



PETROVIETNAM EXPLORATION PRODUCTION CORPORATION LTD  
NAM CON SON PETROLEUM EXPLORATION PRODUCTION BRANCH -  
PETROVIETNAM EXPLORATION PRODUCTION CORPORATION LIMITED  
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## FACSIMILE TRANSMISSION

To: **BIDDER**

Attn: **To Whom it may Concern**

Ref.: 874 /PVEPNCS-CPM

Date 05 MAY 2026

No. of page(s) (including this cover sheet): 19

SUBJECT: **BID BULLETIN #01**

TENDER TITLE: **PROVISION OF SLICK LINE, MAST AND MPLT WORK FOR PRODUCTION WELL AT DAI HUNG FIELD, BLOCK 05.1A, OFFSHORE VIET NAM**

TENDER No.: **PVEPNCS-DRL-2026-004**

If you have not received the full text of this letter, please call (84-28) 3776 2222

Dear Sir/Madam,

Reference is made to the above-mentioned Tender, NAM CON SON PETROLEUM EXPLORATION PRODUCTION BRANCH - PETROVIETNAM EXPLORATION PRODUCTION CORPORATION LIMITED (hereinafter referred to as 'CLIENT') hereby would like to provide you the Bid Bulletin #01 in which is summarized as follow:

- The EXHIBIT V - CONTRACTOR'S PERSONNEL of ITB No. PVEPNCS-DRL-2026-004 shall be updated/revised as per the attachment enclosed herewith.
- The rest of ITB is remain unchanged.

Thank you very much for your attention.

Yours faithfully,

For and On Behalf of CLIENT

  
**TRUONG TUAN ANH**  
Deputy Director  
Cc: BOM, CPM, SSF

Visa:

- SSF: Tank

- CPM:



**EXHIBIT V**

**CONTRACTOR'S PERSONNEL**

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**TABLE OF CONTENTS**

---

| <b><u>SECTION</u></b>      | <b><u>TITLE</u></b>                             |
|----------------------------|---|
| V-1.0                      | CONTRACTOR PERSONNEL                            |
| V-2.0                      | RESPONSIBILITIES OF CONTRACTOR PERSONNEL        |
| V-3.0                      | QUALIFICATION OF PERSONNEL                      |
| V-4.0                      | PERSONNEL WORK/LEAVE SCHEDULE                   |
| V-5.0                      | REPLACEMENT OF EXPATRIATE BY NATIONAL PERSONNEL |
| V-6.0                      | APPROVAL OF PERSONNEL                           |
| V-7.0                      | PERSONNEL TRAINING                              |
| <br><b><u>APPENDIX</u></b> |   |
| V-1                        | CONTRACTOR'S PERSONNEL RESUME                   |
| V-2                        | TRAINING/CERTIFICATION REQUIREMENTS             |



**EXHIBIT V**

**CONTRACTOR'S PERSONNEL**

Pursuant to **ARTICLE 14 – 'CONTRACTOR'S PERSONNEL'** of the CONTRACT, CONTRACTOR shall provide but not be limited to the following:

**V-1.0 CONTRACTOR'S PERSONNEL**

CONTRACTOR shall at its sole cost and under its exclusive control, provide adequate number of highly competent personnel for the performance of the WORKS pursuant to this CONTRACT at the Work Site(s). CLIENT shall pay CONTRACTOR for personnel mentioned below at the rates specified in **APPENDIX IV-1**.

**V-1.1 Work Site(s)**

CONTRACTOR shall maintain at all times experienced and highly qualified technical personnel available in Vung Tau, S.R. Vietnam to support all the services provided to CLIENT by CONTRACTOR.

**V-1.2 Personnel**

**V-1.2.1 Call-out service personnel.**

The Slick-line personnel shall be fully capable of operating, troubleshooting and maintaining each and every piece of CONTRACTOR Equipment that is provided by CONTRACTOR to execute the WORKS pursuant to this CONTRACT.

The CLIENT's minimum requirements for each of the Slick-line personnel are listed as the following:

| <b>CLIENT'S MINIMUM REQUIREMENTS</b>   | <b>REQUIRED QUANTITY</b> | <b>CONTRACTOR PROPOSAL</b> |
|--|--------------------------|----------------------------|
| <b>Slickline Supervisor</b><br>At least six (07) years in Slickline Supervisor position. Holding valid IWCF Certificate required under APPENDIX V-2.<br>Age from 25 to under 65 years old.<br>Responsibility: Supervise the slickline operations, report to CLIENT's Representative. | 2                        | COMPLY: Y/N                |
| <b>Slickline Operator</b><br>At least four (05) year in Slick-line Operator position.<br>Age from 21 to under 65 years old.  | 2                        | COMPLY: Y/N                |



| <b>CLIENT'S MINIMUM REQUIREMENTS</b>   | <b>REQUIRED QUANTITY</b> | <b>CONTRACTOR PROPOSAL</b> |
|--|--------------------------|----------------------------|
| Responsibility: Operate Slick-line equipment and report to Slick-line Supervisor.  |                          |                            |
| <p><b>Well Intervention Supervisor</b></p> <p>At least six (7) years in Well Intervention Supervisor position. Holding valid IWCF Certificate required under APPENDIX V-2.</p> <p>Age from 30 to under 65 years old.</p> <p>Responsibility: Supervise the slickline operations, report to CLIENT's Representative.</p> | 2                        | COMPLY: Y/N                |
| <p><b>MPLT Engineer</b> required under APPENDIX V-2</p> <p>At least five (05) year in Slick-line Operator position.</p> <p>Age from 21 to under 65 years old.</p> <p>Responsibility: Operate Slick-line equipment and report to Slick-line Supervisor.</p>   | 2                        | COMPLY: Y/N                |
| <p><b>MAST Operator</b></p> <p>At least three (03) years in MAST Operator position.</p> <p>Age from 21 to under 65 years old.</p> <p>Responsibility: Operating the MAST system and report to Slickline Supervisor.</p>   | 2                        | COMPLY: Y/N                |
| <p><b>TUBING CUTTER Engineer</b></p> <p>At least three (03) years in Tubing Cutter Engineer position.</p> <p>Age from 21 to under 65 years old.</p> <p>Responsibility: Operating the Tubing Cutter system and report to Slickline Supervisor</p>   | 1                        | COMPLY: Y/N                |

**V-1.2.2 Services Crew for Slick-line and Mast Services (24-hour Operations)**

A 'Service Crew' will consist of two (02) Slick-line Supervisors, two (02) Slick-line Operators and one (01) Mast Operator who shall work as a team in performing the services. Each Service Crew member must be fully qualified to operate, troubleshoot and maintain the CONTRACTOR Equipment.

