100S** **Non Destructive Test (NDT) Services**  
**Radiation Testing**

**Work Category's Description :** The provision of manpower, equipment, consumables, facilities and safety gears to conduct Advanced Radiation Testing such as but not limited to Computerized Radiographic testing, SafeRad and Neutron Radiographic

**Mode of Operation :** Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                                       |  |  |   |                      |   |                                      |
|-------------------------------|---------------------------------------|--|--|---|----------------------|---|--------------------------------------|
| Key Personnel                 |                                       |  | Facilities   | Equipment   | Company's Experience | External Body Registration                  | Quality                              |
| Designation                   | Qualification                         | Experience   | E.g. Warehouse, Dockyard   | E.g. Tools  |                      | E.g. CIDB, DOSH                             | E.g. ISO, API Standard               |
| Radiation Protection Officer  | Valid license from LPTA               | 3 years experience in Radiographic testing   | 1.Manned and permanent office setup<br>2.Bomb Pit<br>3.Authorized dark room facility | Radiation source (Ir-192, Co-60, X-ray) and accessories, software for CRT |                      | AELB (Atomic Energy Licensing Board) / LPTA | 1.Radiation Safety Management System |
| Radiographer                  | JPK Level 2                           | 1.Minimum 3 years experience in Radiography Testing<br>2.Trained and certified to operate the specific equipment |  |   |                      |   |                                      |
| Assistant Radiographer        | JPK Level 1                           | 1.Minimum 1 years experience in Radiography Testing<br>2.Trained and certified to operate the specific equipment |  |   |                      |   |                                      |
| Intepreter                    | JPK Radiography Intepretation Level 2 | Minimum 3 years experience in Radiography Intepretation  |  |   |                      |   |                                      |



**Work Category** : **Material Corrosion Equipment & Services and Inspection Services**  
**23172200S** **Non Destructive Test (NDT) Services**  
**Radiotracer**

Work Category's Description : The provision of manpower, equipment, consumables, facilities and safety gears for radiotracer services

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                         |  |  |   |                      |  |                                       |
|-------------------------------|-------------------------|--|--|---|----------------------|--|---------------------------------------|
| Key Personnel                 |                         |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools                                 | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard     |
| Designation                   | Qualification           | Experience                                 |  |   |                      |  |                                       |
| Radiation Protection Officer  | Valid license from LPTA | 3 years experience in Radiographic testing | Manned and permanent office setup      | Radiation source (Ir-192, Co-60, X-ray) and accessories |                      | AELB (Atomic Energy Licensing Board) / LPTA      | 1. Radiation Safety Management System |
| Operator                      | SPM or equivalent       | 2 years experience in Radiographic testing |  |   |                      |  |                                       |

**Work Category** : **Material Corrosion Equipment & Services and Inspection Services**  
**23172300S** **Non Destructive Test (NDT) Services**  
**Tank Scanning**

Work Category's Description : The provision of manpower, equipment and safety gears for Tank Scanning such as but not limited to Tank Floor Scanning (Magnetic Flux Leakage(MFL)) and Crawler UT

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                                  |  |  |   |                      |  |                                   |
|-------------------------------|----------------------------------|--|--|---|----------------------|--|-----------------------------------|
| Key Personnel                 |                                  |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools                 | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                    | Experience   |  |   |                      |  |                                   |
| Project Manager               | Degree in any discipline         | Minimum 5 years experience in managing inspection works        | Manned and permanent office setup      | MFL machine, UT crawler and accessories |                      |  |                                   |
| Inspection Engineer           | Degree in Engineering or Science | Minimum 3 years experience in Tank Inspection                  |  |   |                      |  |                                   |
| Operator                      | SPM or equivalent                | Minimum 3 years experience in the specific tank NDT Inspection |  |   |                      |  |                                   |

**Work Category :** **Material Corrosion Equipment & Services and Inspection Services**  
**23172400S Non Destructive Test (NDT) Services**  
**Thermography**

**Work Category's Description :** The provision of manpower, equipment, consumables and safety gears for Short and Long Wave thermography

**Mode of Operation :** Self Operated

| MINIMUM TECHNICAL REQUIREMENT     |   |  |  |   |                      |  |                                   |
|-----------------------------------|---|--|--|---|----------------------|--|-----------------------------------|
| Key Personnel                     |   |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                       | Qualification   | Experience                                 |  |   |                      |  |                                   |
| Thermographer / Infrared Operator | SPM or equivalent And ITC (Infrared Training Center) Certified Thermographer level 2 Or ASNT Level 2 Or ACCP (ASNT Centre Certification Program Level 2) Or PCN (Personnel Certification for Non-Destructive Testing) / CSWIP (Certification Scheme for Welding Inspection Personnel Level 2) | Minimum 3 years experience in thermography | Manned and permanent office setup      | Owned or Rented<br><br>1. High Resolution Long wave Thermal Imager with built-in recorder and accessories<br>2. High Resolution 3.5µm short wave Gas FindIR with built-in recorder.<br><br>*Company to provide the list of equipment, quantity, owned/ rent, owner (if rented). |                      |  |                                   |
| Gas Leak Thermographer            | SPM or equivalent And ITC (Infrared Training Center) Certified Thermographer level 2  | Minimum 3 years experience in thermography |  |   |                      |  |                                   |

**Work Category :** **Material Corrosion Equipment & Services and Inspection Services**  
**23172500S Non Destructive Test (NDT) Services**  
**Tube Inspection**

**Work Category's Description :** The provision of manpower, equipment, consumables, facilities and safety gears to conduct Tube Testing such as but not limited to ECT, RFET, acoustic eyes, IRIS and MFL

**Mode of Operation :** Self Operated

| MINIMUM TECHNICAL REQUIREMENT |  |                                       |                                   |  |                      |   |                                   |
|-------------------------------|--|---------------------------------------|-----------------------------------|--|----------------------|---|-----------------------------------|
| Key Personnel                 |  |                                       | Facilities                        | Equipment  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification  | Experience                            | E.g. Warehouse, Dockyard          | E.g. Tools   |                      |   |                                   |
| Examiner Level 1              | SPM or equivalent<br>And<br>ASNT Level 1<br>Or<br>ACCP (ASNT Centre Certification Program Level 1)<br>Or<br>PCN (Personnel Certification for Non-Destructive Testing) / CSWIP (Certification Scheme for Welding Inspection Personnel Level 1)<br>Or<br>JPK (Jabatan Pembangunan Kemahiran) Level 1 | 1 year experience in Tube inspection  | Manned and permanent Office Setup | RFET, IRIS, acoustic eyes and MFL machine, Multiple Frequency Eddy Current, strip chart recorder, encoder, calibration tube, gun & pulley, and accessories |                      |   |                                   |
| Examiner Level 2              | SPM or equivalent<br>And<br>ASNT Level 2<br>Or<br>ACCP (ASNT Centre Certification Program Level 2)<br>Or<br>PCN (Personnel Certification for Non-Destructive Testing) / CSWIP (Certification Scheme for Welding Inspection Personnel Level 2)<br>Or<br>JPK (Jabatan Pembangunan Kemahiran) Level 2 | 3 years experience in Tube inspection |                                   |  |                      |   |                                   |

**Work Category :** Material Corrosion Equipment & Services and Inspection Services  
**23172600S** Non Destructive Test (NDT) Services  
 Ultrasonic Testing

**Work Category's Description :** The provision of manpower, equipment, consumables, facilities and safety gears to conduct Advanced Ultrasonic Testing such as but not limited to PAUT, LRUT, Guided Wave and TOFD

**Mode of Operation :** Self Operated

| MINIMUM TECHNICAL REQUIREMENT |   |   |                                      |                                    |                      |   |                                   |
|-------------------------------|---|---|--------------------------------------|------------------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |   |   | Facilities                           | Equipment                          | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience                                  | E.g. Warehouse, Dockyard             | E.g. Tools                         |                      |   |                                   |
| Examiner Level 1              | SPM or equivalent<br>And<br>ASNT Level 1<br>Or<br>ACCP (ASNT Centre<br>Certification Program Level<br>1)<br>Or<br>PCN (Personnel Certification<br>for Non-Destructive Testing)<br>/ CSWIP (Certification<br>Scheme for Welding<br>Inspection Personnel Level<br>1)<br>Or<br>JPK (Jabatan<br>Pembangunan Kemahiran)<br>Level 1 | Minimum 1 year experience<br>in UT related  | Manned and permanent<br>office setup | Basic Calibration Blocks /<br>Pipe |                      |   |                                   |
| Examiner Level 2              | SPM or equivalent<br>And<br>ASNT Level 2<br>Or<br>ACCP (ASNT Centre<br>Certification Program Level<br>2)<br>Or<br>PCN (Personnel Certification<br>for Non-Destructive Testing)<br>/ CSWIP (Certification<br>Scheme for Welding<br>Inspection Personnel Level<br>2)<br>Or<br>JPK (Jabatan<br>Pembangunan Kemahiran)<br>Level 2 | Minimum 3 years experience<br>in UT related |                                      |                                    |                      |   |                                   |

**Work Category** : **Material Corrosion Equipment & Services and Inspection Services**  
**23172700S** **Non Destructive Test (NDT) Services**  
**Visual Aid Inspection**

Work Category's Description : The provision of manpower, equipment and safety gears for visual aid inspection such as but not limited to Boroscope, Videoscope, fibrescope, CCTV and Unmanned Autonomous Vehicle (UAV)

Mode of Operation : Self Operated

| Key Personnel |                   |  | MINIMUM TECHNICAL REQUIREMENT          |  |                      |  |                                   |
|---------------|-------------------|--|--|--|----------------------|--|-----------------------------------|
| Designation   | Qualification     | Experience   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Operator      | SPM or equivalent | Minimum 1 year experience in Boroscope, Videoscope, fibrescope or specific visual aid inspection tools | Manned and permanent office setup      | Boroscope / videoscope / fibrescope etc. (digitally recorded, data transferable to computer) equipment and accessories |                      |  |                                   |

**Work Category** : **23180000S** **Material Corrosion Equipment & Services and Inspection Services**  
**Risk Based Inspection**

Work Category's Description : The provision of manpower and software to conduct Risk Based Inspection study

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |  |   |  |                              |                      |  |                                   |
|-------------------------------|--|---|--|------------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |  |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools      | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification  | Experience  |  |                              |                      |  |                                   |
| RBI Engineer                  | Degree in Engineering of related field   | 3 years experience in Risk Based Inspection   | Manned and permanent office setup      | RBI software (Owned or rent) |                      |  |                                   |
| Corrosion Engineer            | Degree in Engineering of related field   | 3 years experience in material & corrosion  |  |                              |                      |  |                                   |
| Technical Assistant           | SPM or equivalent<br><br>OR<br>Diploma or higher in Engineering or related field | 1 year experience in engineering/ inspection data management (if with SPM)<br><br>OR<br>Not required (if with diploma in engineering) |  |                              |                      |  |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24111000S** **Condition Based Monitoring (CBM)**  
**CPBM Data Collection, Monitoring & Analysis (Mechanical)**

Work Category's Description : Provision of condition monitoring data collection such as vibration/acoustic, lube oil analysis, thermography, process parameter and performance, etc. for rotating equipment

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |                                       |                      |  |                                   |
|-------------------------------|---|--|---|---------------------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard                          | Equipment<br>E.g. Tools               | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |                                       |                      |  |                                   |
| Engineer                      | Degree in Mechanical Engineering or related Engineering field   | 3 years experience in CPBM data collection, monitoring & analysis. Trained and certified from Principal  | 1. Manned and permanent office setup<br>2. Analyzing facilities | Analyzing tools and licensed software |                      |  |                                   |
| Specialist                    | Degree in Mechanical Engineering or any related Engineering field and related professional certification (e.g. ASNT Level II, ICML, etc.) | 5 years experience in CPBM data collection, monitoring & analysis  |   |                                       |                      |  |                                   |
| Supervisor                    | Diploma in Mechanical Engineering or related Engineering field<br><br>Or<br><br>Certificate in related field                              | 3 years experience in CPBM data collection, monitoring & analysis<br><br>Or<br><br>5 years experience in CPBM data collection, monitoring & analysis |   |                                       |                      |  |                                   |



**Work Category :** Mechanical Equipment & Services  
**24111000S** Condition Based Monitoring (CBM)  
 CPBM Data Collection, Monitoring & Analysis (Mechanical)

**Work Category's Description :** The provision of condition monitoring data collection such as but not limited to vibration/acoustic, lube oil analysis, thermography, process parameter and performance for rotating equipment

**Mode of Operation :** Self Operated

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |                                       |                      |  |                                   |
|-------------------------------|---|--|---|---------------------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard                          | Equipment<br>E.g. Tools               | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |                                       |                      |  |                                   |
| Engineer                      | Degree in Mechanical Engineering or related Engineering field   | 5 years experience in CPBM data collection, monitoring & analysis.   | 1. Manned and permanent office setup<br>2. Analyzing facilities | Analyzing tools and licensed software |                      |  |                                   |
| Specialist                    | Degree in Mechanical Engineering or any related Engineering field and related professional certification (e.g. ASNT Level II, ICML, etc.) | 7 years experience in CPBM data collection, monitoring & analysis  |   |                                       |                      |  |                                   |
| Supervisor                    | Diploma in Mechanical Engineering or related Engineering field<br><br>Or<br>Certificate in related field                                  | 5 years experience in CPBM data collection, monitoring & analysis<br><br>Or<br>7 years experience in CPBM data collection, monitoring & analysis |   |                                       |                      |  |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24111100S** **Condition Based Monitoring (CBM)**  
**Motor Current Signature Analysis (MCSA)**

Work Category's Description : The provision of performing recording, measurement and analysis of Motor Current Signature Analysis (MCSA)

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                                  |                                     |  |                            |                      |  |                                   |
|-------------------------------|----------------------------------|-------------------------------------|--|----------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |                                  |                                     | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools    | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                    | Experience                          |  |                            |                      |  |                                   |
| Engineer                      | Degree in Electrical Engineering | 3 years experience in MCSA analysis | Manned and permanent office setup      | MCSA Measurement Equipment |                      |  |                                   |
| Senior Analyst                | Degree in Electrical Engineering | 5 years experience in MCSA analysis |  |                            |                      |  |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24111200S** **Condition Based Monitoring (CBM)**  
**Partial Discharge Analysis**

Work Category's Description : The provision of performing recording, measurement and analysis of Partial Discharge

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                                  |  |  |  |                      |  |                                   |
|-------------------------------|----------------------------------|--|--|--|----------------------|--|-----------------------------------|
| Key Personnel                 |                                  |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools                            | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                    | Experience                                       |  |  |                      |  |                                   |
| Engineer                      | Degree in Electrical Engineering | 3 years experience in partial discharge analysis | Manned and permanent office setup      | Partial discharge measurement and recording device |                      |  |                                   |
| Senior Analyst                | Degree in Electrical Engineering | 5 years experience in partial discharge analysis |  |  |                      |  |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24111300S** **Condition Based Monitoring (CBM)**  
**TAN Delta Analysis**

Work Category's Description : The provision of performing recording, measurement and analysis of TAN Delta

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                                  |  |  |                                 |                      |  |                                   |
|-------------------------------|----------------------------------|--|--|---------------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |                                  |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools         | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                    | Experience                               |  |                                 |                      |  |                                   |
| Engineer                      | Degree in Electrical Engineering | 3 years experience in TAN Delta analysis | Manned and permanent office setup      | TAN Delta Measurement Equipment |                      |  |                                   |
| Senior Analyst                | Degree in Electrical Engineering | 5 years experience in TAN Delta analysis |  |                                 |                      |  |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24111400S** **Condition Based Monitoring (CBM)**  
**Thermography Analysis**

Work Category's Description : The provision of performing recording, measurement and analysis of Thermography

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |  |   |  |                                |                      |  |                                   |
|-------------------------------|--|---|--|--------------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |  |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools        | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification  | Experience                                  |  |                                |                      |  |                                   |
| Thermographer                 | Thermography certificate level 1 by Infrared Training Centre (ITC) | 3 years experience in thermography analysis | Manned and permanent office setup      | Infrared thermal imager/camera |                      |  |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24111500S** **Condition Based Monitoring (CBM)**  
**Transformer Oil Analysis**

Work Category's Description : The provision of sampling, testing, data collection and analysis of Transformer oil

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |                                      |                                    |  |  |                      |  |                                   |
|-------------------------------|--------------------------------------|------------------------------------|--|--|----------------------|--|-----------------------------------|
| Key Personnel                 |                                      |                                    | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                        | Experience                         |  |  |                      |  |                                   |
| Chemist                       | Degree in Chemistry                  | 3 years experience in oil analysis | 1. Operational Laboratory              | 1. Gas Chromatography<br>2. Breakdown voltage tester<br>3. Voltage Calibrator<br>4. Insulating Oil Tester<br>5. Fourier Transform Infrared (FT-IR)<br>6. High Performance Liquid Chromatography(HPLC)<br>7. Automatic Coulometric Karl Fischer Titrator<br>8. Automated Insulation Power Factor Test Set |                      |  |                                   |
| Site Technician               | Certificate in any Engineering field | 3 years experience in oil sampling |  |  |                      |  |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24151000P** **Heat Process Equipment**  
**Air Cooled Heat Exchanger**

Work Category's Description : To design, fabricate, assemble, inspect, test, supply and deliver to site and provide commissioning support on air cooled heat exchanger

Mode of Operation : Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |   |                      |   |                                   |
|-------------------------------|---|--|---|---|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |   |                      |   |                                   |
| Production Manager            | Degree in Mechanical Engineering<br><br>Or<br><br>Diploma in Mechanical Engineering | Minimum 5 years experience in pressure vessel fabrication<br><br>Or<br><br>Minimum 7 years experience in pressure vessel fabrication | 1. Office Building<br>2. Fabrication Yard/<br>Fabrication & Assembling facilities | 1. Lifting facilities (i.e. Overhead Crane, forklift)<br>2. CAD, Thermal & Vibration design software<br>3. Rolling, cutting & bending machine<br>4. Welding facilities<br>5. Access to blasting & painting facilities / services<br>6. Testing facilities (e.g. pressure test, hydrotest and etc.)<br>7. Access to NDT and heat treatment facilities/services |                      | 1. Business License from local authority<br>2. DOSH – "Surat sebagai syarikat pembuat pengandung /bejana tekanan tak berapi |                                   |
| Engineering Manager           | Degree in Mechanical Engineering  | Minimum 5 years experience in pressure vessel design   |   |   |                      |   |                                   |
| Design Engineer               | Degree in Mechanical Engineering  | Minimum 3 years experience in pressure vessel design   |   |   |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Fact Orly Acceptance Test (FAT)   |   |   |                      |   |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24151200P** **Heat Process Equipment**  
**Boilers**

Work Category's Description : To design, supply, fabricate, inspect, test, deliver and provide commissioning support on boilers

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |   |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience                                    | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |   |  |                                   |
|                               |               |            |  |                         | Principal to have minimum 10 years experience in boiler |  |                                   |



|                      |                  |   |
|----------------------|------------------|---|
| <b>Work Category</b> | <b>24151200P</b> | <b>Mechanical Equipment &amp; Services<br/>Heat Process Equipment<br/>Boilers</b> |
|----------------------|------------------|---|

Work Category's Description : To design, supply, fabricate, inspect, test, deliver and provide commissioning support on boilers

Mode of Operation : Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |  |                      |   |                                   |
|-------------------------------|---|--|---|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |  |                      |   |                                   |
| Project Manager               | Degree in Mechanical Engineering<br>Or<br>Diploma in Mechanical Engineering | Minimum 5 years experience in project management<br>Or<br>Minimum 7 years experience in project management | 1. Office Building<br>2. Fabrication Yard/<br>Fabrication & Assembling facilities | 1. Lifting Facilities (i.e. Overhead Crane, forklift)<br>2. CAD & Thermal design software<br>3. Rolling, cutting & bending machine<br>4. Welding facilities<br>5. Access to blasting & patting facilities / services<br>6. Testing facilities (e.g. pressure test, hydrotest and etc.)<br>7. Access to NDT services and heat treatment facilities/services |                      | 1. Business License from local authority<br>2. DOSH- "Surat sebagai syarikat pembuat dandang stim |                                   |
| Production Manager            | Degree in Mechanical Engineering<br>Or<br>Diploma in Mechanical Engineering | Minimum 5 years experience in boiler fabrication<br>Or<br>Minimum 7 years experience in boiler fabrication |   |  |                      |   |                                   |
| Engineering Manager           | Degree in Mechanical Engineering  | Minimum 5 years experience in boiler design  |   |  |                      |   |                                   |
| Design Engineer               | Degree in Mechanical /Chemical Engineering                                  | Minimum 3 years experience in boiler design  |   |  |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Fact Ory Acceptance Test (FAT)                                  |   |  |                      |   |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24151300P** **Heat Process Equipment**  
**Burners**

Work Category's Description : To design, supply, fabricate, inspect, test, deliver and provide commissioning support on Burners.

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |   |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience                                    | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |   |  |                                   |
|                               |               |            |  |                         | Principal to have minimum 10 years experience in burner |  |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24151300P** **Heat Process Equipment**  
**Burners**

Work Category's Description : To design, supply, fabricate, inspect, test, deliver and provide commissioning support on Burners.

Mode of Operation : Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |   |                      |  |                                   |
|-------------------------------|---|--|---|---|----------------------|--|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |   |                      |  |                                   |
| Project Manager               | Degree in Mechanical Engineering<br><br>Or<br>Diploma in Mechanical Engineering | Minimum 5 years experience in project management<br><br>Or<br>Minimum 7 years experience in project management | 1. Office Building<br>2. Fabrication Yard<br>3. Access to burner testing facilities | 1. Lifting Facilities (i.e. Overhead Crane, forklift)<br>2. CAD, Computerize Fluid Dynamics & Thermal design software<br>3. Welding facilities<br>4. Access to blasting & patting facilities /services<br>5. Access to NDT services |                      | Business License from local authority            |                                   |
| Production Manager            | Degree in Mechanical Engineering<br><br>Or<br>Diploma in Mechanical Engineering | Minimum 5 years experience in burner fabrication<br><br>Or<br>Minimum 7 years experience in burner fabrication |   |   |                      |  |                                   |
| Engineering Manager           | Degree in Mechanical Engineering  | Minimum 5 years experience in burner design and fabrication  |   |   |                      |  |                                   |
| Design Engineer               | Degree in Mechanical / Chemical Engineering                                     | Minimum 3 years experience in burner design  |   |   |                      |  |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and FAT Or Acceptance Test (FAT)  |   |   |                      |  |                                   |

**Work Category** : **24151400P** **Mechanical Equipment & Services**  
**Heat Process Equipment**  
**Cooling Tower**

Work Category's Description : To design, fabricate, assemble, inspect, test, supply and deliver to site and provide commissioning support on Cooling Tower

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |  |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |  |  |                                   |
|                               |               |            |  |                         | Principal to have minimum 10 years experience in cooling tower |  |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24151500P** **Heat Process Equipment**  
**Double Pipe/Fintube**

Work Category's Description : To design, fabricate, assemble, inspect, test, supply and deliver to site double pipe/fintube

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |  |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |  |  |                                   |
|                               |               |            |  |                         | Principal to have minimum 10 years experience in double pipe/fintube |  |                                   |

|                      |                  |   |
|----------------------|------------------|---|
| <b>Work Category</b> | <b>24151500P</b> | <b>Mechanical Equipment &amp; Services<br/>Heat Process Equipment<br/>Double Pipe/Fintube</b> |
|----------------------|------------------|---|

Work Category's Description : To design, fabricate, assemble, inspect, test, supply and deliver to site double pipe/fintube

Mode of Operation : Manufacturer

| Key Personnel       |   |  | MINIMUM TECHNICAL REQUIREMENT   |  |                      |  |                                   |
|---------------------|---|--|---|--|----------------------|--|-----------------------------------|
| Designation         | Qualification   | Experience   | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Project Manager     | Degree in Mechanical Engineering<br>Or<br>Diploma in Mechanical Engineering | Minimum 5 years experience in project management<br>Or<br>Minimum 7 years experience in project management                           | 1. Office Building<br>2. Fabrication Yard/<br>Fabrication & Assembling facilities | 1. Lifting Facilities (i.e. Overhead Crane, forklift)<br>2. CAD & Thermal design software<br>3. Rolling, cutting & bending machine<br>4. Welding facilities<br>5. Access to blasting & patting facilities / services<br>6. Testing facilities (e.g. pressure test, hydrotest and etc.)<br>7. Access to NDT services and heat treatment facilities/services |                      | 1. Business License from local authority<br>2. DOSH – "Surat sebagai syarikat pembuat pengandong /bejana tekanan tak berapi" |                                   |
| Production Manager  | Degree in Mechanical Engineering<br>Or<br>Diploma in Mechanical Engineering | Minimum 5 years experience in double pipe/fintube fabrication<br>Or<br>Minimum 7 years experience in double pipe/fintube fabrication |   |  |                      |  |                                   |
| Engineering Manager | Degree in Mechanical Engineering  | Minimum 5 years experience in double pipe/fintube design   |   |  |                      |  |                                   |
| Design Engineer     | Degree in Mechanical Engineering  | Minimum 3 years experience in double pipe/fintube design   |   |  |                      |  |                                   |
| QA/QC Engineer      | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Fact Ory Acceptance Test (FAT)  |   |  |                      |  |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24151600P** **Heat Process Equipment**  
**Fired Heaters**

Work Category's Description : To design, supply, fabricate, inspect, test, deliver and provide commissioning support on fired heater

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |  |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |  |  |                                   |
|                               |               |            |  |                         | Principal to have minimum 10 years experience in fired heaters |  |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24151600P** **Heat Process Equipment**  
**Fired Heaters**

Work Category's Description : To design, supply, fabricate, inspect, test, deliver and provide commissioning support on fired heater

Mode of Operation : Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |  |                      |  |                                   |
|-------------------------------|---|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard    | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |  |                      |  |                                   |
| Project Manager               | Degree in Mechanical Engineering Or Diploma in Mechanical Engineering           | Minimum 5 years experience in project management Or Minimum 7 years experience in project management                       | 1. Office Building<br>2. Fabrication Yard | 1. Lifting Facilities (i.e. Overhead Crane, forklift)<br>2. CAD & Thermal design software<br>3. Rolling, cutting & bending machine<br>4. Welding facilities<br>5. Access to blasting & patting facilities /services<br>6. Testing facilities (e.g. pressure test, hydrotest and etc.)<br>7. Access to NDT services |                      | Business License from local authority            |                                   |
| Production Manager            | Degree in Mechanical Engineering<br><br>Or<br>Diploma in Mechanical Engineering | Minimum 5 years experience in fired heater fabrication<br><br>Or<br>Minimum 7 years experience in fired heater fabrication |   |  |                      |  |                                   |
| Engineering Manager           | Degree in Mechanical Engineering  | Minimum 5 years experience in fired heater design and fabrication  |   |  |                      |  |                                   |
| Design Engineer               | Degree in Mechanical / Chemical Engineering                                     | Minimum 3 years experience in fired heater thermal & mechanical design   |   |  |                      |  |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Fact Or Acceptance Test (FAT)   |   |  |                      |  |                                   |



**Work Category** : **Mechanical Equipment & Services**  
**24151700P** **Heat Process Equipment**  
**Furnaces**

Work Category's Description : To design, supply, fabricate, inspect, test, deliver and provide commissioning support on Furnaces

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |  |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |  |  |                                   |
|                               |               |            |  |                         | Principal to have minimum 10 years experience in incinerator |  |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24151700P** **Heat Process Equipment**  
**Furnaces**

Work Category's Description : To design, supply, fabricate, inspect, test, deliver and provide commissioning support on Furnaces

Mode of Operation : Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |   |                      |  |                                   |
|-------------------------------|---|--|---|---|----------------------|--|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard    | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |   |                      |  |                                   |
| Project Manager               | Degree in Mechanical Engineering<br><br>Or<br>Diploma in Mechanical Engineering | Minimum 5 years experience in project management<br><br>Or<br>Minimum 7 years experience in project management | 1. Office Building<br>2. Fabrication Yard | 1. Lifting Facilities (i.e. Overhead Crane, forklift)<br>2. CAD & Thermal design software<br>3. Rolling, cutting & bending machine<br>4. Welding facilities<br>5. Access to blasting & painting facilities /services<br>6. Testing facilities (e.g. pressure test, hydrotest and etc.)<br>7. Access to NDT services |                      | Business License from local authority            |                                   |
| Production Manager            | Degree in Mechanical Engineering  | Minimum 5 years experience in fired heater fabrication   |   |   |                      |  |                                   |
| Engineering Manager           | Degree in Mechanical Engineering  | Minimum 5 years experience in fired heater design and fabrication  |   |   |                      |  |                                   |
| Design Engineer               | Degree in Mechanical / Chemical Engineering                                     | Minimum 3 years experience in fired heater thermal & mechanical design   |   |   |                      |  |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)                                       |   |   |                      |  |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24151800P** **Heat Process Equipment**  
**Hampson coil/Braized Aluminium Plate Fin**

Work Category's Description : To design, fabricate, assemble, inspect, test, supply and deliver to site Hampson Coil/Braized Aluminium Plate

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |   |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |   |  |                                   |
|                               |               |            |  |                         | Principal to have minimum 10 years experience in Hampson coil / braized aluminium plate |  |                                   |

|                      |                  |  |
|----------------------|------------------|--|
| <b>Work Category</b> | <b>24151800P</b> | <b>Mechanical Equipment &amp; Services<br/>Heat Process Equipment<br/>Hampson coil/Braized Aluminium Plate Fin</b> |
|----------------------|------------------|--|

Work Category's Description : To design, fabricate, assemble, inspect, test, supply and deliver to site Hampson Coil/Braized Aluminium Plate

Mode of Operation : Fabricator

| Key Personnel       |   |  | MINIMUM TECHNICAL REQUIREMENT   |  |                      |  |                                   |
|---------------------|---|--|---|--|----------------------|--|-----------------------------------|
| Designation         | Qualification   | Experience   | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Project Manager     | Degree in Mechanical Engineering<br>Or<br>Diploma in Mechanical Engineering | Minimum 5 years experience in project management<br>Or<br>Minimum 7 years experience in project management   | 1. Office Building<br>2. Fabrication Yard/<br>Fabrication & Assembling facilities | 1. Lifting Facilities (i.e. Overhead Crane, forklift)<br>2. CAD & Thermal design software<br>3. Rolling, cutting & bending machine<br>4. Welding facilities<br>5. Access to blasting & patting facilities / services<br>6. Testing facilities (e.g. pressure test, hydrotest and etc.)<br>7. Access to NDT services and heat treatment facilities/services |                      | 1. Business License from local authority<br>2. DOSH – "Surat sebagai syarikat pembuat pengandung /bejana tekanan tak berapi" |                                   |
| Production Manager  | Degree in Mechanical Engineering<br>Or<br>Diploma in Mechanical Engineering | Minimum 5 years experience in Hampson coil / braized aluminium fabrication<br>Or<br>Minimum 7 years experience in Hampson coil / braized aluminium fabrication |   |  |                      |  |                                   |
| Engineering Manager | Degree in Mechanical Engineering  | Minimum 5 years experience in Hampson coil / braized aluminium plate design  |   |  |                      |  |                                   |
| Design Engineer     | Degree in Mechanical Engineering  | Minimum 3 years experience in Hampson coil / braized aluminium design  |   |  |                      |  |                                   |
| QA/QC Engineer      | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Fact Orly Acceptance Test (FAT)   |   |  |                      |  |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24151900P** **Heat Process Equipment**  
**Incinerators**

Work Category's Description : To design, supply, fabricate, inspect, test, deliver and provide commissioning support on Incinerators

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |  |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |  |  |                                   |
|                               |               |            |  |                         | Principal to have minimum 10 years experience in incinerator |  |                                   |

**Work Category :** Mechanical Equipment & Services  
**24151900P** Heat Process Equipment Incinerators

**Work Category's Description :** To design, supply, fabricate, inspect, test, deliver and provide commissioning support on Incinerators

**Mode of Operation :** Fabricator

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |  |                      |  |                                   |
|-------------------------------|---|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard    | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |  |                      |  |                                   |
| Project Manager               | Degree in Mechanical Engineering<br>Or<br>Diploma in Mechanical Engineering | Minimum 5 years experience in project management<br>Or<br>Minimum 7 years experience in project management             | 1. Office Building<br>2. Fabrication Yard | 1. Lifting Facilities (i.e. Overhead Crane, forklift)<br>2. CAD & Thermal design software<br>3. Rolling, cutting & bending machine<br>4. Welding facilities<br>5. Access to blasting & patting facilities /services<br>6. Testing facilities (e.g. pressure test, hydrotest and etc.)<br>7. Access to NDT services |                      | Business License from local authority            |                                   |
| Production Manager            | Degree in Mechanical Engineering<br>Or<br>Diploma in Mechanical Engineering | Minimum 5 years experience in fired heater fabrication<br>Or<br>Minimum 7 years experience in fired heater fabrication |   |  |                      |  |                                   |
| Engineering Manager           | Degree in Mechanical Engineering  | Minimum 5 years experience in fired heater design and fabrication  |   |  |                      |  |                                   |
| Design Engineer               | Degree in Mechanical / Chemical Engineering                                 | Minimum 3 years experience in fired heater thermal & mechanical design   |   |  |                      |  |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)   |   |  |                      |  |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24152000P** **Heat Process Equipment**  
**Plate Heat Exchanger**

Work Category's Description : To design, fabricate, assemble, inspect, test, supply and deliver to site and provide commissioning support on Plate Heat Exchanger

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |  |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |  |  |                                   |
|                               |               |            |  |                         | Principal to have minimum 10 years experience in plate & frame type heat exchanger |  |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24152000P** **Heat Process Equipment**  
**Plate Heat Exchanger**

Work Category's Description : To design, fabricate, assemble, inspect, test, supply and deliver to site and provide commissioning support on Plate Heat Exchanger

Mode of Operation : Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |  |                      |  |                                   |
|-------------------------------|---|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |  |                      |  |                                   |
| Project Manager               | Degree in Mechanical Engineering<br>Or<br>Diploma in Mechanical Engineering | Minimum 5 years experience in project management<br>Or<br>Minimum 7 years experience in project management                   | 1. Office Building<br>2. Fabrication Yard/<br>Fabrication & Assembling facilities | 1. Lifting Facilities (i.e. Overhead Crane, forklift)<br>2. CAD & Thermal design software<br>3. Rolling, cutting & bending machine<br>4. Welding facilities<br>5. Access to blasting & patting facilities / services<br>6. Testing facilities (e.g. pressure test, hydrotest and etc.)<br>7. Access to NDT services and heat treatment facilities/services |                      | 1. Business License from local authority<br>2. DOSH – "Surat sebagai syarikat pembuat penganduan /bejana tekanan tak berapi" |                                   |
| Production Manager            | Degree in Mechanical Engineering<br>Or<br>Diploma in Mechanical Engineering | Minimum 5 years experience in pressure vessel fabrication<br>Or<br>Minimum 7 years experience in pressure vessel fabrication |   |  |                      |  |                                   |
| Engineering Manager           | Degree in Mechanical Engineering  | Minimum 5 years experience in pressure vessel design   |   |  |                      |  |                                   |
| Design Engineer               | Degree in Mechanical Engineering  | Minimum 3 years experience in pressure vessel design   |   |  |                      |  |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Fact Ory Acceptance Test (FAT)  |   |  |                      |  |                                   |



**Work Category :** Mechanical Equipment & Services  
**24152300P** Heat Process Equipment  
 Shell & Tube Heat Exchanger

**Work Category's Description :** To design, fabricate, assemble, inspect, test, supply and deliver to site shell & tube heat exchanger.

