



**DOMESTIC PETROLEUM OPERATING BRANCH - PETROVIETNAM  
EXPLORATION PRODUCTION CORPORATION LIMITED**

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Ho Chi Minh City, date: 2<sup>nd</sup> Oct. 2025

**INVITATION TO BID**

**TENDER TITLE: PROVISION OF DIRECTIONAL DRILLING, MWD & LWD SERVICES FOR DRILLING & COMPLETION PROGRAM FOR DAI HUNG NAM FIELD DEVELOPMENT, BLOCK 05-1(a), OFFSHORE VIETNAM**

**TENDER No.: PVEPPOC-DRL-2025-024**

*If you have not received the full text of this letter, please call (84-8) 3776 2222*

Dear Sir/Madam,

DOMESTIC PETROLEUM OPERATING BRANCH - PETROVIETNAM EXPLORATION PRODUCTION CORPORATION LIMITED (hereinafter referred to as "CLIENT") hereby solicits a competitive proposal for the Provision of Directional Drilling, MWD & LWD Services for Drilling & Completion Program for Dai Hung Nam Field Development, Block 05-1(a), Offshore Vietnam (Hereinafter referred to as "WORKS").

CLIENT hereby invites BIDDER to submit its Bid Proposal for the WORKS in accordance with this Invitation To Bid and the Instructions To Bid. BIDDER shall be binding to enter into a Contract agreement with CLIENT if the Contract is awarded to BIDDER in accordance with the Terms & Conditions shall be mutually agreed during bidding process.

BIDDER's Bid Proposal must be received by CLIENT not later than Bid Closing Date specified on the website "muasamcong.mpi.gov.vn" at the CLIENT's address.

BIDDER's Bid Proposal shall be binding for a period of two hundred and ten (210) calendar days from Bid Closing Date. Any changes in associated with BIDDER's Bid Proposal after Bid Closing Date shall not be allowed and may result in BIDDER's Proposal being disqualified.

Any Tender clarification(s) must be made in writing to the undersigned. Unofficial visits and or discussions with CLIENT shall not be allowed throughout the bidding progress.

Bidder is strictly requested NOT to disclose the attached ITB to any third party. In the event that BIDDER declines to Bid, please delete them, and in all such cases this shall be done not later than the bid closing date.

Please download soft DOCUMENT and follow any update on <https://muasamcong.mpi.gov.vn/> (or email to [tuanlt@pvep.com.vn](mailto:tuanlt@pvep.com.vn)).

Yours faithfully,  
For and On Behalf of CLIENT

**LE DUC TUE**  
Director



## INVITATION TO BID (“ITB”)

INVITATION TO BID No.: PVEP POC-DRL-2025-024  
PROVISION OF DIRECTIONAL DRILLING, MWD & LWD  
SERVICES FOR DRILLING & COMPLETION PROGRAM  
FOR DAI HUNG NAM FIELD DEVELOPMENT, BLOCK  
05-1(a), OFFSHORE VIETNAM

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CLOSING TIME & DATE

**@ 10:00 HOURS, November, 28 2025 (GMT+7)**

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**PART I : ITB INSTRUCTIONS**



## 1. INSTRUCTIONS AND INFORMATION TO BIDDER



## INSTRUCTIONS AND INFORMATION TO BIDDER

### 1.0 GENERAL

- 1.1 Domestic Petroleum Operating Branch - Petrovietnam Exploration Production Corporation Limited (hereinafter referred to as "CLIENT") invites BIDDER to submit proposal for Provision of Directional Drilling, MWD & LWD Services for Drilling & Completion Program for Dai Hung Nam Field Development, Block 05-1(a), Offshore Vietnam (hereinafter referred to as "WORKS") under Tender No. PVEP POC-DRL-2025-024 as details in this ITB.
- 1.2 In order for CLIENT to fully assess the relative merits of each proposal, BIDDER is requested to furnish CLIENT with all relevant and complete information as set forth in the following items of "INSTRUCTIONS AND INFORMATION TO BIDDER". BIDDER is urged to comply strictly with ITB's requirements.
- 1.3 Eligibility of BIDDER

a. BIDDER shall be eligible required as follows:

In case of independent BIDDER:

- **Domestic BIDDER** is to provide notarized copy of eligible certificate of business registration in accordance with Vietnamese Laws;
- **Foreign BIDDER** is to provide notarized copy of eligible certificate of business registration in accordance with the country of BIDDER'S nationality;
- BIDDER is an independent cost accounting entity;
- There is no decision by a competent authorities concluding that the BIDDER has an unhealthy financial status; BIDDER is not in bankrupt or insolvent status, and BIDDER is not in the process of dissolution.
- BIDDER participates in bid must be legally and financially independent with Investor and/or Procuring Entity. Failure to comply with such requirement may be considered as disqualified.

b. In case of Consortium:

- Each Consortium Partner is to provide the documents and to meet the requirements mentioned in paragraph 1.3.a. above.
- Written Consortium Agreement between the consortium partners specifying responsibilities (joint and several) of each Consortium Partner in implementing the Bid, rights and scope of work and respective value of each Consortium Partner, including the Leading Consortium Partner and its responsibility, place and date of signing the Consortium

Agreement, signatures and seals (if any) of Consortium Partners. If the Consortium Partner is authorized as the Leading Partner to sign the Proposal Letter, this effect shall be stated in the Consortium Agreement).

- 1.4. BIDDER must submit its proposal strictly in accordance with the terms of the ITB which consists of the following:

**PART I - ITB INSTRUCTIONS**

INSTRUCTIONS AND INFORMATION TO BIDDER

BIDDER'S QUESTIONNAIRE

BIDDING FORMS

PRELIMINARY AND TECHNICAL EVALUATION CRITERIA

**PART II – CONTRACT DOCUMENT**

CONTRACT FORM

**EXHIBITS:**

EXHIBIT I	SPECIAL PROVISIONS AND SCOPE OF WORKS
EXHIBIT II	EQUIPMENT SPECIFICATIONS
EXHIBIT III	SUMMARY OF RESPONSIBILITIES
EXHIBIT IV	CONTRACT PRICE AND PRICE LIST
EXHIBIT V	CONTRACTOR'S PERSONNEL
EXHIBIT VI	HEALTH, SAFETY AND ENVIRONMENT REQUIREMENT
EXHIBIT VII	BANK GUARANTEE FORMAT
EXHIBIT VIII	PERFORMANCE GUARANTEE FORMAT
EXHIBIT IX	CHANGE ORDER PROCEDURES
EXHIBIT X	INVOICING PROCEDURES AND ADMINISTRATION GUIDELINES

- 1.5 As a base case, **BIDDER's proposal should be in full conformity with the requirements as set out in the ITB.** Nothing shall be deemed to change or supplement this basis except revisions or addendum to the ITB issued in writing by CLIENT to BIDDER. If BIDDER wishes to present an alternatives (**applicable to Technical Specifications ONLY**), BIDDER may do so (as an option to CLIENT) only after having duly complied with the requirements of the ITB.
- 1.6 Joint or Consortium bids may be rejected. Principal submitting proposal through more than one (1) BIDDER shall be disqualified.
- 1.7 Any queries concerning preparation of the proposal shall be directed in writing to the address given in Item 10.3.

- 1.8 All Bid Proposals must be signed by an officer duly authorized by BIDDER to do so.
- 1.9 Any amendment appearing in the Bid Proposal must be signed or initialed by an officer duly authorized by BIDDER to do so.
- 1.10 BIDDER is to ensure that all prices and other details in the proposal are correct at the time of submission. CLIENT will not entertain any changes or addenda due to typing or calculation errors after the Bid Closing Date.
- 1.11 BIDDER is to bear responsibility for and pay all costs, expenses and other charges incurred in preparation and delivery of the proposal to CLIENT's designated office as stated in Item 10.3, irrespective of whether an order is placed or not.
- 1.12 Submission of proposal by BIDDER will constitute a firm offer by BIDDER that BIDDER is prepared to enter into CONTRACT with CLIENT on the conditions shown in this ITB.

Proposal by BIDDER shall be binding for a minimum period of two hundred and ten (210) days **from the Bid Closing Date**. BIDDER may assume that the award for CONTRACT will be made within 210 calendar days from the Bid Closing Date and BIDDER can assume that it has not been successful if no notification is received within the bid validity period. BIDDER shall state the precise date of validity in the proposal. CLIENT shall be entitled to request BIDDER to extend Bid Validity for maximum of one hundred and fifty (150) calendar days (if any) without any BIDDER's exception.

- 1.13 BIDDER is requested to use the term "CONTRACTOR" instead of its specific company business name in their submission of Bid Proposal except for covering letter, header and footer.
- 1.14 At any time prior to Bid Closing Date, CLIENT, for any reason, whether at its own initiative or in response to a clarification requested by BIDDER, may modify the ITB by amendment (including the extension of Bid Closing Date, if necessary) by sending the amendment of ITB in writing to all BIDDERS prior to the Bid Closing Date. These amendments shall be the part of ITB. BIDDERS shall notify to CLIENT by email or by fax to acknowledge their receipt of said amendments.
- 1.15 FAILURE TO STRICTLY COMPLY WITH THE INSTRUCTION AS SET FORTH IN THIS DOCUMENT WILL RESULT IN BIDDER'S PROPOSAL BEING DEEMED NON-RESPONSIVE IN WHICH CASE IT MAY BE DROPPED FROM FURTHER CONSIDERATION.