**V-1.2.6 Services Crew for MLPT Services (24-hour Operations)**




A 'Service Crew' will consist of one (01) MPLT Engineer and one (01) Gauge Engineer who shall work closely with the Slick-line Crew to performing the services. Each Service Crew member must be fully qualified to operate, troubleshoot and maintain the CONTRACTOR Equipment.


**V-1.2.7 Equipment Maintenance Service Personnel**

CONTRACTOR shall maintain sufficient personnel fully qualified to services, repair and maintain all of CONTRACTOR Equipment and shall provide such personnel within 24-hours of notice by CLIENT.

**V-2.0 RESPONSIBILITIES OF CONTRACTOR'S PERSONNEL**

The responsibilities of CONTRACTOR Personnel shall include but not be limited to the following:

- V-2.1 Prepare and install CONTRACTOR Equipment as specified and required by CLIENT.
- V-2.2 Maintain all CONTRACTOR Equipment in good operating condition and make recommendations for repair or replacement damage equipment.
- V-2.3 Ensure all WORKS carried out is in accordance with the latest relevant API Specification, Standard and Recommended Practices and other requirements as determined by CLIENT.
- V-2.4 Operate all CONTRACTOR Equipment in performance of the WORKS.
- V-2.5 Ensure the inventory lists for each basket of tools are kept up to date.
- V-2.6 Ensure sufficient spare parts at the Work Site to maintain the Equipment in good working order.
- V-2.7 Observe at all times, CLIENT's Safety Regulations and Standards and ensure that Works in progress is performed in accordance with those regulations.
- V-2.8 CONTRACTOR Personnel shall prepare Equipment Rental Report (ERR) listing all equipment on rental to CLIENT. These sheets, duly signed by the CLIENT Representative shall be presented with the monthly invoice as part of the supporting document. CLIENT Representative will provide all assistance to ensure these records are accurate and reflect the exact amount of CONTRACTOR Equipment at the Work Site.
- V-2.9 CONTRACTOR Personnel shall prepare and submit to CLIENT Representative supervising the WORKS at Work Site, a Service Ticket and Timesheet, listing all CONTRACTOR's Personnel activities on the Work Site since arrival, make recommendations for inspection, repair or replacement of equipment, upon completion of each WORKS and prior to leaving the Work Site.
- V-2.10 Upon completion of WORKS, CONTRACTOR Personnel shall make ready all CONTRACTOR Equipment for offloading onto the supply vessel(s).



**V-3.0 QUALIFICATION OF PERSONNEL**

- V-3.1 CONTRACTOR shall submit to CLIENT for approval resume as shown in **APPENDIX V-1**, of CONTRACTOR Personnel proposed for assignment to CLIENT stating designation, technical experiences and training attended.
- V-3.2 CONTRACTOR shall indicate for each resume the designation for the respective personnel for the performance of the WORKS.
- V-3.3 CLIENT shall have, at its option, the right to reject and any personnel proposed by CONTRACTOR.
- V-3.4 CONTRACTOR shall also ensure that the personnel provided have adequate command of the English Language.

**V-4.0 PERSONNEL WORK/LEAVE SCHEDULE**

CONTRACTOR's Personnel (both Expatriates and Nationals working on the Drilling Rig and or Platform) shall work on a twelve (12) hour per day shift on an equal time 'work/leave' schedule to be approved by CLIENT.

**V-5.0 REPLACEMENT OF EXPATRIATE BY NATIONAL PERSONNEL**

CONTRACTOR shall fill positions designated for Expatriates with Nationals provided such Nationals are fully qualified to meet the requirements of the position and CLIENT has given written approval.

**V-6.0 APPROVAL OF PERSONNEL**

No later than fifteen (15) calendar days prior to commencement of WORKS, CONTRACTOR shall submit to CLIENT for confirmation a resume (the names, resumes, titles and functions of all supervisory and other key personnel) that CONTRACTOR proposes to assign to the WORKS.

After approval of the aforesaid personnel by CLIENT, no changes shall be made without CLIENT's prior approval.

**V-7.0 PERSONNEL TRAINING**

**V-7.1 Safety Training**

All CONTRACTOR personnel employed for the WORKS must have attended the applicable training recognized by CLIENT as listed in **APPENDIX V-2** and must hold valid certification for the required training prior to participation in the WORKS.

CONTRACTOR shall provide said training, and re-certification when required, at its own expense. CONTRACTOR shall submit these certificates to CLIENT together with their resume.

V-7.1 **Job related Training**

CONTRACTOR shall also endeavor to provide job related training to all CONTRACTOR Personnel at CONTRACTOR sole cost during the performance of the WORKS and CONTRACTOR shall furnish CLIENT copies of the certificates.