**Mode of Operation :** Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |   |                      |   |                                   |
|-------------------------------|---|--|---|---|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |   |                      |   |                                   |
| Production Manager            | Degree in Mechanical Engineering<br><br>Or<br><br>Diploma in Mechanical Engineering | Minimum 5 years experience in pressure vessel fabrication<br><br>Or<br><br>Minimum 7 years experience in pressure vessel fabrication | 1. Office Building<br>2. Fabrication Yard/<br>Fabrication & Assembling facilities | 1. Lifting facilities (i.e. Overhead Crane, forklift)<br>2. CAD, Pressure Vessel Design software, Thermal & Vibration design software<br>3. Rolling, cutting & bending machine<br>4. Welding facilities<br>5. Access to blasting & painting facilities / services<br>6. Testing facilities (e.g. pressure test, hydrotest and etc.)<br>7. Access to NDT and heat treatment facilities /services |                      | 1. Business License from local authority<br>2. DOSH – "Surat sebagai syarikat pembuat pengandung /bejana tekanan tak berapi |                                   |
| Engineering Manager           | Degree in Mechanical Engineering  | Minimum 5 years experience in heat exchanger design  |   |   |                      |   |                                   |
| Design Engineer               | Degree in Mechanical Engineering  | Minimum 3 years experience in pressure vessel design   |   |   |                      |   |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Fact Orly Acceptance Test (FAT)   |   |   |                      |   |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24152400P** **Heat Process Equipment**  
**Transfer Line Exchanger**

Work Category's Description : To design, fabricate, assemble, inspect, test, supply and deliver to site and provide commissioning support on transfer line exchanger

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |  |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |  |  |                                   |
|                               |               |            |  |                         | Principal to have minimum 10 years experience in transfer line exchanger |  |                                   |

|                      |                  |   |
|----------------------|------------------|---|
| <b>Work Category</b> | <b>24152400P</b> | <b>Mechanical Equipment &amp; Services<br/>Heat Process Equipment<br/>Transfer Line Exchanger</b> |
|----------------------|------------------|---|

Work Category's Description : To design, fabricate, assemble, inspect, test, supply and deliver to site and provide commissioning support on transfer line exchanger

Mode of Operation : Manufacturer

| Key Personnel       |   |  | MINIMUM TECHNICAL REQUIREMENT   |  |                      |   |                                   |
|---------------------|---|--|---|--|----------------------|---|-----------------------------------|
| Designation         | Qualification   | Experience   | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Project Manager     | Degree in Mechanical Engineering<br>Or<br>Diploma in Mechanical Engineering | Minimum 5 years experience in project management<br>Or<br>Minimum 7 years experience in project management                   | 1. Office Building<br>2. Fabrication Yard/<br>Fabrication & Assembling facilities | 1. Lifting Facilities (i.e. Overhead Crane, forklift)<br>2. CAD & Thermal design software<br>3. Rolling, cutting & bending machine<br>4. Welding facilities<br>5. Access to blasting & patting facilities / services<br>6. Testing facilities (e.g. pressure test, hydrotest and etc.)<br>7. Access to NDT services and heat treatment facilities/services |                      | 1. Business License from local authority<br>2. DOSH – "Surat sebagai syarikat pembuat pengangkutan/bejana tekanan tak berapi" |                                   |
| Production Manager  | Degree in Mechanical Engineering<br>Or<br>Diploma in Mechanical Engineering | Minimum 5 years experience in pressure vessel fabrication<br>Or<br>Minimum 7 years experience in pressure vessel fabrication |   |  |                      |   |                                   |
| Engineering Manager | Degree in Mechanical Engineering  | Minimum 5 years experience in pressure vessel design   |   |  |                      |   |                                   |
| Design Engineer     | Degree in Mechanical Engineering  | Minimum 3 years experience in pressure vessel design   |   |  |                      |   |                                   |
| QA/QC Engineer      | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Fact Ory Acceptance Test (FAT)  |   |  |                      |   |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24181200S** **Hoisting & Lifting Services**  
**Heavy Lift Services**

Work Category's Description : The provision of services/rental/supply of heavy lift equipment

Mode of Operation : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |  |  |  |  |                      |  |                                   |
|-------------------------------|--|--|--|--|----------------------|--|-----------------------------------|
| Key Personnel                 |  |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                            | Experience                               |  |  |                      |  |                                   |
| Lifting Engineer              | Degree in Mechanical / Civil Engineering | 5 years experience in heavy lifting work | Proper office & operational workshop   | 1. Crane 300 tones<br>2. DOSH - Valid certificate of fitness (Perakuan Kelayakan Mesin Angkat - PMA) |                      |  |                                   |
| Crane driver /operator        | DOSH registration for crane operator     | 5 years experience in crane operation    |  |  |                      |  |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24201000S** **On-Line Under Pressure Maintenance**  
**Hot Tapping & Line Stopping**

Work Category's Description : The provision of manpower, materials, consumables, equipment and facilities necessary for hot tapping & line stopping

Mode of Operation : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |                                  |   |  |  |                      |  |                                   |
|-------------------------------|----------------------------------|---|--|--|----------------------|--|-----------------------------------|
| Key Personnel                 |                                  |   | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                    | Experience  |  |  |                      |  |                                   |
| Project Engineer              | Degree in Mechanical Engineering | 5 years experience in Hot Tapping & Line Stopping | 1. Proper office in Malaysia<br>2. Operational workshop in Malaysia<br>3. Access fabrication workshop for clamp fabrication in Malaysia On-Line Under Pressure Maintenance Hot Tapping & Line Stopping | 1. Hot tapping tools (e.g. drill machine, line stopple)<br>2. Hand tools |                      |  |                                   |
| Technician                    | Certificate in engineering       | 5 years experience in Hot Tapping & Line Stopping |  |  |                      |  |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24201100S** **On-line Under Pressure Maintenance**  
**Line Freezing**

Work Category's Description : The provision of manpower, services, equipment, materials, facilities and design engineering for Line Freezing

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |  |   |   |   |                      |  |                                   |
|-------------------------------|--|---|---|---|----------------------|--|-----------------------------------|
| Key Personnel                 |  |   | Facilities<br>E.g. Warehouse, Dockyard                          | Equipment<br>E.g. Tools                 | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification  | Experience                                  |   |   |                      |  |                                   |
| Field Engineer / Supervisor   | Degree or diploma / certificate in any Engineering discipline          | Minimum 5 years experience in line freezing | 1. Manned and permanent office setup<br>2. Operational workshop | Line freezing equipment and accessories |                      | Business License from local authority            |                                   |
| Site Technician               | Relevant sealing / wrapping certificate (attended leak sealing course) | Minimum 3 years experience in line freezing |   |   |                      |  |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24201200S** **On-Line Under Pressure Maintenance**  
**Online Leak Sealing**

Work Category's Description : The provision of manpower, services, equipment, materials, facilities and design engineering for online leak sealing

Mode of Operation : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |                                  |   |  |                                    |                      |  |                                   |
|-------------------------------|----------------------------------|---|--|------------------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |                                  |   | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools            | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                    | Experience                                |  |                                    |                      |  |                                   |
| Project Engineer              | Degree in Mechanical Engineering | 5 years experience in Online Leak Sealing | 1. Proper office in Malaysia<br>2. Operational workshop in Malaysia<br>3. Access fabrication workshop for clamp fabrication in Malaysia On-Line Under Pressure Maintenance Hot Tapping & Line Stopping | 1. Injection pump<br>2. Hand tools |                      |  |                                   |
| Technician                    | Certificate in engineering       | 5 years experience in Online Leak Sealing |  |                                    |                      |  |                                   |

**Work Category :** Mechanical Equipment & Services  
 Rotating Equipment  
 Centrifugal Pump  
 Fire Water Pump  
**24211110P**

**Work Category's Description :** To design, assemble, supply, deliver, install, hook up, test and commission Fire Water Pump

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT |  |  |  |                         |                      |  |  |
|-------------------------------|--|--|--|-------------------------|----------------------|--|--|
| Key Personnel                 |  |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification  | Experience   |  |                         |                      |  |  |
| Project Coordinator           | Degree in any Engineering field<br>Or Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management | Manned and permanent office setup      | Engineering tools       |                      |  | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related Engineering field          | 1.Minimum 5 years experience in Fire Water Pump<br>2.Trained and certified from Principal                  |  |                         |                      |  |  |
| Technician                    | Trained and certified by Principal                                     | Minimum 5 years experience in Fire Water Pump  |  |                         |                      |  |  |



|                      |   |  |
|----------------------|---|--|
| <b>Work Category</b> | : | <b>Mechanical Equipment &amp; Services</b><br><b>Rotating Equipment</b><br><b>Centrifugal Pump</b><br><b>Fire Water Pump</b> |
|                      | : | <b>24211110P</b>   |

Work Category's Description : To design, assemble, supply, deliver, install, hook up, test and commission Fire Water Pump

Mode of Operation : Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |   |                      |   |  |
|-------------------------------|---|--|--|---|----------------------|---|--|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                              | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience   |  |   |                      |   |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management                 | 1.Manned and permanent office setup<br>2.Assembling facility<br>3.Access to testing facility | Required tools for assembly and testing, e.g. alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      | 1.Business License from Local Authority<br>2.DOSH – "Surat Kebenaran Operasi" | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related engineering field       | 1.Minimum 5 years experience in Fire Water Pump<br>2.Trained and certified from Principal                            |  |   |                      |   |  |
| QA/QC Engineer                | Degree in any Engineering field                                     | 1.Minimum 5 years experience doing QA/QC and Factory Acceptance Test (FAT)<br>2.Trained and certified from Principal |  |   |                      |   |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in Fire Water Pump  |  |   |                      |   |  |

|                      |   |  |
|----------------------|---|--|
| <b>Work Category</b> | : | <b>Mechanical Equipment &amp; Services</b><br><b>Rotating Equipment</b><br><b>Centrifugal Pump</b><br><b>Horizontal API 610 Pump</b> |
|                      |   | <b>24211111P</b>   |

Work Category's Description : To design, assemble, supply, deliver, install, hook up, test and commission Horizontal API 610 Pump

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |                         |                      |  |  |
|-------------------------------|---|--|--|-------------------------|----------------------|--|--|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience   |  |                         |                      |  |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management | Manned and permanent office setup      | Engineering tools       |                      |  | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related Engineering field       | 1.Minimum 5 years experience in Horizontal API 610 Pump<br>2.Trained and certified from Principal    |  |                         |                      |  |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in Horizontal API 610 Pump  |  |                         |                      |  |  |

|                      |   |  |
|----------------------|---|--|
| <b>Work Category</b> | : | <b>Mechanical Equipment &amp; Services</b><br><b>Rotating Equipment</b><br><b>Centrifugal Pump</b><br><b>Horizontal API 610 Pump</b> |
|                      | : | <b>24211111P</b>   |

Work Category's Description : To design, assemble, supply, deliver, install, hook up, test and commission Horizontal API 610 Pump

Mode of Operation : Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |   |                      |   |  |
|-------------------------------|---|--|--|---|----------------------|---|--|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                              | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience   |  |   |                      |   |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management                 | 1.Manned and permanent office setup<br>2.Assembling facility<br>3.Access to testing facility | Required tools for assembly and testing, e.g. alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      | 1.Business License from Local Authority<br>2.DOSH – "Surat Kebenaran Operasi" | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related engineering field       | 1.Minimum 5 years experience in Horizontal API 610 Pump<br>2.Trained and certified from Principal                    |  |   |                      |   |  |
| QA/QC Engineer                | Degree in any Engineering field                                     | 1.Minimum 5 years experience doing QA/QC and Factory Acceptance Test (FAT)<br>2.Trained and certified from Principal |  |   |                      |   |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in Horizontal API 610 Pump  |  |   |                      |   |  |

|                      |   |  |
|----------------------|---|--|
| <b>Work Category</b> | : | <b>Mechanical Equipment &amp; Services</b><br><b>Rotating Equipment</b><br><b>Centrifugal Pump</b><br><b>Vertical API 610 Pump</b> |
|                      | : | <b>24211114P</b>   |

Work Category's Description : To design, assemble, supply, deliver, install, hook up, test and commission Vertical API 610 Pump

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |                         |                      |  |  |
|-------------------------------|---|--|--|-------------------------|----------------------|--|--|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience   |  |                         |                      |  |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management | Manned and permanent office setup      | Engineering tools       |                      |  | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related Engineering field       | 1.Minimum 5 years experience in Vertical API 610 Pump<br>2.Trained and certified from Principal      |  |                         |                      |  |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in Vertical API 610 Pump  |  |                         |                      |  |  |

|                      |   |  |
|----------------------|---|--|
| <b>Work Category</b> | : | <b>Mechanical Equipment &amp; Services</b><br><b>Rotating Equipment</b><br><b>Centrifugal Pump</b><br><b>Vertical API 610 Pump</b> |
|                      |   | <b>24211114P</b>   |

Work Category's Description : To design, assemble, supply, deliver, install, hook up, test and commission Vertical API 610 Pump

Mode of Operation : Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |   |                      |   |  |
|-------------------------------|---|--|--|---|----------------------|---|--|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                              | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience   |  |   |                      |   |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management                 | 1.Manned and permanent office setup<br>2.Assembling facility<br>3.Access to testing facility | Required tools for assembly and testing, e.g. alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      | 1.Business License from Local Authority<br>2.DOSH – "Surat Kebenaran Operasi" | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related engineering field       | 1.Minimum 5 years experience in Vertical API 610 Pump<br>2.Trained and certified from Principal                      |  |   |                      |   |  |
| QA/QC Engineer                | Degree in any Engineering field                                     | 1.Minimum 5 years experience doing QA/QC and Factory Acceptance Test (FAT)<br>2.Trained and certified from Principal |  |   |                      |   |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in Vertical API 610 Pump  |  |   |                      |   |  |

**Work Category :** Mechanical Equipment & Services  
 Rotating Equipment  
 Compressors  
 24211210P Air Compressor

**Work Category's Description :** To design, assemble, supply, deliver, install, hook up, test and commission Air Compressor

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |                         |                      |  |  |
|-------------------------------|---|--|--|-------------------------|----------------------|--|--|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience   |  |                         |                      |  |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management | Manned and permanent office setup      | Engineering tools       |                      |  | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related Engineering field       | 1.Minimum 5 years experience in Air Compressor<br>2.Trained and certified from Principal             |  |                         |                      |  |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in Air Compressor   |  |                         |                      |  |  |

|                      |   |  |
|----------------------|---|--|
| <b>Work Category</b> | : | <b>Mechanical Equipment &amp; Services</b><br><b>Rotating Equipment</b><br><b>Compressors</b><br><b>Air Compressor</b> |
|                      | : | <b>24211210P</b>   |

Work Category's Description : To design, assemble, supply, deliver, install, hook up, test and commission Air Compressor

Mode of Operation : Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |   |                      |   |  |
|-------------------------------|---|--|--|---|----------------------|---|--|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                              | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience   |  |   |                      |   |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management                 | 1.Manned and permanent office setup<br>2.Assembling facility<br>3.Access to testing facility | Required tools for assembly and testing, e.g. alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      | 1.Business License from Local Authority<br>2.DOSH – "Surat Kebenaran Operasi" | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related Engineering field       | 1.Minimum 5 years experience in Air Compressor<br>2.Trained and certified from Principal                             |  |   |                      |   |  |
| QA/QC Engineer                | Degree in any Engineering field                                     | 1.Minimum 5 years experience doing QA/QC and Factory Acceptance Test (FAT)<br>2.Trained and certified from Principal |  |   |                      |   |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in Air Compressor   |  |   |                      |   |  |

**Work Category :** Mechanical Equipment & Services  
 Rotating Equipment  
 Compressors  
 Centrifugal Compressor  
**24211211P**

**Work Category's Description :** To design, assemble, supply, deliver, install, hook up, test and commission Centrifugal Compressor

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |                         |                      |  |  |
|-------------------------------|---|--|--|-------------------------|----------------------|--|--|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience   |  |                         |                      |  |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management | Manned and permanent office setup      | Engineering tools       |                      |  | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related Engineering field       | 1.Minimum 5 years experience in Centrifugal Compressor<br>2.Trained and certified from Principal     |  |                         |                      |  |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in Centrifugal Compressor   |  |                         |                      |  |  |



**Work Category :** Mechanical Equipment & Services  
 Rotating Equipment  
 Compressors  
 24211211P Centrifugal Compressor

**Work Category's Description :** To design, assemble, supply, deliver, install, hook up, test, commission Centrifugal Compressor

**Mode of Operation :** Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |   |                      |   |  |
|-------------------------------|---|--|--|---|----------------------|---|--|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                              | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience   |  |   |                      |   |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management                 | 1.Manned and permanent office setup<br>2.Assembling facility<br>3.Access to testing facility | Required tools for assembly and testing, e.g. alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      | 1.Business License from local authority<br>2.DOSH – "Surat Kebenaran Operasi" | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related Engineering field       | 1.Minimum 5 years experience in Centrifugal Compressor<br>2.Trained and certified from Principal                     |  |   |                      |   |  |
| QA/QC Engineer                | Degree in any Engineering field                                     | 1.Minimum 5 years experience doing QA/QC and Factory Acceptance Test (FAT)<br>2.Trained and certified from Principal |  |   |                      |   |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in Centrifugal Compressor   |  |   |                      |   |  |

|                      |   |  |
|----------------------|---|--|
| <b>Work Category</b> | : | <b>Mechanical Equipment &amp; Services</b> |
|                      |   | <b>Rotating Equipment</b>                  |
|                      |   | <b>Compressors</b>                         |
|                      |   | <b>Reciprocating Compressor</b>            |
|                      |   | <b>24211212P</b>                           |

Work Category's Description : To design, assemble, supply, deliver, install, hook up, test and commission Reciprocating Compressor

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |                         |                      |  |  |
|-------------------------------|---|--|--|-------------------------|----------------------|--|--|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience   |  |                         |                      |  |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management | Manned and permanent office setup      | Engineering tools       |                      |  | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related Engineering field       | 1.Minimum 5 years experience in Reciprocating Compressor<br>2.Trained and certified from Principal   |  |                         |                      |  |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in Reciprocating Compressor   |  |                         |                      |  |  |

**Work Category :** Mechanical Equipment & Services  
 Rotating Equipment  
 Compressors  
 24211212P Reciprocating Compressor

**Work Category's Description :** To design, assemble, supply, deliver, install, hook up, test and commission Reciprocating Compressor

**Mode of Operation :** Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |   |                      |   |  |
|-------------------------------|---|--|--|---|----------------------|---|--|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                              | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience   |  |   |                      |   |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management                 | 1.Manned and permanent office setup<br>2.Assembling facility<br>3.Access to testing facility | Required tools for assembly and testing, e.g. alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      | 1.Business License from Local Authority<br>2.DOSH – "Surat Kebenaran Operasi" | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related Engineering field       | 1.Minimum 5 years experience in Reciprocating Compressor<br>2.Trained and certified from Principal                   |  |   |                      |   |  |
| QA/QC Engineer                | Degree in any Engineering field                                     | 1.Minimum 5 years experience doing QA/QC and Factory Acceptance Test (FAT)<br>2.Trained and certified from Principal |  |   |                      |   |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in Reciprocating Compressor   |  |   |                      |   |  |

**Work Category** : **Mechanical Equipment & Services**  
**24211213P** **Rotating Equipment Compressors**  
**Rotary/Screw Compressor**

Work Category's Description : To design, assemble, supply, deliver, install, hook up, test and commission Rotary/Screw Compressor

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |                         |                      |  |  |
|-------------------------------|---|--|--|-------------------------|----------------------|--|--|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience   |  |                         |                      |  |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management | Manned and permanent office setup      | Engineering tools       |                      |  | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related Engineering field       | 1.Minimum 5 years experience in Rotary/Screw Compressor<br>2.Trained and certified from Principal    |  |                         |                      |  |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in Rotary/Screw Compressor  |  |                         |                      |  |  |

|                      |   |
|----------------------|---|
| <b>Work Category</b> | <b>Mechanical Equipment &amp; Services</b><br><b>Rotating Equipment</b><br><b>Compressors</b><br><b>Rotary/Screw Compressor</b> |
| <b>24211213P</b>     |   |

Work Category's Description : To design, assemble, supply, deliver, install, hook up, test and commission Rotary/Screw Compressor

Mode of Operation : Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |   |                      |   |  |
|-------------------------------|---|--|--|---|----------------------|---|--|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                              | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience   |  |   |                      |   |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management                 | 1.Manned and permanent office setup<br>2.Assembling facility<br>3.Access to testing facility | Required tools for assembly and testing, e.g. alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      | 1.Business License from Local Authority<br>2.DOSH – "Surat Kebenaran Operasi" | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related Engineering field       | 1.Minimum 5 years experience in Rotary/Screw Compressor<br>2.Trained and certified from Principal                    |  |   |                      |   |  |
| QA/QC Engineer                | Degree in any Engineering field                                     | 1.Minimum 5 years experience doing QA/QC and Factory Acceptance Test (FAT)<br>2.Trained and certified from Principal |  |   |                      |   |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in Rotary/Screw Compressor  |  |   |                      |   |  |

**Work Category** : **Mechanical Equipment & Services**  
**24211400P** **Rotating Equipment**  
**Dry Gas Seal**

Work Category's Description : To supply and deliver dry gas seal

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |   |   |  |                         |                      |  |  |
|-------------------------------|---|---|--|-------------------------|----------------------|--|--|
| Key Personnel                 |   |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience  |  |                         |                      |  |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management        | Manned and permanent office setup      | Engineering tools       |                      |  | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related engineering field       | 1.Minimum 5 years experience in mechanical rotating related works<br>2.Trained and certified from Principal |  |                         |                      |  |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in mechanical rotating related works   |  |                         |                      |  |  |

**Work Category** : **Mechanical Equipment & Services**  
**24211400P** **Rotating Equipment**  
**Dry Gas Seal**

Work Category's Description : To supply and deliver dry gas seal

Mode of Operation : Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |   |                      |   |  |
|-------------------------------|---|--|--|---|----------------------|---|--|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                              | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience   |  |   |                      |   |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management                 | 1.Manned and permanent office setup<br>2.Assembling facility<br>3.Access to testing facility | Required tools for assembly and testing, e.g. alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      | 1.Business License from Local Authority<br>2.DOSH – "Surat Kebenaran Operasi" | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related engineering field       | 1.Minimum 5 years experience in mechanical rotating related works<br>2.Trained and certified from Principal          |  |   |                      |   |  |
| QA/QC Engineer                | Degree in any Engineering field                                     | 1.Minimum 5 years experience doing QA/QC and Factory Acceptance Test (FAT)<br>2.Trained and certified from Principal |  |   |                      |   |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in mechanical rotating related works  |  |   |                      |   |  |

**Work Category** : **Mechanical Equipment & Services**  
**24211600P** **Rotating Equipment**  
**Gas Turbine**

Work Category's Description : To design, assemble, supply, deliver, install, hook up, test and commission Gas Turbine

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |   |   |  |                         |                      |  |  |
|-------------------------------|---|---|--|-------------------------|----------------------|--|--|
| Key Personnel                 |   |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience  |  |                         |                      |  |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management                            | Manned and permanent office setup      | Engineering tools       |                      |  | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related Engineering field       | 1.Minimum 5 years experience in Gas Turbine<br>2.Trained and certified from Principal Minimum 5 years experience in Gas Turbine |  |                         |                      |  |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in Gas Turbine   |  |                         |                      |  |  |



**Work Category :** Mechanical Equipment & Services  
 24211600P Rotating Equipment  
 Gas Turbine

**Work Category's Description :** To design, assemble, supply, deliver, install, hook up, test and commission Gas Turbine

**Mode of Operation :** Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |   |                      |   |  |
|-------------------------------|---|--|--|---|----------------------|---|--|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                              | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience   |  |   |                      |   |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management                 | 1.Manned and permanent office setup<br>2.Assembling facility<br>3.Access to testing facility | Required tools for assembly and testing, e.g. alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      | 1.Business License from Local Authority<br>2.DOSH – "Surat Kebenaran Operasi" | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related Engineering field       | 1.Minimum 5 years experience in Gas Turbine<br>2.Trained and certified from Principal                                |  |   |                      |   |  |
| QA/QC Engineer                | Degree in any Engineering field                                     | 1.Minimum 5 years experience doing QA/QC and Factory Acceptance Test (FAT)<br>2.Trained and certified from Principal |  |   |                      |   |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in Gas Turbine  |  |   |                      |   |  |

**Work Category** : **Mechanical Equipment & Services**  
**24211700P** **Rotating Equipment**  
**Mechanical Seal for Pump**

Work Category's Description : To supply and deliver mechanical seal for pump

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |                         |                      |  |  |
|-------------------------------|---|--|--|-------------------------|----------------------|--|--|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience   |  |                         |                      |  |  |
| Project Coordinator           | Degree in any Engineering field or Diploma in any Engineering field | Minimum 3 years experience in project management or Minimum 5 years experience in project management | Manned and permanent office setup      | Engineering tools       |                      |  | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related engineering field       | Minimum 5 years experience in mechanical rotating related works                                      |  |                         |                      |  |  |

**Work Category :** Mechanical Equipment & Services  
 24211700P Rotating Equipment  
 Mechanical Seal for Pump

**Work Category's Description :** To supply and deliver mechanical seal for pump

**Mode of Operation :** Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |   |                      |   |  |
|-------------------------------|---|--|--|---|----------------------|---|--|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                              | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience   |  |   |                      |   |  |
| Project Coordinator           | Degree in any Engineering field or Diploma in any Engineering field | Minimum 3 years experience in project management or Minimum 5 years experience in project management                 | 1.Manned and permanent office setup<br>2.Assembling facility<br>3.Access to testing facility | Required tools for assembly and testing, e.g. alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      | 1.Business License from Local Authority<br>2.DOSH – "Surat Kebenaran Operasi" | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related engineering field       | 1.Minimum 5 years experience in mechanical rotating related works<br>2.Trained and certified from Principal          |  |   |                      |   |  |
| QA/QC Engineer                | Degree in any Engineering field                                     | 1.Minimum 5 years experience doing QA/QC and Factory Acceptance Test (FAT)<br>2.Trained and certified from Principal |  |   |                      |   |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in mechanical rotating related works  |  |   |                      |   |  |

**Work Category :** Mechanical Equipment & Services  
 Rotating Equipment  
 Special Purpose Pumps  
 Cryogenic Pump  
**24212113P**

**Work Category's Description :** To supply and deliver Cryogenic Pump

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT |  |   |  |                         |                      |  |  |
|-------------------------------|--|---|--|-------------------------|----------------------|--|--|
| Key Personnel                 |  |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification  | Experience  |  |                         |                      |  |  |
| Project Coordinator           | Degree in any Engineering field<br>Or Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or Minimum 5 years experience in project management | Manned and permanent office setup      | Engineering tools       |                      |  | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related engineering field          | 1.Minimum 5 years experience in Cryogenic Pump<br>2.Trained and certified from Principal                |  |                         |                      |  |  |
| Technician                    | Trained and certified by Principal                                     | Minimum 5 years experience in Cryogenic Pump  |  |                         |                      |  |  |

**Work Category :** Mechanical Equipment & Services  
 Rotating Equipment  
 Special Purpose Pumps  
 Cryogenic Pump  
**24212113P**

**Work Category's Description :** To supply and deliver Cryogenic Pump

**Mode of Operation :** Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |   |                      |   |  |
|-------------------------------|---|--|--|---|----------------------|---|--|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard                       | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                              | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience   |  |   |                      |   |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management                 | 1.Manned and permanent office setup<br>2.Assembling facility | Required tools for assembly and testing, e.g. alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      | 1.Business License from Local Authority<br>2.DOSH – "Surat Kebenaran Operasi" | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related engineering field       | 1.Minimum 5 years experience in Cryogenic Pump<br>2.Trained and certified from Principal                             |  |   |                      |   |  |
| QA/QC Engineer                | Degree in any Engineering field                                     | 1.Minimum 5 years experience doing QA/QC and Factory Acceptance Test (FAT)<br>2.Trained and certified from Principal |  |   |                      |   |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in Cryogenic Pump   |  |   |                      |   |  |

**Work Category** : **Mechanical Equipment & Services**  
**Rotating Equipment**  
**Special Purpose Pumps**  
**High Speed**  
**24212117P**

Work Category's Description : To design, assemble, supply, deliver, install, hook up, test and commission High Speed Pump

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |                         |                      |  |  |
|-------------------------------|---|--|--|-------------------------|----------------------|--|--|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience   |  |                         |                      |  |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management | Manned and permanent office setup      | Engineering tools       |                      |  | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related engineering field       | 1.Minimum 5 years experience in High Speed Pump<br>2.Trained and certified from Principal            |  |                         |                      |  |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in High Speed Pump  |  |                         |                      |  |  |

|                      |   |  |
|----------------------|---|--|
| <b>Work Category</b> | : | <b>Mechanical Equipment &amp; Services</b><br><b>Rotating Equipment</b><br><b>Special Purpose Pumps</b><br><b>High Speed</b> |
|                      |   | <b>24212117P</b>   |

Work Category's Description : To design, assemble, supply, deliver, install, hook up, test and commission High Speed Pump

Mode of Operation : Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |   |                      |   |  |
|-------------------------------|---|--|--|---|----------------------|---|--|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard                       | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                              | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience   |  |   |                      |   |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management                 | 1.Manned and permanent office setup<br>2.Assembling facility | Required tools for assembly and testing, e.g. alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      | 1.Business License from Local Authority<br>2.DOSH – "Surat Kebenaran Operasi" | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related engineering field       | 1.Minimum 5 years experience in High Speed Pump<br>2.Trained and certified from Principal                            |  |   |                      |   |  |
| QA/QC Engineer                | Degree in any Engineering field                                     | 1.Minimum 5 years experience doing QA/QC and Factory Acceptance Test (FAT)<br>2.Trained and certified from Principal |  |   |                      |   |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in High Speed Pump  |  |   |                      |   |  |

**Work Category :** Mechanical Equipment & Services  
 Rotating Equipment  
 Special Purpose Pumps  
 Multiphase  
**24212118P**

**Work Category's Description :** To design, assemble, supply, deliver, install, hook up, test and commission Multiphase Pump

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |                         |                      |  |  |
|-------------------------------|---|--|--|-------------------------|----------------------|--|--|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience   |  |                         |                      |  |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management | Manned and permanent office setup      | Engineering tools       |                      |  | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related engineering field       | 1.Minimum 5 years experience in Multiphase Pump<br>2.Trained and certified from Principal            |  |                         |                      |  |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in Multiphase Pump  |  |                         |                      |  |  |



|                      |   |  |
|----------------------|---|--|
| <b>Work Category</b> | : | <b>Mechanical Equipment &amp; Services</b><br><b>Rotating Equipment</b><br><b>Special Purpose Pumps</b><br><b>Multiphase</b> |
|                      |   | <b>24212118P</b>   |

Work Category's Description : To design, assemble, supply, deliver, install, hook up, test and commission Multiphase Pump

Mode of Operation : Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |   |                      |   |  |
|-------------------------------|---|--|--|---|----------------------|---|--|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                              | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience   |  |   |                      |   |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management                 | 1.Manned and permanent office setup<br>2.Assembling facility<br>3.Access to testing facility | Required tools for assembly and testing, e.g. alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      | 1.Business License from Local Authority<br>2.DOSH – "Surat Kebenaran Operasi" | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related engineering field       | 1.Minimum 5 years experience in Multiphase Pump<br>2.Trained and certified from Principal                            |  |   |                      |   |  |
| QA/QC Engineer                | Degree in any Engineering field                                     | 1.Minimum 5 years experience doing QA/QC and Factory Acceptance Test (FAT)<br>2.Trained and certified from Principal |  |   |                      |   |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in Multiphase Pump  |  |   |                      |   |  |

**Work Category** : **Mechanical Equipment & Services**  
**24212200P** **Rotating Equipment**  
**Steam Turbine**

Work Category's Description : To design, assemble, supply, deliver, install, hook up, test and commission Steam Turbine

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |                         |                      |  |  |
|-------------------------------|---|--|--|-------------------------|----------------------|--|--|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience   |  |                         |                      |  |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management | Manned and permanent office setup      | Engineering tools       |                      |  | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related Engineering field       | 1.Minimum 5 years experience in Steam Turbine<br>2.Trained and certified from Principal              |  |                         |                      |  |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in Steam Turbine  |  |                         |                      |  |  |

**Work Category :** Mechanical Equipment & Services  
 24212200P Rotating Equipment  
 Steam Turbine

**Work Category's Description :** To design, assemble, supply, deliver, install, hook up, test and commission Steam Turbine

**Mode of Operation :** Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |   |                      |   |  |
|-------------------------------|---|--|--|---|----------------------|---|--|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                              | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience   |  |   |                      |   |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management                 | 1.Manned and permanent office setup<br>2.Assembling facility<br>3.Access to testing facility | Required tools for assembly and testing, e.g. alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      | 1.Business License from Local Authority<br>2.DOSH – "Surat Kebenaran Operasi" | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related Engineering field       | 1.Minimum 5 years experience in Steam Turbine<br>2.Trained and certified from Principal                              |  |   |                      |   |  |
| QA/QC Engineer                | Degree in any Engineering field                                     | 1.Minimum 5 years experience doing QA/QC and Factory Acceptance Test (FAT)<br>2.Trained and certified from Principal |  |   |                      |   |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in Steam Turbine  |  |   |                      |   |  |

**Work Category** : **Mechanical Equipment & Services**  
**24212300P** **Rotating Equipment**  
**Turbo Expander**

Work Category's Description : To design, assemble, supply, deliver, install, hook up, test and commission Turbo Expander

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |                         |                      |  |  |
|-------------------------------|---|--|--|-------------------------|----------------------|--|--|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience   |  |                         |                      |  |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management | Manned and permanent office setup      | Engineering tools       |                      |  | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related Engineering field       | 1.Minimum 5 years experience in Turbo Expander<br>2.Trained and certified from Principal             |  |                         |                      |  |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in Turbo Expander   |  |                         |                      |  |  |

**Work Category :** Mechanical Equipment & Services  
 24212300P Rotating Equipment  
 Turbo Expander

Work Category's Description : To design, assemble, supply, deliver, install, hook up, test and commission Turbo Expander

Mode of Operation : Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |   |                      |   |  |
|-------------------------------|---|--|--|---|----------------------|---|--|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                              | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience   |  |   |                      |   |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management                 | 1.Manned and permanent office setup<br>2.Assembling facility<br>3.Access to testing facility | Required tools for assembly and testing, e.g. alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      | 1.Business License from Local Authority<br>2.DOSH – "Surat Kebenaran Operasi" | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related Engineering field       | 1.Minimum 5 years experience in Turbo Expander<br>2.Trained and certified from Principal                             |  |   |                      |   |  |
| QA/QC Engineer                | Degree in any Engineering field                                     | 1.Minimum 5 years experience doing QA/QC and Factory Acceptance Test (FAT)<br>2.Trained and certified from Principal |  |   |                      |   |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in Turbo Expander   |  |   |                      |   |  |

**Work Category :** Mechanical Equipment & Services  
 24212400P Rotating Equipment  
 Wet Seal for Compressor/Expander

Work Category's Description : To supply and deliver wet seal for compressor/expander

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |   |   |  |                         |                      |  |  |
|-------------------------------|---|---|--|-------------------------|----------------------|--|--|
| Key Personnel                 |   |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience  |  |                         |                      |  |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management        | Manned and permanent office setup      | Engineering tools       |                      |  | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related engineering field       | 1.Minimum 5 years experience in mechanical rotating related works<br>2.Trained and certified from Principal |  |                         |                      |  |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in mechanical rotating related works   |  |                         |                      |  |  |

**Work Category :** Mechanical Equipment & Services  
 24212400P Rotating Equipment  
 Wet Seal for Compressor/Expander

Work Category's Description : To supply and deliver wet seal for compressor / expander

Mode of Operation : Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |   |                      |   |  |
|-------------------------------|---|--|--|---|----------------------|---|--|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                              | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification   | Experience   |  |   |                      |   |  |
| Project Coordinator           | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management                 | 1.Manned and permanent office setup<br>2.Assembling facility<br>3.Access to testing facility | Required tools for assembly and testing, e.g. alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      | 1.Business License from Local Authority<br>2.DOSH – "Surat Kebenaran Operasi" | 1.Product supply in compliance to international standards (e.g. API, ASME, etc.) |
| Engineer                      | Degree in Mechanical Engineering or related engineering field       | 1.Minimum 5 years experience in mechanical rotating related works<br>2.Trained and certified from Principal          |  |   |                      |   |  |
| QA/QC Engineer                | Degree in any Engineering field                                     | 1.Minimum 5 years experience doing QA/QC and Factory Acceptance Test (FAT)<br>2.Trained and certified from Principal |  |   |                      |   |  |
| Technician                    | Trained and certified by Principal                                  | Minimum 5 years experience in mechanical rotating related works  |  |   |                      |   |  |

**Work Category :** Mechanical Equipment & Services  
 Rotating Equipment Services  
 Compressor Repair & Maintenance  
 Air Compressor Services  
**24221210S**

**Work Category's Description :** The provision of labour, materials, consumables, equipments and facilities necessary for maintenance, repair, overhaul, refurbishment, performance test and commissioning of air compressor and auxiliaries

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |  |                      |   |                                   |
|-------------------------------|---|--|---|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities  | Equipment  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   | E.g. Warehouse, Dockyard  | E.g. Tools   |                      |   |                                   |
| Engineer                      | Degree in Mechanical / Electrical / Control Automation / Instrumentation Engineering  | 1.3 years experience in air compressor repair and maintenance<br>2.Trained and certified from Principal                                  | Workshop facilities and proper office setup in Malaysia. Min – overhead / gantry crane, workbench, forklift (or similar lifting facilities), mills, lathe and boring machine, pipe cutting & threading machine, welding set, balancing machine. | Required tools for overhaul, e.g. shaft straightening tools, alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      |   |                                   |
| Supervisor                    | Diploma in Mechanical / Electrical / Control Automation / Instrumentation Engineering<br><br>Or<br><br>Certificate in related field | 3 years experience in air compressor repair and maintenance<br><br>Or<br><br>5 years experience in air compressor repair and maintenance |   |  |                      |   |                                   |