## **2.0 INTENTION TO BID**

- 2.1 BIDDER is advised to thoroughly check the completeness of the ITB upon receipt. BIDDER must inform CLIENT within seven (7) days from the bid issue date if any of the pages are missing.
- 2.2 **BIDDER is required to acknowledge receipt of the ITB** in accordance with the ITB

Acknowledgement Letter Form set out in BIDDING FORMS and intention to submit proposal or otherwise by fax **at least three (3) working days** from bid issuance date. BIDDER is also advised to confirm its address and name a representative to whom all communications from CLIENT shall be addressed to.

- 2.3 BIDDER is strictly requested NOT to disclose the attached ITB to any third party. In the event that BIDDER declines to Bid, please delete them, and in all such cases this shall be done not later than the bid closing date.
- 2.4 All ITB returned (if any) shall be forwarded to the address as given in Item 10.3 herein, with the following wordings clearly marked on the cover/envelope.
  - (a) "DECLINE TO BID-DOCUMENTS RETURNED"
  - (b) ITB NUMBER and TITLE
  - (c) BIDDER'S NAME

### **3.0 EXCLUSIVITY OF BID**

BIDDER is required to submit Bid Proposal in conjunction with the Principal and the Principal MUST be the prime vendor for the total proposal package. BIDDER is also required to submit a support letter from Principal (if any).

### **4.0 SCOPE OF WORKS**

WORKS to be provided under this ITB shall and defined in **EXHIBIT I – SPECIAL PROVISIONS AND SCOPE OF WORKS** of the CONTRACT document.

### **5.0 PRICE QUOTATION**

- 5.1 The Domestic BIDDER's price quotation shall be quoted in Vietnam Dong (VND).
- 5.2 The Foreign BIDDER's price quotation shall be quoted in United State Dollar (USD)
- 5.3 Once specified, the unit prices shall prevail throughout the life of the CONTRACT and shall not be subject to revision by reason of cost escalation nor currency fluctuations.
- 5.4 PRICE OF COMPENSATION
  - 5.4.1 BIDDER's Bid Proposal shall be in full conformity with the requirements as set out in this Bid documents.
  - 5.4.2 BIDDER should specifically note that subsequence to the Bid Closing Date, no alteration in price quotation will be permitted whatsoever.
  - 5.4.3 Prices are to be itemized according to the Item numbers in the Commercial

Proposal Form attached hereto. Unit price and total price must be clearly stated in the quotation. All discounts, in percentage of total estimated contract value, are to be stated separately.

- 5.4.4 The proposed CONTRACT PRICE shall indicate whether it is inclusive of Vietnamese taxes (VAT, CIT, etc.) or not. In the event that the quoted prices do not specify this, they shall be treated as inclusive of all taxes

## **6.0 BID EXCEPTIONS**

- 6.1 In the event BIDDER has any change that is considered of mutual benefit or if there is any exception to ITB document, BIDDER must state the changes or exceptions proposed by using the Exception Form as set out in BIDDING FORMS and giving specific reasons thereof. BIDDER must indicate clearly the effect, if any, these changes or exceptions may have on BIDDER's price quotation and WORKS schedule if the change or exceptions were to be accepted by CLIENT. CLIENT will review each change or exception on a case-by-case basis, **but in no event shall BIDDER's base quotation be qualified by any such change or exception nor will CLIENT be obligated to accept any such change or exception.**
- 6.2 Changes or exceptions to the ITB document expressed after the Bid Closing Date will not be entertained.
- 6.3 If BIDDER cannot accept CLIENT's wording or any other requirement at any price, and is willing to risk having its proposal rejected on this basis, then BIDDER must include the following statement under the "CHANGE IN BID PRICE/DELIVERY" column of the Exceptions Form:
- "FIRM - WILL NOT ACCEPT CLIENT'S WORDING/REQUIREMENT AT ANY PRICE".
- 6.4 BIDDER shall quote the firm unit price by which the Price will be adjusted (either up or down) should CLIENT do not accept BIDDER's proposed changes or exceptions.
- 6.5 BIDDERS shall provide a softcopy of its UN-PRICED EXCEPTIONS submitted together with the Technical and Unpriced Package.

## **7.0 BID BOND**

- 7.1 When participating to the Tender, BIDDER shall, at its own expense, furnish Bid Bond using the Bid Bond Form set out in **Bidding Forms** and issued by a reputable recognized bank accepted by CLIENT.
- 7.2 The amount of Bid Bond shall be 1,132,000,000 VND (In words: ..... Vietnamese Dong) or 43,438 USD (In word: .....US dollar) and shall be valid for 240 calendar days from the Bid Closing Date. The Original Bid Bond shall be attached in the Bid Proposal (*the amount of Bid Bond as required in website "muasamcong.mpi.gov.vn"*).

- 7.3 In case of Consortium, the Bid Bond will be provided by one of the following two methods:
- a) Each Consortium Partner shall provide separately Bid Bond, provided always that the total value of Bid Bond shall not be lower than the amount required in Item 7.2 above; if Bid Bond of any Consortium Partner is invalid the Bid Proposal of such Consortium shall be rejected according to the prerequisite criteria.
  - b) The Consortium Partners agree to appoint a Consortium Partner to provide Bid Bond for the whole Consortium. In this case, the Bid Bond may include the name of Consortium or name of the Consortium Partner providing the Bid Bond for the whole Consortium provided always that the total value of Bid Bond shall not lower than the amount required in Item 7.2 above.
- 7.4 Bid Bond shall be considered as not acceptable if its value is lower than the required value, is not in the required currency, with shorter validity period, not submitted to the address by the time required by the ITB, states an incorrect BIDDER'S Name, is not original or without valid signature.
- 7.5 Bid Bond will be returned to the unsuccessful BIDDER within thirty (30) days from the date of announcement of the Bid results. For the successful BIDDER, the Bid Bond will be returned when the successful BIDDER provides the Bank Guarantee.
- 7.6 Bid Bond shall be forfeited and shall be disposed if the BIDDER:
- a) withdraws its Bid Proposal during the Validity Period of the Bid or any extension of validity the BIDDER has agreed to;
  - b) do not commence the CONTRACT negotiation, finalization or decline to do so within thirty (30) days after receipt of CONTRACT award notice, or have completed the CONTRACT negotiation, finalization but refuses to sign the CONTRACT without valid reasons;
  - c) in case of the successful BIDDER, fails to furnish the performance bond before signing the CONTRACT or before the CONTRACT comes into force.

## **8.0 BANK GUARANTEE/ PERFORMANCE GUARANTEE**

- 8.1 BIDDER's attention is drawn to Article headed as Bank Guarantee/ Performance Guarantee of the CONTRACT FORM whereby the successful BIDDER is requested to provide an irrevocable first call Bank Guarantee issued by a commercial bank acceptable by CLIENT to guarantee performance of BIDDER's obligation under the CONTRACT. The format of Bank Guarantee shall be set out in the EXHIBIT VII of CONTRACT document.
- 8.2 BIDDER to furnish CLIENT with a Performance Guarantee issued by the principal, associate or parent company. Such Performance Guarantee shall be in the format

attached hereto as EXHIBIT VIII, CLIENT shall notify the successful BIDDER of its requirement, if any, in this regard prior to award of CONTRACT.

**9.0 PROPOSAL FORMAT**

9.1 BIDDER is to strictly adhere to the proposal format as set out below. **BIDDER must ensure that the "TECHICAL AND UNPRICED PACKAGE (TECHNICAL)" does not contain any pricing or cost. Failure to comply with these instructions may render BIDDER's proposal invalid.**

9.2 BIDDER is to submit the proposal in two (2) separate sealed packages, as follows:

- a) Technical and Unpriced Package (Technical)
- b) Priced Package (Commercial)

9.3 CONTENTS OF TECHNICAL AND UNPRICED PACKAGE (TECHNICAL)  
Unpriced package shall include but not limited to the following:

SECTION	CONTENT
Section 1	<p><b>PROPOSAL LETTER</b></p> <p>The Proposal Letter shall be prepared and fully filled by BIDDER as set out in BIDDING FORMS and must be signed by the authorized representative of BIDDER (the representative at law of the BIDDER or the authorized person with legal Power of Attorney). In case of authorization, BIDDER shall enclose the following instruments and documents to prove the legitimacy of the authorized person:</p> <ul style="list-style-type: none"> <li>a. In case of independent BIDDER: <ul style="list-style-type: none"> <li>Power of Attorney signed by the Representative at law of BIDDER authorizing the authorized person to sign the Proposal Letter;</li> </ul> </li> <li>b. In case of Consortium: <ul style="list-style-type: none"> <li>Proposal Letter shall be signed by the Representative at law of each Consortium Partner, unless the Consortium Agreement stated that the Consortium Partners have authorized the representative at law of Leading Partner of the Consortium to sign Proposal Letter. If each Consortium Partner has authorized such Representative, the same requirements as independent BIDDER shall be applied.</li> </ul> </li> </ul>
Section 2	<p><b>BIDDER'S ELIGIBILITY, EXPERIENCES &amp; CAPACITY AND BID BOND</b></p> <p>BIDDER shall provide the following documents proving BIDDER's eligibility, experiences, and capacity:</p> <ul style="list-style-type: none"> <li>1. The Documents as required in Item 1.3;</li> <li>2. BIDDER is requested to submit a completed BIDDER's QUESTIONNAIRE, including but not limitation to the</li> </ul>