**APPENDIX V-1**

**CONTRACTOR'S PERSONNEL RESUME**

NAME :

NATIONALITY :

DATE/PLACE OF BIRTH :

NRIC/PASSPORT NO. :

DATE OF ISSUE/EXPIRATION :

QUALIFICATION

EXPERIENCE IN REQUIRED DISCIPLINE  
(INCLUDING PERSONNEL TRAINING)

EXPERIENCE IN OIL INDUSTRY



**APPENDIX V-2**

**TRAINING/CERTIFICATION REQUIREMENTS**

| <b>NO.</b> | <b>COURSE TITLES</b>  | <b>ATTENDANCE GROUP</b>   | <b>MIN. COURSE DURATION</b> | <b>VALID.</b> |
|------------|---|---|-----------------------------|---------------|
| 1.         | Basic Offshore Safety Induction and Emergency Training (BOSIET) | All service personnel who are assigned to provide Slick-line services at CLIENT's offshore sites.           | 2 Days                      | 4 Years       |
| 2.         | Helicopter Underwater Escape Training (HUET)                    | All service personnel who are assigned to provide Slick-line services at CLIENT's offshore sites.           | 1 Day                       | 2 Years       |
| 3          | International Well Control Forum IWCF (level 4)                 | All service Supervisor who supervises the Slick-line and MPLT logging operations at CLIENT's offshore sites | 1 Week                      | 2 Years       |




**EXHIBIT II**  
**EQUIPMENT SPECIFICATIONS**

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**TABLE OF CONTENTS**

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| <b><u>SECTION</u></b> | <b><u>TITLE</u></b>                            |
|-----------------------|--|
| II-1.0                | GENERAL SPECIFICATION FOR CONTRACTOR EQUIPMENT |
| II-2.0                | CONTRACTOR EQUIPMENT                           |
| II-3.0                | REPAIR AND MAINTENANCE SERVICE                 |

**APPENDIX**

|      |                          |
|------|--------------------------|
| II-1 | EQUIPMENT SPECIFICATIONS |
|------|--------------------------|

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## EXHIBIT II

### EQUIPMENT SPECIFICATIONS

CONTRACTOR shall provide but not limited to the following:

#### **II-1.0 GENERAL SPECIFICATION FOR CONTRACTOR EQUIPMENT**

Pursuant to **ARTICLE 14, "CONTRACTOR'S OBLIGATION"**, CONTRACTOR shall provide the complete line of equipment as listed in **APPENDIX II-1** and or elsewhere in the Published Price List, to perform the complete the WORKS.

- II-1.1 CONTRACTOR shall quote the propose equipment for this CONTRACT in the format shown in the **APPENDIX II-1**. All items quoted shall have details on specification and manufacturer.
- II-1.2 CONTRACTOR shall ensure that all CONTRACTOR Equipment deliver to the Work Site is accompanied with sufficient spare part to maintain the Equipment in good working order.
- II-1.3 CONTRACTOR shall ensure that all CONTRACTOR Equipment is in good working condition prior to mobilization to Work Site. CONTRACTOR shall be able to furnish the inspection report of delivered equipment upon request by CLIENT.
- II-1.4 CONTRACTOR Equipment shall be clearly marked and suitably protected from the effect of corrosion and mechanical damage during handling, storage and transportation in steel container with four lifting pads and complete with certified four legged slings. All slings must be color coded as per CLIENT requirement. All CONTRACTOR Equipment is subject to CLIENT inspection prior to acceptance.
- II-1.5 CONTRACTOR will provide all applicable computing and plotting facilities and final well plots free of charge.
- II-1.6 CONTRACTOR shall submit a copy of monthly equipment report to CLIENT, listing the inventory and status report of equipment and tools available at CONTRACTOR's warehouse/disposal complete with but not limited to complete description, serial number, last inspection date, and purchase date.

CONTRACTOR shall prepare Equipment Rental Report (ERR), listing all CONTRACTOR Equipment at the Work Site and on rental to CLIENT. This report, duly signed by the CLIENT Representative at Work Site, shall be presented with the monthly invoice as part of the supporting document.

II-1.7 The equipment should preferably be field proven for use in the environment to which it will be subjected CONTRACTOR shall ensure that all CONTRACTOR Equipment are followed the API standard.

## II-2.0 CONTRACTOR EQUIPMENT

### II-2.1 Designated "Consignment" Equipment

CONTRACTOR shall make available all designated "Consignment" CONTRACTOR Equipment as listed in **APPENDIX II-1** for the exclusive use of CLIENT. All CONTRACTOR Equipment as listed in **APPENDIX II-1** shall be located at the CONTRACTOR's Warehouse. CLIENT shall compensate CONTRACTOR at scheduled rates stipulated in the **APPENDIX IV-1**.

### II-2.2 Designated "Call-Out" Equipment

CONTRACTOR shall make available all designated "Call-out" CONTRACTOR Equipment as listed in **APPENDIX II-1** for the CLIENT use upon request in writing. All CONTRACTOR Equipment as listed in **APPENDIX II-1** shall be located at the CONTRACTOR's Warehouse. CLIENT shall compensate CONTRACTOR at scheduled rates stipulated in the **APPENDIX IV-1**.

### II-2.3 Spot "Call-Out" Equipment

CLIENT may from time to time require equipment on spot "Call-out" basis from CONTRACTOR's Published Price List. CLIENT shall compensate CONTRACTOR at the quoted price shown in CONTRACTOR's Published Price List.

## II-3.0 REPAIR AND MAINTENANCE SERVICE

CONTRACTOR shall have adequate facilities, equipment and spare parts to repair service and maintain CONTRACTOR Equipment in good working order. Machine shop and repair facilities shall be available 24 hours a day including holidays in **Vung Tau Supply Base**. CLIENT Representative shall have the right to monitor/verify the maintenance of equipment (for major repair and service)