**Work Category :** Mechanical Equipment & Services  
 Rotating Equipment Services  
 Compressor Repair & Maintenance  
 Air Compressor Services

24221210S

**Work Category's Description :** The provision of labour, materials, consumables, equipments and facilities necessary for maintenance, repair, overhaul, refurbishment, performance test and commissioning of air compressor and auxiliaries

**Mode of Operation :** Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |  |                      |  |                                   |
|-------------------------------|---|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH               | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |  |                      |  |                                   |
| Engineer                      | Degree in Mechanical / Electrical / Control Automation / Instrumentation Engineering  | 3 years experience in air compressor repair and maintenance  | Workshop facilities and proper office setup in Malaysia. Min – overhead / gantry crane, workbench, forklift (or similar lifting facilities), mills, lathe and boring machine, pipe cutting & threading machine, welding set, balancing machine. | Required tools for overhaul, e.g. shaft straightening tools, alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      | DOSH Certification:<br>•Perakuan Mesin Angkat – Overhead Crane |                                   |
| Supervisor                    | Diploma in Mechanical / Electrical / Control Automation / Instrumentation Engineering<br><br>Or<br><br>Certificate in related field | 5 years experience in air compressor repair and maintenance<br><br>Or<br><br>7 years experience in air compressor repair and maintenance |   |  |                      |  |                                   |

|                      |                  |   |
|----------------------|------------------|---|
| <b>Work Category</b> | <b>24221211S</b> | <b>Mechanical Equipment &amp; Services<br/>Rotating Equipment Services<br/>Compressor Repair &amp; Maintenance<br/>Centrifugal Compressor</b> |
|----------------------|------------------|---|

Work Category's Description : The provision of labour, materials, consumables, equipments and facilities necessary for maintenance, repair, overhaul, performance test and commissioning of centrifugal gas compressor and auxiliaries

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |  |                      |  |                                   |
|-------------------------------|---|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |  |                      |  |                                   |
| Engineer                      | Degree in Mechanical / Electrical / Control Automation / Instrumentation Engineering  | 1.3 years experience in centrifugal gas compressor repair and maintenance<br>2.Trained and certified from Principal  | Workshop facilities and proper office setup in Malaysia. Min – overhead / gantry crane, workbench, forklift (or similar lifting facilities), mills, lathe and boring machine, pipe cutting & threading machine, welding set, balancing machine. | Required tools for overhaul, e.g. shaft straightening tools, alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      |  |                                   |
| Supervisor                    | Diploma in Mechanical / Electrical / Control Automation / Instrumentation Engineering<br><br>Or<br><br>Certificate in related field | 3 years experience in centrifugal gas compressor repair and maintenance<br><br>Or<br><br>5 years experience in centrifugal gas compressor repair and maintenance |   |  |                      |  |                                   |

|                      |                  |   |
|----------------------|------------------|---|
| <b>Work Category</b> | <b>24221211S</b> | <b>Mechanical Equipment &amp; Services<br/>Rotating Equipment Services<br/>Compressor Repair &amp; Maintenance<br/>Centrifugal Compressor</b> |
|----------------------|------------------|---|

Work Category's Description : The provision of labour, materials, consumables, equipments and facilities necessary for maintenance, repair, overhaul, performance test and commissioning of centrifugal gas compressor and auxiliaries

Mode of Operation : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |  |                      |  |                        |
|-------------------------------|---|--|---|--|----------------------|--|------------------------|
| Key Personnel                 |   |  | Facilities  | Equipment  | Company's Experience | External Body Registration                                     | Quality                |
| Designation                   | Qualification   | Experience   | E.g. Warehouse, Dockyard  | E.g. Tools   |                      | E.g. CIDB, DOSH  | E.g. ISO, API Standard |
| Engineer                      | Degree in Mechanical / Electrical / Control Automation / Instrumentation Engineering                                  | 5 years experience in centrifugal gas compressor repair and maintenance<br>7 years experience in centrifugal gas compressor repair and maintenance | Workshop facilities and proper office setup in Malaysia. Min – overhead / gantry crane, workbench, forklift (or similar lifting facilities), mills, lathe and boring machine, pipe cutting & threading machine, welding set, balancing machine. | Required tools for overhaul, e.g. shaft straightening tools, alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      | DOSH Certification:<br>•Perakuan Mesin Angkat – Overhead Crane |                        |
| Supervisor                    | Diploma in Mechanical / Electrical / Control Automation / Instrumentation Engineering<br>Certificate in related field | 7 years experience in centrifugal gas compressor repair and maintenance  |   |  |                      |  |                        |

**Work Category :** Mechanical Equipment & Services  
 Rotating Equipment Services  
 Compressor Repair & Maintenance  
 Reciprocating/Screw Gas Compressor  
 24221212S

**Work Category's Description :** The provision of labour, materials, consumables, equipments and facilities necessary for maintenance, repair, overhaul, refurbishment, reciprocating compressor valve refurbishment (inclusive of leak test), performance test and commissioning of reciprocating/screw gas compressor and auxiliaries

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT  |   |   |  |   |                      |   |                                   |
|--------------------------------|---|---|--|---|----------------------|---|-----------------------------------|
| Key Personnel                  |   |   | Facilities   | Equipment   | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                    | Qualification   | Experience  | E.g. Warehouse, Dockyard   | E.g. Tools  |                      |   |                                   |
| Company/Principal:<br>Engineer | Degree in Mechanical /<br>Electrical / Control<br>Automation / Instrumentation<br>Engineering | 1. 3 years experience in<br>reciprocating / screw gas<br>compressor repair and<br>maintenance<br>2. Trained and certified from<br>Principal | Workshop facilities and<br>proper office setup in<br>Malaysia. Min – overhead /<br>gantry crane, workbench,<br>forklift (or similar lifting<br>facilities), mills, lathe and<br>boring machine, pipe cutting<br>& threading machine,<br>welding set, balancing<br>machine. | Required tools for overhaul,<br>e.g. shaft straightening tools,<br>alignment tools, measuring<br>tools, machine shop tools,<br>torque wrench, bench test<br>for leak test, etc. |                      |   |                                   |

|                        |   |
|------------------------|---|
| <b>Work Category</b> : | <b>Mechanical Equipment &amp; Services</b><br><b>Rotating Equipment Services</b><br><b>Compressor Repair &amp; Maintenance</b><br><b>Reciprocating/Screw Gas Compressor</b> |
|                        | 24221212S   |

Work Category's Description : The provision of labour, materials, consumables, equipments and facilities necessary for maintenance, repair, overhaul, refurbishment, reciprocating compressor valve refurbishment (inclusive of leak test), performance test and commissioning of reciprocating / screw gas compressor and auxiliaries

Mode of Operation : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |  |                      |  |                                   |
|-------------------------------|---|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH               | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |  |                      |  |                                   |
| Engineer                      | Degree in Mechanical / Electrical / Control Automation / Instrumentation Engineering  | 3 years experience in reciprocating / screw gas compressor repair and maintenance  | Workshop facilities and proper office setup in Malaysia. Min – overhead / gantry crane, workbench, forklift (or similar lifting facilities), mills, lathe and boring machine, pipe cutting & threading machine, welding set, balancing machine. | Required tools for overhaul, e.g. shaft straightening tools, alignment tools, measuring tools, machine shop tools, torque wrench, bench test for leak test, etc. |                      | DOSH Certification:<br>•Perakuan Mesin Angkat – Overhead Crane |                                   |
| Supervisor                    | Diploma in Mechanical / Electrical / Control Automation / Instrumentation Engineering<br><br>Or<br><br>Certificate in related field | 5 years experience in reciprocating / screw gas compressor repair and maintenance<br><br>Or<br><br>7 years experience in reciprocating / screw gas compressor repair and maintenance |   |  |                      |  |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24221910S** **Rotating Equipment Services**  
**Mechanical seals**  
**Dry Gas Seal Services**

Work Category's Description : The provision of labour, materials, consumables, equipments and facilities necessary for removal, refurbish, leak test and installation of dry gas seal

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |  |  |                               |  |                      |   |                                   |
|-------------------------------|--|--|-------------------------------|--|----------------------|---|-----------------------------------|
| Key Personnel                 |  |  | Facilities                    | Equipment  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification  | Experience   | E.g. Warehouse, Dockyard      | E.g. Tools   |                      |   |                                   |
| Engineer                      | Degree in Mechanical Engineering or related Engineering field  | 1.2 years experience in seal repair and maintenance<br>2.Trained and certified from Principal                    | Workshop, proper office setup | Personal hand tool, measurement tool, leak test bench, lapping equipment |                      |   |                                   |
| Supervisor                    | Diploma in Mechanical Engineering or related Engineering field<br><br>Or<br>Certificate in related field | 3 years experience in seal repair and maintenance<br><br>Or<br>5 years experience in seal repair and maintenance |                               |  |                      |   |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24221910S** **Rotating Equipment Services**  
**Mechanical seals**  
**Dry Gas Seal Services**

Work Category's Description : The provision of labour, materials, consumables, equipments and facilities necessary for removal, refurbish, leak test and installation of dry gas seal

Mode of Operation : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |  |   |  |  |                      |  |                                   |
|-------------------------------|--|---|--|--|----------------------|--|-----------------------------------|
| Key Personnel                 |  |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification  | Experience  |  |  |                      |  |                                   |
| Engineer                      | Degree in Mechanical Engineering or any related Engineering field                                  | 5 years experience in seal repair and maintenance   | Workshop, proper office setup          | Personal hand tool, measurement tool, leak test bench, lapping equipment |                      |  |                                   |
| Supervisor                    | Diploma in Mechanical Engineering or any related Engineering field<br>Certificate in related field | 7 years experience in seal repair and maintenance<br>10 years experience in seal repair and maintenance |  |  |                      |  |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**Rotating Equipment Services**  
**Mechanical seals**  
**Mechanical Seal for Pump Services**  
**24221911S**

**Work Category's Description** : The provision of manpower, materials, consumables, equipment and facilities necessary for removal, refurbish, leak test and installation of mechanical seal and auxiliaries for pump equipment

**Mode of Operation** : Agent

| Key Personnel |  |  | MINIMUM TECHNICAL REQUIREMENT          |  |                      |  |                                   |
|---------------|--|--|--|--|----------------------|--|-----------------------------------|
| Designation   | Qualification  | Experience   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Engineer      | Degree in Mechanical Engineering or any related Engineering field  | 1. 2 years experience in seal repair and maintenance<br>2. Trained and certified from Principal                  | Workshop, proper office setup          | Personal hand tool, measurement tool, leak test bench, lapping equipment |                      |  |                                   |
| Supervisor    | Diploma in Mechanical Engineering or any related Engineering field<br><br>Or<br>Certificate in related field | 3 years experience in seal repair and maintenance<br><br>Or<br>5 years experience in seal repair and maintenance |  |  |                      |  |                                   |



**Work Category :** Mechanical Equipment & Services  
 Rotating Equipment Services  
 Mechanical seals  
 Mechanical Seal for Pump Services  
**24221911S**

**Work Category's Description :** The provision of manpower, materials, consumables, equipment and facilities necessary for removal, refurbish, leak test and installation of mechanical seal and auxiliaries for pump equipment

**Mode of Operation :** Self-Operated

| Key Personnel |  |   | MINIMUM TECHNICAL REQUIREMENT          |  |                      |  |                                   |
|---------------|--|---|--|--|----------------------|--|-----------------------------------|
| Designation   | Qualification  | Experience  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Engineer      | Degree in Mechanical Engineering or any related Engineering field  | 5 years experience in seal repair and maintenance   | Workshop, proper office setup          | Personal hand tool, measurement tool, leak test bench, lapping equipment |                      |  |                                   |
| Supervisor    | Diploma in Mechanical Engineering or any related Engineering field<br><br>Or<br><br>Certificate in related field | 7 years experience in seal repair and maintenance<br><br>Or<br><br>10 years experience in seal repair and maintenance |  |  |                      |  |                                   |

**Work Category :** Mechanical Equipment & Services  
 Rotating Equipment Services  
 Mechanical seals  
 Wet Seal for Compressor/Expander Services  
**24221912S**

**Work Category's Description :** The provision of labour, materials, consumables, equipments and facilities necessary for removal, refurbish, leak test and installation of wet seal and auxiliaries for compressor/expander

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT |  |  |  |  |                      |  |                                   |
|-------------------------------|--|--|--|--|----------------------|--|-----------------------------------|
| Key Personnel                 |  |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification  | Experience   |  |  |                      |  |                                   |
| Engineer                      | Degree in Mechanical Engineering or any related Engineering field  | 1.2 years experience in seal repair and maintenance<br>2.Trained and certified from Principal                    | Workshop, proper office setup          | Personal hand tool, measurement tool, leak test bench, lapping equipment |                      |  |                                   |
| Supervisor                    | Diploma in Mechanical Engineering or any related Engineering field<br><br>Or<br>Certificate in related field | 3 years experience in seal repair and maintenance<br><br>Or<br>5 years experience in seal repair and maintenance |  |  |                      |  |                                   |

**Work Category :** Mechanical Equipment & Services  
 Rotating Equipment Services  
 Mechanical seals  
 Wet Seal for Compressor/Expander Services  
**24221912S**

**Work Category's Description :** The provision of labour, materials, consumables, equipments and facilities necessary for removal, refurbish, leak test and installation of wet seal and auxiliaries for compressor / expander

**Mode of Operation :** Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |  |   |  |  |                      |  |                                   |
|-------------------------------|--|---|--|--|----------------------|--|-----------------------------------|
| Key Personnel                 |  |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification  | Experience  |  |  |                      |  |                                   |
| Engineer                      | Degree in Mechanical Engineering or any related Engineering field  | 5 years experience in seal repair and maintenance   | Workshop, proper office setup          | Personal hand tool, measurement tool, leak test bench, lapping equipment |                      |  |                                   |
| Supervisor                    | Diploma in Mechanical Engineering or any related Engineering field<br><br>Or<br><br>Certificate in related field | 7 years experience in seal repair and maintenance<br><br>Or<br><br>10 years experience in seal repair and maintenance |  |  |                      |  |                                   |

|                      |   |  |
|----------------------|---|--|
| <b>Work Category</b> | : | <b>Mechanical Equipment &amp; Services</b><br><b>Rotating Equipment Services</b><br><b>Turbines</b><br><b>Gas Turbine Services</b> |
|                      |   | <b>24222210S</b>   |

Work Category's Description : The provision of labour, materials, consumables, equipments and facilities necessary for maintenance, repair, overhaul, refurbishment and performance test of gas turbine and auxiliaries

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |  |                      |  |                                   |
|-------------------------------|---|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |  |                      |  |                                   |
| Engineer                      | Degree in Mechanical / Electrical / Control Automation / Instrumentation Engineering  | 1.3 years experience in gas turbine repair and maintenance<br>2.Trained and certified from Principal                           | Workshop facilities and proper office setup in Malaysia. Min – overhead / gantry crane, workbench, forklift (or similar lifting facilities), mills, lathe and boring machine, pipe cutting & threading machine, welding set, balancing machine. | Required tools for overhaul, e.g. shaft straightening tools, alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      |  |                                   |
| Supervisor                    | Diploma in Mechanical / Electrical / Control Automation / Instrumentation Engineering<br><br>Or<br>Certificate in related field | 5 years experience in gas turbine repair and maintenance<br><br>Or<br>7 years experience in gas turbine repair and maintenance |   |  |                      |  |                                   |

**Work Category :** Mechanical Equipment & Services  
 Rotating Equipment Services  
 Turbines  
 Gas Turbine Services  
 24222210S

**Work Category's Description :** The provision of labour, materials, consumables, equipments and facilities necessary for maintenance, repair, overhaul, refurbishment and performance test of gas turbine and auxiliaries

**Mode of Operation :** Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |   |   |   |  |                      |  |                                   |
|-------------------------------|---|---|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |   |   | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH               | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience  |   |  |                      |  |                                   |
| Engineer                      | Degree in Mechanical / Electrical / Control Automation / Instrumentation Engineering<br>Diploma in Mechanical / Electrical / Control Automation / Instrumentation Engineering | 5 years experience in gas turbine repair and maintenance<br>7 years experience in gas turbine repair and maintenance            | Workshop facilities and proper office setup in Malaysia. Min – overhead / gantry crane, workbench, forklift (or similar lifting facilities), mills, lathe and boring machine, pipe cutting & threading machine, welding set, balancing machine. | Required tools for overhaul, e.g. shaft straightening tools, alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      | DOSH Certification:<br>•Perakuan Mesin Angkat – Overhead Crane |                                   |
| Supervisor                    | Diploma in Mechanical / Electrical / Control Automation / Instrumentation Engineering<br><br>Or<br>Certificate in related field   | 7 years experience in gas turbine repair and maintenance<br><br>Or<br>10 years experience in gas turbine repair and maintenance |   |  |                      |  |                                   |

**Work Category :** Mechanical Equipment & Services  
 Rotating Equipment Services  
 Turbines  
 Hydraulic Turbine  
 24222211S

**Work Category's Description :** The provision of labour, materials, consumables, equipments and facilities necessary for maintenance, repair, overhaul, refurbishment and performance test of hydraulic turbine and auxiliaries

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT |  |  |   |  |                      |  |                                   |
|-------------------------------|--|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |  |  | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification  | Experience   |   |  |                      |  |                                   |
| Engineer                      | Degree in Mechanical Engineering or related Engineering field  | 1. 2 years experience in turbine repair and maintenance<br>2. Trained and certified from Principal                     | Workshop facilities and proper office setup in Malaysia. Min – overhead / gantry crane, workbench, forklift (or similar lifting facilities), mills, lathe and boring machine, pipe cutting & threading machine, welding set, balancing machine. | Required tools for overhaul, e.g. shaft straightening tools, alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      |  |                                   |
| Supervisor                    | Diploma in Mechanical Engineering or related Engineering field<br><br>Or<br>Certificate in related field | 3 years experience in turbine repair and maintenance<br><br>Or<br>5 years experience in turbine repair and maintenance |   |  |                      |  |                                   |

**Work Category :** Mechanical Equipment & Services  
 Rotating Equipment Services  
 Turbines  
 Hydraulic Turbine

24222211S

**Work Category's Description :** The provision of labour, materials, consumables, equipments and facilities necessary for maintenance, repair, overhaul, refurbishment and performance test of hydraulic turbine and auxiliaries

**Mode of Operation :** Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |  |  |   |  |                      |  |                                   |
|-------------------------------|--|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |  |  | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH               | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification  | Experience   |   |  |                      |  |                                   |
| Engineer                      | Degree in Mechanical Engineering or related Engineering field  | 3 years experience in turbine repair and maintenance   | Workshop facilities and proper office setup in Malaysia. Min – overhead / gantry crane, workbench, forklift (or similar lifting facilities), mills, lathe and boring machine, pipe cutting & threading machine, welding set, balancing machine. | Required tools for overhaul, e.g. shaft straightening tools, alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      | DOSH Certification:<br>•Perakuan Mesin Angkat – Overhead Crane |                                   |
| Supervisor                    | Diploma in Mechanical Engineering or related Engineering field<br><br>Or<br><br>Certificate in related field | 5 years experience in turbine repair and maintenance<br><br>Or<br><br>7 years experience in turbine repair and maintenance |   |  |                      |  |                                   |

**Work Category :** Mechanical Equipment & Services  
 Rotating Equipment Services  
 Turbines  
 Steam Turbine Services  
**24222212S**

**Work Category's Description :** The provision of labour, materials, consumables, equipments and facilities necessary for maintenance, repair, overhaul, refurbishment and performance test of steam turbine and auxiliaries

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT |  |  |   |  |                      |  |                                   |
|-------------------------------|--|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |  |  | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification  | Experience   |   |  |                      |  |                                   |
| Engineer                      | Degree in Mechanical Engineering or related Engineering field  | 1.3 years experience in steam/gas turbine repair and maintenance<br>2.Trained and certified from Principal                                 | Workshop facilities and proper office setup in Malaysia. Min – overhead / gantry crane, workbench, forklift (or similar lifting facilities), mills, lathe and boring machine, pipe cutting & threading machine, welding set, balancing machine. | Required tools for overhaul, e.g. shaft straightening tools, alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      |  |                                   |
| Supervisor                    | Diploma in Mechanical Engineering or related Engineering field<br><br>Or<br>Certificate in related field | 3 years experience in steam/gas turbine repair and maintenance<br><br>Or<br>5 years experience in steam/gas turbine repair and maintenance |   |  |                      |  |                                   |



|                      |                  |  |
|----------------------|------------------|--|
| <b>Work Category</b> | <b>24222212S</b> | <b>Mechanical Equipment &amp; Services<br/>Rotating Equipment Services<br/>Turbines<br/>Steam Turbine Services</b> |
|----------------------|------------------|--|

Work Category's Description : The provision of labour, materials, consumables, equipments and facilities necessary for maintenance, repair, overhaul, refurbishment and performance test of steam turbine and auxiliaries

Mode of Operation : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |  |                      |  |                                   |
|-------------------------------|---|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH               | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |  |                      |  |                                   |
| Engineer                      | Degree in Mechanical Engineering or related Engineering field<br>Diploma in Mechanical Engineering or related Engineering field | 5 years experience in steam/gas turbine repair and maintenance<br>5 years experience in steam/gas turbine repair and maintenance           | Workshop facilities and proper office setup in Malaysia. Min – overhead / gantry crane, workbench, forklift (or similar lifting facilities), mills, lathe and boring machine, pipe cutting & threading machine, welding set, balancing machine. | Required tools for overhaul, e.g. shaft straightening tools, alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      | DOSH Certification:<br>•Perakuan Mesin Angkat – Overhead Crane |                                   |
| Supervisor                    | Diploma in Mechanical Engineering or related Engineering field<br><br>Or<br>Certificate in related field                        | 5 years experience in steam/gas turbine repair and maintenance<br><br>Or<br>7 years experience in steam/gas turbine repair and maintenance |   |  |                      |  |                                   |

**Work Category :** Mechanical Equipment & Services  
 24222300S Rotating Equipment Services  
 Turbo Expander Maintenance

**Work Category's Description :** The provision of labour, materials, consumables, equipments and facilities necessary for maintenance, repair, overhaul, refurbishment, performance test and commissioning of turbo expander and auxiliaries

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT |  |  |   |  |                      |  |                                   |
|-------------------------------|--|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |  |  | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification  | Experience   |   |  |                      |  |                                   |
| Engineer                      | Degree in Mechanical Engineering or related Engineering field  | 1. 3 years experience in turbo expander repair and maintenance<br>2. Trained and certified from Principal                                | Workshop facilities and proper office setup in Malaysia. Min – overhead / gantry crane, workbench, forklift (or similar lifting facilities), mills, lathe and boring machine, pipe cutting & threading machine, welding set, balancing machine. | Required tools for overhaul, e.g. shaft straightening tools, alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      |  |                                   |
| Supervisor                    | Diploma in Mechanical Engineering or related Engineering field<br><br>Or<br><br>Certificate in related field | 5 years experience in turbo expander repair and maintenance<br><br>Or<br><br>7 years experience in turbo expander repair and maintenance |   |  |                      |  |                                   |

**Work Category :** Mechanical Equipment & Services  
 24222300S Rotating Equipment Services  
 Turbo Expander Maintenance

**Work Category's Description :** The provision of labour, materials, consumables, equipments and facilities necessary for maintenance, repair, overhaul, refurbishment, performance test and commissioning of turbo expander and auxiliaries

**Mode of Operation :** Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |   |   |   |  |                      |  |                                   |
|-------------------------------|---|---|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |   |   | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH               | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience  |   |  |                      |  |                                   |
| Engineer                      | Degree in Mechanical Engineering or related Engineering field<br>Diploma in Mechanical Engineering or related Engineering field | 5 years experience in turbo expander repair and maintenance<br>7 years experience in turbo expander repair and maintenance            | Workshop facilities and proper office setup in Malaysia. Min – overhead / gantry crane, workbench, forklift (or similar lifting facilities), mills, lathe and boring machine, pipe cutting & threading machine, welding set, balancing machine. | Required tools for overhaul, e.g. shaft straightening tools, alignment tools, measuring tools, machine shop tools, torque wrench, etc. |                      | DOSH Certification:<br>•Perakuan Mesin Angkat – Overhead Crane |                                   |
| Supervisor                    | Diploma in Mechanical Engineering or related Engineering field<br><br>Or<br>Certificate in related field                        | 7 years experience in turbo expander repair and maintenance<br><br>Or<br>10 years experience in turbo expander repair and maintenance |   |  |                      |  |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24222400S** **Rotating Equipment Services**  
**Vibrating Screen**

Work Category's Description : The provision of labour, materials, consumables, equipments and facilities necessary for maintenance and repair of vibrating screen

Mode of Operation : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |                                     |  |                          |                     |                      |   |                                   |
|-------------------------------|-------------------------------------|--|--------------------------|---------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |                                     |  | Facilities               | Equipment           | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                       | Experience                                   | E.g. Warehouse, Dockyard | E.g. Tools          |                      |   |                                   |
| Supervisor                    | SPM or certificate in related field | 3 years experience in mechanical maintenance | Proper Office Setup      | Personal Hand Tools |                      |   |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24231100P** **Static Equipment**  
**Coalescer**

Work Category's Description : To design, supply, fabricate, inspect, test and deliver Coalescer for Unfired Pressure Vessel Class I (<32 mm wall thickness), Class II (32-50 mm wall thickness) and Class III (>50 mm wall thickness)

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT     |   |   |  |                         |  |  |                                   |
|-----------------------------------|---|---|--|-------------------------|--|--|-----------------------------------|
| Key Personnel                     |   |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                       | Qualification   | Experience  |  |                         |  |  |                                   |
| Project Engineer /<br>Coordinator | Degree in any Engineering<br>field<br><br>Or<br><br>Diploma in any Engineering<br>field | Minimum 3 years experience<br>in project management | Office Setup                           |                         | Principal to have minimum<br>10 years experience in<br>Coalescer |  |                                   |

**Work Category :** Mechanical Equipment & Services  
**24231100P** Static Equipment  
**Coalescer**

**Work Category's Description :** To design, supply, fabricate, inspect, test and deliver Coalescer for Unfired Pressure Vessel Class I (<32 mm wall thickness), Class II (32-50 mm wall thickness) and Class III (>50 mm wall thickness)

**Mode of Operation :** Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |   |                      |  |                                   |
|-------------------------------|---|--|---|---|----------------------|--|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard                                      | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |   |                      |  |                                   |
| Project Manager               | Degree in Mechanical Engineering<br><br>Or<br><br>Diploma in Mechanical Engineering | Minimum 5 years experience in project management<br><br>Or<br><br>Minimum 7 years experience in project management                   | 1. Office Building 2. Fabrication Yard/ Fabrication & Assembling facilities | 1. Lifting Facilities (i.e. Overhead Crane, forklift)<br>2. Welding facilities<br>3. Access to NDT and heat treatment facilities/services<br>4. Access to rolling machine<br>5. Cutting & bending machine<br>6. Access to blasting & painting facilities / services<br>7. Testing facilities (e.g. pressure test, hydrotest and etc.) |                      | 1. Business License from local authority<br>2. DOSH – "Surat sebagai syarikat pembuat pengandung /bejana tekanan tak berapi" |                                   |
| Production Manager            | Degree in Mechanical Engineering<br><br>Or<br><br>Diploma in Mechanical Engineering | Minimum 5 years experience in pressure vessel fabrication<br><br>Or<br><br>Minimum 7 years experience in pressure vessel fabrication |   |   |                      |  |                                   |
| Engineering Manager           | Degree in Mechanical Engineering  | Minimum 5 years experience in pressure vessel design   |   |   |                      |  |                                   |
| Design Engineer               | Degree in Mechanical Engineering  | Minimum 3 years experience in pressure vessel design   |   |   |                      |  |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)   |   |   |                      |  |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24231800P** **Static Equipment**  
**Other Static Equipment**

**Work Category's Description** : To design, supply, fabricate, inspect, test and deliver such Other Static Equipment such as but not limited to Spheres for Unfired Pressure Vessel Class I (<32 mm wall thickness) and Class II (32-50 mm wall thickness), Aviation Filter Vessel (Jet A1 & Avgas) Parts e.g. side glass, slug valve, air eliminator, etc. for Unfired Pressure Vessel Class I (<32 mm wall thickness) and other static equipment

**Mode of Operation** : **Manufacturer**

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | 1. Business License from local authority<br>2. DOSH – "Surat sebagai syarikat pembuat pengandung /bejana tekanan tak berapi" |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24232000P** **Static Equipment**  
**Strainer**

**Work Category's Description** : To design, supply, fabricate, inspect, test and deliver Strainer for Unfired Pressure Vessel Class I (<32 mm wall thickness), Class II (32-50 mm wall thickness) and Class III (>50 mm wall thickness)

**Mode of Operation** : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |   |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience                                      | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |   |  |                                   |
|                               |               |            |  |                         | Principal to have minimum 10 years experience in strainer |  |                                   |



**Work Category :** Mechanical Equipment & Services  
**24232000P** Static Equipment Strainer

**Work Category's Description :** To design, supply, fabricate, inspect, test and deliver Strainer for Unfired Pressure Vessel Class I (<32 mm wall thickness), Class II (32-50 mm wall thickness) and Class III (>50 mm wall thickness)

**Mode of Operation :** Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |   |                      |  |                                   |
|-------------------------------|---|--|--|---|----------------------|--|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard   | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |  |   |                      |  |                                   |
| Project Manager               | Degree in Mechanical Engineering<br>Or<br>Diploma in Mechanical Engineering | Minimum 5 years experience in project management<br>Or<br>Minimum 7 years experience in project management                   | 1. Office Building<br>2. Fabrication Yard/ Fabrication & Assembling facilities | 1. Lifting Facilities (i.e. Overhead Crane, forklift)<br>2. Pressure Vessel Design software<br>3. Access to rolling machine<br>4. Cutting & bending machine<br>5. Welding facilities<br>6. Access to blasting & painting facilities / services<br>7. Testing facilities (e.g. pressure test, hydrotest and etc.)<br>8. Access to NDT and heat treatment facilities/services |                      | 1. Business License from local authority<br>2. DOSH – "Surat sebagai syarikat pembuat pengandung /bejana tekanan tak berapi" |                                   |
| Production Manager            | Degree in Mechanical Engineering<br>Or<br>Diploma in Mechanical Engineering | Minimum 5 years experience in pressure vessel fabrication<br>Or<br>Minimum 7 years experience in pressure vessel fabrication |  |   |                      |  |                                   |
| Engineering Manager           | Degree in Mechanical Engineering  | Minimum 5 years experience in pressure vessel design   |  |   |                      |  |                                   |
| Design Engineer               | Degree in Mechanical Engineering  | Minimum 3 years experience in pressure vessel design   |  |   |                      |  |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Fact Or Acceptance Test (FAT)   |  |   |                      |  |                                   |

|                      |   |  |
|----------------------|---|--|
| <b>Work Category</b> | : | <b>Mechanical Equipment &amp; Services</b> |
|                      |   | <b>Static Equipment</b>                    |
|                      |   | <b>Towers</b>                              |
|                      |   | <b>24232100P</b>                           |

Work Category's Description : To design, supply, fabricate, inspect, test and deliver of Towers for Unfired Pressure Vessel Class I (<32 mm wall thickness), Class II (32-50 mm wall thickness) and Class III (>50 mm wall thickness)

Mode of Operation : Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |   |                      |  |                                   |
|-------------------------------|---|--|---|---|----------------------|--|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |   |                      |  |                                   |
| Project Manager               | Degree in Mechanical Engineering<br><br>Or<br><br>Diploma in Mechanical Engineering | Minimum 5 years experience in project management<br><br>Or<br><br>Minimum 7 years experience in project management               | 1. Office Building<br>2. Fabrication Yard/<br>Fabrication & Assembling facilities | 1. Lifting Facilities (i.e. Overhead Crane, forklift)<br>2. Pressure Vessel Design software<br>3. Access to rolling machine<br>4. Cutting & bending machine<br>5. Welding facilities<br>6. Access to blasting & painting facilities / services<br>7. Testing facilities (e.g. pressure test, hydrotest and etc.)<br>8. Access to NDT and heat treatment facilities/services |                      | 1. Business License from local authority<br>2. DOSH – "Surat sebagai syarikat pembuat pengandung /bejana tekanan tak berapi" |                                   |
| Production Manager            | Degree in Mechanical Engineering<br><br>Or<br><br>Diploma in Mechanical Engineering | Minimum 5 years experience in pressure vessel fabrication<br>Or<br><br>Minimum 7 years experience in pressure vessel fabrication |   |   |                      |  |                                   |
| Engineering Manager           | Degree in Mechanical Engineering  | Minimum 5 years experience in pressure vessel design   |   |   |                      |  |                                   |
| Design Engineer               | Degree in Mechanical Engineering  | Minimum 3 years experience in pressure vessel design   |   |   |                      |  |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Fact Ony Acceptance Test (FAT)  |   |   |                      |  |                                   |

**Work Category :** Mechanical Equipment & Services  
 Static Equipment Services  
 Atmospheric Storage Tank  
 Cleaning, Repair and Maintenance  
**24241010S**

**Work Category's Description :** The provision of manpower, materials, consumables, equipment and facilities necessary for cleaning/manual desludging, repair, maintenance, calibration and testing of atmospheric storage tank storing white products/media (other than crude oil, LSWR, bitumen) in compliance to API:653 requirements

**Mode of Operation :** Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |   |   |   |  |  |                            |                        |
|-------------------------------|---|---|---|--|--|----------------------------|------------------------|
| Key Personnel                 |   |   | Facilities  | Equipment  | Company's Experience   | External Body Registration | Quality                |
| Designation                   | Qualification   | Experience  | E.g. Warehouse, Dockyard  | E.g. Tools   |  | E.g. CIDB, DOSH            | E.g. ISO, API Standard |
| Project Manager               | Diploma in any Discipline   | <p>Shall have minimum 7 years experience in oil &amp; gas industry in mechanical work and</p> <p>Involved in a minimum of 1 Tank job as a Project Manager in Cleaning, Repair and Maintenance in the past 7 years in oil &amp; gas</p> <p>or</p> <p>Minimum 7 years experience as Project Engineer in Cleaning, Repair and Maintenance in the past 7 years in oil &amp; gas</p>                           | <p>Ownership/lease of the following facilities:</p> <p>1. Proper office<br/>           2. Operational workshop<br/>           3. Fabrication yard</p> | <p>Ownership/lease of the following equipment:</p> <p>1. High Pressure Waterjet<br/>           2. Air compressor<br/>           3. Hand tools<br/>           4. Proof Lighting<br/>           5. Pneumatic 20" and 24" Air Blower<br/>           6. Breathing Apparatus<br/>           7. Diaphragm pump<br/>           8. Welding Machine<br/>           9. Cranes<br/>           10. Blasting and Painting equipment</p> | <p>Minimum 2 tanks cleaning, repair &amp; maintenance (including blasting, painting and hot work at tank shell and bottom plate) in Oil and Gas industry for the last 7 years</p> <p>or</p> <p>Minimum 2 tanks construction of storage tank and minimum 1 cleaning, repair &amp; maintenance (including blasting, painting and hot work at tank shell and bottom plate) in Oil and Gas industry for the last 7 years</p> <p>or</p> <p>Minimum 5 completed Tank Hygienic Cleaning jobs and minimum 1 repair &amp; maintenance (including blasting, painting and hot work at tank shell and bottom plate) in Oil &amp; Gas industry for the last 7 years</p> | N/A                        | N/A                    |
| Project Engineer              | Diploma in Engineering Discipline<br>and<br>Valid NIOSH Confined Space Certification              | <p>Shall have minimum 5 years experience in oil &amp; gas industry in mechanical work and</p> <p>Involved in a minimum of 1 Tank job as a Project Engineer in Cleaning, Repair and Maintenance in the past 7 years in oil &amp; gas</p>   |   |  |  |                            |                        |
| Site Supervisor               | SPM or equivalent certificate in related field<br>and<br>Valid NIOSH Confined Space Certification | 5 years experience as Site Supervisor in Mechanical Maintenance and Repair work   |   |  |  |                            |                        |
| Safety Officer                | SPM or equivalent certificate in related field and registered DOSH green book                     | <p>Safety Officer who possesses valid National Institute of Occupational Safety &amp; Health (NIOSH) certificate and have minimum 5 years working experience as Safety Officer in the oil &amp; gas industry,</p> <p>or</p> <p>Safety Officer who possesses equivalent recognized certificates to NIOSH shall have minimum 8 years working experience as Safety Officer in the oil &amp; gas industry</p> |   |  |  |                            |                        |
| QA/QC Supervisor              | Diploma / certificate in any Engineering discipline   | QA/QC Supervisors shall have minimum 5 years experience in the oil & gas industry as a QA/QC supervisor in fabrication/repair of pressure vessels or storage tank or piping in mechanical field   |   |  |  |                            |                        |

|                        |   |
|------------------------|---|
| <b>Work Category</b> : | <b>Mechanical Equipment &amp; Services</b><br><b>Static Equipment Services</b><br><b>Atmospheric Storage Tank</b><br><b>Desludging, Recovery &amp; Cleaning</b> |
|                        | <b>24241011S</b>  |