SECTION	CONTENT
	<p>following documents:</p> <ul style="list-style-type: none"> <li>(i) BIDDER's Organization</li> <li>(ii) BIDDER's Experience;</li> <li>(ii) Company Profile; and</li> <li>(iii) Last three (03) Year Financial Statement.</li> </ul> <p>3. Original Bid Bond</p>
Section 3	<p><b>TECHNICAL PROPOSAL</b></p> <p>BIDDER shall provide the following documents to prove the suitability (compliance) of WORKS:</p> <ul style="list-style-type: none"> <li>1. BIDDER is to provide (i) the detailed description of the working procedures, BIDDER's capability of the WORKS proposed and (ii) the relevant guidelines, drawings, certificates, records to provide the Scope of Works as specified in EXHIBIT I – SPECIAL PROVISIONS AND SCOPE OF WORKS;</li> <li>2. BIDDER is to fill the information for the following Exhibits in the Contract form</li> <li>3. Curriculum Vitae (CV) of Proposed Manpower as set out in BIDDING FORMS;</li> </ul>
Section 4	<p><b>HSE &amp; QUALITY REQUIREMENTS</b></p> <p>BIDDER is also required to submit the following documents where applicable:</p> <ul style="list-style-type: none"> <li>a. HSE Management System</li> <li>b. Evidences of BIDDER's compliance to all CLIENT's HSE requirements of EXHIBIT VI</li> <li>c. HSE Plan for year 2025</li> <li>d. HSE KPI records for the last three (03) years;</li> </ul>
Section 5	<p><b>BIDDER'S UNPRICED EXCEPTIONS AND ALTERNATIVES</b></p> <ul style="list-style-type: none"> <li>a. If BIDDER has no exception and alternative proposal, BIDDER shall have the following statements prominently displayed in capital letters under this section: "THIS PROPOSAL COMPLIES WITH ALL TERMS AND CONDITIONS OF THIS CONTRACT, EXHIBITS AND REQUIREMENTS IN THIS ITB" or</li> <li>b. If BIDDER has alternative proposal on this bid documents, BIDDER shall display the following statement in capital letters under this section: "THIS PROPOSAL INCLUDES EXCEPTIONS AND ALTERNATIVES WHICH ARE LISTED ON THE FOLLOWING PAGES."</li> <li>c. BIDDER shall present a complete and detailed listing of non-compliance to the ITB in total indicating the delivery impact only, if any, but without indicating the cost impact. The format of presentation shall be as per the attached BIDDER's</li> </ul>

SECTION	CONTENT
	EXCEPTION TO TERMS AND CONDITIONS and BIDDER's EXCEPTION TO EXHIBITS as set out in BIDDING FORMS.
Section 6	<b>UNPRICED PROPOSAL FORM</b>

#### 9.4 CONTENTS OF PRICED PACKAGE (COMMERCIAL)

Every page of BIDDER's price proposal must bear BIDDER's company seal. Priced package shall include the following:

SECTION	CONTENT
Section 1	<b>PROPOSAL LETTER</b> To be attached a similar letter as in Section 1.
Section 2	BIDDER is requested to submit the following with prices & schedule attached <b>PRICE COMMERCIAL FORM</b> as per EXHIBIT IV – CONTRACT PRICE AND PRICE LIST
Section 3	<b>BIDDER's PRICED EXCEPTIONS AND ALTERNATIVES.</b> a. If BIDDER has no exception and alternative proposal, BIDDER shall have the following statements prominently displayed in capital letters under this section: "THIS PROPOSAL COMPLIES WITH ALL TERMS AND CONDITIONS OF THIS CONTRACT, EXHIBITS AND REQUIREMENTS IN THIS ITB" or b. If BIDDER has alternative proposal on this bid documents, BIDDER shall display the following statement in capital letters under this section: "THIS PROPOSAL INCLUDES EXCEPTIONS AND ALTERNATIVES WHICH ARE LISTED ON THE FOLLOWING PAGES." BIDDER shall present a complete and detailed listing of non-compliance to the ITB in total indicating the delivery impact and cost impact, if any. The format of presentation shall be as per the attached BIDDER's EXCEPTION TO TERMS AND CONDITIONS and BIDDER's EXCEPTION TO EXHIBITS as set out in BIDDING FORMS.

### **10.0 SUBMISSION OF PROPOSAL**

10.1 Each Technical and Unpriced Package (Technical) and Priced Package (Commercial) shall consist of:

- a) **One (1) original set** of each package wrapped separately from the other copies and clearly marked with the word "**ORIGINAL UNPRICED**" or "**ORIGINAL PRICED**" on the cover of the respective wrapping.
- b) **One (1) copy** each of the Technical and Unpriced Package (Technical) and Priced Package (Commercial). The copies shall be wrapped separately (01

Unpriced and 01 Priced) and marked with the word "**COPY UNPRICED PACKAGE**" or "**COPY PRICED PACKAGE**" on the covers of the packages.

- c) 01 native copy containing Technical and Unpriced Package (Technical) and 01 native copy containing Priced Package (Commercial) with label having BIDDER name, Tender title and number. The native copy shall be wrapped and sealed separately and marked with the word "**UNPRICED PACKAGE**" or "**PRICED PACKAGE**" on the covers of the packages. The Hard Copy and soft copy Proposal documents shall be in native file format (Microsoft Word® and Microsoft Excel®, PDF) and storage in USB 2.0.

In the event of discrepancy between the original set and the copies, the original set shall prevail.

- 10.2 BIDDER shall ensure that all proposals or submissions to CLIENT, pertaining to the enquiry are properly sealed and that the cover of each package is clearly marked in **bold letters** with the following wordings:

- (a) ITB number and the title.
- (b) BIDDER's name and return address.
- (c) "TECHNICAL AND UNPRICED PACKAGE" or "PRICED PACKAGE".
- (d) "PRIVATE AND CONFIDENTIAL"

- 10.3 **All communications and correspondence with regard to ITB and clarification shall be made to the following address:**

**DOMESTIC PETROLEUM OPERATING BRANCH - PETROVIETNAM  
EXPLORATION PRODUCTION CORPORATION LIMITED**

15<sup>th</sup> Floor, Victory Tower

12 Tan Trao Street, Tan My Ward

Ho Chi Minh City, S.R Vietnam

Tel: (84-28) 3776 2222

Fax : (84-28) 3872 1079/3872 1088

Attention : **Manager, Planning & Procurement Management Department**

All communications with regard to bid clarifications shall be made in writing and must indicate the ITB number and title and send to the address given above. Such bid clarifications shall reach the address given above at least ten (10) days prior to the Bid Closing Date. CLIENT shall preserve the right not to response to bid clarifications received later than the above mentioned time.

**Submission of Bid Proposal shall be made to the following address:**

**DOMESTIC PETROLEUM OPERATING BRANCH - PETROVIETNAM  
EXPLORATION PRODUCTION CORPORATION LIMITED**

15<sup>th</sup> Floor, Victory Tower

12 Tan Trao Street, Tan My Ward

Ho Chi Minh City, S.R Vietnam

Tel: (84-28) 3776 2222

Fax : (84-28) 3872 1079/3872 1088

Attention : **Manager, Planning & Procurement Management Department**

- 10.4 BIDDER is strongly advised to deliver the proposals by hand in order to assure timely receipt by CLIENT. If BIDDER elects to mail the proposal, BIDDER is advised to use a fast and reliable delivery service e.g. courier. BIDDER should advise CLIENT by fax the date on which the proposal was mailed and details of the delivery service.
- 10.5 Responsibility for timely delivery of the proposals to the correct address rests fully with BIDDER. CLIENT does not accept late bids submission. Delivery to the wrong address shall not be an excuse for late delivery.
- 10.6 BIDDER must ensure that the proposal is delivered to the address given in Item 10.3 above no later than **the Bid Closing Date specified on the website “muasamcong.mpi.gov.vn” for this ITB, LATE BIDS WILL NOT BE ENTERTAINED.**
- 10.7 BIDDER’s proposal shall be submitted in a **separate sealed envelope or package** bearing the name of your company, clearly addressed and marked on the outside as follows:

**"STRICTLY CONFIDENTIAL"**

**PROVISION OF DIRECTIONAL DRILLING, MWD & LWD SERVICES FOR  
DRILLING & COMPLETION PROGRAM FOR DAI HUNG NAM FIELD  
DEVELOPMENT, BLOCK 05-1(a), OFFSHORE VIETNAM  
TENDER NO.: PVEP POC-DRL-2025-024**

- 10.8 Bid Proposal as well as all correspondences and documents relating to the ITB exchanged by BIDDER and CLIENT shall be written in English. Supporting documents and printed literature furnished by BIDDER may be in another language provided they are accompanied by an accurate translation of the relevant passages in English, in which case, for purposes of interpretation of the Bid Proposal, the translation shall govern.