**END OF EXHIBIT**

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**APPENDIX II-1**

**EQUIPMENT SPECIFICATIONS**

**(SEE ATTACHED FILE IN EXCEL)**

**TECHNICAL EVALUATION CRITERIA**  
**FOR PROVISION OF CTU, N2 STIMULATION SERVICES FOR 09 WELLS DEVELOPMENT DAI HUNG NAM & DH-18X, BLOCK 05-1(a), OFFSHORE VIETNAM**

| ITEM  | DESCRIPTIONS   | EVALUATION CATEGORY | CRITERIA |        |     | BIDDER A |        |     | BIDDER B |        |     | BIDDER C |        |     | Remarks   |
|---|--|---------------------|----------|--------|-----|----------|--------|-----|----------|--------|-----|----------|--------|-----|---|
|   |  |                     | GREEN    | YELLOW | RED | GREEN    | YELLOW | RED | GREEN    | YELLOW | RED | GREEN    | YELLOW | RED |   |
| <b>I BIDDER'S CAPABILITY AND EXPERIENCES</b>              |  |                     |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 1.1   | Onshore base facility in PTSC Supply base: able to perform service, maintenance and checking require equipment. Workshop shall be follow Vietnam regulation and quality control specification. | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     | Document must be submitted  |
| 1.2   | Bidder is requested to provide the similar contract has been performed in Vietnam or international over the past 5 years. Bidder must provide sufficient evidence accordingly.                 | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     | Provide the list of contracts including contract number and title |
| <b>II DELIVERY TIME &amp; KEY PERSONNEL</b>               |  |                     |          |        |     |          |        |     |          |        |     |          |        |     |   |
| <b>DELIVERY TIME</b>                                      |  |                     |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 2.1   | Meet 1 week call out notice for initial mobilization of equipment & personnel  | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     | compliant with Exh.1 - SOW  |
| 2.2   | Meet 24hr call out notice for surface equipmnet and accessories  | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     | compliant with Exh.1 - SOW  |
| 2.3   | Meet 24hr call out notice for personnel  | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     | compliant with Exh.1 - SOW  |
| <b>KEY PERSONNEL</b>                                      |  |                     |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 2.1   | SLICKLINE/WIRELINE SUPERVISOR  | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 2.2   | SLICKLINE/WIRELINE OPERATOR  | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 2.3   | MAST OPERATOR  | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 2.4   | WELL INTERVENTION SUPERVISOR   | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 2.5   | MPLT ENGINEER  | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 2.6   | TUBING CUTTER ENGINEER   | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     |   |
| <b>III TECHNICAL REQUIREMENTS</b>                         |  |                     |          |        |     |          |        |     |          |        |     |          |        |     |   |
| <b>CALL-OUT SLICKLINE TOOLS, EQUIPMENT &amp; SERVICES</b> |  |                     |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 3.1   | DUAL DRUM OF SLICKLINE UNIT (WITHIN 5 YEAR OLD, purchase proof to be included in Technical proposal)   | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     | 5 year old equipment  |
| 3.2   | HYDRAULIC POWER PACK   | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 3.3   | SLICKLINE TOOL BOX   | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 3.4   | SLICKLINE LUBRICATOR   | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 3.5   | PRESSURE TEST PUMP   | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 3.6   | PRESSURE CONTROL PANEL   | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 3.7   | AIR COMPRESSOR   | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 3.8   | HYDRAULIC BALL VALVE   | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 3.9   | 7/32" BRAIDED LINE DRUM  | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 3.10  | 7/32" OR 5/16" WIRELINE DRUM   | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 3.11  | GREASE WIRELINE STUFF BOX AND ACCESSORIES  | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 3.12  | GAMMA RAY/CCL TOOL (MAIN + BACK UP)  | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 3.13  | NON-EXPLOSIVE TUBING CUTTER (MECHANICAL OR PLASMA)   | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 3.14  | ADDRESSABLE RELEASE TOOL   | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 3.15  | ONSHORE PREPARATION  | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     |   |
| <b>CALL-OUT MPLT EQUIPMENT &amp; SERVICES</b>             |  |                     |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 3.11  | MEMORY PRODUCTION LOGGING TOOLS (MPLT) (MAIN + BACK UP)  | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 3.12  | DUMMY MPLT TOOLS   | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 3.13  | CONVEYANCE TOOLS & ACCESSORIES FOR LOGGING IN DEVIATED WELLS   | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 3.14  | SURFACE EQUIPMENT AND SOFTWARE FOR MPLT DATA ACQUISITION   | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 3.15  | MPLT INTERPRETATION SERVICE  | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     |   |
| <b>CALL-OUT MAST SYSTEM</b>                               |  |                     |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 3.15  | 70 ft MAST UNIT (WITHIN 5 YEAR OLD, purchase proof to be included in Technical proposal))  | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     | 5 year old equipment  |
| <b>IV HSE</b>   |  |                     |          |        |     |          |        |     |          |        |     |          |        |     |   |
| 4.1   | As per technical specification   | MAJOR               |          |        |     |          |        |     |          |        |     |          |        |     |   |
| <b>VI RESULT</b>  |  |                     |          |        |     |          |        |     |          |        |     |          |        |     |   |

**NOTES:**

|  |                     |
|--|---------------------|
| All "Major" items are evaluated as "GREEN", and all "Minor" items are evaluated as "GREEN" or "YELLOW" | <b>QUALIFIED</b>    |
| Any "Major" or "Minor" item is evaluated as "RED"  | <b>DISQUALIFIED</b> |