Work Category's Description : The provision of manpower, materials, consumables, equipment and facilities necessary to remove the sludge of black products/media (crude oil, LSWR, bitumen) with recovery process whenever possible, and cleaning of storage tank/pond prior to repair and maintenance job at atmospheric tank/pond

Mode of Operation : Self-Operated

|                  |   |  | MINIMUM TECHNICAL REQUIREMENT   |  |   |                            |                        |
|------------------|---|--|---|--|---|----------------------------|------------------------|
| Key Personnel    |   |  | Facilities  | Equipment  | Company's Experience  | External Body Registration | Quality                |
| Designation      | Qualification   | Experience   | E.g. Warehouse, Dockyard  | E.g. Tools   |   | E.g. CIDB, DOSH            | E.g. ISO, API Standard |
| Project Manager  | Diploma in any Discipline   | Shall have minimum 7 years experience in oil & gas industry in mechanical work and<br><br>Involved in a minimum of 1 Tank job as a Project Manager in Desludging, Recovery and Cleaning works in the past 7 years in oil & gas<br><br>or<br><br>Minimum 7 years experience as Project Engineer in Desludging, Recovery and Cleaning works in the past 7 years in oil & gas             | Ownership/lease of the following facilities:<br>1. Proper office<br>2. Operational workshop | Ownership/lease of the following equipment:<br>1. High Pressure Waterjet<br>2. Air compressor<br>3. Hand tools<br>4. Proof Lighting<br>5. Pneumatic 20" and 24" Air Blower<br>6. Breathing Apparatus<br>7. Diaphragm pump<br>8. Centrifuge/ Phase Separator<br>9. Mechanize hydraulically operated sludge removing equipment | Minimum 1 crude oil storage tank job in desludging and cleaning activities in Oil & Gas industry for the last 7 years<br><br>or<br><br>Minimum 5 tanks cleaning, repair & maintenance (including blasting, painting and hot work at tank shell and bottom plate) in Oil and Gas industry for the last 7 years | N/A                        | N/A                    |
| Project Engineer | Diploma in Engineering Discipline<br><br>and<br><br>Valid NIOSH Confined Space Certification              | Shall have minimum 5 years experience in oil & gas industry in mechanical work and<br><br>Involved in a minimum of 1 Tank job as a Project Engineer in Desludging, Recovery and Cleaning works in the past 7 years in oil & gas  |   |  |   |                            |                        |
| Site Supervisor  | SPM or equivalent certificate in related field<br><br>and<br><br>Valid NIOSH Confined Space Certification | 5 years experience as Site Supervisor in Mechanical Maintenance and Repair work  |   |  |   |                            |                        |
| Safety Officer   | SPM or equivalent certificate in related field and registered DOSH green book                             | Safety Officer who possesses valid National Institute of Occupational Safety & Health (NIOSH) certificate and have minimum 5 years working experience as Safety Officer in the oil & gas industry.<br><br>or<br><br>Safety Officer who possesses equivalent recognized certificates to NIOSH shall have minimum 8 years working experience as Safety Officer in the oil & gas industry |   |  |   |                            |                        |
| QA/QC Supervisor | Diploma / certificate in any Engineering discipline   | QA/QC Supervisors shall have minimum 5 years experience in the oil & gas industry as a QA/QC supervisor in fabrication/repair of pressure vessels or storage tank or piping in mechanical field<br><br>and<br><br>QA/QC Supervisors shall possess desludging and recovery processing knowledge.  |   |  |   |                            |                        |

**Work Category :** Mechanical Equipment & Services  
 Static Equipment Services  
 Atmospheric Storage Tank  
 Hygienic Cleaning  
**24241012S**

**Work Category's Description :** The provision of manpower, materials, consumables, equipment and facilities necessary for hygienic cleaning, calibration and testing of atmospheric storage tank storing jet-fuel and diesel products in compliance to Aviation Authority requirement

**Mode of Operation :** Self-Operated

|                  |  |   | MINIMUM TECHNICAL REQUIREMENT   |  |   |                            |                        |
|------------------|--|---|---|--|---|----------------------------|------------------------|
| Key Personnel    |  |   | Facilities  | Equipment  | Company's Experience  | External Body Registration | Quality                |
| Designation      | Qualification  | Experience  | E.g. Warehouse, Dockyard  | E.g. Tools   |   | E.g. CIDB, DOSH            | E.g. ISO, API Standard |
| Project Manager  | Diploma in any discipline  | <p>Shall have minimum 5 years experience in oil &amp; gas industry in mechanical work and</p> <p>Involved in a minimum of 1 Tank job as a Project Manager in Hygienic Cleaning works in the past 7 years in oil &amp; gas</p> <p>or</p> <p>Minimum 7 years experience as Project Engineer in Hygienic Cleaning works in the past 7 years in oil &amp; gas</p>   | <p>Ownership/lease of the following facilities:</p> <p>1. Proper office<br/>2. Operational workshop</p> | <p>Ownership/lease of the following equipment:</p> <p>1. High Pressure Waterjet<br/>2. Air compressor<br/>3. Hand tools<br/>4. Proof Lighting<br/>5. Pneumatic 20" and 24" Air Blower<br/>6. Breathing Apparatus<br/>7. Diaphragm pump</p> | <p>Minimum 3 completed Tank Hygienic Cleaning jobs in Oil &amp; Gas industry for the last 7 years</p> <p>or</p> <p>Minimum 5 completed Vessel Maintenance jobs in Oil &amp; Gas industry for the last 7 years</p> | N/A                        | N/A                    |
| Project Engineer | <p>Diploma in Engineering Discipline</p> <p>and</p> <p>Valid NIOSH Confined Space Certification</p>              | <p>Shall have minimum 3 years experience in oil &amp; gas industry in mechanical work and</p> <p>Involved in a minimum of 1 Tank job as a Project Engineer in Hygienic Cleaning works in the past 7 years in oil &amp; gas</p>  |   |  |   |                            |                        |
| Site Supervisor  | <p>SPM or equivalent certificate in related field</p> <p>and</p> <p>Valid NIOSH Confined Space Certification</p> | 5 years experience as Site Supervisor in Mechanical Maintenance and Repair work   |   |  |   |                            |                        |
| Safety Officer   | SPM or equivalent certificate in related field and registered DOSH green book                                    | <p>Safety Officer who possesses valid National Institute of Occupational Safety &amp; Health (NIOSH) certificate and have minimum 5 years working experience as Safety Officer in the oil &amp; gas industry.</p> <p>or</p> <p>Safety Officer who possesses equivalent recognized certificates to NIOSH shall have minimum 8 years working experience as Safety Officer in the oil &amp; gas industry</p> |   |  |   |                            |                        |

**Work Category** : **Mechanical Equipment & Services**  
**24241300S** **Static Equipment Services**  
**Decoking**

Work Category's Description : The provision of manpower, materials, consumables, equipment and facilities necessary for decoking

Mode of Operation : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |                                  |                                |  |                                 |                      |  |                                   |
|-------------------------------|----------------------------------|--------------------------------|--|---------------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |                                  |                                | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools         | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                    | Experience                     |  |                                 |                      |  |                                   |
| Engineer                      | Degree in Mechanical Engineering | 3 years experience in Decoking | Proper office setup in Malaysia        | Pigging machine and accessories |                      |  |                                   |
| Supervisor                    | SPM Or equivalent                | 5 years experience in Decoking |  |                                 |                      |  |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24241400S** **Static Equipment Services**  
**Furnaces & Fired Heaters**

Work Category's Description : The provision of manpower, materials, consumables, equipment and facilities necessary for cleaning, repair, maintenance, testing and commissioning of Furnaces, fired heaters & flares

Mode of Operation : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |   |   |                                      |  |                      |   |                                   |
|-------------------------------|---|---|--------------------------------------|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |   | Facilities                           | Equipment  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience  | E.g. Warehouse, Dockyard             | E.g. Tools   |                      |   |                                   |
| Project Engineer              | Degree in Mechanical Engineering                                      | 3 years experience in static fired equipment repair & maintenance   | Proper office & operational workshop | 1. Waterjet /hydrojet<br>2. Air compressor<br>3. Access to lifting equipment<br>4. Hand tools<br>5. Generator set,<br>6. Welding set,<br>7. Ventilator |                      |   |                                   |
| Site Supervisor               | Diploma in Mechanical Engineering<br>Or<br>Certificate in engineering | 5 years experience in static fired equipment repair & maintenance<br>Or<br>10 years experience in static fired equipment repair & maintenance |                                      |  |                      |   |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24241600S** **Static Equipment Services**  
**Hydraulic Bolt Tensioning & Bolt Torquing Services**

Work Category's Description : The provision of labour, materials, consumables, equipments and training necessary for hydraulic bolt tensioning and bolt torquing services

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |   |  |                                      |  |                      |   |                                   |
|-------------------------------|---|--|--------------------------------------|--|----------------------|---|-----------------------------------|
| Key Personnel                 |   |  | Facilities                           | Equipment  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   | E.g. Warehouse, Dockyard             | E.g. Tools   |                      |   |                                   |
| Engineer                      | Degree in Mechanical Engineering Or relevant field  | 3 years experience in bolt tensioning and bolt torquing services in oil & gas industry | Proper office & operational workshop | 1. Calibrated bolt tensioning equipment<br>2. Calibrated bolt torquing equipment<br>3. Access to underwater services (e.g. divers)<br><br>*Company to provide the list of equipment, quantity, owned/ rent, owner (if rented). |                      |   |                                   |
| Supervisor                    | Diploma in Mechanical Engineering Or relevant field<br><br>Or<br>Certificate in related field | N/A  |                                      |  |                      |   |                                   |



**Work Category :** Mechanical Equipment & Services  
 Static Equipment Services  
 Non-Atmospheric Storage Tank  
 Cryogenic Storage Tank  
**24241910S**

**Work Category's Description :** The provision of manpower, materials, consumables, equipment and facilities necessary for cleaning, repair, maintenance, testing and commissioning of cryogenic storage tank

**Mode of Operation :** Self-Operated

| Key Personnel    |  |  | MINIMUM TECHNICAL REQUIREMENT   |   |                      |  |                                   |
|------------------|--|--|---|---|----------------------|--|-----------------------------------|
| Designation      | Qualification  | Experience   | Facilities<br>E.g. Warehouse, Dockyard  | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Project Manager  | Diploma in any Engineering discipline or Diploma in Civil / Mechanical Engineering | 5 years experience in project management and 5 years experience in tank maintenance & repair | Proper office & operational workshop<br>Stationary Equipment Repair & Maintenance | 1. Waterjet /hydrojet<br>2. Air compressor<br>3. Access to lifting equipment<br>4. Hand tools |                      |  |                                   |
| Project Engineer | Degree in Civil / Mechanical Engineering   | 5 years experience in tank maintenance & repair  |   |   |                      |  |                                   |
| Site Supervisor  | Certificate in engineering   | 5 years experience in tank maintenance & repair  |   |   |                      |  |                                   |

**Work Category :** Mechanical Equipment & Services  
 24271100P Water Treatment Equipment  
 Electro De-ionization (EDI)

**Work Category's Description :** To design, supply, fabricate, deliver, install, testing and commissioning of Electro De-ionization (EDI)

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |  |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |  |  |                                   |
|                               |               |            |  |                         | Principal to have minimum 5 years experience in manufacture, supply and provision of associated services and minimum 10 proven track record in the field of Electro De-ionization (EDI) System |  |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24271200P** **Water Treatment Equipment**  
**Fresh Water Reverse Osmosis**

Work Category's Description : To design, supply, fabricate, deliver, install, testing and commissioning of Reverse Osmosis

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |  |   |                                   |
|-------------------------------|---------------|------------|--------------------------|------------|--|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience   | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |  |   |                                   |
|                               |               |            |                          |            | Principal to have minimum 5 years experience in manufacture, supply and provision of associated services and minimum 10 proven track record in the field of reverse Osmosis System |   |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24271300P** **Water Treatment Equipment**  
**Micro/Ultra/Nano Filter**

Work Category's Description : To design, supply, fabricate, deliver, install, testing and commissioning of Micro/Ultra/Nano Filter

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |   |   |                                   |
|-------------------------------|---------------|------------|--------------------------|------------|---|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience  | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |   |   |                                   |
|                               |               |            |                          |            | Principal to have minimum 5 years experience in manufacture, supply and provision of associated services and minimum 10 proven track record in the field of Micro / Ultra Filter system |   |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24172000P** **Hoisting & Lifting Equipment**  
**Pedestal Crane**

Work Category's Description : To design, assemble, supply, deliver, install, hook up, test, commission pedestal crane and conduct training on operation

Mode of Operation : Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |  |                                   |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      |  |                                   |
|                               |               |            |                          |            |                      | 1.Business License from local authority<br>2.DOSH – "Surat sebagai syarikat pembuat struktur mesin angkat" |                                   |

**Work Category** : **24181000S** **Mechanical Equipment & Services**  
**Hoisting & Lifting Equipment**  
**Elevator/Lifts**

Work Category's Description : The provision of manpower, materials, consumables, equipment and facilities necessary for overhaul, refurbish, maintenance, testing and certificate validation of elevator/lifts

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |  |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|--|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration   | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH  | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | DOSH - Pemasang, Penyelenggara & Pemasang Lif, Eskalator & Dumbwater |                        |

**Work Category** : **Mechanical Equipment & Services**  
**24181600S** **Hoisting & Lifting Equipment**  
**Offshore Crane**

**Work Category's Description** : The provision of manpower, materials, consumables, equipment and facilities necessary for overhaul, refurbish, maintenance, testing and certificate validation of offshore cranes

**Mode of Operation** : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |  |                                   |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      |  |                                   |
|                               |               |            |                          |            |                      | 1.DOSH – "Surat sebagai syarikat pembuat struktur mesin angkat"<br>or<br>2.DOSH – "Surat sebagai Syarikat Pemasang, Penyelenggara & Perombak Mesin Angkat" |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24181700S** **Hoisting & Lifting Equipment**  
**Overhead Crane Services**

**Work Category's Description** : The provision of manpower, materials, consumables, equipment and facilities necessary for overhaul, refurbish, maintenance, testing and certificate validation of overhead cranes

**Mode of Operation** : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |   |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|---|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration                                    | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH   | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | DOSH – "Surat sebagai syarikat pembuat struktur mesin angkat" |                        |



**Work Category** : **Mechanical Equipment & Services**  
**24191100S** **Mechanical Engineering Consultancy**  
**Static & Piping Consultancy**

**Work Category's Description** : The provision to conduct static & piping basic engineering study such as but not limited to mechanical asset life study, lifting study, mechanical audit & assessment and operations & maintenance strategy

**Mode of Operation** : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |  |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|--|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration                                     | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH  | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | Personnel to be registered with BEM as a professional engineer |                        |

**Work Category** : **Mechanical Equipment & Services**  
**24231900P** **Static Equipment**  
**Pressure Vessel**

Work Category's Description : To design, supply, fabricate, inspect, test and deliver of Unfired Pressure Vessel Class I (<32 mm wall thickness), Class II (32-50 mm wall thickness) and III (>50 mm wall thickness)

Mode of Operation : Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |   |                                   |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      |   |                                   |
|                               |               |            |                          |            |                      | 1.Business License from local authority<br>2.DOSH – "Surat sebagai syarikat pembuat pengandung/bejana tekanan tak berapi" |                                   |

**Work Category** : **Mechanical Equipment & Services**  
**24241100S** **Static Equipment Services**  
**Boilers Services**

Work Category's Description : The provision of manpower, materials, consumables, equipments and facilities necessary for cleaning, repair, maintenance, pressure testing and commissioning of boilers

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |   |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|---|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration                      | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH                                 | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | DOSH - "Surat sebagai pembaikpulih dandang stm" |                        |

**Work Category :** Mechanical Equipment & Services  
 Static Equipment Services  
 24241200S Columns, Stripper & Corrugated Plate Interceptor

**Work Category's Description :** The provision of manpower, materials, consumables, equipments and facilities necessary for cleaning, repair, testing and maintenance of columns, strippers & corrugated plate interceptor

**Mode of Operation :** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |  |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|--|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration   | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH  | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | DOSH - "Surat sebagai pembalpkulih pengandung/bejana tekanan tak berapi" |                        |

**Work Category** : **Mechanical Equipment & Services**  
**24241500S** **Static Equipment Services**  
**Heat Exchangers, Condensers & Cooler**

**Work Category's Description** : The provision of manpower, materials, consumables, equipments and facilities necessary for cleaning, repair, maintenance, pressure testing and commissioning of heat exchanger (including condensers, cooler and air fin cooler)

**Mode of Operation** : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |  |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|--|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration   | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH  | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | DOSH - "Surat sebagai pembalkpilih pengandung/bejana tekanan tak berapi" |                        |

**Work Category** : **Mechanical Equipment & Services**  
**24242100S** **Static Equipment Services**  
**Pressure & Unpressurized Vessel**

**Work Category's Description** : The provision of manpower, materials, consumables, equipment and facilities necessary for cleaning, repair, testing maintenance and commissioning of pressure & unpressurized vessels

**Mode of Operation** : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |  |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|--|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration   | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH  | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | DOSH - "Surat sebagai pembalkpilih pengandung/bejana tekanan tak berapi" |                        |

**Work Category** : **Mechanical Equipment & Services**  
**24242200S** **Static Equipment Services**  
**Reactors**

**Work Category's Description** : The provision of manpower, materials, consumables, equipment and facilities necessary for cleaning, repair, testing and maintenance of reactors (excluding catalyst absorbant changeout)

**Mode of Operation** : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |                      |  |                        |
|-------------------------------|---------------|------------|--------------------------|------------|----------------------|--|------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience | External Body Registration   | Quality                |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |                      | E.g. CIDB, DOSH  | E.g. ISO, API Standard |
|                               |               |            |                          |            |                      | DOSH - "Surat sebagai pembalkpuluh pengandung/bejana tekanan tak berapi" |                        |

**Work Category** : **Office, Administration & Professional Services**  
**25161000S** **Laboratory Services**  
**External Laboratory Analysis Services**

Work Category's Description : The provision of external laboratory analysis services for sample testing

Mode of Operation : Self Operated

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |  |                      |  |                                   |
|-------------------------------|---|--|--|--|----------------------|--|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |  |  |                      |  |                                   |
| Technical Advisor             | Min Degree in Chemistry/<br>Applied Chemistry/ Industrial<br>Chemistry  | Minimum of 5 years<br>experience in Oil & Gas<br>Chemical Analytical Testing | Operational Laboratory                 | Laboratory equipment used<br>to conduct sample analysis<br>(E.g. liquid hydro carbon<br>sample, gas sample, water<br>sample and etc) |                      | Business License from Local<br>Authority         |                                   |
| Chemist                       | Min Degree in Chemistry/<br>Applied Chemistry/ Industrial<br>Chemistry  | Minimum of 3 years<br>experience in Oil & Gas<br>Chemical Analytical Testing |  |  |                      |  |                                   |
| Lab Technician                | Min Diploma in Chemistry/<br>Applied Chemistry/ Industrial<br>Chemistry | Minimum of 1 years<br>experience in Oil & Gas<br>Chemical Analytical Testing |  |  |                      |  |                                   |



**Work Category :** Office, Administration & Professional Services  
**25161300S** Laboratory Services  
 Laboratory Equipment Calibration Services

**Work Category's Description :** The provision of calibration services for laboratory equipment and apparatus

**Mode of Operation :** Self-Operated

| Key Personnel            |  |  | MINIMUM TECHNICAL REQUIREMENT                   |   |                      |  |                                   |
|--------------------------|--|--|---|---|----------------------|--|-----------------------------------|
| Designation              | Qualification  | Experience   | Facilities<br>E.g. Warehouse, Dockyard          | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Service Engineer/Chemist | Degree in any engineering or chemistry   | Minimum of 7 years experience in laboratory equipment repair or maintenance or calibration   | 1. Permanent office setup<br>2. Calibration lab | Laboratory equipment and apparatus used to conduct calibration (E.g. standard weight, reference thermometer, temperature controlled bath and etc) |                      | Business License from Local Authority            |                                   |
| Service Technician       | Min Diploma in any engineering or chemistry or Min Certificate in any engineering or chemistry | Minimum of 3 years experience in laboratory equipment repair or maintenance or calibration or Minimum of 5 years experience in laboratory equipment repair or maintenance or calibration |   |   |                      |  |                                   |

**Work Category :** Office, Administration & Professional Services  
**25161500S** Laboratory Services  
 Laboratory Operation Services

**Work Category's Description :** The provision of analysis, equipment calibration, repair & maintenance , consultancy and associated services in laboratory operation services

**Mode of Operation :** Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |  |                      |  |                                   |
|-------------------------------|---|--|--|--|----------------------|--|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |  |  |                      |  |                                   |
| Technical Advisor             | Min Degree in Chemistry/<br>Applied Chemistry/ Industrial<br>Chemistry  | Minimum of 10 years<br>experience in Oil & Gas<br>Analytical Testing and<br>laboratory management. | Operational Laboratory                 | Laboratory equipment used<br>to conduct sample analysis<br>(E.g. liquid hydro carbon<br>sample, gas sample, water<br>sample and etc) |                      | Business License from Local<br>Authority         |                                   |
| Chemist                       | Min Degree in Chemistry/<br>Applied Chemistry/ Industrial<br>Chemistry  | Minimum of 5 years<br>experience in Oil & Gas<br>Analytical Testing                                |  |  |                      |  |                                   |
| Lab Technician                | Min Diploma in Chemistry/<br>Applied Chemistry/ Industrial<br>Chemistry | Minimum of 2 years<br>experience in Oil & Gas<br>Analytical Testing                                |  |  |                      |  |                                   |

**Work Category** : **Office, Administration & Professional Services**  
**25121500S** **Business Travel Management**  
**Travel Management Companies (TMC)**

Work Category's Description : The provision of travelling support services such as but not limited to ticket booking, room reservations and transport arrangements

Mode of Operation : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            |  |                         |                      | Registration with Ministry of Culture, Arts & Tourism Malaysia<br>Excluding services at KLCC-Petronas Twin Towers |                                   |

**Work Category** : **Office, Administration & Professional Services**  
**25161100S** **Laboratory Services**  
**HSE Laboratory Services**

**Work Category's Description** : The provision of HSE laboratory services for Chemical/Biological/Environment monitoring (mercury, heavy metal) & radiological, fire forensic, hydrocarbon finger printing and wastes

**Mode of Operation** : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |   |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH<br>Skim Akreditasi Makmal<br>Malaysia (SAMM) | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |   |                                   |
|                               |               |            |  |                         |                      |   |                                   |

**Work Category** : Office, Administration & Professional Services  
 25201200S Office/Residential Equipment & Building Services  
 Printing, Binding, Photostating, Scanning, Digitising & Photography

Work Category's Description : The provision of printing, binding, photostating, scanning, digitizing and drawing reproduction

Mode of Operation : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |                      |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |                      |  |                                   |
|                               |               |            |  |                         |                      | Lesen mesin cetak* (KDN)                         |                                   |

**Work Category** : Office, Administration & Professional Services  
 25131100S Catering  
 Offshore Catering

Work Category's Description : The provision of offshore catering and related services

Mode of Operation : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |               |  |  |                         |  |   |                                   |
|-------------------------------|---------------|--|--|-------------------------|--|---|-----------------------------------|
| Key Personnel                 |               |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience   |  |                         |  |   |                                   |
| Operations Manager            | N/A           | Minimum 5 years experience in managing catering services |  |                         | Minimum 1 year experience in onshore / offshore catering with minimum of 50 pax served | Food Safety Information System of Malaysia (FOSIM) Certificate or FOSIM Registration Slip by Ministry of Health (MOH) |                                   |

**Work Category** : **26101200P** **Oil Country Tubular Goods (OCTG) & Line Pipes**  
**Line Pipes**  
**Bends**

Work Category's Description : To supply and deliver hot/induction bend

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT       |                                 |   |  |                         |                      |  |                                   |
|-------------------------------------|---------------------------------|---|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                       |                                 |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                         | Qualification                   | Experience  |  |                         |                      |  |                                   |
| Project Manager                     | Degree in any Engineering field | Minimum 7 years experience in managing procurement of bends / pipes | Manned and permanent office setup      |                         |                      |  |                                   |
| Project Engineer                    | Degree in any Engineering field | Minimum 5 years experience in managing procurement of bends / pipes |  |                         |                      |  |                                   |
| Procurement Coordinator / Executive | Degree in any Engineering field | Minimum 3 years experience in procurement of bends / pipes          |  |                         |                      |  |                                   |

**Work Category :** 26101300P **Oil Country Tubular Goods (OCTG) & Line Pipes**  
**Line Pipes**  
**Carbon Steel Seamless Pipes**

**Work Category's Description :** To supply and deliver carbon steel seamless pipes

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT       |                                 |   |  |                         |                      |  |                                   |
|-------------------------------------|---------------------------------|---|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                       |                                 |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                         | Qualification                   | Experience  |  |                         |                      |  |                                   |
| Project Manager                     | Degree in any Engineering field | Minimum 7 years experience in managing procurement of pipes | Manned and permanent office setup      |                         |                      |  |                                   |
| Project Engineer                    | Degree in any Engineering field | Minimum 5 years experience in managing procurement of pipes |  |                         |                      |  |                                   |
| Procurement Coordinator / Executive | Degree in any Engineering field | Minimum 3 years experience in procurement of pipes          |  |                         |                      |  |                                   |



**Work Category** : **26101410P** **Oil Country Tubular Goods (OCTG) & Line Pipes**  
**Line Pipes**  
**Carbon Steel Welded Pipes**  
**Carbon Steel - Electric Resistance Welded (ERW) Pipes**

Work Category's Description : To supply and deliver carbon steel ERW pipes

Mode of Operation : Agent

| Key Personnel                       |                                 |   | MINIMUM TECHNICAL REQUIREMENT          |                         |                      |  |                                   |
|-------------------------------------|---------------------------------|---|--|-------------------------|----------------------|--|-----------------------------------|
| Designation                         | Qualification                   | Experience  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Project Manager                     | Degree in any Engineering field | Minimum 7 years experience in managing procurement of pipes | Manned and permanent office setup      |                         |                      |  |                                   |
| Project Engineer                    | Degree in any Engineering field | Minimum 5 years experience in managing procurement of pipes |  |                         |                      |  |                                   |
| Procurement Coordinator / Executive | Degree in any Engineering field | Minimum 3 years experience in procurement of pipes          |  |                         |                      |  |                                   |

**Work Category :** 26101411P **Oil Country Tubular Goods (OCTG) & Line Pipes**  
**Line Pipes**  
**Carbon Steel Welded Pipes**  
**Carbon Steel - Longitudinal Submerged Arc Welded (LSAW) Pipes**

**Work Category's Description :** To supply and deliver carbon steel LSAW pipes

**Mode of Operation :** Agent

| Key Personnel                       |                                 |   | MINIMUM TECHNICAL REQUIREMENT          |                         |                      |  |                                   |
|-------------------------------------|---------------------------------|---|--|-------------------------|----------------------|--|-----------------------------------|
| Designation                         | Qualification                   | Experience  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Project Manager                     | Degree in any Engineering field | Minimum 7 years experience in managing procurement of pipes | Manned and permanent office setup      |                         |                      |  |                                   |
| Project Engineer                    | Degree in any Engineering field | Minimum 5 years experience in managing procurement of pipes |  |                         |                      |  |                                   |
| Procurement Coordinator / Executive | Degree in any Engineering field | Minimum 3 years experience in procurement of pipes          |  |                         |                      |  |                                   |

**Work Category** : **Oil Country Tubular Goods (OCTG) & Line Pipes**  
**Line Pipes**  
**Carbon Steel Welded Pipes**  
**Carbon Steel - Spiral Submerged Arc Welded (SSAW) Pipes**  
**26101413P**

Work Category's Description : To supply and deliver carbon steel SSAW pipes

Mode of Operation : Agent

| Key Personnel                       |                                 |   | MINIMUM TECHNICAL REQUIREMENT          |                         |                      |  |                                   |
|-------------------------------------|---------------------------------|---|--|-------------------------|----------------------|--|-----------------------------------|
| Designation                         | Qualification                   | Experience  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Project Manager                     | Degree in any Engineering field | Minimum 7 years experience in managing procurement of pipes | Manned and permanent office setup      |                         |                      |  |                                   |
| Project Engineer                    | Degree in any Engineering field | Minimum 5 years experience in managing procurement of pipes |  |                         |                      |  |                                   |
| Procurement Coordinator / Executive | Degree in any Engineering field | Minimum 3 years experience in procurement of pipes          |  |                         |                      |  |                                   |

**Work Category** : **26101500P** **Oil Country Tubular Goods (OCTG) & Line Pipes**  
**Line Pipes**  
**Corrosion Resistance Alloy (CRA) Clad**

Work Category's Description : To supply and deliver Corrosion Resistance Alloy (CRA) Clad such as but not limited to Metallurgical and Mechanical

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT         |  |  |  |                         |                      |  |                                   |
|---------------------------------------|--|--|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                         |  |  | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                           | Qualification                              | Experience   |  |                         |                      |  |                                   |
| Project Engineer                      | Degree in any Engineering discipline/field | Minimum 7 years experience in managing procurement of pipes/ bends |  |                         |                      |  |                                   |
| Engineer                              | Degree in any Engineering discipline/field | Minimum 5 years experience in managing procurement of pipes/ bends |  |                         |                      |  |                                   |
| Procurement Coordinator/<br>Executive | Degree in any Engineering discipline/field | Minimum 3 years experience in procurement of pipes/ bends          |  |                         |                      |  |                                   |

**Work Category** : **26101600P** **Oil Country Tubular Goods (OCTG) & Line Pipes**  
**Line Pipes**  
**Cupro Nickle Seamless Pipes**

Work Category's Description : To supply and deliver cupro nickle seamless pipes

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT       |                                 |   |  |                         |                      |  |                                   |
|-------------------------------------|---------------------------------|---|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                       |                                 |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                         | Qualification                   | Experience  |  |                         |                      |  |                                   |
| Project Manager                     | Degree in any Engineering field | Minimum 7 years experience in managing procurement of pipes | Manned and permanent office setup      |                         |                      |  |                                   |
| Project Engineer                    | Degree in any Engineering field | Minimum 5 years experience in managing procurement of pipes |  |                         |                      |  |                                   |
| Procurement Coordinator / Executive | Degree in any Engineering field | Minimum 3 years experience in procurement of pipes          |  |                         |                      |  |                                   |

**Work Category :** Oil Country Tubular Goods (OCTG) & Line Pipes  
**26101800P** Duplex Stainless Steel Seamless Pipes

**Work Category's Description :** To supply and deliver duplex stainless steel seamless pipes

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT       |                                 |   |  |                         |                      |  |                                   |
|-------------------------------------|---------------------------------|---|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                       |                                 |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                         | Qualification                   | Experience  |  |                         |                      |  |                                   |
| Project Manager                     | Degree in any Engineering field | Minimum 7 years experience in managing procurement of pipes | Manned and permanent office setup      |                         |                      |  |                                   |
| Project Engineer                    | Degree in any Engineering field | Minimum 5 years experience in managing procurement of pipes |  |                         |                      |  |                                   |
| Procurement Coordinator / Executive | Degree in any Engineering field | Minimum 3 years experience in procurement of pipes          |  |                         |                      |  |                                   |

**Work Category** : **26102000P** **Oil Country Tubular Goods (OCTG) & Line Pipes**  
**Line Pipes**  
**Monel Seamless Pipes**

Work Category's Description : To supply and deliver monel seamless pipes

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT       |                                 |   |  |                         |                      |  |                                   |
|-------------------------------------|---------------------------------|---|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                       |                                 |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                         | Qualification                   | Experience  |  |                         |                      |  |                                   |
| Project Manager                     | Degree in any Engineering field | Minimum 7 years experience in managing procurement of pipes | Manned and permanent office setup      |                         |                      |  |                                   |
| Project Engineer                    | Degree in any Engineering field | Minimum 5 years experience in managing procurement of pipes |  |                         |                      |  |                                   |
| Procurement Coordinator / Executive | Degree in any Engineering field | Minimum 3 years experience in procurement of pipes          |  |                         |                      |  |                                   |

**Work Category** : **Oil Country Tubular Goods (OCTG) & Line Pipes**  
**26102300P** **Line Pipes**  
**Stainless Steel Seamless Pipes**

Work Category's Description : To supply and deliver stainless steel seamless pipes

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT       |                                 |   |  |                         |                      |  |                                   |
|-------------------------------------|---------------------------------|---|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                       |                                 |   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                         | Qualification                   | Experience  |  |                         |                      |  |                                   |
| Project Manager                     | Degree in any Engineering field | Minimum 7 years experience in managing procurement of pipes | Manned and permanent office setup      |                         |                      |  |                                   |
| Project Engineer                    | Degree in any Engineering field | Minimum 5 years experience in managing procurement of pipes |  |                         |                      |  |                                   |
| Procurement Coordinator / Executive | Degree in any Engineering field | Minimum 3 years experience in procurement of pipes          |  |                         |                      |  |                                   |



**Work Category :** Oil Country Tubular Goods (OCTG) & Line Pipes  
 26111000P Offshore - Pipeline  
 Flexible Flowline

**Work Category's Description :** To supply and deliver flexible pipeline/riser/flowline, ancillaries and spare parts, proprietary items, qualified personnels, repair and refurbishment equipment including provision of engineering and repair services

**Mode of Operation :** Manufacturer

| MINIMUM TECHNICAL REQUIREMENT            |  |  |  |                         |                      |  |                                   |
|--|--|--|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                            |  |  | Facilities<br>E.g. Warehouse, Dockyard                                 | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                              | Qualification  | Experience   |  |                         |                      |  |                                   |
| Project Manager / Lead / Senior Engineer | Master in any relevant engineering discipline, preferably Riser Engineering / Pipeline Engineering/ Mechanical Engineering/ Marine Engineering/ Structural/Naval Architecture<br>Or<br>B.Eng/ Diploma in any relevant engineering discipline, preferably Riser Engineering / Pipeline Engineering/ Mechanical Engineering/ Marine Engineering/ Structural/Naval Architecture | 5 years of experience in supply and design of flexible pipeline/ riser/ flowline<br><br>7 years of experience in supply and design of flexible pipeline/ riser/ flowline | Proper office setup, Manufacturing Plant, Storage and Test Facilities. |                         |                      |  |                                   |

**Work Category :** Oil Country Tubular Goods (OCTG) & Line Pipes  
 26111000P Offshore - Pipeline  
 Flexible Flowline

**Work Category's Description :** To supply and deliver flexible pipeline/riser/flowline, ancillaries and spare parts, proprietary items, qualified personnels, repair and refurbishment equipment including provision of engineering and repair services

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |  |                         |   |  |                                   |
|-------------------------------|---------------|------------|--|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |  |                         |   |  |                                   |
|                               |               |            |  |                         | Principal to have minimum of 5 years experience in supply and design of flexible pipeline/ riser/ flowline (Company to provide list of experiences) |  |                                   |

**Work Category** : **Oil Country Tubular Goods (OCTG) & Line Pipes**  
**26111100P** **Offshore - Pipeline**  
**Riser**

**Work Category's Description** : To supply and deliver top tension riser system/hybrid riser system/riser components but not limited to flex joint, stress joint, bouyancy system, connectors, fairings/strake and spare parts, proprietary items, qualified personnels, repair and refurbishment equipment including provision of engineering and repair services

**Mode of Operation** : **Manufacturer**

| MINIMUM TECHNICAL REQUIREMENT            |  |  |  |            |                      |                            |                        |
|--|--|--|--|------------|----------------------|----------------------------|------------------------|
| Key Personnel                            |  |  | Facilities   | Equipment  | Company's Experience | External Body Registration | Quality                |
| Designation                              | Qualification  | Experience   | E.g. Warehouse, Dockyard   | E.g. Tools |                      | E.g. CIDB, DOSH            | E.g. ISO, API Standard |
| Project Manager / Lead / Senior Engineer | Master in any relevant engineering discipline, preferably Riser Engineering / Pipeline Engineering/ Mechanical Engineering/ Marine Engineering/ Structural/Naval Architecture<br>Or<br>B.Eng/ Diploma in any relevant engineering discipline, preferably Riser Engineering / Pipeline Engineering/ Mechanical Engineering/ Marine Engineering/ Structural/Naval Architecture | 5 years of experience in supply and design of top tension riser system, hybrid riser system and riser components<br><br>7 years of experience in supply and design of top tension riser system, hybrid riser system and riser components | Proper office setup, Manufacturing Plant, Storage and Test Facilities. |            |                      |                            |                        |

**Work Category** : **Oil Country Tubular Goods (OCTG) & Line Pipes**  
**26111100P** **Offshore - Pipeline**  
**Riser**

**Work Category's Description** : To supply and deliver top tension riser system/hybrid riser system/riser components but not limited to flex joint, stress joint, bouyancy system, connectors, fairings/strike and spare parts, proprietary items, qualified personnels, repair and refurbishment equipment including provision of engineering and repair services

**Mode of Operation** : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |                          |            |  |   |                                   |
|-------------------------------|---------------|------------|--------------------------|------------|--|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities               | Equipment  | Company's Experience   | External Body Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience | E.g. Warehouse, Dockyard | E.g. Tools |  |   |                                   |
|                               |               |            |                          |            | Principal to have minimum of 5 years experience in supply and design of top tension riser system/ hybrid riser system/ riser components (Company to provide list of experiences) |   |                                   |

**Work Category** : **26121200S** **Oil Country Tubular Goods (OCTG) & Line Pipes**  
**Oil Country Tubular Goods (OCTG)**  
**Pipe Threading Services**

Work Category's Description : The provision of Pipe Threading Facilities and Services

Mode of Operation : Self-Operated

| Key Personnel     |                           |   | Minimum Technical Requirement                |  |                      |  |                                   |
|-------------------|---------------------------|---|--|--|----------------------|--|-----------------------------------|
| Position Title    | Qualification             | Experience  | Facilities<br>E.g. Warehouse, Dockyard       | Equipment / Machineries<br>E.g. Tools                  | Company's Experience | External Bodies<br>Registration<br>E.g. CIDB | Quality<br>E.g. ISO, API Standard |
| Technical Manager | Degree in any engineering | Minimum 5 years experience in oilfield tubular and OCTG | Proper office setup and workshop in Malaysia | Complete Set of Torque Machine and Threading Equipment |                      |  |                                   |
| Well Manager      | Degree in any engineering | Minimum 3 years experience in oilfield tubular and OCTG |  |  |                      |  |                                   |

**Work Category :** Operations & Maintenance Services and Turnaround & Shutdown Services  
**27101000S** Offshore Maintenance, Construction & Modification (MCM)  
 Floating Offshore Production Facilities O&M

**Work Category's Description :** The provision of manpower, materials, consumables, equipment and facilities for operations and maintenance of floating offshore facilities such as but not limited to FPSO, FSO, TLP, SPAR and Semi-sub

**Mode of Operation :** Self-operated

| MINIMUM TECHNICAL REQUIREMENT                               |               |   |   |                         |   |  |                                   |
|---|---------------|---|---|-------------------------|---|--|-----------------------------------|
| Key Personnel   |               |   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation   | Qualification | Experience  |   |                         |   |  |                                   |
| Operations Director/<br>Manager/ Chief<br>Operating Officer | N/A           | 10 year's experience in in<br>floating offshore facilities<br>related works | Manned & Permanent<br>Office Setup        |                         | Minimum 3 years<br>experience in Oil and Gas<br>floating offshore facilities<br>related works |  |                                   |

**Work Category :** Operations & Maintenance Services and Turnaround & Shutdown Services  
**27101000S** Offshore Maintenance, Construction & Modification (MCM)  
 Floating Offshore Production Facilities O&M

**Work Category's Description :** Services related to operations and maintenance of floating offshore facilities such as but not limited to FPSO, FSO, TLP, SPAR, Semi-sub, etc.