**11.0 ACCEPTANCE**

- 11.1 CLIENT may, at CLIENT option, reject all proposals received or may accept any proposal which, in CLIENT's sole judgment, is the most advantageous to CLIENT. CLIENT reserves the right to accept or reject all or part of the proposal at CLIENT's discretion and will be under no obligation to explain the reasons thereof.
- 11.2 CLIENT reserves the right to award the CONTRACT at its own discretion. Award strategy: Single award.
- 11.3 CLIENT shall not be deemed to have accepted all or any part of a proposal unless and until a written acceptance is issued.
- 11.4 Any award as a result of this ITB will be through a properly executed contract issued by CLIENT. Prior to this, CLIENT may send the BIDDER a Letter of Award in order to initiate immediate placement of order. Upon receipt of the Letter of Award, BIDDER shall proceed immediately with the work mentioned in the Letter of Award.
- 11.5 Contract award/ Contract execution (if any) shall be subject to Authorities’ approval for annual Work program and budget.

**12.0 PAYMENT**

- 12.1 Payments shall be made in accordance to **Article headed as “INVOICING AND PAYMENT”** of CONTRACT FORM attached hereto.
- 12.2 Any proposal on progress payments shall be based on "value received" or verifiable milestones and not merely the passage of time and not for merely placing the CONTRACT.

**END OF SECTION**

## 2. BIDDER'S QUESTIONNAIRE



(This form **MUST** be completely filled by BIDDER. Write 'NIL' or 'NOT APPLICABLE' where appropriate)

**PRIVATE & CONFIDENTIAL**

1. Full Name of BIDDER: \_\_\_\_\_  
 Registered Address: \_\_\_\_\_  
 Business Address: \_\_\_\_\_  
 Correspondence Address: \_\_\_\_\_  
 Telephone: \_\_\_\_\_  
 Fax: \_\_\_\_\_

2. BIDDER's Organization:  
 BIDDER is requested to provide a brief description of the background and organization of BIDDER.

3. List of similar Projects and Contract performed in the last three years:

Name of Project:..... .....	Approx. Value of Contract (in current US\$/VND):.....
Country:.....	Duration of Project (months):.....
Location within country:.....	
Name of Client:.....	Total N <sup>o</sup> of staff-months provided to the Project:.....
Address:.....	Start Date (month/year):.....
	Completion Date (month/year):.....
Narrative description of Project:..... ..... .....	Description of actual services provided by BIDDER's staff within Project:..... .....
Name of senior professional staff of BIDDER involved and functions performed (indicate most significant profiles such as Project Director/Coordinator, Team Leader):..... ..... .....	

Note: BIDDER shall attach a copy of documents, materials related to above contracts (certified by the Project Owner for the contract being implemented according to the related information in above table).

4. Summary of Financial Data for the fiscal years

Unit: (VND/ USD)

No.	Descriptions	YYYY-2	YYYY-1	YYYY
1	Total assets			
2	Total liabilities			
3	Current assets			
4	Current liabilities			
5	Turnover			
6	Profit Before Tax			
7	Profit after Tax			
8	Other items (if required)			

For the purpose of verification of the data declared, BIDDER is required to submit the notarized/certified true copy of the following documents:

1. Audited Financial Statements or Financial Statements certified by competent authorities as required by the law for the Year YYYY-2, YYYY-1, YYYY;
2. Annual Tax Statements as required by the law on taxation (Tax authorities to certify that the Bidder has submitted its tax statements) for the Year YYYY-2, YYYY-1, YYYY;
3. Report on Checking of Bidder's Tax Statements (if any) for the Year YYYY-2, YYYY-1, YYYY.

Note: Last year: YYYY.

Information provided by:

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Designation: \_\_\_\_\_

Date: \_\_\_\_\_

Company: \_\_\_\_\_

### 3. BIDDING FORMS

**TENDER ACKNOWLEDGMENT LETTER**

*Letterhead of Bidder*

Date:

To: **DOMESTIC PETROLEUM OPERATING BRANCH - PETROVIETNAM  
EXPLORATION PRODUCTION CORPORATION LIMITED**

Attn: Director

Subject: **TENDER FOR PROVISION .....**  
**TENDER No. PVEPPOC-DRL-2025-024**

Dear Sir,

- We acknowledge receipt of the subject Invitation to Bid ("ITB").
- We have received all documents without damage and in usable condition.
- We have read the Instructions to Bidders and will submit a bid in accordance with the Tender requirements.
- We confirm our adherence to the highest standards of business ethics and, in particular, we have established precautions to prevent any of our officers, employees, or agents from making, receiving, providing or offering substantial gifts, entertainment, payment, loans or other considerations which may influence individuals.

**OR**

- We do not wish to bid and therefore we are returning this Tender in its entirety with this Tender Acknowledgement Letter.

All future communications in respect of this ITB should be addressed as follows:

Bidder's

Name: \_\_\_\_\_ Telephone: \_\_\_\_\_  
Attention: \_\_\_\_\_ Fax: \_\_\_\_\_  
Address: \_\_\_\_\_ Email: \_\_\_\_\_  
Signed: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Printed \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

**PROPOSAL LETTER FORM**

*Letterhead of BIDDER*

Date:

To                   **DOMESTIC PETROLEUM OPERATING BRANCH - PETROVIETNAM  
EXPLORATION PRODUCTION CORPORATION LIMITED**

Attn:               Director

**Subject:           TENDER FOR PROVISION .....**  
**TENDER No. PVEPPOC-DRL-2025-024**

Dear Sir

We, the undersigned, certify that we have read and understood the subject Invitation to Bid and all documents forming the Bid Document.

We acknowledge that we have thoroughly investigated, or have had the opportunity to do so, and satisfied ourselves as to all conditions affecting the WORKS and all necessary information as to risk contingencies and all circumstances influencing and affecting this Bid Document.

We offer to provide the WORKS as detailed in the Bid Package for the prices stated in our Proposal attached hereto. This offer is valid until 210 days from the date fixed for submitting same and shall be binding upon us and may be accepted at any time before the aforesaid date.

If our proposal is accepted, we undertake that, unless and until a formal CONTRACT is prepared and executed, this Bid Proposal, together with your written acceptance shall constitute a binding contract between us.

Yours faithfully

Correspondence from CLIENT should be  
addressed to:

Signature :  
Printed Name :  
Position :  
Company:  
Date :

Address :  
Attn :  
Telephone :  
Telex :  
Fax:

**POWER OF ATTORNEY FORM**

*Letterhead of BIDDER*

Date:

To                   **DOMESTIC PETROLEUM OPERATING BRANCH - PETROVIETNAM  
EXPLORATION PRODUCTION CORPORATION LIMITED**

Attn:               **DIRECTOR**

**Subject:       TENDER FOR PROVISION .....**  
**TENDER No. PVEPPOC-DRL-2025-024**

I, the undersigned - the Legal Representative of .... [Name of BIDDER], hereby authorize and empower [name of Authorized Person and Position] to be my true and lawful attorney to

1.       Signing Proposal Letter;
2.       Signing transaction documents, correspondence with CLIENT during the Bidding Process, including, but not limit to, ITB Clarification Request, Bid Clarification;
3.       Participating in Contract Negotiation and Finalization;
4.       Signing petitions if the BIDDER has any petitions;
5.       Signing contract with CLIENT if we are selected

for **Provision of .....** under the TENDER No. **PVEPPOC-DRL-2025-024**

This Power of Attorney is effective as from \_\_\_\_\_ to \_\_\_\_\_.

Yours faithfully,

**For and behalf of [name of BIDDER].**

\_\_\_\_\_  
**Name of Legal Representative of BIDDER**

**Position:**



# CONSORTIUM AGREEMENT FORM

\_\_\_\_\_, Date: \_\_\_\_\_

TENDER: .....

TENDER No. PVEPPOC-DRL-2025-024

We, representatives of the Parties of the Consortium Agreement, including:

Name of the Consortium Partner (Name of Each Consortium Partners) \_\_\_\_\_

Represented by: \_\_\_\_\_

Title: \_\_\_\_\_

Address: \_\_\_\_\_

Power of Attorney No. \_\_\_\_\_ dated \_\_\_\_\_ (in case of authorization).

The Parties (hereinafter referred to as Partners) agreed to enter into this Consortium Agreement with the following terms and conditions:

## Article 1: General Provisions

1. The Partners are willing to form a Consortium to participate in the Tender No. PVEPPOC-DRL-2025-024 for Provision of ..... (hereinafter referred to as "TENDER") to DOMESTIC PETROLEUM OPERATING BRANCH - PETROVIETNAM EXPLORATION PRODUCTION CORPORATION LIMITED (hereinafter referred to as "CLIENT").
2. The Partners agree that the name of the Consortium for all correspondences related to TENDER is: \_\_\_\_\_ [specify name of the Consortium as agreed].
3. The Partners confirm that neither of them will unilaterally participate in the bidding of this ITB as an independent Bidder of partner of other consortium. If the consortium is awarded the Contract, neither partner will refuse to execute its obligations and duties as agreed in the Contract unless otherwise agreed in writing by the Consortium Partner. If the Consortium Partner refuses to fulfill its own obligations as agreed then such Partner is to:
  - Compensate for all damages to other Consortium Partners;
  - Compensate for all damages to CLIENT as stipulated in the Contract;
  - Other penalty [specify other penalty].