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TECHNICAL CRITERIA FOR SLICKLINE & MPLT EQUIPMENTS

| No.   | Descriptions   | Minimum Client's Requirements   | Evaluation Category | Criteria |            |         | BIDDER A          |            | BIDDER B          |            | BIDDER C          |            |
|-------|--|---|---------------------|----------|------------|---------|-------------------|------------|-------------------|------------|-------------------|------------|
|       |  |   |                     | CRIT. 1  | VEL. LOW   | CRIT. 2 | Bidder's proposal | Evaluation | Bidder's proposal | Evaluation | Bidder's proposal | Evaluation |
| 1     | SLICKLINE EQUIPMENT & TOOLS  |   |                     |          |            |         |                   |            |                   |            |                   |            |
| 1.1   | SURFACE SLICKLINE UNIT & ACCESSORIES   |   |                     |          |            |         |                   |            |                   |            |                   |            |
| 1.1.1 | DUAL DRUM OF SLICKLINE UNIT (WITHIN 5 YEAR OLD, purchase proof to be included in Technical proposal) | Containerize dual drum logging unit C/W winch unit, logging cabin and power pack must be included but not limit to the following features:<br>-Zone 2 certified<br>-Hydraulic or air starter<br>-One drum of Slickline Zeron 100HS wire 0.125", minimum 15,000 FT length. 112S service, minimum breaking strength 3000 l.bs.<br>- One drum of 7/32" Braidedline<br>-Digital depth tension devices for Slickline operation.<br>-Standard acquisition, collector and accessories for depth correlation. |                     |          |            |         |                   |            |                   |            |                   |            |
| 1.1.2 | HYDRAULIC POWER PACK   | Compliant to Zone II.<br><u>Hydraulic Power Pack</u><br>A hydraulic power unit driven by diesel engine (water or air cooled) complete with all accessories to provide power required to operate each and every piece of CONTRACTOR Equipment. Skid mounted or integrated with Offshore Logging Unit. Diesel engine must have hand and pneumatic/hydraulic start, flame arrester and exhaust manifold wrapped with non-flammable material.   | Full Comply         | N/A      | Not Comply |         |                   |            |                   |            |                   |            |
| 1.2   | DOWNHOLE TOOLS (MAIN + BACK UP)  |   |                     |          |            |         |                   |            |                   |            |                   |            |

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|       |  |  |       |             |     |            |  |  |  |  |  |  |  |
|-------|--|--|-------|-------------|-----|------------|--|--|--|--|--|--|--|
| 1.2.1 | SLICKLINE TOOL BOX                                 | <p>Complete with rope sockets, stems, stems, jaws, knuckle joints, roller bogies, gauge cutters (2" - 3.8" OD), LTB (2" - 3.8" OD), hydraulic sand bailer (1.5" - 1.875" OD), junk catcher, crossovers, clamps, spares, consumables, pulling tools, running tools and fishing tools and other accessories for slick-line/branded line mono-conductor operations including but not limited to the following:</p> <ul style="list-style-type: none"> <li>- Downhole tools full set of 1.7.8" and 1 1/2" OD, working condition 1770c and 10K psi WP. Sour environment.</li> <li>- Run set and pull multiple shut-in/open downhole latch system (with gauges if required) for downhole shut-in valve for surface read-out.</li> <li>- Run, hang and pull surface read-out gauges on yo-yo</li> <li>- Run and shift SSDs.</li> <li>- Run three (3) bottomhole samplers in tandem using clock and/or surface set with/without gauges.</li> <li>- Run and shift SSDs.</li> <li>- Run and shift releasing tool to drop TCP gun.</li> <li>- Swabbing and basic Fishing Tools.</li> <li>- N-over from pressure equipment to DST test tree/Flowhead.</li> <li>- Run and shift releasing tool to drop TCP gun.</li> <li>- Fishing Tools: Full package for fishing in 3.5" &amp; 4.5" tubing including sand bailer, junk basket, go-devil, over short, pulling and running tool suitable for slick line tools acceptable working in sour environment. Maximum temperature/pressure is 1770c and 10K psi.</li> </ul> | Major | Full Comply | N/A | Not Comply |  |  |  |  |  |  |  |
| 1.3   | PRESSURE CONTROL EQUIPMENTS                        |  |       |             |     |            |  |  |  |  |  |  |  |
| 1.3.1 | SLICKLINE LUBRICATOR                               | <p>All lubricator sections to be interchangeable, 3" ID x 10K psi WP, hydraulically tested to 15K psi and x-ray by third party and reports of the test submitted to CLIENT. One (01) section of lubricator c/w 2 x 1/2" NPT fittings and valves for bleeding off and chemical injection. Minimum total length 40ft. Stuffing box to have compatible connections with lubricator sections. Complete with sheave etc. and 10K psi WP.</p> <p>Triple ram hydraulic WL BOP c/w Shear RAM, 3" ID 10K psi WP, 45ft length, to have top connection compatible with lubricator sections complete with hydraulic hoses and hand pump.</p> <p>Pump In Stub and Bleed off Stub: 3" ID, 10K psi WP.</p> <p>TIV valve (work valve) for pressure test PCE or injection in to the well.</p> <p>The CONTRACTOR should provide adaptor between the WL BOP and Surface Flowhead if required. Type of surface flowhead connection will be informed.</p> <p>Cross-over from PCE to the well head (Well head connection TBA)</p>  | Major | Full Comply | N/A | Not Comply |  |  |  |  |  |  |  |
| 1.3.2 | PRESSURE TEST PUMP                                 | 10K psi WP and high rate.  | Major | Full Comply | N/A | Not Comply |  |  |  |  |  |  |  |
| 1.3.3 | PRESSURE CONTROL PANEL                             | 10K psi WP for controlling Subsea Safety Control Valve and Surface hydraulic valves of wellhead. Including two (02) 300ft length hoses 10K psi WP and quick unions.  | Major | Full Comply | N/A | Not Comply |  |  |  |  |  |  |  |
| 1.3.4 | AIR COMPRESSOR                                     | 120psi WP, rate 90 cubic feet per minute.  | Major | Full Comply | N/A | Not Comply |  |  |  |  |  |  |  |
| 1.4.1 | HYDRAULIC BALL VALVE                               | <p>Hydraulic Ball Valve</p> <ul style="list-style-type: none"> <li>- Working pressure: 10,000psi</li> <li>- Minimum ID: 3.0" size</li> <li>- Bottom &amp; Top Connection: Suitable with Contractor's PCE</li> <li>- Hydraulic control and operated.</li> <li>- Service: H2S service.</li> </ul>  | Major | Full Comply | N/A | Not Comply |  |  |  |  |  |  |  |
| 1.4   | ADDITIONAL TOOL & SERVICES                         |  |       |             |     |            |  |  |  |  |  |  |  |
| 1.4.1 | 7/32" BRAIDED LINE DRUM                            | <p>7/32" Braided cable for Sour Service</p> <ul style="list-style-type: none"> <li>- Compatible with the Wireline Unit.</li> <li>- Minimum Breaking Load - 4,500 lb.</li> <li>- Length: Minimum 6,000m.</li> <li>- Provide the suitable Winch Drum and transportation box.</li> </ul>  | Major | Full Comply | N/A | Not Comply |  |  |  |  |  |  |  |
| 1.4.2 | 7/32" OR 5/16" WIRELINE DRUM                       | <p>7/32" or 5/16" mono cable</p> <ul style="list-style-type: none"> <li>- Length: Minimum 22000ft.</li> <li>- Compatible with the Exclusive Wireline Unit.</li> <li>- Suitable with downhole conditions for logging and performing in deviation well.</li> </ul>   | Major | Full Comply | N/A | Not Comply |  |  |  |  |  |  |  |
| 1.4.3 | GREASE WIRELINE STUFF BOX AND ACCESSORIES          | <p>10K Grease Injection Head / Stuffing Box / Pack-off / Line Wiper</p> <p>Service: H2S service</p> <ul style="list-style-type: none"> <li>- Wire size: match with the braided cable.</li> <li>- Provide up to 6 Flow tube.</li> <li>- Provide ball check valve, cable cutter subs.</li> <li>- Provide compatible pulley, sheave wheel.</li> <li>- The lifting sling is a 4-leg, wire, SWL within 3.5 ton</li> <li>- Bottom Connection: Quick Union matching with exclusive slickline PCE and Tool Catcher</li> </ul>  | Major | Full Comply | N/A | Not Comply |  |  |  |  |  |  |  |
| 1.4.4 | GAMMA RAY CCL TOOL (MAIN + BACK UP)                | <p>Shooting GR-CCL for depth correlation and perforation in one single run in hole</p> <ul style="list-style-type: none"> <li>- Working Temperature: 177DegC</li> <li>- Pressure Rating: 20k psi</li> </ul>  | Major | Full Comply | N/A | Not Comply |  |  |  |  |  |  |  |
| 1.4.5 | NON-EXPLOSIVE TUBING CUTTER (MECHANICAL OR PLASMA) | <p>NON-Explosive Tubing Cutter for 3.5" to 4.5" Tubing</p> <ul style="list-style-type: none"> <li>- Temperature rating 250 DegC or above</li> <li>- Pressure rating up to 15,000 psi</li> <li>- Self-anchoring system to prevent unstable condition inside and out site cut tubing</li> <li>- No limit for casing environment, working in all types of fluid and dry well</li> <li>- Cut all grades of pipe/tubing</li> <li>- Cutting quality: Clean, burr-free, flare-free cut</li> </ul>   | Major | Full Comply | N/A | Not Comply |  |  |  |  |  |  |  |
| 1.4.6 | ADDRESSABLE RELEASE TOOL                           | <p>Addressable Release Tools (ART) with ID 1 11/16" or 2 1/8" suitable for various applications, including pump-down operations, deviated or horizontal wells, and situations where high tensions are probable. Allows for controlled release of the toolstring, minimizing risk. Can be used with various toolstrings and equipment. Incorporates safety systems to prevent accidental release.</p> <ul style="list-style-type: none"> <li>- Running tools in deviated or horizontal wells where high tensions are probable and it may not be possible to break the mechanical weak point</li> <li>- For use in wells where there is a risk that the toolstring could get stuck.</li> <li>- Below a tractor to give the best chance possible of retrieving the tractor should the passenger toolstring become stuck</li> <li>- Working Temperature: 177DegC</li> <li>- Pressure Rating: 15k psi</li> </ul>  | Major | Full Comply | N/A | Not Comply |  |  |  |  |  |  |  |
| 1.4.7 | ONSHORE PREPARATION                                | <p>Install gas lift valves</p> <p>Function check Sliding Side Doors</p> <p>Drill and install plugs, then do seal bore tests etc</p>  | Major | Full Comply | N/A | Not Comply |  |  |  |  |  |  |  |