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT          |  |  |   |                         |  |  |                                   |
|--|--|--|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                          |  |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                            | Qualification  | Experience   |   |                         |  |  |                                   |
| Company/ Principal:<br>Project Manager | Bachelor Degree in<br>Engineering  | Min ten (10) years<br>experience in managing<br>similar scope of services  | Proper office setup                       |                         | Principal to have<br>minimum 10 years<br>experience in Oil and Gas<br>business with minimum<br>of 5 years of proven track<br>record in floating<br>offshore facilities<br>business |  |                                   |
| Company/ Principal: Lead<br>Engineers  | Bachelor Degree in any<br>relevant engineering<br>discipline, preferably<br>Naval Architecture /<br>Marine Engineering /<br>Mechanical Engineering /<br>Structural / Riser<br>Engineering / Pipeline<br>Engineering. Master is<br>preferred. | 5 years experience in Oil<br>and Gas business with a<br>minimum of 3 years of<br>operation / design /<br>fabrication / conversion<br>of Floating Offshore<br>Facilities e.g.: FPSO,<br>FPSO, FPS, TLP, Spar,<br>Semisub, etc |   |                         |  |  |                                   |

**Work Category :** Operations & Maintenance Services and Turnaround & Shutdown Services  
 Operations Consultancy Services  
 27121000S Flow Assurance

**Work Category's Description :** The provision of engineering services in the area of Flow Assurance Analysis during various stages including but not limited to Feasibility Study, Concept Select Study and Front End Engineering Design (FEED) of development project

**Mode of Operation :** Self Operated

| Key Personnel              |  |   | MINIMUM TECHNICAL REQUIREMENT   |  |                      |  |                                   |
|----------------------------|--|---|---|--|----------------------|--|-----------------------------------|
| Designation                | Qualification  | Experience  | Facilities<br>E.g. Warehouse,<br>Dockyard   | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Project /Technical Manager | B.Eng /Sc in any engineering discipline              | Minimum 15 years experience in engineering with a minimum 8 years experience in flow assurance analysis & 5 years experience in process engineering analysis  | Manned and permanent engineering office setup complete with Flow Assurance engineering software & drafting facilities | Company to provide the list of engineering software, e.g. HYSYS, PIPESIM, OLGA<br><br>*Company to provide list of software(s) and copy of the software license(s). |                      | Registration with BOE (Form F)                   |                                   |
| Lead / Senior Engineer     | B.Eng/ Diploma in any related engineering discipline | Minimum 15 years experience in engineering with a minimum 5 years experience in flow assurance analysis, 3 years experience in process engineering analysis & 2 years experience in pipeline hydraulic analysis |   |  |                      |  |                                   |



**Work Category :** Operations & Maintenance Services and Turnaround & Shutdown Services  
 27121100S Upstream Consultancy Services  
 Integrated Operations Consultancy & Services

**Work Category's Description :** The provision to conduct engineering study, services, Maintenance of Integrated Operations such as but not limited to SmartCen, Smart Well, Smart Field, Data Historian, Collaboration Centre, Upstream Modeling and Analysis Software, Optimization System, Data Quality Assurance and Information Management

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT   |   |  |   |  |   |  |                                   |
|---------------------------------|---|--|---|--|---|--|-----------------------------------|
| Key Personnel                   |   |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools                                | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification   | Experience   |   |  |   |  |                                   |
| Project Coordinator             | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management   | Manned and permanent office setup         | 1.Hand tools<br>2.Engineering & Configuration software | Principal to have minimum 10 years experience in O&G Integrated Operations Consultancy & Services |  |                                   |
| Project /Field Service Engineer | Degree in any Engineering field                                     | Minimum 3 years experience in Integrated Operations and Advanced Computer System selection and servicing, trained and certified from Principal |   |  |   |  |                                   |
| Technician                      | Trained and certified by Principal                                  | Minimum 5 years experience in instrumentation System installation  |   |  |   |  |                                   |

**Work Category :** Operations & Maintenance Services and Turnaround & Shutdown Services  
 27121100S Upstream Consultancy Services  
 Integrated Operations Consultancy & Services

**Work Category's Description :** The provision to conduct engineering study, services, Maintenance of Integrated Operations (e.g. SmartCen, Smart Well, Smart Field, Data Historian, Collaboration Centre, Upstream Modeling and Analysis Software, Optimization System, Data Quality Assurance, Information Management)

**Mode of Operation :** Self-Operated

| MINIMUM TECHNICAL REQUIREMENT   |   |  |   |  |                      |  |                                   |
|---------------------------------|---|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                   |   |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools                                | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification   | Experience   |   |  |                      |  |                                   |
| Project Coordinator             | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management                             | Manned and permanent office setup         | 1.Hand tools<br>2.Engineering & Configuration software |                      |  |                                   |
| Project /Field Service Engineer | Degree in any Engineering field                                     | Minimum 3 years experience in Integrated Operations and Advanced Computer System selection and servicing , trained and certified |   |  |                      |  |                                   |
| Technician                      | Trained and certified   | Minimum 5 years experience in instrumentation System installation  |   |  |                      |  |                                   |

**Work Category :** Operations & Maintenance Services and Turnaround & Shutdown Services  
 27121300S Operations Consultancy Services  
 Plant & Topside 3D Scanning & Modelling

**Work Category's Description :** The provision to provide services, equipment, software and manpower for plant & topside 3D scanning and modeling

**Mode of Operation :** Self Operated

| MINIMUM TECHNICAL REQUIREMENT     |                                  |   |   |   |                      |  |                                   |
|-----------------------------------|----------------------------------|---|---|---|----------------------|--|-----------------------------------|
| Key Personnel                     |                                  |   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                       | Qualification                    | Experience  |   |   |                      |  |                                   |
| Project Manager                   | Degree in Mechanical Engineering | Minimum 7 years experience in Consultancy                     | Manned and permanent office setup         | 1.Relevant software to required study (e.g. PDMS, Auto- CAD, etc)<br>2.Laser scanning equipment<br>3.Photogrammetry equipment<br>4.Theodolite |                      |  |                                   |
| Engineer                          | Degree in Mechanical Engineering | Minimum 5 years experience in Consultancy                     |   |   |                      |  |                                   |
| Lead surveyor (scanning surveyor) | Diploma in engineering           | Minimum 5 years experience in photogrammetry & laser scanning |   |   |                      |  |                                   |

**Work Category :** Operations & Maintenance Services and Turnaround & Shutdown Services  
**27131300S** Pipeline Maintenance  
 Pipeline In-Line Inspection

**Work Category's Description :** Provision of labor, material, equipment, services and facilities for pipeline in-line inspection

**Mode of Operation :** Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |  |   |   |  |                      |  |                                   |
|-------------------------------|--|---|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |  |   | Facilities<br>E.g. Warehouse,<br>Dockyard   | Equipment<br>E.g. Tools                                  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification  | Experience  |   |  |                      |  |                                   |
| Project Manager               | Degree in any Engineering discipline   | Minimum 7 years experience in Pipeline In-Line Inspection | 1. Manned and permanent office<br>2. Warehouse<br>3. Workshop<br>4. Testing and I/I analysis facilities | Data Analyst Software, equipments, tools and accessories |                      |  |                                   |
| Sr. Data Analyst              | 1. Degree in any Engineering discipline<br>2. Minimum Grade 2 data analyst certificate | Minimum 5 years experience in Pipeline In-Line Inspection |   |  |                      |  |                                   |
| Field Engineer / Supervisor   | Diploma / certificate in any Engineering discipline                                    | Minimum 3 years experience in Pipeline In-Line Inspection |   |  |                      |  |                                   |

**Work Category :** Operations & Maintenance Services and Turnaround & Shutdown Services  
**27131300S** Pipeline Maintenance  
 Pipeline In-Line Inspection

**Work Category's Description :** Provision of labor, material, equipment, services and facilities for pipeline in-line inspection

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT |                                 |   |   |                         |                      |  |                                   |
|-------------------------------|---------------------------------|---|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |                                 |   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                   | Experience  |   |                         |                      |  |                                   |
| Project Manager               | Degree in any Engineering field | 7 years experience in Pipeline In-Line Inspection | Manned and permanent office setup         |                         |                      |  |                                   |
| Project Engineer              | Degree in any Engineering field | 5 years experience in Pipeline In-Line Inspection |   |                         |                      |  |                                   |

**Work Category :** Operations & Maintenance Services and Turnaround & Shutdown Services  
**27131400S** Pipeline Maintenance  
 Pipeline Internal Cleaning (Cleaning Pigging)

**Work Category's Description :** Provision of labor, material, equipment, services and facilities for pipeline internal cleaning (Cleaning Pigging), such as refurbishment, management of operational activities, etc.

**Mode of Operation :** Self-Operated

| Key Personnel               |   |  | MINIMUM TECHNICAL REQUIREMENT                                 |                         |                      |  |                                   |
|-----------------------------|---|--|---|-------------------------|----------------------|--|-----------------------------------|
| Designation                 | Qualification                                       | Experience   | Facilities<br>E.g. Warehouse,<br>Dockyard                     | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Project Manager             | Degree in any Engineering discipline                | Minimum 7 years experience in pipeline internal cleaning | 1. Manned and permanent office<br>2. Warehouse<br>3. Workshop | PIGs                    |                      |  |                                   |
| Field Engineer / Supervisor | Diploma / certificate in any Engineering discipline | Minimum 3 years experience in pipeline internal cleaning |   |                         |                      |  |                                   |

**Work Category :** Operations & Maintenance Services and Turnaround & Shutdown Services  
 27131400S Pipeline Maintenance  
 Pipeline Internal Cleaning (Cleaning Pigging)

**Work Category's Description :** Provision of labor, material, equipment, services and facilities for pipeline internal cleaning (Cleaning Pigging), such as refurbishment, management of operational activities, etc.

**Mode of Operation :** Agent

| Key Personnel    |                                      |  | MINIMUM TECHNICAL REQUIREMENT             |                         |                      |  |                                   |
|------------------|--------------------------------------|--|---|-------------------------|----------------------|--|-----------------------------------|
| Designation      | Qualification                        | Experience                                       | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Project Manager  | Degree in any Engineering discipline | 7 years experience in pipeline internal cleaning | Manned and permanent office setup         |                         |                      |  |                                   |
| Project Engineer | Degree in any Engineering field      | 5 years experience in pipeline internal cleaning |   |                         |                      |  |                                   |

**Work Category** : **Operations & Maintenance Services and Turnaround & Shutdown Services**  
**27131500S** **Pipeline Maintenance**  
**Riser Repair & Maintenance**

Work Category's Description : Provision of labor, material, equipment, services and facilities for Riser Repair & Maintenance

Mode of Operation : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |                         |                      |  |                                   |
|-------------------------------|---|--|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse,<br>Dockyard                           | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                                       | Experience   |   |                         |                      |  |                                   |
| Project Manager               | Degree in any Engineering discipline                | Minimum 7 years experience in riser repair & maintenance | 1. Manned and permanent office setup<br>2. Warehouse<br>3. Workshop | NDT equipment & tools   |                      |  |                                   |
| Field Engineer / Supervisor   | Diploma / certificate in any Engineering discipline | Minimum 3 years experience in riser repair & maintenance |   |                         |                      |  |                                   |



**Work Category :** Operations & Maintenance Services and Turnaround & Shutdown Services  
**27151000S** Turnaround/Shutdown Services  
**100k - 350k Manhours**

**Work Category's Description :** The provision of manpower, materials, consumables, equipment and facilities necessary for integrated end-to-end planning and preparation, execution and sub-contractor management for Turnaround / Shutdown between 100k – 350k manhours not limited to mechanical defect works for static equipment, structural and piping.

**Mode of Operation** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |  |  |  |  |  |   |   |
|-------------------------------|--|--|--|--|--|---|---|
| Key Personnel                 |  |  | Facilities<br>E.g. Warehouse,<br>Dockyard                                    | Equipment<br>E.g. Tools  | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH                                    | Quality<br>E.g. ISO, API Standard       |
| Designation                   | Qualification  | Experience   |  |  |  |   |   |
| Turnaround Manager            | Diploma in any discipline  | Turnaround Manager shall have minimum 10 years experience in oil & gas industry in mechanical work<br><br>and<br><br>Involved in a minimum of 3 Turnaround works as Turnaround Manager in the past 6 years in oil & gas turnaround.                | 1. Proper office<br>2. Operational workshop<br>3. Access to fabrication yard | Ownership/Lease of the following equipment:<br><br>1. One (1) Bundle Puller (10T - 25T)<br>2. One (1) Bundle Puller (30T - 45T)<br>3. Two (2) Hydrojet machine Semiautomatic | Cumulative shutdown/turnaround execution manhours of 150,000 within the last Four (4) years<br><br>and<br><br>At least Three (3) Shutdown/Turnaround execution of above 50,000 manhours within the last Ten (10) years | DOSH - "Surat sebagai syarikat pembaikpulihan Pengandung/Bejana Tekanan Tak Berapi" | Quality Management System (or ISO 9001) |
| Turnaround Scheduler          | Diploma in any discipline  | Turnaround Scheduler shall have minimum 6 years experience in oil & gas industry in mechanical maintenance work<br><br>and<br><br>Involved in a minimum of 3 Turnaround works as Turnaround Scheduler in the past 6 years in oil & gas turnaround. |  |  |  |   |   |
| 2 Turnaround Planner          | Diploma in any discipline  | Turnaround Planner shall have minimum 6 years experience in oil & gas industry in mechanical maintenance work<br><br>and<br><br>Involved in a minimum of 3 Turnaround works as Turnaround Planner in the past 6 years in oil & gas turnaround.     |  |  |  |   |   |
| 5 Turnaround Supervisor       | SPM or certificate in related field                                | Minimum 5 years working experience as Turnaround Supervisor in Turnaround maintenance work in oil & gas industry.  |  |  |  |   |   |
| 5 Work Leader                 | SPM or certificate in related field                                | Minimum 5 years working experience as Turnaround Work Leader/Foreman in Turnaround maintenance work in oil & gas industry.   |  |  |  |   |   |
| Safety Officer                | SPM or certificate in related field and registered DOSH green book | Minimum 5 years working experience as Safety Officer in the oil & gas industry   |  |  |  |   |   |
| 2 QA/QC Supervisor            | Diploma / certificate in Mechanical Engineering discipline         | QA/QC Supervisors shall have minimum 5 years experience in the oil & gas industry as supervisors in fabrication/repair of pressure vessels and piping and/or in QA/QC in mechanical field.   |  |  |  |   |   |

**Work Category :** Operations & Maintenance Services and Turnaround & Shutdown Services  
Turnaround/Shutdown Services  
27151100S Below 100k Manhours

**Work Category's Description :** The provision of manpower, materials, consumables, equipment and facilities necessary for integrated end-to-end planning and preparation, execution and sub-contractor management for Turnaround / Shutdown below 100k manhours not limited to mechanical defect works for static equipment, structural and piping.

**Mode of Operation** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |  |   |  |  |  |  |                                   |
|-------------------------------|--|---|--|--|--|--|-----------------------------------|
| Key Personnel                 |  |   | Facilities<br>E.g. Warehouse,<br>Dockyard                                    | Equipment<br>E.g. Tools  | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification  | Experience  |  |  |  |  |                                   |
| Turnaround Manager            | Diploma in any discipline  | Shutdown/Turnaround Manager shall have minimum 7 years experience in oil & gas industry in mechanical work<br><br>and<br><br>Involved in a minimum of 2 Shutdown/Turnaround works as Shutdown/Turnaround Manager in the past 6 years in oil & gas shutdown/turnaround.    | 1. Proper office<br>2. Operational workshop<br>3. Access to fabrication yard | Ownership/Lease of the following equipment:<br><br>1. One (1) Bundle Puller (10T - 25T)<br>2. One (1) Hydrojet machine Semiautomatic | Minimum of Five (5) years providing Daily Maintenance on Mechanical work in Oil/Gas/Petchem plant within the last Ten (10) years |  | Quality Management System         |
| Turnaround Planner            | Diploma in any discipline  | Shutdown/Turnaround Planner shall have minimum 5 years experience in oil & gas industry in mechanical maintenance work<br><br>and<br><br>Involved in a minimum of 2 Shutdown/Turnaround works as Shutdown/Turnaround Planner in the past 6 years in oil & gas turnaround. |  |  |  |  |                                   |
| 3 Turnaround Supervisor       | SPM or certificate in related field                                | Minimum 5 years working experience as Shutdown/Turnaround Supervisor in Shutdown/Turnaround maintenance work oil & gas industry.  |  |  |  |  |                                   |
| 3 Work Leader                 | SPM or certificate in related field                                | Minimum 5 years working experience as Shutdown/Turnaround Work Leader/Foreman in Shutdown/Turnaround maintenance work in oil & gas industry.  |  |  |  |  |                                   |
| Safety Officer                | SPM or certificate in related field and registered DOSH green book | Minimum 5 years working experience as Safety Officer in the oil & gas industry  |  |  |  |  |                                   |
| QA/QC Supervisor              | Diploma / certificate in Mechanical Engineering discipline         | QA/QC Supervisors shall have minimum 5 years experience in the oil & gas industry as supervisors in fabrication/repair of pressure vessels and piping and/or in QA/QC in mechanical field.  |  |  |  |  |                                   |

**Work Category :** Operations & Maintenance Services and Turnaround & Shutdown Services  
**27151200S Turnaround/Shutdown Services More than 350k Manhours**

**Work Category's Description :** The provision of manpower, materials, consumables, equipment and facilities necessary for integrated end-to-end planning and preparation, execution and sub-contractor management for Turnaround / Shutdown more than 350k manhours not limited to mechanical defect works for static equipment, structural and piping.

**Mode of Operation :** Self-operated

| Key Personnel           |  |  | MINIMUM TECHNICAL REQUIREMENT   |  |  |   |   |
|-------------------------|--|--|---|--|--|---|---|
| Designation             | Qualification  | Experience   | Facilities<br>E.g. Warehouse,<br>Dockyard   | Equipment<br>E.g. Tools  | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH                                    | Quality<br>E.g. ISO, API Standard       |
| 2 Turnaround Manager    | Degree in Engineering  | Turnaround Manager shall have minimum 10 years experience in oil & gas industry in mechanical work<br><br>and<br><br>Involved in a minimum of 3 Turnaround works as Turnaround Manager in the past 6 years in oil & gas turnaround.            | 1. Proper office<br>2. Operational workshop<br>3. Access to fabrication yard<br>4. Training center for operational excellence, with CIDB and DOSH certified module (or any equivalent certification) for development of fitters, supervisor and work leader | Ownership/Lease of the following equipment:<br><br>1. Two (2) Bundle Puller (10T - 25T)<br>2. Two (2) Bundle Puller (30T - 45T)<br>3. Three (3) Hydrojet machine Semiautomatic | Cumulative (inclusive of Shareholder's experience) of turnaround execution manhours of 450,000 within the last Five (5) years<br><br>and<br><br>At least Three (3) Turnaround execution of above 300,000 manhours within the last Ten (10) years | DOSH - "Surat sebagai syarikat pembaikpulihan Pengandung/Bejana Tekanan Tak Berapi" | Quality Management System (or ISO 9001) |
| 2 Turnaround Scheduler  | Diploma in any discipline  | Turnaround Scheduler shall have minimum 8 years experience oil & gas industry in mechanical maintenance work<br><br>and<br><br>Involved in a minimum of 3 Turnaround works as Turnaround Scheduler in the past 6 years oil & gas turnaround.   |   |  |  |   |   |
| 4 Turnaround Planner    | Diploma in any discipline  | Turnaround Planner shall have minimum 8 years experience in oil & gas industry in mechanical maintenance work<br><br>and<br><br>Involved in a minimum of 3 Turnaround works as Turnaround Planner in the past 6 years in oil & gas turnaround. |   |  |  |   |   |
| 8 Turnaround Supervisor | SPM (or equivalent) or certificate in related field  | Minimum 5 years working experience as Turnaround Supervisor in Turnaround maintenance work in oil & gas industry.  |   |  |  |   |   |
| 8 Work Leader           | SPM (or equivalent) or certificate in related field  | Minimum 5 years working experience as Turnaround Work Leader/Foreman in Turnaround maintenance work in oil & gas industry.   |   |  |  |   |   |
| 2 Safety Officer        | Diploma (or equivalent) or certificate in related field and registered DOSH green book (or equivalent) | Minimum 5 years working experience as Safety Officer in the oil & gas industry   |   |  |  |   |   |
| 4 QA/QC Supervisor      | Diploma / certificate in Mechanical Engineering discipline   | QA/QC Supervisors shall have minimum 5 years experience in the oil & gas industry as supervisors in fabrication/repair of pressure vessels and piping and/or in QA/QC in mechanical field.   |   |  |  |   |   |

**Work Category** : **27101100S** **Operations & Maintenance Services and Turnaround & Shutdown Services**  
**Offshore Maintenance, Construction & Modification (MCM)**  
**Living Quarters**

**Work Category's Description** : The provision of manpower, materials, consumables, equipment and facilities necessary for repair and maintenance of living quarters

**Mode of Operation** : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |                      |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |                      |  |                                   |
|                               |               |            |   |                         |                      | CIDB   |                                   |

**Work Category** : **27101200S** **Operations & Maintenance Services and Turnaround & Shutdown Services**  
**Offshore Maintenance, Construction & Modification (MCM)**  
**Maintenance & Repairs of Offshore Facilities**

**Work Category's Description** : The provision of labour, materials, consumables, equipments and facilities necessary for maintenance and repair of offshore facilities (topside, jacket and pipeline)

**Mode of Operation** : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |                      |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |                      |  |                                   |
|                               |               |            |   |                         |                      | CIDB M   |                                   |

**Work Category** : **27101300S** **Operations & Maintenance Services and Turnaround & Shutdown Services**  
**Offshore Maintenance, Construction & Modification (MCM)**  
**Topside Piping & Structural**

**Work Category's Description** : The provision of manpower, materials, consumables, equipment and facilities necessary for repair and maintenance of topside facilities (piping and structural)

**Mode of Operation** : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |                      |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |                      |  |                                   |
|                               |               |            |   |                         |                      | CIDB   |                                   |

**Work Category** : **Operations & Maintenance Services and Turnaround & Shutdown Services**  
**27111000S** **Offshore Maintenance, Construction & Modification (MCM)**  
**Minor Onshore Fabrication**

**Work Category's Description** : The provision of manpower, services, equipment, materials and facilities for minor onshore fabrication works for civil/ mechanical/electrical & instrumentation/ structural onshore fabrication works including but not limited to structure, grating works and equipment installation & associated structural works

**Mode of Operation** : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |                      |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH           | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |                      |  |                                   |
|                               |               |            |   |                         |                      | CIDB related category<br>(i.e. CE21; Grade G3, M,<br>or E) |                                   |

**Work Category :** 27140000S **Operations & Maintenance Services and Turnaround & Shutdown Services**  
**Service Station Maintenance & Upgrading Works**

**Work Category's Description :** The provision of manpower, materials, equipment, services, project management and facilities for maintenance and upgrading of service station including civil, mechanical & electrical works

**Mode of Operation :** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |                      |   |                                   |
|-------------------------------|---------------|------------|---|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                            | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |                      |   |                                   |
|                               |               |            |   |                         |                      | 1. CIDB B02 or B04;<br>Grade G3 & above<br>2. CIDB M12; Grade G3<br>& above |                                   |



**Work Category** : **Operations & Maintenance Services and Turnaround & Shutdown Services**  
**27161300S** **Underwater Services**  
**Underwater Engineering, Construction & Maintenance Services**

Work Category's Description : The provision of manpower, materials, equipment, services and facilities for Underwater Engineering, Construction & Maintenance Services

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |                      |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |                      |  |                                   |
|                               |               |            |   |                         |                      | CIDB - category CE                               |                                   |

**Work Category** : **Operations & Maintenance Services and Turnaround & Shutdown Services**  
**27161300S** **Underwater Services**  
**Underwater Engineering, Construction & Maintenance Services**

Work Category's Description : The provision of manpower, materials, equipment, services and facilities for Underwater Engineering, Construction & Maintenance Services

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |                      |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |                      |  |                                   |
|                               |               |            |   |                         |                      | CIDB - category CE                               |                                   |

**Work Category :** Process Piping Equipment & Services  
 28101000P Actuator Valves  
 Actuated On/Off Valves

**Work Category's Description :** To design, engineer, supply, deliver, install, hook up, integrate, test and commission of complete assembly of Actuated On/Off Valves

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |   |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |   |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in O&G Actuated On/Off Valves related works |  |                                   |

**Work Category** : **Process Piping Equipment & Services**  
**28101100P** **Actuator Valves**  
**Control Valves**

Work Category's Description : To design, engineer, assemble, supply, deliver, install, hook up, test, commission and training of Control Valves

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |   |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |   |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in O&G Control Valves related works |  |                                   |

Work Category : Process Piping Equipment & Services  
 28101200P Actuator Valves  
 Hydraulic Type

Work Category's Description : To design, engineer, assemble, supply, deliver, install, hook up and test Hydraulic Type Actuator

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |  |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |  |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in O&G Hydraulic Actuators related works |  |                                   |

**Work Category :** Process Piping Equipment & Services  
 28101300P Actuator Valves  
 Instrument Valves & Manifolds

**Work Category's Description :** To design, engineer, assemble, supply, deliver, install, hook up and tes Instrument Valves and Manifolds

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |  |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |  |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in O&G Instrument Valves and Manifolds related works |  |                                   |

**Work Category :** Process Piping Equipment & Services  
**28101500P Actuator Valves MOV**

**Work Category's Description :** To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of Electric Actuator of an MOV system with its control system

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT     |   |  |   |  |                      |  |                                   |
|-----------------------------------|---|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                     |   |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                       | Qualification   | Experience   |   |  |                      |  |                                   |
| Project Engineer /<br>Coordinator | Degree in any<br>Engineering field<br><br>Or<br><br>Diploma in any<br>Engineering field | Minimum 3 years<br>experience in project<br>management<br><br>Or<br><br>Minimum 5 years<br>experience in project<br>management | Manned and permanent<br>office setup      | 1. Special tools required<br>for MOVs e.g. Hand<br>programming tool<br>2. Multi Tester<br>3. Relevant Software &<br>PC/laptop for<br>communication check |                      |  |                                   |
| Field Service Engineer            | Degree in Electrical<br>Engineering   | Minimum 3 years<br>experience in MOV and its<br>control system, trained<br>and certified from<br>Principal                     |   |  |                      |  |                                   |
| Technician / Electrician          | Certificate in Electrical<br>field  | Minimum 5 years<br>experience in MOV and its<br>control system   |   |  |                      |  |                                   |

**Work Category :** Process Piping Equipment & Services  
**28101500P** Actuator Valves  
**MOV**

**Work Category's Description :** To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of Electric Actuator of an MOV system with its control system

**Mode of Operation :** Assembler

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |  |                      |  |                                   |
|-------------------------------|---|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse,<br>Dockyard   | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |  |                      |  |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience MOV and its control system production   | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility | 1. Special tools required for MOVs e.g. Hand programming tool<br>2. Multi Tester<br>3. Relevant Software & PC/laptop for communication check |                      | Business License from Local Authority            |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management                             |   |  |                      |  |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 5 years experience in MOV and its control system installation, commission and troubleshoot. Trained and certified by Principal |   |  |                      |  |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 3 years experience MOV and its control system design   |   |  |                      |  |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)   |   |  |                      |  |                                   |



**Work Category :** Process Piping Equipment & Services  
 Actuator Valves  
 28101500P MOV

**Work Category's Description :** To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of Electric Actuator of an MOV system with its control system

**Mode of Operation :** Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |  |  |                      |  |                                   |
|-------------------------------|---|--|--|--|----------------------|--|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse,<br>Dockyard  | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |  |  |                      |  |                                   |
| Production Manager            | Degree in any Engineering field   | Minimum 5 years experience MOV and its control system production   | 1. Manned and permanent office setup<br>2. Assembling facility<br>3. Testing facility<br>4. R&D facility | 1. Special tools required for MOVs e.g. Hand programming tool<br>2. Multi Tester<br>3. Relevant Software & PC/laptop for communication check |                      | Business License from Local Authority            |                                   |
| Project Coordinator           | Degree in any Engineering field<br>Or<br>Diploma in any Engineering field | Minimum 3 years experience in project management<br>Or<br>Minimum 5 years experience in project management |  |  |                      |  |                                   |
| Field Service Engineer        | Degree in Electrical Engineering  | Minimum 10 years experience in MOV and its control system installation, commission and troubleshoot        |  |  |                      |  |                                   |
| Design Engineer               | Degree in Electrical Engineering  | Minimum 5 years experience in MOV and its control system transformer design                                |  |  |                      |  |                                   |
| QA/QC Engineer                | Degree in any Engineering field   | Minimum 3 years experience doing QA/QC and Factory Acceptance Test (FAT)                                   |  |  |                      |  |                                   |
| R&D Engineer                  | Degree in Electrical Engineering  | Minimum 5 years experience in MOV and its control system design  |  |  |                      |  |                                   |

**Work Category** : **Process Piping Equipment & Services**  
**28101600P** **Actuator Valves**  
**Pneumatic Type Actuator Valves**

Work Category's Description : To design, engineer, assemble, supply, deliver, install, hook up and test Pneumatic Type Actuator Valves

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |  |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |  |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in O&G Pneumatic Actuators related works |  |                                   |

**Work Category** : **Process Piping Equipment & Services**  
**28101700P** **Actuator Valves**  
**Solenoid**

Work Category's Description : To design, assemble, supply, deliver, install, hook up, test, commission and personnel training of Electric Actuator of Solenoid system

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |   |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |   |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in O&G Electric Actuators related works |  |                                   |

**Work Category** : **Process Piping Equipment & Services**  
**28101800P** **Actuator Valves**  
**Solenoid Valves**

Work Category's Description : To design, engineer, assemble, supply, deliver, install, hook up, test, commission of Solenoid Valves

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |  |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |  |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in O&G Solenoid Valves related works |  |                                   |

**Work Category :** Process Piping Equipment & Services  
 28101900P Actuator Valves  
 Thermostatic Valves

**Work Category's Description :** To design, engineer, assemble, supply, deliver, install, hook up, test, commission of Thermostatic Valves

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |  |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |  |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in O&G Thermostatic Valves related works |  |                                   |

**Work Category :** **Process Piping Equipment & Services**  
**28102000P** **Actuator Valves**  
**Valve Accessories & Ancillaries**

**Work Category's Description :** To design, engineer, assemble, supply, deliver, install, hook up, test and commission of Valve Accessories & Ancillaries such as but not limited to Valve Positioners, Process Regulators, other Valve Accessories & Ancillaries (i.e. regulator, lock up valve, switching valve).