## Article 2. Responsibilities of the Partners

The Partners agree that the responsibilities of each Partner for execution of the Tender shall be as follows:

1. Leading Partner of the Consortium:



The Partners agreed to appoint \_\_\_\_\_ *[specify the name of Leading Partner of the Consortium]* to be the Leading Partner of the Consortium to act on behalf of the Consortium in the following works:

- 1.1. Signing Proposal Letter;
- 1.2. Signing transaction documents, correspondence with CLIENT during the Bidding Process, including, but not limit to, Tender Clarification Request, Bid Clarification;
- 1.3. Participating in Contract Negotiation and Finalization;
- 1.4. Signing petitions if the Bidder has any petitions;
- 1.5. Signing Contract with CLIENT if we are selected
2. The Consortium Partners:

*[Specify the scope of work, responsibilities of each Partner, including the Leading Partner of the Consortium and, if possible, to specify the percentage of appropriate value].*

### **Article 3: Validity of the Consortium Agreement**

1. This Consortium Agreement is valid from the date of signing.
2. This Consortium Agreement will expire in any of the following cases:
  - The Partners completed their obligations, duties and agreed to liquidate the Contract;
  - The Partners agreed to terminate this Agreement;
  - Cancellation of Bidding Process of the Tender according to the notification of CLIENT.

This Consortium Agreement is made in \_\_\_\_ originals, each Partner will keep \_\_\_\_ original(s), all originals are equally valid.

### **LEGAL REPRESENTATIVE OF THE LEADING CONSORTIUM PARTNER**

*[Specify full name, title, sign and seal]*

### **LEGAL REPRESENTATIVES OF THE CONSORTIUM PARTNERS**

*[Specify full name, title, sign and seal of each Consortium Partner]*

**BID BOND FORM**

*Letterhead OF BANK*

BID BOND TO ITB No. PVEPPOC-DRL-2025-024

Date: \_\_\_\_\_

To: **DOMESTIC PETROLEUM OPERATING BRANCH - PETROVIETNAM EXPLORATION PRODUCTION CORPORATION LIMITED** (hereinafter referred to as the "CLIENT")

Basing on the fact that \_\_\_\_\_ [*name and registered head office address of the BIDDER*], (hereinafter referred to as "BIDDER"), will participate to the Bidding for your ITB No. for the Provision of .....

We \_\_\_\_\_ [*name of the BANK*], having registered office located at \_\_\_\_\_ [*address of registered office of the BANK*] (hereinafter referred to as "BANK"), pledge to BIDDER to secure for the Bidder to participate in bidding for said ITB with an amount of ..... USD (*In words: .....*) or ..... VND (*In words: .....*).

We shall immediately transfer to CLIENT the amount of money mentioned above when CLIENT notifies in writing that Bidder breaks the requirements specified in the ITB documents<sup>(1)</sup>.

This Bid Bond is valid for 240 days from the bid closing date. Any claim of CLIENTY related to this Bid Bond shall be received by [*name of the BANK*] before expiry of above mentioned validity period.

**Legal Representative of the BANK**

[*Specify name, title, sign and seal*]

Notes:

<sup>(1)</sup> *If the Bidder is a Consortium and the Consortium Partners provide separate Bid Bond or one Consortium Partner provides Bid Bond for the entire Consortium, then this requirement will be amended as follows: "We shall immediately transfer to CLIENT the amount of money mentioned above when CLIENT notifies in writing that BIDDER or any Partner in BIDDER's Consortium breaks the requirements specified in the ITB documents".*

## CURRICULUM VITAE (CV) FOR PROPOSED MANPOWER

1. **Proposed Position** [*only one candidate shall be nominated for each position, one candidate may be nominated for some tasks assigned*]: \_\_\_\_\_
  2. **Name of Firm** [*Insert name of firm proposing the staff*]: \_\_\_\_\_
  3. **Name of Staff** [*Insert full name*]: \_\_\_\_\_
  4. **Date of Birth:** \_\_\_\_\_ **Nationality:** \_\_\_\_\_
  5. **Education** [*Indicate college/university and other specialized education of staff member, giving names of institutions, degrees obtained, and dates of obtainment*]: \_\_\_\_\_
  6. **Membership of Professional Associations:** \_\_\_\_\_
  7. **Other Training** [*Indicate significant training since degrees under 5 - Education were obtained*]: \_\_\_\_\_
  8. **Countries of Work Experience:** [*List countries where staff has worked in the last ten years*]: \_\_\_\_\_
  9. **Languages** [*For each language indicate proficiency: good, fair, or poor in speaking, reading, and writing*]: \_\_\_\_\_
10. **Employment Record** [*Starting with present position, list in reverse order every employment held by staff member since graduation, giving for each employment (see format here below): dates of employment, name of employing organization, positions held.*]:
- From [Year]: \_\_\_\_ To [Year]: \_\_\_\_\_
- Employer: \_\_\_\_\_
- Positions held: \_\_\_\_\_

<p><b>11. Detailed Tasks Assigned</b></p> <p style="text-align: center;"><i>[List all tasks to be performed under this assignment]</i></p>	<p><b>12. Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned</b></p> <p><i>[Among the assignments in which the staff has been involved, indicate the following information for those assignments that best illustrate staff capability to handle the tasks listed under point 11. <b>IT IS IMPORTANT</b> that the staff should list <b>ALL</b> such relevant assignments.]</i></p> <p>Name of assignment or project: _____</p> <p>Year: _____</p> <p>Location: _____</p> <p>Client: _____</p> <p>Main project features: _____</p> <p>Positions held: _____</p> <p>Activities performed: _____</p>
--------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**13. Certification:**

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I understand that any wilful misstatement described herein may lead to my disqualification or dismissal, if engaged.

Date: \_\_\_\_\_

*[Signature of staff member or authorized representative of the staff]*

*Day/Month/Year*

Full name of authorized representative: \_\_\_\_\_

## UNPRICED PROPOSAL FORM

### SCOPE OF WORKS/ SUPPLY

No	Descriptions	UOM	QUANTITY	BIDDER PROPOSAL
1	As per Exhibit II	...	...	Bidder to note "Quoted" or "No Quote"
2	...	...	...	...
3				
4				
5				

**Note:**

- *The proposed CONTRACT PRICE shall indicate whether it is inclusive of Vietnamese taxes (VAT, CIT, etc.) or not. In the event that the quoted prices do not specify this, they shall be treated as inclusive of all taxes.*
- *Failure to submit this form in accordance with the ITB's requirements may result in the Bidder's proposal being disqualified.*

**BIDDER'S EXCEPTIONS TO TERMS AND CONDITIONS**

<b>ARTICLE NO.</b>	<b>EXACT NEW WORDING PROPOSED BY BIDDER</b>	<b>REASON (S) FOR EXCEPTION</b>	<b>ADDITION (+) OR REDUCTION (-) IN BID PRICE IF EXCEPTION IS ACCEPTED BY CLIENT</b>	<b>EFFECT ON DELIVERY DATE</b>

**BIDDER'S EXCEPTIONS TO EXHIBITS**

<b>EXHIBIT NO.</b>	<b>EXACT NEW WORDING PROPOSED BY BIDDER</b>	<b>REASON (S) FOR EXCEPTION</b>	<b>ADDITION (+) OR REDUCTION (-) IN BID PRICE IF EXCEPTION IS ACCEPTED BY CLIENT</b>	<b>EFFECT ON DELIVERY DATE</b>

## **04. PRELIMINARY AND TECHNICAL EVALUATION CRITERIA**

## DETAILED PRELIMINARY AND TECHNICAL EVALUATION CRITERIA

### 1. PRELIMINARY CRITERIA

The Preliminary Criteria is defined as "MUST" Criteria. Therefore, Non-compliance / deviations / exceptions to any of these criteria will cause the Bid disqualified without clarification. Bidders will be requested to comply with the requirements.

The Bids shall be evaluated with the following Essential Criteria

No.	Criteria	BIDDERS		
		A	B	C
1	Place and time of Bid submission			
2	Original Proposal Letter			
3	Eligibility of Bidder			
4	Eligibility of Consortium agreements (if any) (pursuant to Article 1.3.b, Section 1 - Instructions to Bidder)			
5	Original Bid Proposal			
6	Validity of Bid Proposal			
7	Original Bid Bond			
8	Financial Capacity (detail in Table 1-A)			
	<b>Final Essential Assessment</b>			

**Table 1-A: Financial Capacity**

Financial Year End Currency	Requirement (%) in at least one of the last three years	YYYY-2 (%)	YYYY-1 (%)	YYYY (%)
1. Current Ratio	> 100			
2. Net profit margin (%)	> 0			
3. Revenue	> 0			

**Note:** These above requirements are evaluated according to "Qualified" or "Disqualified" result.

- "Qualified": meet all requirements;
- "Disqualified": not meet any of these above requirements;
- Last year: YYYY.