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| II  |  | MAST SYSTEM   |       |             |     |            |  |  |  |  |  |  |  |  |
|-----|--|---|-------|-------------|-----|------------|--|--|--|--|--|--|--|--|
| 2.1 | 70 FT MAST UNIT (WITHIN 5 YEAR OLD, purchase proof to be included in Technical proposal) | A minimum 70-foot Telescopic Wireline Hydraulic Mast System, Zone 1 specification. Completed with a Power pack unit driven by diesel engine. Zone 2 Specification. Must be less than 3 years old.   | Major | Full Comply | N/A | Not Comply |  |  |  |  |  |  |  |  |
| III |  | MPLT EQUIPMENT & TOOLS  |       |             |     |            |  |  |  |  |  |  |  |  |
| 3.1 | MEMORY PRODUCTION LOGGING TOOLS (MPLT) (MAIN - BACK UP)                                  | <ul style="list-style-type: none"> <li>Diameter : 1-11/16"</li> <li>Maximum working temperature: 177oC</li> <li>Maximum WP: 15K psi.</li> <li>The package should include but not limited to the following:               <ul style="list-style-type: none"> <li>- Deployment tools: Weight Bars, Knuckle Joints, Swivel Joints, 3-Arm Roller Centralisers, Bow spring Centralisers, Shock Absorber.</li> <li>- Depth correlation: CCL and GR sensor (sensitivity 1 count/API, accuracy less 10%).</li> <li>- Temperature sensor (resolution less 0.005oC, accuracy ±0.15oC and Pressure sensor (resolution less 0.008psi, accuracy ±0.02psi/#).</li> <li>- Radioactive density sensor (resolution less 0.01g/cc, accuracy ±0.03g/cc, range from 0-1.25g/cc).</li> <li>- Fluid Identification: Fluid Density Inertial sensor (FDI) (accuracy of ±0.03 g/cc with range 0-1.25g/cc), Capacitance Water Holdup and Gas Holdup sensors (resolution less 1%, accuracy of ±5% with range 0-45%).</li> <li>- Flow measurement: Fullbore spinner sensor (threshold 1.7l/min, fluid velocity above 500ft/min), inline spinner sensor (threshold 12 ft/min, fluid velocity above 3000ft/min) and Continuous spinner sensor (threshold 12 ft/min, fluid velocity above 3000 ft/min).</li> <li>- Memory section: sampling rate from 0.1 to 1 second, memory minimum storage capacity of 16Gb.</li> </ul> </li> </ul> | Major | Full Comply | N/A | Not Comply |  |  |  |  |  |  |  |  |
| 3.2 | DUMMY MPLT TOOLS   | Dummy tools required to run prior to deployment of the MPLT tools above in above LHH of the tools.  | Major | Full Comply | N/A | Not Comply |  |  |  |  |  |  |  |  |
| 3.3 | CONVEYANCE TOOLS & ACCESSORIES FOR LOGGING IN DEVIATED WELLS                             | Allow the tools to run in high deviation wells or wells with high friction; Eline Rollerise tools for 3.5" and 4.5" tubing  | Major | Full Comply | N/A | Not Comply |  |  |  |  |  |  |  |  |
| 3.4 | SURFACE EQUIPMENT AND SOFTWARE FOR MPLT DATA ACQUISITION                                 | Allows the operators to program the tools prior to logging runs, and to acquire, log, assemble, and present various kinds of downhole data after logging runs. This includes applications for creating well diagrams, tool diagrams, customized log headers, calibration summaries, and logging passes.   | Major | Full Comply | N/A | Not Comply |  |  |  |  |  |  |  |  |
| 3.5 | MPLT INTERPRETATION SERVICE  | Interpretation of MPLT/PLT data of single or multiple phase, multiple flow rate.  | Major | Full Comply | N/A | Not Comply |  |  |  |  |  |  |  |  |
| IV  |  | REPAIR AND MAINTENANCE SERVICES/SUPPORT BASE & OFFICE IN VUNGTAU  |       |             |     |            |  |  |  |  |  |  |  |  |
| 4.1 | WAREHOUSE, WORKSHOP, OPEN YARD, OFFICE & TECH SUPPORT IN TOWN                            | <ul style="list-style-type: none"> <li>- Have adequate tools, equipment and spare parts inventory to service and maintain in good working order on the Work Site(s) and at the respective supply bases. Provide the list of spare equipment, spare parts and consumables that will be maintained at CONTRACTOR's warehouse to support the operations.</li> <li>- Technical support in town, supply base, logistic capability to support offshore operation.</li> <li>- Location must be Vung tau.</li> </ul>  | Major | Full Comply | N/A | Not Comply |  |  |  |  |  |  |  |  |
| V   |  | DELIVERY TIME REQUIREMENT   |       |             |     |            |  |  |  |  |  |  |  |  |
| V.1 | LEAD TIME REQUIREMENTS FOR DELIVERY  | Meet CLIENTS delivery time requirements   | Major | Full Comply | N/A | Not Comply |  |  |  |  |  |  |  |  |