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |  |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |  |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in valve related works in oil and gas industry (e.g. Valve Positioners, Process Regulators/Self Regulating Valve, Valve Accessories and Ancillaries, etc.) |  |                                   |

**Work Category :** **Process Piping Equipment & Services**  
**28111100S Actuator Valves Maintenance Instrumentation Valve**

**Work Category's Description :** The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, overhaul, refurbish, maintenance, testing and commissioning of Instrumentation Valve such as but not limited to Pneumatic Actuated Valve, Hydraulic Actuated Valve, Solenoid Operated Valve (SOV) and Regulator

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT   |                                 |  |   |  |  |  |                                   |
|---------------------------------|---------------------------------|--|---|--|--|--|-----------------------------------|
| Key Personnel                   |                                 |  | Facilities<br>E.g. Warehouse,<br>Dockyard         | Equipment<br>E.g. Tools  | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification                   | Experience   |   |  |  |  |                                   |
| Project /Field Service Engineer | Degree in any Engineering field | Minimum 3 years experience in valve sizing, selection and servicing , trained and certified from Principal | 1.Manned and permanent office setup<br>2.Workshop | 1.Hand tools 2.Calibrators<br>3.Test Equipment<br>4.Machining Equipment<br>5.Software/Tools for diagnostic | Principal to have minimum 10 years experience in O&G valve related works |  |                                   |
| Technician                      | N/A                             | Minimum 5 years experience in valve servicing  |   |  |  |  |                                   |

**Work Category :** Process Piping Equipment & Services  
 28111100S Actuator Valves Maintenance Instrumentation Valve

**Work Category's Description :** The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, overhaul, refurbish, maintenance, testing and commissioning of Instrumentation Valve such as but not limited to Pneumatic Actuated Valve, Hydraulic Actuated Valve, Solenoid Operated Valve (SOV) and Regulator

**Mode of Operation :** Self-operated

| MINIMUM TECHNICAL REQUIREMENT   |                                 |   |   |  |                      |  |                                   |
|---------------------------------|---------------------------------|---|---|--|----------------------|--|-----------------------------------|
| Key Personnel                   |                                 |   | Facilities<br>E.g. Warehouse,<br>Dockyard         | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification                   | Experience  |   |  |                      |  |                                   |
| Project /Field Service Engineer | Degree in any Engineering field | Minimum 3 years experience in valve sizing, selection and servicing | 1.Manned and permanent office setup<br>2.Workshop | 1.Hand tools 2.Calibrators<br>3.Test Equipment<br>4.Machining Equipment<br>5.Software/Tools for diagnostic |                      |  |                                   |
| Technician                      | N/A                             | Minimum 5 years experience in valve servicing                       |   |  |                      |  |                                   |



**Work Category :** Process Piping Equipment & Services  
 28111200S Actuator Valves Maintenance  
 Special Application Valve

**Work Category's Description :** The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, overhaul, refurbish, maintenance, testing and commissioning of Special Application Valve such as Cryogenic valve, Severe Service valve, Special design Valve, Oxygen Service valve

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT   |                                    |  |   |  |  |  |                                   |
|---------------------------------|------------------------------------|--|---|--|--|--|-----------------------------------|
| Key Personnel                   |                                    |  | Facilities<br>E.g. Warehouse,<br>Dockyard         | Equipment<br>E.g. Tools  | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification                      | Experience   |   |  |  |  |                                   |
| Project /Field Service Engineer | Degree in any Engineering field    | Minimum 3 years experience in valve sizing, selection and servicing , trained and certified from Principal | 1.Manned and permanent office setup<br>2.Workshop | 1.Hand tools<br>2.Calibrators<br>3.Test Equipment<br>4.Machining Equipment<br>5.Software /Tools for diagnostic | Principal to have minimum 10 years experience in O&G valve related works |  |                                   |
| Technician                      | Trained and certified by Principal | Minimum 5 years experience in valve servicing  |   |  |  |  |                                   |

**Work Category** : **Process Piping Equipment & Services**  
**28111200S** **Actuator Valves Maintenance**  
**Special Application Valve**

Work Category's Description : The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, overhaul, refurbish, maintenance, testing and commissioning of Special Application Valve such as Cryogenic valve, Severe Service valve, Special design Valve, Oxygen Service valve

Mode of Operation : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT   |                                 |   |   |  |                      |  |                                   |
|---------------------------------|---------------------------------|---|---|--|----------------------|--|-----------------------------------|
| Key Personnel                   |                                 |   | Facilities<br>E.g. Warehouse,<br>Dockyard         | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification                   | Experience  |   |  |                      |  |                                   |
| Project /Field Service Engineer | Degree in any Engineering field | Minimum 3 years experience in valve sizing, selection and servicing | 1.Manned and permanent office setup<br>2.Workshop | 1.Hand tools<br>2.Calibrators<br>3.Test Equipment<br>4.Machining Equipment<br>5.Software /Tools for diagnostic |                      |  |                                   |
| Technician                      | N/A                             | Minimum 5 years experience in valve servicing                       |   |  |                      |  |                                   |

**Work Category :** Process Piping Equipment & Services  
 28111300S Actuator Valves Maintenance  
 Thermostatic Valve

**Work Category's Description :** The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, overhaul, refurbish, maintenance, testing and commissioning of Thermostatic Valves

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT   |                                    |  |   |   |  |  |                                   |
|---------------------------------|------------------------------------|--|---|---|--|--|-----------------------------------|
| Key Personnel                   |                                    |  | Facilities<br>E.g. Warehouse,<br>Dockyard         | Equipment<br>E.g. Tools   | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                     | Qualification                      | Experience   |   |   |  |  |                                   |
| Project /Field Service Engineer | Degree in any Engineering field    | Minimum 3 years experience in valve sizing, selection and servicing , trained and certified from Principal | 1.Manned and permanent office setup<br>2.Workshop | 1.Hand tools<br>2.Calibrators<br>3.Test Equipment<br>4.Machining Equipment<br>5.Software/Tools for diagnostic | Principal to have minimum 10 years experience in O&G valve related works |  |                                   |
| Technician                      | Trained and certified by Principal | Minimum 5 years experience in valve servicing  |   |   |  |  |                                   |

**Work Category :** **Process Piping Equipment & Services**  
**28111300S** **Actuator Valves Maintenance**  
**Thermostatic Valve**

**Work Category's Description :** The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, overhaul, refurbish, maintenance, testing and commissioning of Thermostatic Valves

**Mode of Operation :** Self-Operated

| MINIMUM TECHNICAL REQUIREMENT  |   |  |   |   |                      |  |                                   |
|--------------------------------|---|--|---|---|----------------------|--|-----------------------------------|
| Key Personnel                  |   |  | Facilities<br>E.g. Warehouse,<br>Dockyard                     | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                    | Qualification                             | Experience   |   |   |                      |  |                                   |
| Project/Field Service Engineer | Degree in any Engineering field           | Minimum 5 years experience in valve sizing, selection and servicing      | 1.Manned and permanent office setup<br>2.Workshop 3.Warehouse | 1.Hand tools<br>2.Calibrators<br>3.Heavy Lifting Equipment<br>4.Test Equipment<br>5.Machining Equipment |                      |  |                                   |
| Technician                     | Certificate in relevant Engineering field | Minimum 7 years experience in valve servicing                            |   |   |                      |  |                                   |
| QA/QC Engineer                 | Degree in any Engineering field           | Minimum 5 years experience doing QA/QC and Factory Acceptance Test (FAT) |   |   |                      |  |                                   |

**Work Category** : **28120000S** **Process Piping Equipment & Services**  
**Insulation Services**

Work Category's Description : The provision of insulation work for Hot Insulation, Acoustic Insulation, Cold Insulation and Personnel Protection Insulation.

Mode of Operation : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |  |  |   |   |                      |  |                                   |
|-------------------------------|--|--|---|---|----------------------|--|-----------------------------------|
| Key Personnel                 |  |  | Facilities<br>E.g. Warehouse,<br>Dockyard                       | Equipment<br>E.g. Tools                     | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification  | Experience   |   |   |                      |  |                                   |
| Supervisor                    | Diploma in Engineering or relevant field<br><br>Or<br><br>Certificate in related field | 2 years experience in insulation work<br><br>Or<br><br>3 years experience in insulation work | 1. Manned and permanent office setup<br>2. Operational Workshop | 1. Personal hand tool<br>2. Rolling machine |                      |  |                                   |

**Work Category** : **Process Piping Equipment & Services**  
**28131000P** **Mechanical Valves**  
**Ball Valves**

**Work Category's Description** : To supply and deliver Ball Valves less than 50mm (Non-Firesafe & Firesafe/Firetested) and Ball Valve 50mm and larger (Firesafe/Firetested & Offshore Pipeline Valve)

**Mode of Operation** : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |   |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |   |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in oil and gas Valves related works |  |                                   |

**Work Category** : **28131500P** **Process Piping Equipment & Services**  
**Mechanical Valves**  
**Gate Valves**

**Work Category's Description** : To supply and deliver

**Mode of Operation** : Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |   |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |   |  |                                   |
|                               |               |            |   |                         | Principal to have minimum 10 years experience in oil and gas Valves related works |  |                                   |

**Work Category :** 28141000S **Process Piping Equipment & Services**  
**Mechanical Valves Maintenance**  
**Governor Valve**

**Work Category's Description :** The provision of labour, materials, consumables, equipments and facilities necessary for repair and maintenance of governor valve

**Mode of Operation :** Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |                         |                      |  |                                   |
|-------------------------------|---|--|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse,<br>Dockyard   | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |                         |                      |  |                                   |
| Supervisor / Team lead        | Certificate in related field<br>Or<br>SPM or equivalent | 5 years experience in<br>governor valve repair &<br>maintenance<br>Or<br>8 years experience in<br>governor valve repair &<br>maintenance | Proper office &<br>operational<br>workshop<br>Stationary<br>Equipment Repair &<br>Maintenance | 1. Personal Hand Tools  |                      |  |                                   |
| Technician                    | SPM Or equivalent                                       | 2 years experience in<br>governor valve repair &<br>maintenance  |   |                         |                      |  |                                   |



**Work Category :** Process Piping Equipment & Services  
 28141200S Mechanical Valves Maintenance  
 Mechanical Valve

**Work Category's Description :** The provision of labour, materials, consumables, equipments and facilities necessary for repair, maintenance, testing and commissioning of mechanical valve

**Mode of Operation :** Self-operated

| Key Personnel            |                                      |  | MINIMUM TECHNICAL REQUIREMENT             |  |                      |  |                                   |
|--------------------------|--------------------------------------|--|---|--|----------------------|--|-----------------------------------|
| Designation              | Qualification                        | Experience   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools                    | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Supervisor/<br>Team Lead | Certified in related field Or<br>SPM | 5 years experience in<br>valve repair and<br>maintenance<br><br>Or<br>8 years experience in<br>valve repair and<br>maintenance | Workshop                                  | Valve testing, facilities and<br>equipment |                      |  |                                   |
| Technician               | Secondary education                  | 2 years experience in<br>valve repair and<br>maintenance   |   |  |                      |  |                                   |

**Work Category :** **Process Piping Equipment & Services**  
**28141300S** **Mechanical Valves Maintenance**  
**Relief Valve**

**Work Category's Description :** The provision of manpower, materials, consumables, equipment and facilities necessary for repair, maintenance, testing, setting and commissioning of relief valve (including vacuum breaker & rupture disc)

**Mode of Operation :** Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |  |                      |  |                                   |
|-------------------------------|---|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |   |  | Facilities<br>E.g. Warehouse,<br>Dockyard   | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience   |   |  |                      |  |                                   |
| Site Supervisor               | Diploma in Mechanical Engineering<br><br>Or<br><br>Certificate in engineering | 5 years experience in relief valve repair & maintenance<br><br>7 years experience in relief valve repair & maintenance | Proper office & operational workshop<br>Stationary Equipment Repair & Maintenance | 1. Access (own/rent) to lifting equipment<br>2. Hand & measurement tools<br>3. In-situ testing equipment (e.g. Test Bench, calibrating gauges, nitrogen cylinder, pressure hoses, portable container and etc.) |                      |  |                                   |
| Technician                    | SPM Or equivalent   | 2 years experience in relief valve repair & maintenance  |   |  |                      |  |                                   |

**Work Category :** Process Piping Equipment & Services  
**28151200P** Pipe Fittings  
**Bolting Materials (exclude OEM)**

**Work Category's Description :** To manufacture, supply and deliver of Bolting Materials

**Mode of Operation :** Manufacturer

| MINIMUM TECHNICAL REQUIREMENT    |   |   |   |   |                      |   |  |
|----------------------------------|---|---|---|---|----------------------|---|--|
| Key Personnel                    |   |   | Facilities<br>E.g. Warehouse,<br>Dockyard   | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH      | Quality<br>E.g. ISO, API Standard                    |
| Designation                      | Qualification   | Experience  |   |   |                      |   |  |
| Product / Manufacturing Engineer | Degree in any Engineering field                                     | Minimum 5 years experience in engineering and production of bolting materials | 1. Manned and permanent office setup<br>2. Manufacturing facility<br>3. Testing facility<br>4. Storage facility | 1. Equipment for manufacturing.<br>2. Equipment for testing of the gasket, (e.g. to conduct strength test, hardness test, shore test, etc.) |                      | Business / Manufacturing License from local authority | Appropriate certifying company ASTM Product Monogram |
| QA/QC Engineer                   | Degree in any Engineering field                                     | Minimum 5 years experience in QA/QC manufacturing                             |   |   |                      |   |  |
| HSE Personnel                    | Certified DOSH safety qualification or appropriate HSE certificate. | Minimum 3 years in HSE management in manufacturing                            |   |   |                      |   |  |

**Work Category :** Process Piping Equipment & Services  
 28152200P Pipe Fittings  
 Standard Gaskets

**Work Category's Description :** To manufacture, supply and deliver of standard gasket

**Mode of Operation :** Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |   |                      |   |  |
|-------------------------------|---------------|------------|---|---|----------------------|---|--|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard   | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH      | Quality<br>E.g. ISO, API Standard  |
| Designation                   | Qualification | Experience |   |   |                      |   |  |
|                               |               |            | 1. Manned and permanent office setup<br>2. Manufacturing facility<br>3. Testing facility<br>4. Storage facility | 1. Equipment for manufacturing.<br>2. Equipment for testing of the gasket, (e.g. to conduct strength test, hardness test, shore test, etc.) |                      | Business / Manufacturing License from local authority | 1. ISO 9001 certified company<br>2. Appropriate certifying company ASME Product Monogram 16.20 and 16.21 |

**Work Category :** Process Piping Equipment & Services  
**28101400P** Actuator Valves  
 LPG Compact Valve

**Work Category's Description :** To supply and deliver LPG Compact Valve

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |                      |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH                                   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |                      |  |                                   |
|                               |               |            |   |                         |                      | As certified by<br>Suruhanjaya Tenaga (as a<br>gas equipment product)<br>and SIRIM |                                   |

**Work Category** : **29100000P** **Structural Steel & Aluminum**  
**Structural Aluminum**

Work Category's Description : To design, fabricate, supply, deliver and install structural aluminium

Mode of Operation : Agent

| Key Personnel                  |   |  | MINIMUM TECHNICAL REQUIREMENT          |   |                      |  |                                   |
|--------------------------------|---|--|--|---|----------------------|--|-----------------------------------|
| Designation                    | Qualification   | Experience   | Facilities<br>E.g. Warehouse, Dockyard | Equipment<br>E.g. Tools                   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Project Engineer / Coordinator | Degree in any Engineering field Or Diploma in any Engineering field | Minimum 3 years experience in project management Or Minimum 5 years experience in project management | Manned and permanent office setup      | *Principal to provide all necessary tools |                      |  |                                   |
| Field Service Engineer         | Degree in any Engineering field                                     | Minimum 3 years experience in material / construction related field and trained                      |  |   |                      |  |                                   |
| Site supervisor                | N/A   | Minimum 5 years experience in aluminum construction field  |  |   |                      |  |                                   |

|                       |   |
|-----------------------|---|
| <b>Work Category:</b> | <b>Wells</b><br><b>Drilling/Completion/Intervention/Workover/Abandonment</b><br><b>Artificial Lift Services</b><br><b>Electrical Submersible Pump (ESP)</b> |
| <b>30101010S</b>      |   |

Work Category's Description: To supply, deliver, install and maintenance of Electrical Submersible Pump (ESP)

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT  |                       |  |   |                         |                      |  |                                   |
|--------------------------------|-----------------------|--|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                  |                       |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                    | Qualification         | Experience   |   |                         |                      |  |                                   |
| Company/Principal:<br>Engineer | Degree in Engineering | Minimum 3 years<br>experience in drilling<br>and/or completion works | Manned and permanent<br>office setup      |                         |                      |  |                                   |

|                       |   |
|-----------------------|---|
| <b>Work Category:</b> | <b>Wells</b><br><b>Drilling/Completion/Intervention/Workover/Abandonment</b><br><b>Artificial Lift Services</b><br><b>Electrical Submersible Pump (ESP)</b> |
| <b>30101010S</b>      | <b>Electrical Submersible Pump (ESP)</b>  |

Work Category's Description: To supply, deliver, install and maintenance of Electrical Submersible Pump (ESP)

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |                       |  |   |                         |                      |  |                                   |
|-------------------------------|-----------------------|--|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |                       |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification         | Experience   |   |                         |                      |  |                                   |
| Engineer                      | Degree in Engineering | Minimum 3 years<br>experience in drilling<br>and/or completion works | Manned and permanent<br>office setup      |                         |                      |  |                                   |



|                       |  |
|-----------------------|--|
| <b>Work Category:</b> | <b>Wells</b><br><b>Drilling/Completion/Intervention/Workover/Abandonment</b><br><b>Artificial Lift Services</b><br><b>Gas Lift</b> |
| <b>30101011S</b>      |  |

Work Category's Description: To design, supply, deliver, install and maintenance of Gas Lift system

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |                       |  |   |                         |                      |  |                                   |
|-------------------------------|-----------------------|--|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |                       |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification         | Experience   |   |                         |                      |  |                                   |
| Engineer                      | Degree in Engineering | Minimum 3 years<br>experience in drilling<br>and/or completion works | Manned and permanent<br>office setup      |                         |                      |  |                                   |

|                       |   |
|-----------------------|---|
| <b>Work Category:</b> | <b>Wells</b><br><b>Drilling/Completion/Intervention/Workover/Abandonment</b><br><b>Artificial Lift Services</b><br><b>Other Artificial Lift System &amp; Services</b> |
| <b>30101012S</b>      |   |

Work Category's Description: To design, supply, deliver, install and maintenance of other artificial lift such as but not limited to Progressive Cavity Pump, Rod Pumping Services and Jet Pump

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |                       |  |   |                         |                      |  |                                   |
|-------------------------------|-----------------------|--|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |                       |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification         | Experience   |   |                         |                      |  |                                   |
| Engineer                      | Degree in Engineering | Minimum 3 years<br>experience in drilling<br>and/or completion works | Manned and permanent<br>office setup      |                         |                      |  |                                   |

|                       |   |
|-----------------------|---|
| <b>Work Category:</b> | <b>Wells<br/>Drilling/Completion/Intervention/Workover/Abandonment<br/>Borehole Survey/Gyro Survey Services</b> |
| <b>30101200S</b>      |   |

Work Category's Description: The provision of borehole/gyro survey equipment, qualified personnel and engineering/technical support for onshore and offshore services

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |                       |   |  |                            |                      |  |                                   |
|-------------------------------|-----------------------|---|--|----------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |                       |   | Facilities<br>E.g. Warehouse,<br>Dockyard    | Equipment<br>E.g. Tools    | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification         | Experience  |  |                            |                      |  |                                   |
| Technical Manager             | Degree in Engineering | Minimum 10 years experience in drilling and/or completion operation | Proper office setup and workshop in Malaysia | Magnetic/GYRO survey tools |                      |  |                                   |
| Survey Engineer               | Degree in Engineering | Minimum 5 years experience in gyro surveying equipment and services |  |                            |                      |  |                                   |

|                       |   |
|-----------------------|---|
| <b>Work Category:</b> | <b>Wells<br/>Drilling/Completion/Intervention/Workover/Abandonment<br/>Cementing Equipment &amp; Services</b> |
| <b>30101300S</b>      |   |

Work Category's Description: The provision of cementing equipment/accessories, material (class G cement and cement additives), qualified personnel, laboratory facilities, inspection and maintenance for onshore and offshore services

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT       |                       |   |  |                               |                      |  |                                   |
|-------------------------------------|-----------------------|---|--|-------------------------------|----------------------|--|-----------------------------------|
| Key Personnel                       |                       |   | Facilities<br>E.g. Warehouse,<br>Dockyard                          | Equipment<br>E.g. Tools       | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                         | Qualification         | Experience  |  |                               |                      |  |                                   |
| Technical Manager                   | Degree in Engineering | Minimum 10 years experience in drilling and/or 5 years in cementing | Proper office/lab/storage warehouse setup and workshop in Malaysia | Cementing Test Lab Facilities |                      |  |                                   |
| Drilling/Cementing service Engineer | Degree in Engineering | Minimum 5 years experience in Cementing Equipment & Services        |  |                               |                      |  |                                   |

**Work Category:** Wells  
 Drilling/Completion/Intervention/Workover/Abandonment  
 Coiled Tubing Services  
 Coiled Tubing Completion

**30101410S**

Work Category's Description: The provision of Coiled Tubing Completion Services

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |                       |  |   |   |  |  |                                   |
|-------------------------------|-----------------------|--|---|---|--|--|-----------------------------------|
| Key Personnel                 |                       |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification         | Experience   |   |   |  |  |                                   |
| Technical Manager             | Degree in Engineering | Minimum 8 years experience in drilling, completion or Coiled Tubing Operations | Workshop and storage facilities           | Principal to have complete equipment set for CTC related System | Principal to have minimum 5 years experience in coiled tubing services |  |                                   |
| Service Engineer              | Degree in Engineering | Minimum 5 years experience in well completion equipment and services           |   |   |  |  |                                   |

|                       |  |
|-----------------------|--|
| <b>Work Category:</b> | <b>Wells</b><br><b>Drilling/Completion/Intervention/Workover/Abandonment</b><br><b>Coiled Tubing Services</b><br><b>Coiled Tubing Completion</b> |
| <b>30101410S</b>      |  |

Work Category's Description: The provision of Coiled Tubing Completion Services

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |                       |  |   |                         |   |  |                                   |
|-------------------------------|-----------------------|--|---|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |                       |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification         | Experience   |   |                         |   |  |                                   |
| Technical Manager             | Degree in Engineering | Minimum 8 years experience in drilling, completion or Coiled Tubing Operations | Workshop and storage facilities           |                         | Owner/company to have minimum 5 years experiences in completion or coiled tubing operations |  |                                   |
| Service Engineer              | Degree in Engineering | Minimum 5 years experience in well completion equipment and services           |   |                         |   |  |                                   |

|                       |   |
|-----------------------|---|
| <b>Work Category:</b> | <b>Wells</b><br><b>Drilling/Completion/Intervention/Workover/Abandonment</b><br><b>Coiled Tubing Services</b><br><b>Coiled Tubing Unit &amp; Services</b> |
| <b>30101411S</b>      |   |

Work Category's Description: The provision of Coiled Tubing Unit (CTU) and qualified personnel/crew for onshore and offshore services

Mode of Operation: Agent

| MINIMUM TECHNICAL REQUIREMENT |               |                         |   |                         |   |  |                                   |
|-------------------------------|---------------|-------------------------|---|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |               |                         | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience              |   |                         |   |  |                                   |
| Company/Principal:<br>Manager | Degree        | 10 years in oil and gas | Office setup in Malaysia                  |                         | Principal to have minimum 10 years experience in drilling and well services |  |                                   |

|                       |   |
|-----------------------|---|
| <b>Work Category:</b> | <b>Wells</b><br><b>Drilling/Completion/Intervention/Workover/Abandonment</b><br><b>Coiled Tubing Services</b><br><b>Coiled Tubing Unit &amp; Services</b> |
| <b>30101411S</b>      |   |

Work Category's Description: The provision of Coiled Tubing Unit (CTU) and qualified personnel/crew for onshore and offshore services

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |   |   |                          |                      |  |                                   |
|-------------------------------|---------------|---|---|--------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |               |   | Facilities<br>E.g. Warehouse,<br>Dockyard       | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience                                  |   |                          |                      |  |                                   |
| Operation/ Rig Manager        | Diploma       | 10 years in drilling and workover operation | Office setup in Malaysia and workshop/warehouse | Coiled Tubing Unit (CTU) |                      |  |                                   |
| HSE Manager                   | Degree        | 5 years in oil and gas                      |   |                          |                      |  |                                   |



|                       |  |
|-----------------------|--|
| <b>Work Category:</b> | <b>Wells<br/>Drilling/Completion/Intervention/Workover/Abandonment<br/>Coring Equipment &amp; Services</b> |
| <b>30101600S</b>      |  |

Work Category's Description: The provision of coring equipment, qualified personnel and maintenance for onshore and offshore services

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |                       |  |   |  |                      |  |                                   |
|-------------------------------|-----------------------|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |                       |  | Facilities<br>E.g. Warehouse,<br>Dockyard       | Equipment<br>E.g. Tools                      | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification         | Experience   |   |  |                      |  |                                   |
| Technical Manager             | Degree in Engineering | Minimum 10 years<br>experience in drilling<br>and/or completion<br>operation | Proper office setup and<br>workshop in Malaysia | Core handling and<br>preservations equipment |                      |  |                                   |
| Coring Engineer               | Degree in Engineering | Minimum 5 years<br>experience in coring<br>equipment and services            |   |  |                      |  |                                   |

|                       |  |
|-----------------------|--|
| <b>Work Category:</b> | <b>Wells<br/>Drilling/Completion/Intervention/Workover/Abandonment<br/>30101700S Directional Drilling, Measurement While Drilling &amp; Logging While Drilling</b> |
|-----------------------|--|

Work Category's Description: The provision of directional drilling, gyro while drilling, measurement while drilling (MWD) and logging while drilling (LWD) equipment/tools, personnel, directional planning/engineering and maintenance

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |                       |   |   |   |                      |   |                                   |
|-------------------------------|-----------------------|---|---|---|----------------------|---|-----------------------------------|
| Key Personnel                 |                       |   | Facilities<br>E.g. Warehouse,<br>Dockyard                     | Equipment<br>E.g. Tools                           | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH        | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification         | Experience  |   |   |                      |   |                                   |
| Technical Manager             | Degree in Engineering | Minimum 10 years experience in directional drilling | Proper office setup, calibration lab and workshop in Malaysia | Directional drilling/LWD /MWD tools and equipment |                      | License for radioactive source from Lembaga Tenaga Atom |                                   |
| Directional drilling engineer | Degree in Engineering | Minimum 5 years experience in directional drilling  |   |   |                      |   |                                   |
| LWD/ MWD engineer             | Degree in Engineering | Minimum 3 years experience in LWD/MWD.              |   |   |                      |   |                                   |

**Work Category:** 30101900S Wells  
 Drilling/Completion/Intervention/Workover/Abandonment  
 Drilling Equipment Rental & Services

**Work Category's Description:** The provision of Drilling Equipment Rental and Services such as but not limited to drill pipe, associated crossover, pup joints and personnel

**Mode of Operation:** Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |  |  |                                   |
|-------------------------------|---------------|------------|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |  |  |                                   |
|                               |               |            | Manned and permanent office setup         |                         | Principal to have minimum 10 years experience in drilling equipment and services |  |                                   |

**Work Category:** 30101900S Wells  
 Drilling/Completion/Intervention/Workover/Abandonment  
 Drilling Equipment Rental & Services

**Work Category's Description:** The provision of Drilling Equipment Rental and Services (e.g. drill pipe, associated crossover, pup joints, personnel, etc.)

**Mode of Operation:** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |   |                      |  |                                   |
|-------------------------------|---------------|------------|---|---|----------------------|--|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard                         | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIBB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |   |                      |  |                                   |
|                               |               |            | Manned and permanent office setup, workshop and repair facilities | Owned equipment (e.g. Drill pipe, associated crossover, pup joints, etc.) |                      |  |                                   |

|                       |   |
|-----------------------|---|
| <b>Work Category:</b> | <b>Wells</b><br><b>Drilling/Completion/Intervention/Workover/Abandonment</b><br><b>Drilling Fishing Services</b><br><b>Oilfield Fishing Equipments &amp; Services</b> |
| <b>30102010S</b>      |   |

Work Category's Description: The provision of fishing equipment/tools, qualified personnel, inspection and maintenance for onshore and offshore services

Mode of Operation: Self-operated

| MINIMUM TECHNICAL REQUIREMENT |                       |   |  |  |                      |  |                                   |
|-------------------------------|-----------------------|---|--|--|----------------------|--|-----------------------------------|
| Key Personnel                 |                       |   | Facilities<br>E.g. Warehouse,<br>Dockyard    | Equipment<br>E.g. Tools                                    | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification         | Experience  |  |  |                      |  |                                   |
| Technical Manager             | Degree in Engineering | Minimum 10 years experience in drilling and/or completion operation   | Proper office setup and workshop in Malaysia | Torque machine, various drilling and tubular fishing tools |                      |  |                                   |
| Service Engineer              | Degree in Engineering | Minimum 5 years experience in oilfield fishing equipment and services |  |  |                      |  |                                   |

**Work Category :** Wells  
**30102100S** Drilling/Completion/Intervention/Workover/Abandonment  
 Drilling/Completion Fluids Services

**Work Category's Description :** The provision of mud engineering, materials (mud chemical and additives) and laboratory facilities for onshore and offshore services

**Mode of Operation :** Self-operated

| MINIMUM TECHNICAL REQUIREMENT      |                       |   |   |                                    |                      |  |                                   |
|------------------------------------|-----------------------|---|---|------------------------------------|----------------------|--|-----------------------------------|
| Key Personnel                      |                       |   | Facilities<br>E.g. Warehouse,<br>Dockyard                           | Equipment<br>E.g. Tools            | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                        | Qualification         | Experience  |   |                                    |                      |  |                                   |
| Technical Manager                  | Degree in Engineering | Minimum 10 years experience in drilling and/or completion operation | Proper office/lab/ storage warehouse setup and workshop in Malaysia | Fully equipment Mud Lab facilities |                      |  |                                   |
| Drilling/completion fluid Engineer | Degree in Engineering | Minimum 5 years experience in drilling completion fluid             |   |                                    |                      |  |                                   |

**Work Category :** Wells  
**30102110S** Drilling/Completion/Intervention/Workover/Abandonment  
 Drilling/Completion Fluids Services  
 Drilling/Completion Fluid Filtration Equipment & Services

**Work Category's Description :** The provision of completion fluid filtration equipment and consumables, qualified personnel and equipment maintenance for onshore and offshore services

**Mode of Operation :** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |                        |   |   |                            |                      |  |                                   |
|-------------------------------|------------------------|---|---|----------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |                        |   | Facilities<br>E.g. Warehouse,<br>Dockyard                             | Equipment<br>E.g. Tools    | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification          | Experience  |   |                            |                      |  |                                   |
| Technical Manager             | Degree in Engineering  | Minimum 10 years<br>experience in drilling<br>and/or 5 years in<br>completion operation | Proper office/ storage<br>warehouse setup and<br>workshop in Malaysia | Fluid Filtration Equipment |                      |  |                                   |
| Filtration technician         | Diploma in Engineering | Minimum 3 years<br>experience in filtration   |   |                            |                      |  |                                   |

**Work Category :** Wells  
**30102210S** Drilling/Completion/Intervention/Workover/Abandonment  
 Electric Wireline Logging  
 Cased Hole Electric Logging & Services

**Work Category's Description :** The provision of qualified personnel, equipment and services for rig assisted and/or non-rig assisted cased hole electric logging

**Mode of Operation :** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |                                     |  |   |   |                      |   |                                   |
|-------------------------------|-------------------------------------|--|---|---|----------------------|---|-----------------------------------|
| Key Personnel                 |                                     |  | Facilities<br>E.g. Warehouse,<br>Dockyard       | Equipment<br>E.g. Tools                           | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                       | Experience   |   |   |                      |   |                                   |
| Technical Manager             | Degree in Engineering or Geoscience | Minimum 5 years experience in drilling and/or completion operation<br>And/or<br>Minimum 3 years in cased Hole Electrical Logging | Proper office, lab, warehouse setup in Malaysia | Complete set of Cased Hole Electric logging tools |                      | i. License for radioactive source from Lembaga Tenaga Atom<br><br>1. License for explosives from Polis Diraja Malaysia issued to the company applying for the license;<br>OR<br><br>2. License for explosives from Polis Diraja Malaysia issued to a third party AND letter from the third party confirming that license applicant has access to facility |                                   |
| E-line engineer               | Degree in Engineering or Geoscience | Minimum 5 years experience in e-line operation   |   |   |                      |   |                                   |



**Work Category :** Wells  
**30102211S** Drilling/Completion/Intervention/Workover/Abandonment  
 Electric Wireline Logging  
 Open Hole Electric Logging & Services

**Work Category's Description :** The provision of qualified personnel, equipment and services for rig assisted open-hole electric logging.

**Mode of Operation :** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |                                     |   |   |   |                      |   |                                   |
|-------------------------------|-------------------------------------|---|---|---|----------------------|---|-----------------------------------|
| Key Personnel                 |                                     |   | Facilities<br>E.g. Warehouse,<br>Dockyard       | Equipment<br>E.g. Tools                           | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                       | Experience  |   |   |                      |   |                                   |
| Technical Manager             | Degree in Engineering or Geoscience | Minimum 10 years experience in drilling and/or completion operation<br><br>and/or<br>5 years experience in E-line | Proper office, lab, warehouse setup in Malaysia | Complete set of open-hole electric logging tools. |                      | i. License for radioactive source from Lembaga Tenaga Atom<br><br>1. License for explosives from Polis Diraja Malaysia issued to the company applying for the license;<br>OR<br><br>2. License for explosives from Polis Diraja Malaysia issued to a third party AND letter from the third party confirming that license applicant has access to facility |                                   |
| E-line engineer               | Degree in Engineering or Geoscience | Minimum 5 years experience in e-line operation  |   |   |                      |   |                                   |

**Work Category :** Wells  
**30102500S** Drilling/Completion/Intervention/Workover/Abandonment  
 Liner Hanger Equipment & Services

Work Category's Description : The provision to supply, deliver, assemble, install, test and maintain liner hanger equipment and accessories

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |                       |   |   |                         |                      |  |                                   |
|-------------------------------|-----------------------|---|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |                       |   | Facilities<br>E.g. Warehouse,<br>Dockyard   | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification         | Experience  |   |                         |                      |  |                                   |
| Technical Manager             | Degree in Engineering | Minimum 10 years experience in drilling and/or completion operation | 1. Office setup in Malaysia<br>2. Workshop facilities for storage, assembly and maintenance | Torque Machine          |                      |  |                                   |
| Service Engineer              | Degree in Engineering | Minimum 5 years experience in Liner Hanger                          |   |                         |                      |  |                                   |

**Work Category :** Wells  
 Drilling/Completion/Intervention/Workover/Abandonment  
 Liquid Mud Plant  
**30102610S** Floating Liquid Mud Plant /Barge (FLMP)

**Work Category's Description :** The provision of Floating Liquid Mud Plant /Barge (FLMP) including personnel to provide liquid storage and facilities offshore for drilling operation (It may be equipped with mixing facilities)

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |  |                      |   |                                   |
|-------------------------------|---------------|------------|---|--|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |  |                      |   |                                   |
|                               |               |            | Manned Ship<br>Management office setup    | 1. One valid exclusive<br>appointment letter from<br>Principal for one year<br>2. List of vessel |                      | Principal must provide<br>follow documents:<br><br>1. Certificate Registry of<br>Vessel<br>2. Vessel / barge<br>specification |                                   |

**Work Category :** Wells  
 Drilling/Completion/Intervention/Workover/Abandonment  
 Liquid Mud Plant  
 30102610S Floating Liquid Mud Plant /Barge (FLMP)

**Work Category's Description :** The provision of Floating Liquid Mud Plant /Barge (FLMP) including personnel to provide liquid storage and facilities offshore for drilling operation (It may be equipped with mixing facilities)

**Mode of Operation :** Vessel Operator

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |   |                      |   |                                   |
|-------------------------------|---------------|------------|---|---|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |   |                      |   |                                   |
|                               |               |            | Manned Ship<br>Management office setup    | 1.Letter of appointment<br>from Owner to operator<br>for each vessel to operate<br>2.List of vessel |                      | Vessel Operator must<br>provide follow documents:<br><br>1.Certificate Registry of<br>Vessel<br>2.Vessel / barge<br>specification |                                   |

**Work Category :** Wells  
 Drilling/Completion/Intervention/Workover/Abandonment  
 Liquid Mud Plant  
**30102610S** Floating Liquid Mud Plant /Barge (FLMP)

**Work Category's Description :** The provision of Floating Liquid Mud Plant /Barge (FLMP) including personnel to provide liquid storage and facilities offshore for drilling operation (It may be equipped with mixing facilities)

**Mode of Operation :** Vessel Owner Operator

| MINIMUM TECHNICAL REQUIREMENT |               |            |   |                         |                      |   |                                   |
|-------------------------------|---------------|------------|---|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |               |            | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification | Experience |   |                         |                      |   |                                   |
|                               |               |            | Manned Ship<br>Management office setup    | 1.List of own vessel    |                      | Owner must provide<br>follow documents:<br>1.Certificate Registry of<br>Vessel<br>2.Vessel / barge<br>specification |                                   |

|                      |   |  |
|----------------------|---|--|
| <b>Work Category</b> | : | <b>Wells<br/>Drilling/Completion/Intervention/Workover/Abandonment<br/>Liquid Mud Plant<br/>Onshore Liquid Mud Plant</b> |
|                      |   | <b>30102611S</b>   |

Work Category's Description : The provision of Onshore Liquid Mud Plant including personnel to provide liquid storage, mixing and treatment facilities to support drilling operation

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |                                      |  |  |   |                      |   |                                   |
|-------------------------------|--------------------------------------|--|--|---|----------------------|---|-----------------------------------|
| Key Personnel                 |                                      |  | Facilities<br>E.g. Warehouse,<br>Dockyard                                    | Equipment<br>E.g. Tools                       | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                        | Experience   |  |   |                      |   |                                   |
| LMP Operator                  | Diploma in any discipline/field      | 5 years experiences in LMP operation               | 1.Liquid storage tanks, mixing and treatment facilities<br>2. Waste disposal | Storage, mixing and liquid transfer equipment |                      | 1. DOSH - Surat Kebenaran Operasi<br>2. DOSH - Surat sebagai syarikat pembuat pengandung/bejana tekanan tak berapi<br>3. DOSH - Kebenaran untuk mengendalikan talian paip (Petroleum - Base Oil)<br>4. DOE - Lesen Perlupusan Buangan Terjadual<br>5. DOE - Lesen Penerimaan Kembali Luar Tapak<br>6. DOE - Kebenaran untuk mengendalikan loji rawatan air (WWTP) |                                   |
| Solid Control Engineer        | Degree in any engineering discipline | 3 years experiences in solid control operations    |  |   |                      |   |                                   |
| Waste Management Engineer     | Degree in any engineering discipline | 3 years experiences in waste management operations |  |   |                      |   |                                   |