### 2. TECHNICAL EVALUATION CRITERIA

**Technical Evaluation Criteria is attached herewith**

**TECHNICAL EVALUATION CRITERIA FOR DD/MWD/LWD SERVICES  
FOR DHN DEVELOPMENT WELLS, BLOCK 05.1a, OFFSHORE VIETNAM**

ITEM	DESCRIPTIONS	CLIENT'S MINIMUM REQUIREMENTS	EVALUATION CATEGORY	CRITERIA		
					YELLOW	
<b>I BIDDER'S CAPABILITY AND EXPERIENCES</b>						
1.1	Bidder Capacity	- Bidder to provide facility & information showing capability of Bidder	MINOR	Comply	Comply with minor concern	Not Comply
1.2	Bidder experience	- Bidder must provide evidence of the contract titles and reference numbers in the last ten year for CLIENT's verification	MINOR	Comply	Comply with minor concern	Not Comply
1.3	Bidder's proposal	Bidder will proposed the BHA plan, well trajectories for each wells and procedures for DD/MWD/LWD operations	MINOR	Comply	Comply with minor concern	Not Comply
<b>II TECHNICAL CRITERIA</b>						
2.1	DD/MWD/LWD Equipment & Services	Bidder to provide services to meet company requirement as specified in APPENDIX II-1 ( Equipment specifications)	MAJOR	Comply	Comply with minor concern	Not Comply
2.2	Workshop facility in HCMC (Former Vung Tau) Vietnam	Full Redress/Maintenance services in Vung Tau, Vietnam	MAJOR	Comply		Not Comply
2.3	Equipment and personnel quantity provided	Bidder shall provide adequate quantity of equipment and personnel as stated in Appendix IV-1 (Price Schedule for equipment and Personnel)	MAJOR	Comply		Not Comply
2.4	<b>Personnel</b>					
2.4.1	Project Coordinator	Capable to coordinate the provision of all kind of Directional drilling, survey, MWD, LWD required tools and accessories for CLIENT, consults when request, minimum 5 year experience in DD, MWD, LWD and survey services. Min 3 year experience in project coordinator position	MAJOR	Comply		Not Comply
2.4.2	Warehouse/Work shop Engineer	Permanent in Bidder's base and work shop, skill on repairing, replacing, maintenance all kind of Directional drilling, survey, MWD, LWD required tools and accessories. minimum 5 year experience in DD, MWD, LWD and survey services	MAJOR	Comply		Not Comply
2.4.3	Directional Driller	At least 5 years experience in Directional drilling operations	MAJOR	Comply		Not Comply
2.4.4	Assistant Directional Driller	At least 3 years experience in Directional drilling operations	MAJOR	Comply		Not Comply
2.4.5	MWD/LWD Engineer	At least 5 years experience, familiar with running of Density, porosity, sonic, resistivity... tools	MAJOR	Comply		Not Comply

*mu*

ITEM	DESCRIPTIONS	CLIENT'S MINIMUM REQUIREMENTS	EVALUATION CATEGORY	CRITERIA		
					YELLOW	
2.4.6	Gyro/Bore hole survey Specialist	At least 5 years experience in his operations	MAJOR	Comply		Not Comply
2.4.7	Sampling or Pressure Specialist	At least 5 years experience in his operations	MAJOR	Comply		Not Comply
2.5	Delivery time	Ready to mobilize to offshore no later than 1 st October 2026	MAJOR	Comply		Not Comply
<b>III 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>



**CONTRACT**

**Between**

**DOMESTIC PETROLEUM OPERATING BRANCH - PETROVIETNAM  
EXPLORATION PRODUCTION CORPORATION LIMITED**

**And**

.....

**For**

**PROVISION OF DIRECTIONAL DRILLING, MWD & LWD SERVICES  
FOR DRILLING & COMPLETION PROGRAM FOR DAI HUNG NAM  
FIELD DEVELOPMENT, BLOCK 05-1(a), OFFSHORE VIETNAM**

**CONTRACT No. : PVEP POC-DRL-2025-024**

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EXHIBITS

EXHIBIT I	SPECIAL PROVISIONS AND SCOPE OF WORKS
EXHIBIT II	EQUIPMENT SPECIFICATIONS
EXHIBIT III	SUMMARY OF RESPONSIBILITIES
EXHIBIT IV	CONTRACT PRICE AND PRICE LIST
EXHIBIT V	CONTRACTOR’S PERSONNEL
EXHIBIT VI	HEALTH, SATETY AND ENVIRONMENT REQUIREMENT
EXHIBIT VII	BANK GUARANTEE FORMAT
EXHIBIT VIII	PERFORMANCE GUARANTEE FORMAT
EXHIBIT IX	CHANGE ORDER PROPOSAL
EXHIBIT X	INVOICING PROCEDURES AND ADMINISTRATION GUIDELINES

**PREAMBLE**

This Contract (hereinafter referred to as "CONTRACT") is made and entered into this ..... day of ..... 2025 effective as of the ..... day of ..... 2025 ("Effective Date") between:

**DOMESTIC PETROLEUM OPERATING BRANCH - PETROVIETNAM EXPLORATION PRODUCTION CORPORATION LIMITED**, a company organized and existing under the Laws of S.R Vietnam and having its registered address at 15<sup>th</sup> Floor, Victory Tower, 12 Tan Trao Street, Tan My Ward, Ho Chi Minh City, S.R. Vietnam, (hereinafter referred to as "CLIENT") of the first part;

And

\_\_\_\_\_ , a company incorporated under the laws of \_\_\_\_\_ having its registered office at \_\_\_\_\_ and place of business at \_\_\_\_\_ (hereinafter referred to as "CONTRACTOR") of the second part. (Hereinafter the parties of the first and second parts shall be referred to singularly as "Party" and collectively as "Parties").

**WHEREAS :** CLIENT, pursuant to various Production Sharing Contracts entered into with PETROVIETNAM (Vietnam National Industry - Energy Group) is appointed as Authorized Operator's Attorney for the exploration, development and production of hydrocarbons for oil and gas fields offshore Vietnam.

**WHEREAS :** CLIENT in connection with its activities as aforesaid, desires to carry out drilling and associated operations in the Area of Operations and to enter into this CONTRACT with CONTRACTOR for the purpose of carrying out said operations; and

**WHEREAS :** CLIENT requires the **Provision of Directional Drilling, MWD & LWD Services for Drilling & Completion Program for Dai Hung Nam Field Development, Block 05-1(a), Offshore Vietnam** (hereinafter referred to as the "WORKS") as described in the **EXHIBITS** (attached hereto and made a part hereof) and in accordance with the terms of this CONTRACT;

**WHEREAS :** CONTRACTOR is engaged in such specialized operations and represents that it has adequate resources and equipment in good working order and fully trained personnel capable of operating such equipment in a safe and efficient manner and that it is willing to carry out the said activities and services for CLIENT and to furnish the equipment, spare parts, materials, expandable and other supplies with the personnel and insurance detailed in the relevant **EXHIBITS** attached hereto.

NOW, THEREFORE, for and in consideration of the mutual covenants and agreements set forth herein, the Parties hereto agree as follows:

## ARTICLE 1 – INTERPRETATION OF CONTRACT

1.1 The following documents together constitute this CONTRACT:

CONTRACT FORM	ARTICLES 1 TO 44 INCLUSIVE
EXHIBIT I	SPECIAL PROVISION AND SCOPE OF WORKS
EXHIBIT II	EQUIPMENT SPECIFICATIONS
EXHIBIT III	SUMMARY OF RESPONSIBILITIES
EXHIBIT IV	CONTRACT PRICE AND PRICE LIST
EXHIBIT V	CONTRACTOR'S PERSONNEL
EXHIBIT VI	HEALTH, SAFETY AND ENVIRONMENT REQUIREMENT
EXHIBIT VII	BANK GUARANTEE FORMAT
EXHIBIT VIII	PERFORMANCE GUARANTEE FORMAT
EXHIBIT IX	CHANGE ORDER PROPOSAL
EXHIBIT X	INVOICING PROCEDURES AND ADMINISTRATION GUIDELINES

In the event of any ambiguity, inconsistency or conflict between the provisions of the **CONTRACT FORM** and **EXHIBITS** listed above, the **CONTRACT FORM** shall take precedence and prevail over the **EXHIBITS**.

In the event of any ambiguity, inconsistency or conflict between the provisions of the **EXHIBITS**, CLIENT shall decide the order of prevalence amongst the **EXHIBITS**.

- 1.2 Any reference or details provided in any one of the above documents but not in others shall be taken as read in all documents of this CONTRACT.
- 1.3 All standards, codes, specifications, drawings, instructions, and other documents that are referred to in the **EXHIBITS** shall be deemed incorporated herein by reference and made a part of the CONTRACT.
- 1.4 None of the documents herein before mentioned shall be used by CONTRACTOR for any purpose other than for this CONTRACT.
- 1.5 Unless otherwise specified by CLIENT, any reference to time period shall be deemed to be based on calendar days.
- 1.6 All headings, indexes, titles, subtitles, subheadings, words that are bold, italic, capitalised or otherwise emphasised of the CONTRACT are used for convenience and ease of reference only and should not be taken into consideration in the interpretation or construction of the CONTRACT.
- 1.7 All correspondences, documentations, and discussions with respect to the CONTRACT and the WORKS are to be in the English Language.
- 1.8 All instructions, notifications, agreements, authorisations, approvals and acknowledgements shall be in writing (whether by mail or by fax).

- 1.9 Any review, approval, acknowledgement or certificate given by CLIENT shall not relieve the CONTRACTOR from any liability or obligation under the CONTRACT.
- 1.10 Words importing the singular only also include the plural and vice versa where the context so requires.
- 1.11 A reference to “include” or “including” means including and without limitation and any word specified after the word “include” or its other grammatical forms shall not limit what else is included.