- NOTES:
- 1 Bidder's technical proposal for each criterion will be evaluated as "GREEN" when it is assessed "fully meet requirement"
  - 2 Bidder's technical proposal for each criterion will be evaluated as "YELLOW" when it is assessed "partially meet requirement"
  - 3 Bidder's technical proposal for each criterion will be evaluated as "RED" when it is assessed "does not meet requirement"
  - 4 Bidder will be evaluated as "QUALIFIED" when NO any criteria is assessed as "RED".

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**TECHNICAL CRITERIA FOR SLICKLINE & MPLT PERSONNEL**

| No.                                      | Descriptions                  | Minimum Client's requirements                              | Evaluation Category | Criteria     |        |            | BIDDER A          |            | BIDDER B          |            | BIDDER C          |            |
|--|-------------------------------|--|---------------------|--------------|--------|------------|-------------------|------------|-------------------|------------|-------------------|------------|
|  |                               |  |                     | GREEN        | YELLOW | RED        | Bidder's proposal | Evaluation | Bidder's proposal | Evaluation | Bidder's proposal | Evaluation |
| <b>A. SLICKLINE &amp; MAST PERSONNEL</b> |                               |  |                     |              |        |            |                   |            |                   |            |                   |            |
| 1.1                                      | SLICKLINE/WIRELINE SUPERVISOR | 7 years experience in Slickline Supervisor position        | Major               | Fully Comply | N/A    | Not Comply |                   |            |                   |            |                   |            |
|  |                               | Meet COMPANY's safety training/certification requirements. | Major               |              |        |            |                   |            |                   |            |                   |            |
| 1.2                                      | SLICKLINE/WIRELINE OPERATOR   | 5 years experience in Slickline Operator position.         | Major               | Fully Comply | N/A    | Not Comply |                   |            |                   |            |                   |            |
|  |                               | Meet COMPANY's safety training/certification requirements. | Major               |              |        |            |                   |            |                   |            |                   |            |
| 1.3                                      | MAST OPERATOR                 | 5 years experience in Mast Operator position               | Major               | Fully Comply | N/A    | Not Comply |                   |            |                   |            |                   |            |
|  |                               | Meet COMPANY's safety training/certification requirements. | Major               |              |        |            |                   |            |                   |            |                   |            |
| <b>B. MPLT PERSONNEL</b>                 |                               |  |                     |              |        |            |                   |            |                   |            |                   |            |
| 1.4                                      | WELL INTERVENTION SUPERVISOR  | 7 years experience in MPLT Operator position.              | Major               | Fully Comply | N/A    | Not Comply |                   |            |                   |            |                   |            |
|  |                               | Meet COMPANY's safety training/certification requirements. | Major               |              |        |            |                   |            |                   |            |                   |            |
| 1.5                                      | MPLT ENGINEER                 | 7 years experience in MPLT Operator position.              | Major               | Fully Comply | N/A    | Not Comply |                   |            |                   |            |                   |            |
|  |                               | Meet COMPANY's safety training/certification requirements. | Major               |              |        |            |                   |            |                   |            |                   |            |
| <b>C. TUBING CUTTER PERSONNEL</b>        |                               |  |                     |              |        |            |                   |            |                   |            |                   |            |
| 1.6                                      | TUBING CUTTER ENGINEER        | 5 years experience in Tubing Cutter Engineer position.     | Major               | Fully Comply | N/A    | Not Comply |                   |            |                   |            |                   |            |
|  |                               | Meet COMPANY's safety training/certification requirements. | Major               |              |        |            |                   |            |                   |            |                   |            |