**Work Category :** 30102700S Wells Drilling/Completion/Intervention/Workover/Abandonment Mud Logging

**Work Category's Description :** The provision of equipment and services, special services (pressure detection), drill cuttings analysis and drilling parameter (Torque/Drag)

**Mode of Operation :** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |                                     |   |  |                         |                      |  |                                   |
|-------------------------------|-------------------------------------|---|--|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |                                     |   | Facilities<br>E.g. Warehouse,<br>Dockyard    | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                       | Experience                                    |  |                         |                      |  |                                   |
| Technical Manager             | Degree in Engineering or Geoscience | Minimum 7 years experience in mud logging     | Proper office setup and workshop in Malaysia | Mud logging tools       |                      |  |                                   |
| Mud logging engineer          | Degree in Engineering or Geoscience | Minimum 5 years experience in mud logging     |  |                         |                      |  |                                   |
| HSE Manager                   | Degree                              | Minimum 5 years experience in HSE oil and gas |  |                         |                      |  |                                   |

**Work Category :** Wells  
**30102810S** Drilling/Completion/Intervention/Workover/Abandonment  
 Sand Exclusion Services  
 Expandable Sand Screen Equipment & Services

**Work Category's Description :** The provision of Expandable Sand Screen Equipment and Services

**Mode of Operation :** Self-Operated

| Key Personnel         |                       |  | Minimum Technical Requirement                   |  |                      |  |                                   |
|-----------------------|-----------------------|--|---|--|----------------------|--|-----------------------------------|
| Position Title        | Qualification         | Experience   | Facilities<br>E.g. Warehouse                    | Equipment /<br>Machineries<br>E.g. Tools | Company's Experience | External Bodies<br>Registration<br>E.g. CIDB | Quality<br>E.g. ISO, API Standard |
| Technical Manager     | Degree in Engineering | Minimum 10 years experience in drilling and/or completion operation And 5 years Experience in sand control | Proper office, lab, warehouse setup in Malaysia | Complete set of Sand Control Equipment   |                      |  |                                   |
| Sand Control engineer | Degree in Engineering | Minimum 7 years experience in sand control operation   |   |  |                      |  |                                   |



**Work Category :** Wells  
**30102811S** Drilling/Completion/Intervention/Workover/Abandonment  
 Sand Exclusion Services  
 Open & Cased Hole Gravel Packing Equipment & Services

**Work Category's Description :** The provision of Gravel Packing Equipment & Services

**Mode of Operation :** Self-Operated

| Key Personnel         |                       |   | Minimum Technical Requirement                   |  |                      |  |                                   |
|-----------------------|-----------------------|---|---|--|----------------------|--|-----------------------------------|
| Position Title        | Qualification         | Experience  | Facilities<br>E.g. Warehouse,<br>Dockyard       | Equipment /<br>Machineries<br>E.g. Tools | Company's Experience | External Bodies<br>Registration<br>E.g. CIDB | Quality<br>E.g. ISO, API Standard |
| Technical Manager     | Degree in Engineering | Minimum 10 years experience in drilling and/or completion operation<br>And/or<br>5 years Experience in sand control | Proper office, lab, warehouse setup in Malaysia | Complete set of Sand Control Equipment   |                      |  |                                   |
| Sand Control engineer | Degree in Engineering | Minimum 7 years experience in sand control operation  |   |  |                      |  |                                   |

**Work Category :** Wells  
**30102812S** Drilling/Completion/Intervention/Workover/Abandonmen  
 Sand Exclusion Services  
 Stand Alone Screen Equipment & Services

**Work Category's Description :** The provision of Standalone Sand Control Screen Equipment and Services

**Mode of Operation :** Self-Operated

| Key Personnel         |                       |   | Minimum Technical Requirement                   |   |                      |  |                                   |
|-----------------------|-----------------------|---|---|---|----------------------|--|-----------------------------------|
| Position Title        | Qualification         | Experience  | Facilities<br>E.g. Warehouse,<br>Dockyard       | Equipment /<br>Machineries<br>E.g. Tools                | Company's Experience | External Bodies<br>Registration<br>E.g. CIDB | Quality<br>E.g. ISO, API Standard |
| Technical Manager     | Degree in Engineering | Minimum 10 years experience in drilling and/or completion operation and/or 5 years Experience in sand control | Proper office, lab, warehouse setup in Malaysia | Complete set of Sand Control Equipment and pumping unit |                      |  |                                   |
| Sand Control engineer | Degree in Engineering | Minimum 5 years experience in sand control operation  |   |   |                      |  |                                   |

**Work Category** : **30102900S** **Wells Drilling/Completion/Intervention/Workover/Abandonment Slickline Services**

Work Category's Description : The provision of slickline equipment/tools, personnel and engineering/technical support for onshore and offshore services

Mode of Operation : Self-Operated

| Minimum Technical Requirement |  |   |  |   |                      |  |                                   |
|-------------------------------|--|---|--|---|----------------------|--|-----------------------------------|
| Key Personnel                 |  |   | Facilities in Malaysia<br>E.g. Warehouse,<br>Dockyard              | Equipment /<br>Machineries<br>E.g. Tools              | Company's Experience | External Bodies<br>Registration<br>E.g. CIDB | Quality<br>E.g. ISO, API Standard |
| Position Title                | Qualification  | Experience  |  |   |                      |  |                                   |
| Technical Manager             | Degree in Engineering  | Minimum 7 years experience in O&G and/or 5 years experience in Slickline Equipment & Services | Proper office, gas lift lab, warehouse, workshop setup in Malaysia | Workbench, slickline unit, pressure control equipment |                      |  |                                   |
| Slickline Operator            | Diploma in Engineering<br>And/or<br>Certificate in Engineering | Minimum 5 years experience as Slickline operator  |  |   |                      |  |                                   |

**Work Category :** Wells  
**30103010S** Drilling/Completion/Intervention/Workover/Abandonment  
Specialized Drilling Services  
Casing Drilling

**Work Category's Description :** The provision of casing drilling equipment and services

**Mode of Operation :** Self-Operated

| Key Personnel            |                       |   | Minimum Technical Requirement  |  |                      |  |                                   |
|--------------------------|-----------------------|---|--|--|----------------------|--|-----------------------------------|
| Position Title           | Qualification         | Experience  | Facilities in Malaysia<br>E.g. Warehouse,<br>Dockyard                | Equipment /<br>Machineries<br>E.g. Tools           | Company's Experience | External Bodies<br>Registration<br>E.g. CIDB | Quality<br>E.g. ISO, API Standard |
| Technical Manager        | Degree in Engineering | Minimum 5 years<br>experience in casing<br>drilling | Proper office set up,<br>calibration Lab and<br>workshop in Malaysia | Complete set of Casing<br>drilling Tools/equipment |                      |  |                                   |
| Casing Drilling Engineer | Degree in Engineering | Minimum 3 years<br>experience in casing<br>drilling |  |  |                      |  |                                   |

**Work Category :** Wells  
**30103011S** Drilling/Completion/Intervention/Workover/Abandonment  
Specialized Drilling Services  
Coiled Tubing Drilling (CTD)/Through Tubing Rotary

**Work Category's Description :** The provision of skilled personnel and equipment to perform Coiled Tubing Drilling/Through Tubing Rotary Drilling (this scope involves planning and logistics)

**Mode of Operation :** Agent

| Minimum Technical Requirement            |                       |  |   |  |   |  |                                   |
|--|-----------------------|--|---|--|---|--|-----------------------------------|
| Key Personnel                            |                       |  | Facilities in Malaysia<br>E.g. Warehouse,<br>Dockyard | Equipment /<br>Machineries<br>E.g. Tools | Company's Experience  | External Bodies<br>Registration<br>E.g. CIDB | Quality<br>E.g. ISO, API Standard |
| Position Title                           | Qualification         | Experience   |   |  |   |  |                                   |
| Company/ Principal:<br>Technical Manager | Degree in Engineering | Minimum 10 years<br>experience in O&G<br><br>and/or<br>5 years experience in<br>drilling | Proper office setup and<br>workshop in Malaysia       |  | Principal to have<br>minimum 10 years<br>experience in coiled<br>tubing services and/or<br>coiled tubing drilling<br>services |  |                                   |

**Work Category** : **30103011S** **Wells Drilling/Completion/Intervention/Workover/Abandonment Specialized Drilling Services Coiled Tubing Drilling (CTD)/Through Tubing Rotary**

Work Category's Description : The provision of skilled personnel and equipment to perform Coiled Tubing Drilling/Through Tubing Rotary Drilling (this scope involves planning and logistics)

Mode of Operation : Self-Operated

| Minimum Technical Requirement |                       |  |   |  |                      |  |                                   |
|-------------------------------|-----------------------|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |                       |  | Facilities in Malaysia<br>E.g. Warehouse,<br>Dockyard               | Equipment /<br>Machineries<br>E.g. Tools | Company's Experience | External Bodies<br>Registration<br>E.g. CIDB | Quality<br>E.g. ISO, API Standard |
| Position Title                | Qualification         | Experience   |   |  |                      |  |                                   |
| Technical Manager             | Degree in Engineering | Minimum 10 years<br>experience in O&G<br><br>and/or<br>5 years experience in<br>drilling | Proper office setup,<br>calibration lab and<br>workshop in Malaysia |  |                      |  |                                   |

**Work Category** : **30103013S** **Wells Drilling/Completion/Intervention/Workover/Abandonment Specialized Drilling Services Expandable Tubular**

Work Category's Description : To supply, deliver, install and test/commission Expandable Tubular (i.e. Expandable liner)

Mode of Operation : Agent

| Key Personnel                  |               |                                       | Minimum Technical Requirement                         |  |   |  |                                   |
|--------------------------------|---------------|---------------------------------------|---|--|---|--|-----------------------------------|
| Position Title                 | Qualification | Experience                            | Facilities in Malaysia<br>E.g. Warehouse,<br>Dockyard | Equipment /<br>Machineries<br>E.g. Tools | Company's Experience  | External Bodies<br>Registration<br>E.g. CIDB | Quality<br>E.g. ISO, API Standard |
| Company/ Principal:<br>Manager | Degree        | Minimum 10 years<br>experience in O&G | Proper office setup and<br>workshop in Malaysia       |  | Principal to have<br>minimum 10 years<br>experience in drilling |  |                                   |

**Work Category :** Wells  
**30103013S** Drilling/Completion/Intervention/Workover/Abandonment  
Specialized Drilling Services  
Expandable Tubular

Work Category's Description : To supply, deliver, install and test/commission Expandable Tubular (i.e. Expandable liner)

Mode of Operation : Self-Operated

| Key Personnel     |                       |  | Minimum Technical Requirement   |  |                      |  |                                   |
|-------------------|-----------------------|--|---|--|----------------------|--|-----------------------------------|
| Position Title    | Qualification         | Experience   | Facilities in Malaysia<br>E.g. Warehouse,<br>Dockyard   | Equipment /<br>Machineries<br>E.g. Tools | Company's Experience | External Bodies<br>Registration<br>E.g. CIDB | Quality<br>E.g. ISO, API Standard |
| Technical Manager | Degree in Engineering | Minimum 10 years<br>experience in drilling<br>and/or completion<br>operation | 1.Office setup in Malaysia<br>2.Workshop facilities for<br>storage, assembly and<br>maintenance | Torque Machine                           |                      |  |                                   |
| Service Engineer  | Degree in Engineering | Minimum 5 years<br>experience in expandable<br>tubular services              |   |  |                      |  |                                   |



**Work Category :** Wells  
**30103014S** Drilling/Completion/Intervention/Workover/Abandonment  
Specialized Drilling Services  
Smart/Intelligent Well System

**Work Category's Description :** To supply, deliver, install, test/commission and maintenance Intelligent/Smart Well System. (Complete with PDG and Flow Control Valve (FCV))

**Mode of Operation :** Agent

| Key Personnel                  |               |   | Minimum Technical Requirement   |  |   |  |                                   |
|--------------------------------|---------------|---|---|--|---|--|-----------------------------------|
| Position Title                 | Qualification | Experience                                  | Facilities in Malaysia<br>E.g. Warehouse,<br>Dockyard   | Equipment /<br>Machineries<br>E.g. Tools | Company's Experience  | External Bodies<br>Registration<br>E.g. CIDB | Quality<br>E.g. ISO, API Standard |
| Company/ Principal:<br>Manager | Degree        | Minimum 10 years<br>experience in oil & gas | 1.Office setup in Malaysia<br>2.Workshop facilities for<br>storage, assembly and<br>maintenance |  | Principal to have<br>minimum 10 years<br>experience in completion |  |                                   |

**Work Category :** Wells  
**30103014S** Drilling/Completion/Intervention/Workover/Abandonment  
Specialized Drilling Services  
Smart/Intelligent Well System

**Work Category's Description :** To supply, deliver, install, test/commission and maintenance Intelligent/Smart Well System. (Complete with PDG and Flow Control Valve (FCV))

**Mode of Operation :** Self-Operated

| Key Personnel                       |  |  | Minimum Technical Requirement                         |  |                      |  |                                   |
|-------------------------------------|--|--|---|--|----------------------|--|-----------------------------------|
| Position Title                      | Qualification  | Experience   | Facilities in Malaysia<br>E.g. Warehouse,<br>Dockyard | Equipment /<br>Machineries<br>E.g. Tools           | Company's Experience | External Bodies<br>Registration<br>E.g. CIDB | Quality<br>E.g. ISO, API Standard |
| Technical Manager                   | Degree in Engineering                                    | Minimum 10 years<br>experience in completion<br>operation<br>and/or<br>5 years experience in<br>Smart / Intelligent Well<br>System | Proper office setup and<br>workshop in Malaysia       | Complete Set of Smart /<br>Intelligent Well System |                      |  |                                   |
| Smart /Intelligent Well<br>Engineer | Degree in Engineering<br>And/or<br>Degree in Geo Science | Minimum 5 years<br>experience in completion<br>operation<br>and/or<br>3 years experience in<br>Smart/intelligent Well<br>System.   |   |  |                      |  |                                   |

**Work Category :** Wells  
**30103015S** Drilling/Completion/Intervention/Workover/Abandonment  
Specialized Drilling Services  
Swell/Expandable Packer

**Work Category's Description :** To supply, deliver, install and test/commission Swell/Expandable Packer

**Mode of Operation :** Agent

| Key Personnel                  |               |   | Minimum Technical Requirement   |  |   |  |                                   |
|--------------------------------|---------------|---|---|--|---|--|-----------------------------------|
| Position Title                 | Qualification | Experience                                  | Facilities in Malaysia<br>E.g. Warehouse,<br>Dockyard   | Equipment /<br>Machineries<br>E.g. Tools | Company's Experience  | External Bodies<br>Registration<br>E.g. CIDB | Quality<br>E.g. ISO, API Standard |
| Company/ Principal:<br>Manager | Degree        | Minimum 10 years<br>experience in oil & gas | 1. Office setup in Malaysia<br>2. Workshop facilities for<br>storage, assembly and<br>maintenance |  | Principal to have<br>minimum 10 years<br>experience in drilling |  |                                   |

**Work Category :** Wells  
**30103015S** Drilling/Completion/Intervention/Workover/Abandonment  
Specialized Drilling Services  
Swell/Expandable Packer

Work Category's Description : To supply, deliver, install and test/commission Swell/Expandable Packer

Mode of Operation : Self-Operated

| Key Personnel     |                       |  | Minimum Technical Requirement   |  |                      |  |                                   |
|-------------------|-----------------------|--|---|--|----------------------|--|-----------------------------------|
| Position Title    | Qualification         | Experience   | Facilities in Malaysia<br>E.g. Warehouse,<br>Dockyard   | Equipment /<br>Machineries<br>E.g. Tools | Company's Experience | External Bodies<br>Registration<br>E.g. CIDB | Quality<br>E.g. ISO, API Standard |
| Technical Manager | Degree in Engineering | Minimum 10 years<br>experience in drilling<br>and/or completion<br>operation | 1.Office setup in Malaysia<br>2.Workshop facilities for<br>storage, assembly and<br>maintenance | Torque Machine                           |                      |  |                                   |
| Service Engineer  | Degree in Engineering | Minimum 5 years<br>experience in swell /<br>expandable packer<br>services    |   |  |                      |  |                                   |

**Work Category :** Wells  
**30103016S** Drilling/Completion/Intervention/Workover/Abandonment  
Specialized Drilling Services  
Under Balance Drilling (UBD) & Managed Pressure

**Work Category's Description :** The provision of Under Balanced Drilling and Managed Pressure Drilling Equipment and Services

**Mode of Operation :** Self-Operated

| Key Personnel                         |                       |   | Minimum Technical Requirement                                       |  |                      |  |                                   |
|---------------------------------------|-----------------------|---|---|--|----------------------|--|-----------------------------------|
| Position Title                        | Qualification         | Experience  | Facilities in Malaysia<br>E.g. Warehouse,<br>Dockyard               | Equipment /<br>Machineries<br>E.g. Tools           | Company's Experience | External Bodies<br>Registration<br>E.g. CIDB | Quality<br>E.g. ISO, API Standard |
| Technical Manager                     | Degree in Engineering | Minimum 5 years<br>experience in Managed<br>Pressure Drilling | Proper office setup,<br>calibration lab and<br>workshop in Malaysia | Complete set of Managed<br>Pressure Drilling Tools |                      |  |                                   |
| Managed Pressure<br>Drilling engineer | Degree in Engineering | Minimum 3 years<br>experience in Managed<br>Pressure Drilling |   |  |                      |  |                                   |

**Work Category :** Wells  
 Drilling/Completion/Intervention/Workover/Abandonment  
 Specialized Drilling Services  
 30103017S Well Bore Cleanup Equipment & Services

**Work Category's Description :** The provision of Well Bore Cleanup Equipment and Services including personnel

**Mode of Operation :** Agent

| Key Personnel                            |                       |   | Minimum Technical Requirement                         |  |   |  |                                   |
|--|-----------------------|---|---|--|---|--|-----------------------------------|
| Position Title                           | Qualification         | Experience  | Facilities in Malaysia<br>E.g. Warehouse,<br>Dockyard | Equipment /<br>Machineries<br>E.g. Tools | Company's Experience  | External Bodies<br>Registration<br>E.g. CIDB | Quality<br>E.g. ISO, API Standard |
| Company/ Principal:<br>Technical Manager | Degree in Engineering | Minimum 7 years<br>experience in drilling<br>AND/OR<br>completion operation<br>AND/OR<br>3 years experience in<br>Well Bore Cleanup<br>Equipment and Services | Proper office setup in<br>Malaysia                    |  | Principal to have<br>minimum 10 years<br>experience in Well Bore<br>Cleanup Equipment and<br>Services |  |                                   |

**Work Category :** Wells  
**30103017S** Drilling/Completion/Intervention/Workover/Abandonment  
Specialized Drilling Services  
Well Bore Cleanup Equipment & Services

**Work Category's Description :** The provision of Well Bore Cleanup Equipment and Services including personnel

**Mode of Operation :** Self-Operated

| Key Personnel     |                       |   | Minimum Technical Requirement                         |  |                      |  |                                   |
|-------------------|-----------------------|---|---|--|----------------------|--|-----------------------------------|
| Position Title    | Qualification         | Experience  | Facilities in Malaysia<br>E.g. Warehouse,<br>Dockyard | Equipment /<br>Machineries<br>E.g. Tools | Company's Experience | External Bodies<br>Registration<br>E.g. CIDB | Quality<br>E.g. ISO, API Standard |
| Technical Manager | Degree in Engineering | Minimum 7 years<br>experience in drilling<br>AND/OR<br>completion operation<br>AND/OR<br>3 years experience in<br>Well Bore Cleanup<br>Equipment and Services | Proper office setup in<br>Malaysia                    |  |                      |  |                                   |

**Work Category :** Wells  
**30103018S** Drilling/Completion/Intervention/Workover/Abandonment  
Specialized Drilling Services  
Well Drilling Monitoring-Real Time Operation

**Work Category's Description :** The provision of Well Drilling Monitoring-Real Time Operation including personnel and services

**Mode of Operation :** Self-Operated

| Key Personnel     |  |   | Minimum Technical Requirement                              |  |                      |  |                                   |
|-------------------|--|---|--|--|----------------------|--|-----------------------------------|
| Position Title    | Qualification  | Experience  | Facilities in Malaysia<br>E.g. Warehouse,<br>Dockyard      | Equipment /<br>Machineries<br>E.g. Tools | Company's Experience | External Bodies<br>Registration<br>E.g. CIDB | Quality<br>E.g. ISO, API Standard |
| Technical Manager | Degree in Engineering                                    | Minimum 10 years<br>experience in drilling<br>and/or completion<br>operation<br>and/or<br>5 years experience in<br>Well Drilling Monitoring | Proper office setup and<br>operation centre in<br>Malaysia | Relevant ICT Hardware<br>and software    |                      |  |                                   |
| RTOC Engineer     | Degree in Engineering<br>And/or<br>Degree in Geo Science | Minimum 5 years<br>experience in drilling<br>and/or completion<br>operation<br>and/or<br>3 years experience in<br>Well Drilling Monitoring. |  |  |                      |  |                                   |



**Work Category :** Wells  
**30103111S** Drilling/Completion/Intervention/Workover/Abandonment  
Specialized Well Services  
Downhole Tractoring Services

**Work Category's Description :** The provision of downhole tractoring equipment and services

**Mode of Operation :** Self-Operated

| Key Personnel     |                       |   | Minimum Technical Requirement                         |  |                      |  |                                   |
|-------------------|-----------------------|---|---|--|----------------------|--|-----------------------------------|
| Position Title    | Qualification         | Experience  | Facilities in Malaysia<br>E.g. Warehouse,<br>Dockyard | Equipment /<br>Machineries<br>E.g. Tools | Company's Experience | External Bodies<br>Registration<br>E.g. CIDB | Quality<br>E.g. ISO, API Standard |
| Technical Manager | Degree in Engineering | Minimum 5 years<br>experience in<br>drilling/completion<br>services | Proper office setup and<br>workshop in Malaysia       |  |                      |  |                                   |
| Service Engineer  | Degree in Engineering | Minimum 5 years<br>experience in<br>drilling/completion<br>services |   |  |                      |  |                                   |

**Work Category :** Wells  
**30103117S** Drilling/Completion/Intervention/Workover/Abandonment  
Specialized Well Services  
Well Control & Blowout Emergency Response

**Work Category's Description :** The provision of well control & blowout emergency response equipment, personnel and services

**Mode of Operation :** Agent

| Key Personnel                                      |                                      |  | Minimum Technical Requirement                         |   |   |  |                                   |
|--|--------------------------------------|--|---|---|---|--|-----------------------------------|
| Position Title                                     | Qualification                        | Experience   | Facilities in Malaysia<br>E.g. Warehouse,<br>Dockyard | Equipment /<br>Machineries<br>E.g. Tools  | Company's Experience                            | External Bodies<br>Registration<br>E.g. CIDB | Quality<br>E.g. ISO, API Standard |
| <b>AGENT</b><br>Technical Manager                  | Degree in any engineering discipline | 5 years in oil & gas industry                                      | Office setup in Malaysia                              | Advance well control and kick modeling software (lease/own) Dynamic kill software (lease/own) Well kill equipment (e.g. high pressure pumping equipment and snubbing units) | 5 years in well controls and emergency response |  |                                   |
| <b>PRINCIPAL</b><br>Senior Well Control Specialist | Degree in any engineering discipline | 10 years in well control prevention and blowout emergency response |   |   |   |  |                                   |
| Senior Well Control Engineer                       | Degree in any engineering discipline | 7 years in well control prevention and blowout emergency response  |   |   |   |  |                                   |

**Work Category :** Wells  
**30103117S** Drilling/Completion/Intervention/Workover/Abandonment  
Specialized Well Services  
Well Control & Blowout Emergency Response

**Work Category's Description :** The provision of well control & blowout emergency response equipment, personnel and services

**Mode of Operation :** Self-Operated

| Key Personnel                  |                                      |  | Minimum Technical Requirement                         |   |   |  |                                   |
|--------------------------------|--------------------------------------|--|---|---|---|--|-----------------------------------|
| Position Title                 | Qualification                        | Experience   | Facilities in Malaysia<br>E.g. Warehouse,<br>Dockyard | Equipment /<br>Machineries<br>E.g. Tools  | Company's Experience                            | External Bodies<br>Registration<br>E.g. CIDB | Quality<br>E.g. ISO, API Standard |
| Technical Manager              | Degree in any engineering discipline | 5 years in oil & gas industry                                      | Office setup in Malaysia                              | Advance well control and kick modeling software (lease/own) Dynamic kill software (lease/own) Well kill equipment (e.g. high pressure pumping equipment and snubbing units) | 5 years in well controls and emergency response |  |                                   |
| Senior Well Control Specialist | Degree in any engineering discipline | 10 years in well control prevention and blowout emergency response |   |   |   |  |                                   |
| Senior Well Control Engineer   | Degree in any engineering discipline | 7 years in well control prevention and blowout emergency response  |   |   |   |  |                                   |

**Work Category :** Wells  
**30103119S** Drilling/Completion/Intervention/Workover/Abandonment  
Specialized Well Services  
Well Stimulation/Enhancement Services

**Work Category's Description :** The provision of stimulation equipment and chemicals, qualified personnel and equipment maintenance for onshore and offshore services

**Mode of Operation :** Self-Operated

| Key Personnel     |                           |  | Minimum Technical Requirement                         |  |                      |  |                                   |
|-------------------|---------------------------|--|---|--|----------------------|--|-----------------------------------|
| Position Title    | Qualification             | Experience   | Facilities in Malaysia<br>E.g. Warehouse,<br>Dockyard | Equipment /<br>Machineries<br>E.g. Tools                   | Company's Experience | External Bodies<br>Registration<br>E.g. CIDB | Quality<br>E.g. ISO, API Standard |
| Technical Manager | Degree in any engineering | Minimum 5 years experience in well stimulation operation | Proper office setup and workshop in Malaysia          | Complete Set of Well Stimulation Equipment and accessories |                      |  |                                   |
| Well Manager      | Degree in any engineering | Minimum 3 years experience in well stimulation operation |   |  |                      |  |                                   |

**Work Category :** Wells  
**30103200S** Drilling/Completion/Intervention/Workover/Abandonment  
 Subsea Well Intervention Services

**Work Category's Description :** The provision of manpower, materials, consumables, equipment and tools necessary for subsea well Intervention services

**Mode of Operation :** Agent

| Key Personnel                            |                       |   | Minimum Technical Requirement                         |  |   |  |                                   |
|--|-----------------------|---|---|--|---|--|-----------------------------------|
| Position Title                           | Qualification         | Experience  | Facilities in Malaysia<br>E.g. Warehouse,<br>Dockyard | Equipment /<br>Machineries<br>E.g. Tools | Company's Experience  | External Bodies<br>Registration<br>E.g. CIDB | Quality<br>E.g. ISO, API Standard |
| Company/ Principal:<br>Technical Manager | Degree in Engineering | Minimum 5 years<br>experience in subsea well<br>intervention services | Proper office setup in<br>Malaysia                    |  | Principal to have<br>minimum 10 years<br>experience in Subsea<br>Well Intervention Services |  |                                   |

**Work Category** : **30103200S** **Wells Drilling/Completion/Intervention/Workover/Abandonment Subsea Well Intervention Services**

Work Category's Description : The provision of manpower, materials, consumables, equipment and tools necessary for subsea well Intervention services

Mode of Operation : Self-Operated

| Key Personnel     |                       |   | Minimum Technical Requirement                         |  |                      |  |                                   |
|-------------------|-----------------------|---|---|--|----------------------|--|-----------------------------------|
| Position Title    | Qualification         | Experience  | Facilities in Malaysia<br>E.g. Warehouse,<br>Dockyard | Equipment /<br>Machineries<br>E.g. Tools | Company's Experience | External Bodies<br>Registration<br>E.g. CIDB | Quality<br>E.g. ISO, API Standard |
| Technical Manager | Degree in Engineering | Minimum 5 years<br>experience in subsea well<br>intervention services | Proper office setup in<br>Malaysia                    |  |                      |  |                                   |

**Work Category :** Wells  
**30103300S** Drilling/Completion/Intervention/Workover/Abandonment  
 Tubular Installation

Work Category's Description : The provision of tubular running equipment, qualified personnel, maintenance, inspection and torque-turn

Mode of Operation : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |                       |   |  |   |                      |  |                                   |
|-------------------------------|-----------------------|---|--|---|----------------------|--|-----------------------------------|
| Key Personnel                 |                       |   | Facilities<br>E.g. Warehouse,<br>Dockyard    | Equipment<br>E.g. Tools                 | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification         | Experience  |  |   |                      |  |                                   |
| Technical Manager             | Degree in Engineering | Minimum 10 years experience in drilling and/or completion operation | Proper office setup and workshop in Malaysia | Power tong, Power unit and accessories. |                      |  |                                   |
| Service Engineer              | Degree in Engineering | Minimum 5 years experience in tubular running services              |  |   |                      |  |                                   |

**Work Category :** Wells  
**30103400S** Drilling/Completion/Intervention/Workover/Abandonment  
 Well Completion Equipment & Services

**Work Category's Description :** To supply , deliver, assemble, install and test completion equipment and accessories such as but not limited to Subsurface Safety Valve, Packer, Nipple, Sliding Sleeves, Gaslift Mandrel & Accessories, Seal Assembly, Control Line and Protector and Tubular Accessories

**Mode of Operation :** Self-Operated

| Minimum Technical Requirement |                       |   |   |  |                      |  |                                   |
|-------------------------------|-----------------------|---|---|--|----------------------|--|-----------------------------------|
| Key Personnel                 |                       |   | Facilities in Malaysia<br>E.g. Warehouse,<br>Dockyard   | Equipment /<br>Machineries<br>E.g. Tools                                       | Company's Experience | External Bodies<br>Registration<br>E.g. CIDB | Quality<br>E.g. ISO, API Standard |
| Position Title                | Qualification         | Experience  |   |  |                      |  |                                   |
| Technical Manager             | Degree in Engineering | Minimum 10 years<br>experience in drilling<br>and/or completion<br>operation  | 1.Workshop facilities for<br>storage, assembly and<br>maintenance<br>2.Manufacturing facilities | 1.Boring machine<br>2.Lathe machine<br>3.Torque machine<br>4.Pressure test pit |                      |  |                                   |
| Service Engineer              | Degree in Engineering | Minimum 5 years<br>experience in well<br>completion equipment<br>and services |   |  |                      |  |                                   |



**Work Category :** Wells  
**30103610S** Drilling/Completion/Intervention/Workover/Abandonment  
 Well Perforation Services  
 Coiled Tubing Well Perforating Services

**Work Category's Description :** The provision of Coiled Tubing Well Perforating , Skilled Personnel and Services

**Mode of Operation :** Self-operated

| MINIMUM TECHNICAL REQUIREMENT           |                       |  |   |   |                      |   |                                   |
|---|-----------------------|--|---|---|----------------------|---|-----------------------------------|
| Key Personnel                           |                       |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                             | Qualification         | Experience   |   |   |                      |   |                                   |
| Technical Manager                       | Degree in Engineering | Minimum 7 years experience in drilling and/or completion operation<br>And/or<br>3 years experience in Coiled Tubing Well Perforating | Office setup in Malaysia and warehouse    | Coiled Tubing Well Perforating guns and associated accessories. |                      | 1. License for explosives from Polis Diraja Malaysia issued to the company applying for the license;<br>OR<br>2. License for explosives from Polis Diraja Malaysia issued to a third party AND letter from the third party confirming that license applicant has access to facility |                                   |
| Coiled Tubing Well Perforating engineer |                       | Minimum 5 years experience in Coiled Tubing Well Perforating   |   |   |                      |   |                                   |

**Work Category :** Wells  
**30103611S** Drilling/Completion/Intervention/Workover/Abandonment  
 Well Perforation Services  
 Electricline Well Perforating Services

**Work Category's Description :** The provision of Electricline Well Perforating , Skilled Personnel and Services

**Mode of Operation :** Self-operated

| MINIMUM TECHNICAL REQUIREMENT             |                       |  |   |   |                      |  |                                   |
|---|-----------------------|--|---|---|----------------------|--|-----------------------------------|
| Key Personnel                             |                       |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                               | Qualification         | Experience   |   |   |                      |  |                                   |
| Technical Manager                         | Degree in Engineering | Minimum 7 years<br>experience in drilling<br>and/or completion<br>operation<br>and/or<br>3 years experience in<br>Electricline Well<br>Perforating | Office setup in Malaysia<br>and warehouse | Electricline Well<br>Perforating guns and<br>associated accessories |                      | 1. License for explosives<br>from Polis Diraja Malaysia<br>issued to the company<br>applying for the license;<br>OR<br><br>2. License for explosives<br>from Polis Diraja Malaysia<br>issued to a third party<br>AND letter from the third<br>party confirming that<br>license applicant has<br>access to facility |                                   |
| Electricline Well<br>Perforating engineer |                       | Minimum 5 years<br>experience in Electricline<br>Well Perforating  |   |   |                      |  |                                   |

**Work Category :** Wells  
**30103613S** Drilling/Completion/Intervention/Workover/Abandonment  
 Well Perforation Services  
 Through Tubing Well Perforation Services

**Work Category's Description :** The provision of Through Tubing Well Perforation, Skilled Personnel and Services

**Mode of Operation :** Self-operated

| MINIMUM TECHNICAL REQUIREMENT            |                       |   |   |  |                      |  |                                   |
|--|-----------------------|---|---|--|----------------------|--|-----------------------------------|
| Key Personnel                            |                       |   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                              | Qualification         | Experience  |   |  |                      |  |                                   |
| Technical Manager                        | Degree in Engineering | Minimum 7 years experience in drilling and/or completion operation and/or 3 years experience in Through Tubing Well Perforation | Office setup in Malaysia and warehouse    | Through Tubing Well Perforation guns and associated accessories. |                      | 1. License for explosives from Polis Diraja Malaysia issued to the company applying for the license; OR<br><br>2. License for explosives from Polis Diraja Malaysia issued to a third party AND letter from the third party confirming that license applicant has access to facility |                                   |
| Through Tubing Well Perforation engineer |                       | Minimum 5 years experience in Through Tubing Well Perforation   |   |  |                      |  |                                   |

**Work Category :** Wells  
**30103614S** Drilling/Completion/Intervention/Workover/Abandonment  
 Well Perforation Services  
 Tubing Conveyed Perforation

**Work Category's Description :** The provision of Tubing Conveyed Perforating, Skilled Personnel and Services

**Mode of Operation :** Self-operated

| MINIMUM TECHNICAL REQUIREMENT        |                       |   |   |  |                      |   |                                   |
|--------------------------------------|-----------------------|---|---|--|----------------------|---|-----------------------------------|
| Key Personnel                        |                       |   | Facilities<br>E.g. Warehouse,<br>Deckyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                          | Qualification         | Experience  |   |  |                      |   |                                   |
| Technical Manager                    | Degree in Engineering | Minimum 7 years experience in drilling and/or completion operation and/or 3 years experience in TCP | Office setup in Malaysia and warehouse    | Complete set of Well Test Equipment and accessories TCP guns and associated accessories. |                      | 1. License for explosives from Polis Diraja Malaysia issued to the company applying for the license;<br>OR<br>2. License for explosives from Polis Diraja Malaysia issued to a third party AND letter from the third party confirming that license applicant has access to facility |                                   |
| Tubing Conveyed Perforation engineer |                       | Minimum 5 years experience in Tubing Conveyed Perforation   |   |  |                      |   |                                   |

**Work Category :** Wells  
**30103700S** Drilling/Completion/Intervention/Workover/Abandonment  
 Well Testing Equipment and Services

**Work Category's Description :** The provision of well testing equipment, qualified personnel, equipment maintenance, liquid and gas sampling/analysis for onshore and offshore services

**Mode of Operation :** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |                       |   |   |   |                      |  |                                   |
|-------------------------------|-----------------------|---|---|---|----------------------|--|-----------------------------------|
| Key Personnel                 |                       |   | Facilities<br>E.g. Warehouse,<br>Dockyard       | Equipment<br>E.g. Tools                             | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification         | Experience  |   |   |                      |  |                                   |
| Technical Manager             | Degree in Engineering | Minimum 10 years experience in drilling and/or completion operation | Proper office, lab, warehouse setup in Malaysia | Complete set of Well Test Equipment and accessories |                      |  |                                   |
| Well Test engineer            | Degree in Engineering | Minimum 5 years experience in well test operation                   |   |   |                      |  |                                   |
| HSE Manager                   | Degree                | Minimum 5 years experience in HSE oil and gas.                      |   |   |                      |  |                                   |

**Work Category :** Wells  
**30103810P** Drilling/Completion/Intervention/Workover/Abandonment  
Wellhead/Christmas Tree  
Subsea Wellhead/Christmas Tree

**Work Category's Description :** To design, manufacture, test, assemble, supply, deliver, install, hookup and commission of Subsea Wellhead and Christmas Tree, Installation & Workover Control System (IWOCSS), wellhead equipment, running tools, consumables and spare parts, proprietary items, qualified personnel, repair and refurbishment equipment, conduct training on installation and operation, including provision of engineering and repair services.