**END OF ARTICLE**

## ARTICLE 2 – DEFINITIONS

The following definitions shall apply to this CONTRACT except where the context otherwise requires:

- 2.1 **"Affiliate"** or **"Affiliated Company"** means any company or other entity that directly or indirectly through one or more intermediary controls or is controlled by or is under common control with a Party to this CONTRACT. "Control" in this context means ownership of more than fifty percent (50%) of the voting stock of the controlled company or the direct or indirect right to determine its actions by contract or otherwise.
- 2.2 **"Approved"** and **"Approval"** wherever used means approved and/or approval in writing including subsequent written confirmations of previous verbal approvals by (where provided for under this CONTRACT) made by CLIENT.
- 2.3 **"Area of Operations"** means those areas of the seabed and subsoil beneath the territorial waters and the continental shelf off Vietnam in which CLIENT is entitled to conduct operations relating to the exploration and production of hydrocarbons.
- 2.4 **"Applicable Laws"** means in relation to any person, property or circumstance, statutes (including regulations enacted thereunder); decrees, laws, ordinances, by-laws, judgments and orders of courts of competent jurisdiction; rules, regulations and orders issued by government agencies, federal, national and/or local authorities and other regulatory bodies and/or other agencies having jurisdiction over the Work Site and/or the Parties; and regulatory approvals, permits, licenses, approvals and authorizations which are applicable to such person, property or circumstance.
- 2.5 **"Claim"** means any claim, demand, cause of action, proceedings, judgments, award (including reasonable legal fees, costs and expenses and reasonable sums paid by way of settlement or compromise), liability, loss, expense, penalty, fine and damages and the like arising from, relating to, or in connection with the performance, mis-performance or non-performance of this CONTRACT.
- 2.6 **"CLIENT"** means Domestic Petroleum Operating Branch - Petrovietnam Exploration Production Corporation Limited and includes its consultants, agents, officers and employees.
- 2.7 **"CLIENT Contract Administrator"** means CLIENT's personnel as defined in ARTICLE headed as **"CLIENT'S CONTRACT ADMINISTRATOR AND REPRESENTATIVE(S)"**.
- 2.8 **"CLIENT Equipment"** means the equipment and other related parts, spares and other materials to be provided by CLIENT.
- 2.9 **"CLIENT GROUP"** means CLIENT, its Co-Venturers, its and their respective Affiliates, its and their respective directors, officers and employees of the aforesaid but shall not include any member of the CONTRACTOR GROUP.

- 2.10 **"CLIENT Representative"** means CLIENT's representative as defined in **ARTICLE** headed as **"CLIENT'S CONTRACT ADMINISTRATOR AND REPRESENTATIVE(S)"**.
- 2.11 **"Change Order"** means a document to be issued by CLIENT which sets forth changes in the WORKS and adjustments to the CONTRACT Price, and which sets forth the basis on which CONTRACTOR will be compensated for the change, if applicable.
- 2.12 **"CONTRACT"** means the terms and conditions of this **CONTRACT FORM**, and the **EXHIBITS**, references and documents attached hereto or incorporated by reference including any subsequent amendments to them.
- 2.13 **"CONTRACT Price"** means the agreed compensation to be paid to CONTRACTOR in a prescribed method as specified and qualified in **EXHIBIT IV – CONTRACT PRICE AND PRICE LIST**.
- 2.14 **"CONTRACTOR"** means the Party entering into the CONTRACT with CLIENT for the delivery of the performance of the WORKS or part thereof as set forth in the CONTRACT and includes the CONTRACTOR Personnel, representatives, successors and such other persons or body of persons to whom the CONTRACTOR has assigned this CONTRACT.
- 2.15 **"CONTRACTOR GROUP"** means the CONTRACTOR, its Sub-contractors, its and their Affiliates, its and their respective directors, officers and employees but shall not include any member of CLIENT GROUP.
- 2.16 **"CONTRACTOR Contract Administrator"** means CONTRACTOR's Personnel as defined in **ARTICLE** headed as **"CONTRACTOR'S CONTRACT ADMINISTRATOR AND REPRESENTATIVE"**.
- 2.17 **"CONTRACTOR Representative"** means CONTRACTOR's representative as defined in **ARTICLE** headed as **"CONTRACTOR'S CONTRACT ADMINISTRATOR AND REPRESENTATIVE"**.
- 2.18 **"CONTRACTOR Equipment"** means the equipment and other related parts, spare parts, materials, tools, drilling unit, vessels, marine spread, expendables, designated facilities and equipment and other supplies that are to be provided or supplied by CONTRACTOR as defined in **ARTICLE** headed as **"CONTRACTOR'S OBLIGATION"** and more specifically described in **EXHIBIT I – SPECIAL PROVISIONS AND SCOPE OF WORKS**.
- 2.19 **"CONTRACTOR Personnel"** means all personnel provided by CONTRACTOR in the performance of the WORKS as defined in **ARTICLE** headed as **"CONTRACTOR'S OBLIGATION"** and more specifically described in **EXHIBIT I – SPECIAL PROVISIONS AND SCOPE OF WORKS**.
- 2.20 **"Co-Venturers"** means any parties having a legal interest in the operation of CLIENT to which the WORKS or part thereof relates including but not limited to PETROVIETNAM EXPLORATION & PRODUCTION CORPORATION.

- 2.21 **"Day"** or **"day"** means a calendar day. All day shall end at 24:00 local time at the relevant location in relation to which term "Day" or "day" is used, unless otherwise specified.
- 2.22 **"Demobilization Site"** means the site designated in **EXHIBIT I – SPECIAL PROVISIONS AND SCOPE OF WORKS** where the CONTRACT Personnel who is released by CLIENT upon the completion of a part or whole part of WORKS.
- 2.23 **"Drawings"** or **"Documentation"** means sketches, drawings, reports, manuals, procedures and recommendations of any portion of the WORKS or part thereof.
- 2.24 **"Drilling Rig"** means the areas, places or installations either onshore or offshore, as designated by CLIENT, where the WORKS will be performed and hereby designated as "Work Site".
- 2.25 **"Expert"** means a person or company mutually agreed upon by CLIENT and CONTRACTOR to give a technical opinion in order to expedite settlement of any particular matter as described in **ARTICLE** head as **"ARBITRATION"**.
- 2.26 **"Gross Negligence"** means (i) any act or failure to act which seriously or substantially deviates from a prudent course of action or (ii) any act or omission in violation of the most elementary rules of diligence which a conscientious contractor in the same position and under the same circumstances would have followed or (iii) such wanton and reckless conduct or omission as constitutes in effect an utter disregard for foreseeable, harmful and avoidable consequences.
- 2.27 **"Party"** or **"Parties"** means CLIENT and/or CONTRACTOR who have their obligations pursuant to this CONTRACT.
- 2.28 **"Mobilization Date"** means the date of CONTRACTOR Equipment and/ or CONTRACTOR Personnel is to be mobilized to the Mobilization Site.
- 2.29 **"Mobilization Site"** means the site designated in **EXHIBIT I – SPECIAL PROVISIONS AND SCOPE OF WORKS** where the CONTRACTOR Personnel as specified in **EXHIBIT I** are to be made available and delivered by CONTRACTOR to CLIENT for the performance of the WORKS.
- 2.30 **"Specification"** means a collection of documents, standards and codes to which the WORKS must conform to.
- 2.31 **"Standard"** means any description of a technical nature of materials, engineering methods and techniques, equipment, construction systems and methods, specifications, plans, workmanship or otherwise defining a result to be achieved or method to be followed.
- 2.32 **"Sub-contract"** means any contract between CONTRACTOR and any other third party or parties as approved in writing by CLIENT for the performance of any portion of the WORKS or any part thereof.

- 2.33 **"Sub-contractor"** means any third party or parties having a subcontract with CONTRACTOR as approved in writing by CLIENT for the performance of any portion of the WORKS or any part thereof.
- 2.34 **"Third Party"** means any person, association of person, company or other body corporate or commercial entity of whatever character, other than any member of CONTRACTOR GROUP and any member of CLIENT GROUP.
- 2.35 **"Wilful Misconduct"** means conscious wilful act or conscious wilful failure to act deliberately committed by a member of CONTRACTOR covered parties, or CLIENT covered parties, as the case may be, which is intended to cause harm or injury to persons or property.
- 2.36 **"WORKS"** means all activities or services to be performed and rendered by CONTRACTOR or its Sub-contractor as expressly set forth in the CONTRACT and all of CONTRACTOR's activities that are reasonably inferable from the description of the WORKS. This shall include work or services performed pursuant to any authorization for WORKS, services or changes, which may be issued to CONTRACTOR from time to time and shall therein become part of the WORKS.
- 2.37 **"Work Order"** shall mean a document issued by CLIENT to CONTRACTOR in the format provided in **EXHIBIT X – INVOICING PROCEDURES AND ADMINISTRATION GUIDELINES** to this CONTRACT.
- 2.38 **"Work Site"** means the areas, places either onshore or offshore as designated by CLIENT where the WORKS are to be performed.
- 2.39 **"Writing(s)"** means all printed or hand-written documentation including but not limited to all telexes, cables and similar items. All requests, approvals, notices and agreements required under this CONTRACT shall be in writing.
- 2.40 **"CLIENT's Supply Base"** or **"Supply Base"** means the location specified in EXHIBIT I – SPECIAL PROVISIONS AND SCOPE OF WORKS, which will be the port of call for work boats and supply boats where CONTRACTOR shall deliver the Equipment required for performance of the WORKS, beyond the initial mobilisation requirement, if any.