- NOTES:**
- Bidder's technical proposal for each criterion will be evaluated as "GREEN" when it is assessed "fully meet requirement"
  - Bidder's technical proposal for each criterion will be evaluated as "YELLOW" when it is assessed "partially meet requirement"
  - Bidder's technical proposal for each criterion will be evaluated as "RED" when it is assessed "does not meet requirement"
  - Bidder will be evaluated as "QUALIFIED" when NO any criteria is assessed as "RED".

**HSE EVALUATION OF WELL TESTING EQUIPMENT AND SERVICES FOR 09 WELLS DEVELOPMENT DAI HUNG NAM &DH-18X, BLOCK 05-1(a), OFFSHORE VIETNAM**

| No.      | Description                                   | CLIENT's Requirements  | Evaluation Category | Criteria             |  |     |
|----------|---|--|---------------------|----------------------|--|-----|
|          |   |  |                     | GREEN                | YELLOW   | RED |
| <b>V</b> | <b>HSE</b>                                    |  | <b>Minor</b>        |                      |  |     |
| 5.1      | <b>SAFETY POLICY &amp; PROGRAM</b>            | 1. Have a written policy on Safety, Health and Environment<br>2. Bidders have a HSE Policy a standard comparable to CLIENT's policy and shall be actively supported and endorsed by CONTRACTOR's Management ;<br>3. Bidder have to prepare safety targets and objectives, paying particular attention to accident prevention for this campaign |                     | Meet all requirement | Meet requirement 1&3   |     |
| 5.2      | <b>ACCIDENT REPORTING &amp; INVESTIGATION</b> | 1. Have accident investigation Procedures comply with Vietnamese Laws.   |                     | Meet all requirement |  | y   |
| 5.3      | <b>ALCOHOL/DRUG POLICY</b>                    | 1. Have Alcohol/Drug Policy/Procedure  |                     | Meet all requirement |  |     |
| 5.4      | <b>PERMIT TO WORK SYSTEM</b>                  | 1. Have Permit to Work System<br>2. The Bidder have trained, competent personnel shall be engaged for any Permit to work   |                     | Meet all requirement |  |     |
| 5.5      | <b>SAFETY TRAINING &amp; SUPERVISION</b>      | 1. Bidders shall ensure that its personnel have been given the necessary basic safety, fire-fighting, sea-survival, and job related training required by law and CLIENT as outlined in APPENDIX VI-2.<br>2. Training shall be carried out at training establishments approved by CLIENT as listed in APPENDIX VI-3                             |                     | Meet all requirement |  |     |
| 5.6      | <b>PERSONNEL PROTECTIVE EQUIPMENT</b>         | 1. Bidders shall be responsible for providing its personnel with CLIENT approved Personal Protective Equipment suitable for the task being carried out.<br>2. CLIENT approved Personal Protective Equipment suitable will be mentioned in APPENDIX VI-1  |                     | Meet all requirement |  |     |
| 5.7      | <b>SAFETY DRILL</b>                           | 1. The bidders Personnel when working offshore or onshore shall participate in appropriate emergency drills  |                     | Meet all requirement |  |     |
| 5.8      | <b>SAFETY MEETING</b>                         | 1. Have HSE meeting Policy/Procedure   |                     | Meet all requirement |  |     |
| 5.9      | <b>MEDICAL WELFARE</b>                        | 1. The Bidders shall ensure that all its employees and Subcontractor's employees engaged in the WORKS are medically fit and healthy certificates. For offshore work, the result is "Fit to work offshore".   |                     | Meet all requirement |  |     |
| 5.10     | <b>TOOL &amp; EQUIPMENT</b>                   | 1. The Bidders shall have Maintain and Use procedures for Equipment and tools<br>2. The Bidders shall ensure Tool & equipment in good condition with appropriate certificate in valid  |                     | Meet all requirement |  |     |
| 5.11     | <b>HOUSEKEEPING</b>                           | 1. The Bidders shall have housekeeping procedures/Policy   |                     | Meet all requirement |  |     |
| 5.12     | <b>ENVIRONMENTAL PROTECTION</b>               | 1. The Bidders have environment protection procedure/policy<br>2. The Bidders shall ensure that its employees and its Subcontractors, and their employees are fully aware of the environmental protection  |                     | Meet all requirement | Meet requirement 1   |     |
| 5.13     | <b>LAND TRANSPORTATION</b>                    | 1. Land transportation shall comply with the Vietnamese traffic rules and regulations.   |                     | Meet all requirement |  |     |
| 5.14     | <b>TYPICAL HAZARDS</b>                        | 1. Bidder is required to provide the tools and equipment as well as written procedure to ensure all hazards listed in APPENDIX VI-3 are addressed<br>2. The Bidders have Hazards Identification and Risk Assessment Procedure relating to the Job  |                     | Meet all requirement |  |     |
| 5.15     | <b>HSE performance records</b>                | 1. Must have maintained records incidents and HSE performance for the last five (5) years  |                     | Meet all requirement | Maintained records incidents and HSE performance for two (2) years |     |
| 5.16     | <b>HSE Awareness and Incentive Programs</b>   | 1. The Bidders shall have HSE awareness and Incentive Programs   |                     | Meet all requirement |  |     |

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