**Mode of Operation :** Manufacturer

| MINIMUM TECHNICAL REQUIREMENT |   |  |   |   |                      |  |   |
|-------------------------------|---|--|---|---|----------------------|--|---|
| MINIMUM TECHNICAL REQUIREMENT |   |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools                             | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard               |
| Designation                   | Qualification   | Experience   |   |   |                      |  |   |
| Project/Technical Manager     | Degree/ Diploma in any related engineering discipline | 15 years experience in subsea wellhead related work with a minimum 5 years of experience in Subsea Wellhead Operation/Subsea Engineering   | Manufacturing Facilities in Malaysia      | Relevant CNC and boring machines, milling equipment |                      |  | American Petroleum Institute (API) 17D monogram |
| Lead/Senior Engineer          | Degree/Diploma in any related engineering discipline  | 10 years experience in offshore oil and gas design engineering with a minimum 5 years of experience in Subsea Wellhead & Tree and Installation & Workover Control System (IWOCSS) design |   |   |                      |  |   |
| Subsea Wellhead Supervisor    | Diploma in any related engineering discipline         | Minimum 10 years experience in wellhead installation with 5 years in subsea wellhead operation   |   |   |                      |  |   |

**Work Category :** Wells  
**30103811P** Drilling/Completion/Intervention/Workover/Abandonment  
 Wellhead/Christmas Tree  
 Surface Wellhead/Christmas Tree

**Work Category's Description :** To design, Assemble, Supply, Deliver, Install, Test Surface Wellhead And Conduct Training On Operation

**Mode of Operation :** Manufacturer

| Key Personnel       |                        |  | MINIMUM TECHNICAL REQUIREMENT             |  |                      |  |                                   |
|---------------------|------------------------|--|---|--|----------------------|--|-----------------------------------|
| Designation         | Qualification          | Experience   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools                              | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Technical Manager   | Degree in Engineering  | Minimum 10 years experience in wellhead and christmas tree installation with 5 years in surface wellhead operation | Manufacturing Facilities in Malaysia      | Relevant CNC and boring machines, milling equipments |                      |  | API 6A monogram                   |
| Wellhead Supervisor | Diploma in Engineering | Minimum 10 years experience in wellhead and christmas tree installation with 5 years in surface wellhead operation |   |  |                      |  |                                   |

**Work Category** : **30103910S** **Wells  
Drilling/Completion/Intervention/Workover/Abandonment  
Wellhead/Christmas Tree Services  
Subsea Production System Maintenance & Repair Services**

**Work Category's Description** : The provision of manpower, tooling, spares, refurbishment, equipment, project management and engineering in Subsea Equipment Maintenance and Repair Services such as but not limited to Subsea Christmas tree, control system, distribution system, hardware, structure and tooling

**Mode of Operation** : Self-operated

| MINIMUM TECHNICAL REQUIREMENT |                                       |   |   |   |                      |  |                                   |
|-------------------------------|---------------------------------------|---|---|---|----------------------|--|-----------------------------------|
| Key Personnel                 |                                       |   | Facilities<br>E.g. Warehouse,<br>Dockyard             | Equipment<br>E.g. Tools                       | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                         | Experience  |   |   |                      |  |                                   |
| Project Manager               | Degree in any engineering discipline  | Minimum 10 years experience in subsea equipment maintenance and repair. | Comprehensive office setup , storage/test facilities. | Subsea equipment service and test facilities. |                      |  |                                   |
| Subsea Lead engineer          | Diploma in any engineering discipline | Minimum 5 years experience in subsea equipment maintenance and repair.  |   |   |                      |  |                                   |
| HSE Manager                   | Diploma in any engineering discipline | Minimum 5 years experience in HSE oil and gas.                          |   |   |                      |  |                                   |



**Work Category :** Wells  
 Drilling/Completion/Intervention/Workover/Abandonment  
 Wellhead/Christmas Tree Services  
 30103911S Subsea Wellhead/Christmas Tree Maintenance & Services

**Work Category's Description :** The provision of manpower, materials, consumables, equipment and tools necessary for inspection, maintenance, repair and troubleshooting of subsea wellhead

**Mode of Operation :** Self-Operated

| Minimum Technical Requirement           |                        |  |   |  |                      |  |                                   |
|---|------------------------|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                           |                        |  | Facilities in Malaysia<br>E.g. Warehouse,<br>Dockyard | Equipment /<br>Machineries<br>E.g. Tools   | Company's Experience | External Bodies<br>Registration<br>E.g. CIDB | Quality<br>E.g. ISO, API Standard |
| Position Title                          | Qualification          | Experience   |   |  |                      |  |                                   |
| Technical Manager                       | Degree in Engineering  | Minimum 10 years experience in wellhead and christmas tree installation with 5 years in wellhead operation | Proper office, warehouse, workshop setup in Malaysia  | Wellhead service and maintenance equipment |                      |  |                                   |
| Surface wellhead maintenance Supervisor | Diploma in Engineering | Minimum 5 years experience in installation and maintenance of wellhead and Christmas tree                  |   |  |                      |  |                                   |

**Work Category :** Wells  
**30103912S** Drilling/Completion/Intervention/Workover/Abandonment  
Wellhead/Christmas Tree Services  
Surface Wellhead/Christmas Tree Maintenance & Services

**Work Category's Description :** The provision of manpower, materials, consumables, equipment and tools necessary for inspection, maintenance, repair and troubleshooting of surface wellhead

**Mode of Operation :** Self-Operated

| Minimum Technical Requirement           |                        |  |   |  |                      |  |                                   |
|---|------------------------|--|---|--|----------------------|--|-----------------------------------|
| Key Personnel                           |                        |  | Facilities in Malaysia<br>E.g. Warehouse,<br>Dockyard | Equipment /<br>Machineries<br>E.g. Tools   | Company's Experience | External Bodies<br>Registration<br>E.g. CIDB | Quality<br>E.g. ISO, API Standard |
| Position Title                          | Qualification          | Experience   |   |  |                      |  |                                   |
| Technical Manager                       | Degree in Engineering  | Minimum 10 years experience in wellhead and christmas tree installation with 5 years in wellhead operation | Proper office, warehouse, workshop setup in Malaysia  | Wellhead service and maintenance equipment |                      |  |                                   |
| Surface wellhead maintenance Supervisor | Diploma in Engineering | Minimum 5 years experience in installation and maintenance of wellhead and Christmas tree                  |   |  |                      |  |                                   |

**Work Category :** Wells  
Rigs Services  
Dedicated Workover Services  
Conventional Workover Rig  
**30111010S**

**Work Category's Description :** The provision of Conventional Workover Rig (CWR) and qualified personnel/crew for onshore and offshore services

**Mode of Operation :** Agent

| Key Personnel                                 |                        |                                   | MINIMUM TECHNICAL REQUIREMENT             |                         |   |  |                                   |
|---|------------------------|-----------------------------------|---|-------------------------|---|--|-----------------------------------|
| Designation                                   | Qualification          | Experience                        | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Company/ Principal:<br>Operation/ Rig Manager | Diploma in engineering | 10 years in drilling<br>operation | Office setup in Malaysia                  |                         | Principal to have<br>minimum 5 years<br>experience in drilling, |  |                                   |
| Company/ Principal: HSE<br>Manager            | Degree                 | 5 years in oil and gas.           |   |                         |   |  |                                   |

**Work Category** : **30111010S** Wells  
Rigs Services  
Dedicated Workover Services  
Conventional Workover Rig

Work Category's Description : The provision of Conventional Workover Rig (CWR) and qualified personnel/crew for onshore and offshore services

Mode of Operation : Self-operated

| Key Personnel          |               |   | MINIMUM TECHNICAL REQUIREMENT             |                                 |                      |  |                                   |
|------------------------|---------------|---|---|---------------------------------|----------------------|--|-----------------------------------|
| Designation            | Qualification | Experience                                  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools         | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Operation/ Rig Manager | Diploma       | 10 years in drilling and workover operation | Office setup in Malaysia                  | Conventional Workover Rig (CWR) |                      |  |                                   |
| HSE Manager            | Degree        | 5 years in oil and gas.                     |   |                                 |                      |  |                                   |

**Work Category :** Wells  
Rigs Services  
Dedicated Workover Services  
30111011S Hydraulic Workover Unit (HWU)/Workover Pulling Unit

**Work Category's Description :** The provision of Hydraulic Workover Unit (HWU)/Workover Pulling Unit (WPU) and qualified personnel/crew for onshore and offshore services

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT                 |                        |                                   |   |                         |   |  |                                   |
|---|------------------------|-----------------------------------|---|-------------------------|---|--|-----------------------------------|
| Key Personnel                                 |                        |                                   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                                   | Qualification          | Experience                        |   |                         |   |  |                                   |
| Company/ Principal:<br>Operation/ Rig Manager | Diploma in engineering | 10 years in drilling<br>operation | Office setup in Malaysia                  |                         | Principal to have<br>minimum 5 years<br>experience in drilling, |  |                                   |
| Company/ Principal: HSE<br>Manager            | Degree                 | 5 years in oil and gas.           |   |                         |   |  |                                   |

**Work Category** : Wells  
 Rigs Services  
 Dedicated Workover Services  
 30111011S Hydraulic Workover Unit (HWU)/Workover Pulling Unit

Work Category's Description : The provision of Hydraulic Workover Unit (HWU)/Workover Pulling Unit (WPU) and qualified personnel/crew for onshore and offshore services

Mode of Operation : Rig operator

| MINIMUM TECHNICAL REQUIREMENT |                        |   |   |                         |   |  |                                   |
|-------------------------------|------------------------|---|---|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |                        |   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification          | Experience                                  |   |                         |   |  |                                   |
| Operation/ Rig Manager        | Diploma in engineering | 10 years in drilling and workover operation | Office setup in Malaysia                  |                         | Principal to have minimum 10 years experience in drilling/workover. |  |                                   |
| HSE Manager                   | Degree                 | 5 years in oil and gas.                     |   |                         |   |  |                                   |

**Work Category :** Wells  
**30111011S** Rigs Services  
Dedicated Workover Services  
Hydraulic Workover Unit (HWU)/Workover Pulling Unit

**Work Category's Description :** The provision of Hydraulic Workover Unit (HWU)/Workover Pulling Unit (WPU) and qualified personnel/crew for onshore and offshore services

**Mode of Operation :** Rig owner operator

| MINIMUM TECHNICAL REQUIREMENT |                        |   |   |  |                      |   |                                   |
|-------------------------------|------------------------|---|---|--|----------------------|---|-----------------------------------|
| Key Personnel                 |                        |   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification          | Experience  |   |  |                      |   |                                   |
| Operation/ Rig Manager        | Diploma in engineering | 10 years in drilling and workover operation                               | Office setup in Malaysia                  | <p>*Set of Hydraulic Workover Unit (HWU) / Workover Pulling Unit (WPU) ready for the workover operation*. The unit shall convertible from HWU traditional workover mode to life well snubbing operation mode (well under pressure).</p> <p>**Comprise of but not limited to perform workover operation<br/> - Hydraulic/Jacking system<br/> - Hydraulic Power unit<br/> - Pressure control system:<br/> BOP</p> <p>***Company to provide document of purchase, statement of delivery date and equipment storage location in Malaysia</p> |                      | Rig Owner Operator must provide the following documents:  |                                   |
| HSE Manager                   | Degree                 | 5 years in oil and gas with experience in offshore and offshore operation |   |  |                      | <ol style="list-style-type: none"> <li>1. Rig Certificate of Registry</li> <li>2. Rig Sales &amp; Purchase Agreement</li> <li>3. Loan Facilities Agreement from Local Bank</li> <li>4. Official Letter from the Company showing the breakdown of the rig ownership in percentage (%)</li> </ol> |                                   |

**Work Category :** Wells  
 Rigs Services  
 Dedicated Workover Services  
 Snubbing Unit & Services  
**30111012S**

**Work Category's Description :** The provision of Snubbing unit and qualified personnel/crew for onshore and offshore services

**Mode of Operation :** Agent

| Key Personnel                                 |                        |                                   | MINIMUM TECHNICAL REQUIREMENT             |                         |   |  |                                   |
|---|------------------------|-----------------------------------|---|-------------------------|---|--|-----------------------------------|
| Designation                                   | Qualification          | Experience                        | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Company/ Principal:<br>Operation/ Rig Manager | Diploma in engineering | 10 years in drilling<br>operation | Office setup in Malaysia                  |                         | Principal to have<br>minimum 5 years<br>experience in drilling, |  |                                   |
| Company/ Principal: HSE<br>Manager            | Degree                 | 5 years in oil and gas.           |   |                         |   |  |                                   |



**Work Category** : **30111012S** **Wells**  
**Rigs Services**  
**Dedicated Workover Services**  
**Snubbing Unit & Services**

Work Category's Description : The provision of Snubbing unit and qualified personnel/crew for onshore and offshore services

Mode of Operation : Self-operated

| Key Personnel          |               |   | MINIMUM TECHNICAL REQUIREMENT             |                          |                      |  |                                   |
|------------------------|---------------|---|---|--------------------------|----------------------|--|-----------------------------------|
| Designation            | Qualification | Experience                                  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Operation/ Rig Manager | Diploma       | 10 years in drilling and workover operation | Office setup in Malaysia                  | Snubbing Unit & Services |                      |  |                                   |
| HSE Manager            | Degree        | 5 years in oil and gas.                     |   |                          |                      |  |                                   |

**Work Category :** Wells  
Rigs Services  
Drilling Rigs  
Offshore - Drill Ship  
**30111110S**

**Work Category's Description :** The provision of drill ship including manpower, equipment, ROV, consumables, and facilities necessary for drilling services.

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT                 |   |                                   |   |                         |   |  |                                   |
|---|---|-----------------------------------|---|-------------------------|---|--|-----------------------------------|
| Designation                                   | Key Personnel   |                                   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
|   | Qualification   | Experience                        |   |                         |   |  |                                   |
| Company/ Principal:<br>Operation/ Rig Manager | Diploma in engineering  | 10 years in drilling<br>operation | Office setup in Malaysia                  |                         | Principal to have<br>minimum 5 years<br>experience in drilling, | Principal :<br>Certificate Registry of<br>Rig    |                                   |
| Company/ Principal: HSE<br>Manager            | Degree  | 5 years in oil and gas.           |   |                         |   |  |                                   |
| Company/ Principal:<br>Master Mariner         | Master of 3000GT or<br>more Unlimited Voyages<br>(STCW95) – Class 1 |                                   |   |                         |   |  |                                   |

**Work Category** : **30111110S** **Wells Rigs Services Drilling Rigs Offshore - Drill Ship**

Work Category's Description : The provision of drill ship including manpower, equipment, ROV, consumables, and facilities necessary for drilling services.

Mode of Operation : Rig operator

| Key Personnel          |   |                                | MINIMUM TECHNICAL REQUIREMENT             |                         |                      |  |                                   |
|------------------------|---|--------------------------------|---|-------------------------|----------------------|--|-----------------------------------|
| Designation            | Qualification   | Experience                     | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Operation/ Rig Manager | Diploma in engineering  | 10 years in drilling operation | Office setup in Malaysia                  |                         |                      | Principal: Certificate Registry of Rig           |                                   |
| HSE Manager            | Degree  | 5 years in oil and gas.        |   |                         |                      |  |                                   |
| Master Mariner         | Master of 3000GT or more Unlimited Voyages (STCW95) – Class 1 |                                |   |                         |                      |  |                                   |

**Work Category** : **30111110S** Wells  
Rigs Services  
Drilling Rigs  
Offshore - Drill Ship

Work Category's Description : The provision of drill ship including manpower, equipment, ROV, consumables, and facilities necessary for drilling services.

Mode of Operation : Rig owner operator

| MINIMUM TECHNICAL REQUIREMENT |   |                                |   |                         |                      |  |                                   |
|-------------------------------|---|--------------------------------|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |   |                                | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH   | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification   | Experience                     |   |                         |                      |  |                                   |
| Operation/ Rig Manager        | Diploma in engineering  | 10 years in drilling operation | Office setup in Malaysia                  | Drill Ship              |                      | Rig Owner Operator must provide the following documents:<br><br>1. Rig Certificate of Registry<br>2. Rig Sales & Purchase Agreement<br>3. Loan Facilities Agreement from Local Bank<br>4. Official Letter from the |                                   |
| HSE Manager                   | Degree  | 5 years in oil and gas.        |   |                         |                      |  |                                   |
| Master Mariner                | Master of 3000GT or more Unlimited Voyages (STCW95) – Class 1 |                                |   |                         |                      |  |                                   |

**Work Category :** Wells  
Rigs Services  
Drilling Rigs  
Offshore - Jackup Rig Services  
**30111111S**

**Work Category's Description :** The provision of Jackup Rig including manpower, equipment, consumables, and facilities necessary for drilling services.

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT                 |                        |                                   |   |                         |   |  |                                   |
|---|------------------------|-----------------------------------|---|-------------------------|---|--|-----------------------------------|
| Key Personnel                                 |                        |                                   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                                   | Qualification          | Experience                        |   |                         |   |  |                                   |
| Company/ Principal:<br>Operation/ Rig Manager | Diploma in engineering | 10 years in drilling<br>operation | Office setup in Malaysia                  |                         | Principal to have<br>minimum 5 years<br>experience in drilling, | Principal :<br>Certificate Registry of<br>Rig    |                                   |
| Company/ Principal: HSE<br>Manager            | Degree                 | 5 years in oil and gas.           |   |                         |   |  |                                   |

**Work Category** : Wells  
**30111111S** Rigs Services  
 Drilling Rigs  
 Offshore - Jackup Rig Services

Work Category's Description : The provision of Jackup Rig including manpower, equipment, consumables, and facilities necessary for drilling services.

Mode of Operation : Rig operator

| Key Personnel          |                        |                                | MINIMUM TECHNICAL REQUIREMENT             |                         |                      |  |                                   |
|------------------------|------------------------|--------------------------------|---|-------------------------|----------------------|--|-----------------------------------|
| Designation            | Qualification          | Experience                     | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Operation/ Rig Manager | Diploma in engineering | 10 years in drilling operation | Office setup in Malaysia                  |                         |                      | Principal: Certificate Registry of Rig           |                                   |
| HSE Manager            | Degree                 | 5 years in oil and gas.        |   |                         |                      |  |                                   |

**Work Category :** Wells  
Rigs Services  
Drilling Rigs  
Offshore - Jackup Rig Services  
**30111111S**

**Work Category's Description :** The provision of Jackup Rig including manpower, equipment, consumables, and facilities necessary for drilling services.

**Mode of Operation :** Rig owner operator

| MINIMUM TECHNICAL REQUIREMENT |                        |                                |   |                         |                      |   |                                   |
|-------------------------------|------------------------|--------------------------------|---|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |                        |                                | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification          | Experience                     |   |                         |                      |   |                                   |
| Operation/ Rig Manager        | Diploma in engineering | 10 years in drilling operation | Office setup in Malaysia                  | Jackup Rig              |                      | Rig Owner Operator must provide the following documents:<br><br>1. Rig Certificate of Registry<br>2. Rig Sales & Purchase Agreement<br>3. Loan Facilities Agreement from Local Bank<br>4. Official Letter from the Company showing the breakdown of the rig ownership in percentage (%) |                                   |
| HSE Manager                   | Degree                 | 5 years in oil and gas.        |   |                         |                      |   |                                   |

**Work Category :** Wells  
Rigs Services  
Drilling Rigs  
Offshore - Self Contained/Platform Rig Services  
**30111112S**

**Work Category's Description :** The provision of self contained/platform rig services including manpower, equipment, consumables, and facilities necessary for drilling services

**Mode of Operation :** Agent

| Key Personnel                                 |                        |                                   | MINIMUM TECHNICAL REQUIREMENT             |                         |   |  |                                   |
|---|------------------------|-----------------------------------|---|-------------------------|---|--|-----------------------------------|
| Designation                                   | Qualification          | Experience                        | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Company/ Principal:<br>Operation/ Rig Manager | Diploma in engineering | 10 years in drilling<br>operation | Office setup in Malaysia                  |                         | Principal to have<br>minimum 5 years<br>experience in drilling. |  |                                   |
| Company/ Principal: HSE<br>Manager            | Degree                 | 5 years in oil and gas.           |   |                         |   |  |                                   |



**Work Category** : Wells  
 Rigs Services  
 Drilling Rigs  
 Offshore - Self Contained/Platform Rig Services  
**3011112S**

Work Category's Description : The provision of self contained/platform rig services including manpower, equipment, consumables, and facilities necessary for drilling services

Mode of Operation : Rig operator

| MINIMUM TECHNICAL REQUIREMENT |                        |                                |   |                         |                      |  |                                   |
|-------------------------------|------------------------|--------------------------------|---|-------------------------|----------------------|--|-----------------------------------|
| Key Personnel                 |                        |                                | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification          | Experience                     |   |                         |                      |  |                                   |
| Operation/ Rig Manager        | Diploma in engineering | 10 years in drilling operation | Office setup in Malaysia                  |                         |                      |  |                                   |
| HSE Manager                   | Degree                 | 5 years in oil and gas.        |   |                         |                      |  |                                   |

**Work Category :** Wells  
Rigs Services  
Drilling Rigs  
30111112S Offshore - Self Contained/Platform Rig Services

**Work Category's Description :** The provision of self contained/platform rig services including manpower, equipment, consumables, and facilities necessary for drilling services

**Mode of Operation :** Rig owner operator

| MINIMUM TECHNICAL REQUIREMENT |                        |                                |   |                                 |                      |   |                                   |
|-------------------------------|------------------------|--------------------------------|---|---------------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |                        |                                | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools         | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification          | Experience                     |   |                                 |                      |   |                                   |
| Operation/ Rig Manager        | Diploma in engineering | 10 years in drilling operation | Office setup in Malaysia                  | Self Contained/<br>Platform Rig |                      | Rig Owner Operator must provide the following documents:<br><br>1. Rig Certificate of Registry<br>2. Rig Sales & Purchase Agreement<br>3. Loan Facilities Agreement from Local Bank<br>4. Official Letter from the Company showing the breakdown of the rig ownership in percentage (%) |                                   |
| HSE Manager                   | Degree                 | 5 years in oil and gas.        |   |                                 |                      |   |                                   |

**Work Category :** Wells  
Rigs Services  
Drilling Rigs  
Offshore - Semi-Submersible  
**30111113S**

**Work Category's Description :** The provision of semi-submersible including manpower, equipment, consumables, and facilities necessary for drilling services

**Mode of Operation :** Agent

| MINIMUM TECHNICAL REQUIREMENT                 |                        |                                   |   |                         |   |  |                                   |
|---|------------------------|-----------------------------------|---|-------------------------|---|--|-----------------------------------|
| Key Personnel                                 |                        |                                   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience  | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                                   | Qualification          | Experience                        |   |                         |   |  |                                   |
| Company/ Principal:<br>Operation/ Rig Manager | Diploma in engineering | 10 years in drilling<br>operation | Office setup in Malaysia                  |                         | Principal to have<br>minimum 5 years<br>experience in drilling, | Principal :<br>Certificate Registry of<br>Rig    |                                   |
| Company/ Principal: HSE<br>Manager            | Degree                 | 5 years in oil and gas.           |   |                         |   |  |                                   |

**Work Category** : **30111113S** Wells  
Rigs Services  
Drilling Rigs  
Offshore - Semi-Submersible

Work Category's Description : The provision of semi-submersible including manpower, equipment, consumables, and facilities necessary for drilling services

Mode of Operation : Rig operator

| MINIMUM TECHNICAL REQUIREMENT |                        |                                |   |                         |  |  |                                   |
|-------------------------------|------------------------|--------------------------------|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |                        |                                | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience                                       | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification          | Experience                     |   |                         |  |  |                                   |
| Operation/ Rig Manager        | Diploma in engineering | 10 years in drilling operation | Office setup in Malaysia                  |                         | Principal to have minimum 10 years experience in drilling. | Principal: Certificate Registry of Rig           |                                   |
| HSE Manager                   | Degree                 | 5 years in oil and gas.        |   |                         |  |  |                                   |

**Work Category :** Wells  
Rigs Services  
Drilling Rigs  
Offshore - Semi-Submersible  
**30111113S**

**Work Category's Description :** The provision of semi-submersible including manpower, equipment, consumables, and facilities necessary for drilling services

**Mode of Operation :** Rig owner operator

| MINIMUM TECHNICAL REQUIREMENT |                        |                                |   |                         |                      |   |                                   |
|-------------------------------|------------------------|--------------------------------|---|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |                        |                                | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification          | Experience                     |   |                         |                      |   |                                   |
| Operation/ Rig Manager        | Diploma in engineering | 10 years in drilling operation | Office setup in Malaysia                  | Semi-Submersible Rig    |                      | Rig Owner Operator must provide the following documents:<br><br>1. Rig Certificate of Registry<br>2. Rig Sales & Purchase Agreement<br>3. Loan Facilities Agreement from Local Bank<br>4. Official Letter from the Company showing the breakdown of the rig ownership in percentage (%) |                                   |
| HSE Manager                   | Degree                 | 5 years in oil and gas         |   |                         |                      |   |                                   |

**Work Category :** Wells  
Rigs Services  
Drilling Rigs  
Offshore - Tender Assisted  
**30111114S**

**Work Category's Description :** The provision of tender assisted including manpower, equipment, consumables, and facilities necessary for drilling services.

**Mode of Operation :** Agent

| Key Personnel                                 |                        |                                   | MINIMUM TECHNICAL REQUIREMENT             |                         |  |  |                                   |
|---|------------------------|-----------------------------------|---|-------------------------|--|--|-----------------------------------|
| Designation                                   | Qualification          | Experience                        | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Company/ Principal:<br>Operation/ Rig Manager | Diploma in engineering | 10 years in drilling<br>operation | Office setup in Malaysia                  |                         | Principal to have<br>minimum 5 years<br>experience in drilling | Principal :<br>Certificate Registry of<br>Rig    |                                   |
| Company/ Principal: HSE<br>Manager            | Degree                 | 5 years in oil and gas            |   |                         |  |  |                                   |

**Work Category** : **30111114S** **Wells Rigs Services Drilling Rigs Offshore - Tender Assisted**

Work Category's Description : The provision of tender assisted including manpower, equipment, consumables, and facilities necessary for drilling services.

Mode of Operation : Rig operator

| Key Personnel          |                        |                                | MINIMUM TECHNICAL REQUIREMENT             |                         |                      |  |                                   |
|------------------------|------------------------|--------------------------------|---|-------------------------|----------------------|--|-----------------------------------|
| Designation            | Qualification          | Experience                     | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Operation/ Rig Manager | Diploma in engineering | 10 years in drilling operation | Office setup in Malaysia                  |                         |                      | Principal: Certificate Registry of Rig           |                                   |
| HSE Manager            | Degree                 | 5 years in oil and gas         |   |                         |                      |  |                                   |

**Work Category** : **Wells**  
**30111114S** **Rigs Services**  
**Drilling Rigs**  
**Offshore - Tender Assisted**

Work Category's Description : The provision of tender assisted including manpower, equipment, consumables, and facilities necessary for drilling services.

Mode of Operation : Rig owner operator

| MINIMUM TECHNICAL REQUIREMENT |                        |                                |   |                         |                      |   |                                   |
|-------------------------------|------------------------|--------------------------------|---|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |                        |                                | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification          | Experience                     |   |                         |                      |   |                                   |
| Operation/ Rig Manager        | Diploma in engineering | 10 years in drilling operation | Office setup in Malaysia                  | Tender Assisted         |                      | Rig Owner Operator must provide the following documents:<br><br>1. Rig Certificate of Registry<br>2. Rig Sales & Purchase Agreement<br>3. Loan Facilities Agreement from Local Bank<br>4. Official Letter from the Company showing the breakdown of the rig ownership in percentage (%) |                                   |
| HSE Manager                   | Degree                 | 5 years in oil and gas         |   |                         |                      |   |                                   |



**Work Category** : **30111115S** **Wells Rigs Services Drilling Rigs Onshore - Land Oilfield Rig Services**

**Work Category's Description** : The provision of land oilfield rig services including manpower, equipment, consumables, and facilities necessary for drilling services.

**Mode of Operation** : Agent

| MINIMUM TECHNICAL REQUIREMENT                 |                        |                                   |   |                         |  |  |                                   |
|---|------------------------|-----------------------------------|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                                 |                        |                                   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience   | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                                   | Qualification          | Experience                        |   |                         |  |  |                                   |
| Company/ Principal:<br>Operation/ Rig Manager | Diploma in engineering | 10 years in drilling<br>operation | Office setup in Malaysia                  |                         | Principal to have<br>minimum 5 years<br>experience in drilling |  |                                   |
| Company/ Principal: HSE<br>Manager            | Degree                 | 5 years in oil and gas            |   |                         |  |  |                                   |

**Work Category** : **30111115S** **Wells Rigs Services Drilling Rigs Onshore - Land Oilfield Rig Services**

Work Category's Description : The provision of land oilfield rig services including manpower, equipment, consumables, and facilities necessary for drilling services.

Mode of Operation : Rig operator

| MINIMUM TECHNICAL REQUIREMENT |                        |                                |   |                         |   |  |                                   |
|-------------------------------|------------------------|--------------------------------|---|-------------------------|---|--|-----------------------------------|
| Key Personnel                 |                        |                                | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience                                      | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification          | Experience                     |   |                         |   |  |                                   |
| Operation/ Rig Manager        | Diploma in engineering | 10 years in drilling operation | Office setup in Malaysia                  |                         | Principal to have minimum 10 years experience in drilling |  |                                   |
| HSE Manager                   | Degree                 | 5 years in oil and gas         |   |                         |   |  |                                   |

**Work Category :** Wells  
Rigs Services  
Drilling Rigs  
30111115S Onshore - Land Oilfield Rig Services

**Work Category's Description :** The provision of land oilfield rig services including manpower, equipment, consumables, and facilities necessary for drilling services.

**Mode of Operation :** Rig owner operator

| MINIMUM TECHNICAL REQUIREMENT |                        |                                |   |                         |                      |   |                                   |
|-------------------------------|------------------------|--------------------------------|---|-------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |                        |                                | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification          | Experience                     |   |                         |                      |   |                                   |
| Operation/ Rig Manager        | Diploma in engineering | 10 years in drilling operation | Office setup in Malaysia                  | Land Oilfield Rig       |                      | Rig Owner Operator must provide the following documents:<br><br>1. Rig Certificate of Registry<br>2. Rig Sales & Purchase Agreement<br>3. Loan Facilities Agreement from Local Bank<br>4. Official Letter from the Company showing the breakdown of the rig ownership in percentage (%) |                                   |
| HSE Manager                   | Degree                 | 5 years in oil and gas         |   |                         |                      |   |                                   |

**Work Category** : **30111116S** Wells  
Rigs Services  
Drilling Rigs  
Swamp Barge Oilfield Rig Services

Work Category's Description : The provision of swamp barge oilfield rig services including manpower, equipment, consumables, and facilities necessary for drilling services.

Mode of Operation : Rig operator

| MINIMUM TECHNICAL REQUIREMENT |                        |                                |   |                         |  |  |                                   |
|-------------------------------|------------------------|--------------------------------|---|-------------------------|--|--|-----------------------------------|
| Key Personnel                 |                        |                                | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools | Company's Experience                                       | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification          | Experience                     |   |                         |  |  |                                   |
| Operation/ Rig Manager        | Diploma in engineering | 10 years in drilling operation | Office setup in Malaysia                  |                         | Principal to have minimum 10 years experience in drilling. |  |                                   |
| HSE Manager                   | Degree                 | 5 years in oil and gas         |   |                         |  |  |                                   |

**Work Category :** Wells  
Rigs Services  
Drilling Rigs  
Swamp Barge Oilfield Rig Services  
**30111116S**

**Work Category's Description :** The provision of swamp barge oilfield rig services including manpower, equipment, consumables, and facilities necessary for drilling services.

**Mode of Operation :** Rig owner operator

| MINIMUM TECHNICAL REQUIREMENT |                        |                                |   |                          |                      |   |                                   |
|-------------------------------|------------------------|--------------------------------|---|--------------------------|----------------------|---|-----------------------------------|
| Key Personnel                 |                        |                                | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools  | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH  | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification          | Experience                     |   |                          |                      |   |                                   |
| Operation/ Rig Manager        | Diploma in engineering | 10 years in drilling operation | Office setup in Malaysia                  | Swamp Barge Oilfield Rig |                      | Rig Owner Operator must provide the following documents:<br><br>1. Rig Certificate of Registry<br>2. Rig Sales & Purchase Agreement<br>3. Loan Facilities Agreement from Local Bank<br>4. Official Letter from the Company showing the breakdown of the rig ownership in percentage (%) |                                   |
| HSE Manager                   | Degree                 | 5 years in oil and gas         |   |                          |                      |   |                                   |

**Work Category :** Wells  
**30121400S** Wells Consultancy Services  
 Subsea Specialised Study

**Work Category's Description :** The provision of subsea specialised study such as but not limited to Constructability/Instability, Commissioning/Startup, Material/Fluid Compatibility Analysis, Fatigue/Dynamic Analysis, HSE/Risk & Reliability Assurance work (i.e. RAM, FMECA, HAZOP, HAZID), Engineering Verification etc.) for Subsea Facilities

**Mode of Operation :** Self-operated

| MINIMUM TECHNICAL REQUIREMENT |  |  |   |   |                      |  |                                   |
|-------------------------------|--|--|---|---|----------------------|--|-----------------------------------|
| Key Personnel                 |  |  | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools   | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification  | Experience   |   |   |                      |  |                                   |
| Project /Technical<br>Manager | Degree/ Diploma in any<br>engineering discipline.        | 10 years experience in oil<br>and gas design<br>engineering with a<br>minimum 5 years of<br>experience in Subsea<br>engineering design         | Comprehensive office<br>setup             | Company to provide<br>applicable software<br><br>*Company to provide list<br>of software(s) and copy of<br>the software license(s). |                      | Company to have BEM<br>registration              |                                   |
| Lead / Senior Engineer        | Degree/ Diploma in<br>related engineering<br>discipline. | 8 years experience in<br>offshore oil and gas<br>design engineering with a<br>minimum 3 years of<br>experience in Subsea<br>engineering design |   |   |                      |  |                                   |

**Work Category** : **30121500S** **Wells**  
**Wells Consultancy Services**  
**Well Control Consultancy**

Work Category's Description : The provision of well control prevention, blowout contingency planning and consultancy services

Mode of Operation : Agent

| MINIMUM TECHNICAL REQUIREMENT         |                                      |   |   |   |                      |  |                                   |
|---------------------------------------|--------------------------------------|---|---|---|----------------------|--|-----------------------------------|
| Key Personnel                         |                                      |   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools                                     | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                           | Qualification                        | Experience  |   |   |                      |  |                                   |
| <u>Agent:</u><br>Technical Manager    | Degree in any engineering discipline | Minimum 10 years experience in drilling and/or completion operation | Office setup in Malaysia                  | Advance well control and kick modeling software (lease/own) |                      |  |                                   |
| <u>Principal:</u><br>Technical Expert | Degree in any engineering discipline | 10 years in well control prevention and blowout emergency response  |   |   |                      |  |                                   |

**Work Category** : **30121500S** **Wells  
Wells Consultancy Services  
Well Control Consultancy**

Work Category's Description : The provision of well control prevention, blowout contingency planning and consultancy services

Mode of Operation : Self-Operated

| MINIMUM TECHNICAL REQUIREMENT |                                      |   |   |   |                      |  |                                   |
|-------------------------------|--------------------------------------|---|---|---|----------------------|--|-----------------------------------|
| Key Personnel                 |                                      |   | Facilities<br>E.g. Warehouse,<br>Dockyard | Equipment<br>E.g. Tools                                     | Company's Experience | External Body<br>Registration<br>E.g. CIDB, DOSH | Quality<br>E.g. ISO, API Standard |
| Designation                   | Qualification                        | Experience  |   |   |                      |  |                                   |
| Technical Manager             | Degree in any engineering discipline | Minimum 10 years experience in drilling and/or completion operation | Office setup in Malaysia                  | Advance well control and kick modeling software (lease/own) |                      |  |                                   |
| Technical Expert              | Degree in any engineering discipline | 10 years in well control prevention and blowout emergency response  |   |   |                      |  |                                   |