**END OF ARTICLE**

### **ARTICLE 3 – DURATION OF CONTRACT**

Subject to termination provision provided under **ARTICLE 23 – “PROVISION FOR TERMINATION OF CONTRACT”**, this CONTRACT shall commence on the Effective Date stipulated in the preamble and shall remain valid for a period of time necessary to drill, test and complete nine (9) exploration/appraisal/production well as scope of work specified in accordance with this CONTRACT.

**END OF ARTICLE**

#### **ARTICLE 4 – CONTRACT PRICE**

- 4.1 For the satisfactory performance of the WORKS in accordance with the CONTRACT, CLIENT shall pay CONTRACTOR the lump sum amounts and/or unit rates detailed in the **EXHIBIT IV – CONTRACT PRICE AND PRICE LIST**. This compensation may be adjusted by the use of Change Orders, as described in and subject to the provision of **ARTICLE 26 – “CHANGES”**.
- 4.2 If CONTRACTOR fails to complete WORKS, then as payment of damages to CLIENT, CONTRACTOR shall pay CLIENT the amount detailed in **ARTICLE 27 – “LIQUIDATED DAMAGE”**.
- 4.3 Except as expressly provided in this CONTRACT, the CONTRACT Price shall remain unchanged throughout the duration of this CONTRACT and shall not be subjected to change for any reason whatsoever including but not limited to cost escalation or currency fluctuations.
- 4.4 CONTRACTOR shall be responsible for and pay at its own expense (when due and payable) all taxes and duties relating to the WORKS as specified in **ARTICLE 9 – “TAXES AND DUTIES”**.

**END OF ARTICLE**



## **ARTICLE 5 – RESPONSIBILITY OF CONTRACTOR TO INFORM ITSELF**

- 5.1 The CONTRACTOR shall be deemed to have:
- (a) Carefully read the CONTRACT documents to determine all the necessary services, labour, equipment and materials required for the performance of the WORKS;
  - (b) Familiarise itself with the Work Site, any restrictions applicable to or associated with the site whether imposed by any authority or third party and all ingress and egress from it;
  - (c) Obtain for itself in advance a full understanding and knowledge of the nature and scope of the WORKS and of the conditions under which the WORKS will be carried out.
- 5.2 Any information that CLIENT decides to give to the CONTRACTOR shall be information that is reasonably available to CLIENT at the material time.
- 5.3 The CONTRACTOR assumes total responsibility for all WORKS including WORKS, which is based upon data and information not contained in the CONTRACT or any conclusions, interpretations or WORKS by the CONTRACTOR in applying the data, information and requirements contained in the CONTRACT.
- 5.4 No additional payment beyond what has been agreed in the CONTRACT will be paid to the CONTRACTOR due the CONTRACTOR's lack of understanding of the nature and scope of the WORKS which a reasonably prudent CONTRACTOR should have determined and understood in advance, or due to the CONTRACTOR's conclusions or interpretations of any data or information.
- 5.5 Any failure by the CONTRACTOR to take account of matters, which may affect the WORKS, will not relieve the CONTRACTOR from its obligations under the CONTRACT.

**END OF ARTICLE**

## **ARTICLE 6 – RESPONSIBILITY OF CONTRACTOR TO INFORM CLIENT**

- 6.1 The CONTRACTOR shall notify CLIENT without undue delay of all things that are or may appear to be:
- (a) in conflict with Applicable Law; or
  - (b) deficiencies, omissions, contradictions or ambiguities in the CONTRACT.
- 6.2 Failure to so notify shall be deemed to be the CONTRACTOR's confirmation that there are no conflicts, deficiencies, omissions, contradictions or ambiguities in the CONTRACT. However, if CLIENT does receive such notice, CLIENT will review these items and issue the necessary instructions before the CONTRACTOR proceeds with any part of the WORKS affected. The CONTRACTOR shall not proceed with the WORKS prior to the receipt of such instructions.
- 6.3 CONTRACTOR shall notify CLIENT immediately of any impending or actual stoppages of WORKS, industrial disputes or other matters affecting or likely to affect the performance of the WORKS.
- 6.4 The CONTRACTOR shall keep CLIENT fully informed of the progress of the WORKS and shall comply with the reporting requirements as set out by CLIENT.
- 6.5 Without prejudice to the foregoing, CONTRACTOR shall request in a timely manner, any information or detailed drawings it requires from CLIENT for the performance of the WORKS under this CONTRACT and CLIENT shall use its best endeavours to respond promptly to such request.

**END OF ARTICLE**

## ARTICLE 7 – INVOICING AND PAYMENT

- 7.1 At the beginning of each calendar month, CONTRACTOR shall invoice CLIENT for WORKS performed during the previous month. The invoice may include any amounts due to CONTRACTOR which has not been invoiced previously, as well as charges, if any, made by CONTRACTOR for expenditure on CLIENT's behalf. Expenditures on CLIENT's behalf shall be authorized in writing by CLIENT Contract Administrator before being incurred.
- 7.2 All invoices claimed by CONTRACTOR shall be itemized as being directly associated with the CONTRACT and shall be verified and signed by the authorized signatory designated in **ARTICLE 18** entitled "**CONTRACTOR'S CONTRACT ADMINISTRATION AND REPRESENTATIVE**" hereof prior to submission to CLIENT for payment. Invoicing for WORKS performed shall be kept current at all times. All invoices submitted shall comply with the requirement of **EXHIBIT X – INVOICING PROCEDURES AND ADMINISTRATION GUIDELINES**.
- 7.3 Any charges made by CONTRACTOR for items reimbursable at actual cost under this CONTRACT or payments made on CLIENT's behalf shall be net of all discounts and allowances, whether or not taken by CONTRACTOR plus appropriate handling cost as specified in **EXHIBIT IV** and be supported by sufficient documentation to fully support such reimbursement and permit verification thereof by CLIENT.
- 7.4 Invoices shall indicate the CONTRACT number and title and shall be submitted in one (1) original and one (1) copy each complete with the necessary documentation required by CLIENT and shall be addressed to:

**DOMESTIC PETROLEUM OPERATING BRANCH - PETROVIETNAM  
EXPLORATION PRODUCTION CORPORATION LIMITED**

15<sup>th</sup> Floor Victory Tower, 12 Tan Trao Street, Tan My Ward, Ho Chi Minh City, S.R  
Vietnam

Attn: **Manager, Finance & Accounts**

E-invoices shall be submitted the invoice link to the email address below:

EMAIL: poc.invoice@pvpep.com.vn

**Company Name and VAT Code:**

CHI NHÁNH ĐIỀU HÀNH DẦU KHÍ TRONG NƯỚC – CÔNG TY TNHH – TCT  
THẨM DÒ KHAI THÁC DẦU KHÍ – LÔ 05.1A

Tầng 15, Tòa nhà Victory, số 12 Tân Trào, P. Tân Mỹ, Tp HCM

MST: 3502205616

- 7.5 Payments of undisputed invoiced items shall be made on or before the forty-fifth (45<sup>th</sup>) day after receipt thereof. If the forty-fifth (45<sup>th</sup>) day falls on a Sunday or a gazetted public holiday, the next working day shall be deemed to be the due day for payment. Payments in respect of disputed items may be withheld by CLIENT until the settlement of the dispute by mutual agreement. Payments made by CLIENT shall not preclude the right of CLIENT to thereafter dispute any of the items invoiced.

- 7.6 Payments in respect of disputed items may be withheld by CLIENT until the settlement of the dispute by mutual agreement. In the event that CLIENT disputes any item on a particular invoice, CLIENT shall be entitled to withhold from payment only the actual amount in dispute and CLIENT shall inform CONTRACTOR of the disputed items within thirty (30) calendar days of the receipt by CLIENT of that particular invoice.
- 7.7 CLIENT shall be entitled to withhold payment if any of CONTRACTOR's invoices do not include the supporting documentation required by CLIENT. In any case, Bank guarantee as required under Article 8 - Bank guarantee (if applicable) shall be included in the supporting documentation.
- 7.8 As a condition precedent to making any payments to CONTRACTOR, CONTRACTOR shall, if requested by CLIENT provide satisfactory evidence that the payment for all labour, materials, equipment and other obligations arising out of the performance of this CONTRACT have been fully specified and discharged.

If CLIENT receives a bona fide claim from CONTRACTOR's suppliers or Sub-contractors that they have not been paid by CONTRACTOR for WORKS done or material furnished in connection with the performance of WORKS under this CONTRACT, CLIENT shall first consult with CONTRACTOR with respect to such complaint. If after such consultation, CLIENT is of the reasonable opinion that such complaint is valid, CLIENT shall be entitled to withhold such amounts from payments due to CONTRACTOR under this CONTRACT until CONTRACTOR discharges such claims whereupon CLIENT will immediately release such sums withheld to CONTRACTOR.

- 7.9 Payment due to CONTRACTOR may be withheld by CLIENT on account of defective WORKS done and not remedied by CONTRACTOR, unsatisfactory performance of the CONTRACT, the filing of claims against CLIENT caused by acts or omissions of CONTRACTOR or failure of CONTRACTOR to pay amounts when due for labour or materials used by CONTRACTOR in performing WORKS or amount due to CONTRACTOR's Sub-contractors(s) on WORKS.
- 7.10 As a condition precedent to making any payments to CONTRACTOR, CONTRACTOR shall, if requested by CLIENT provide satisfactory evidence that payment due for all labour, materials, equipment and other obligations arising out of the performance of this CONTRACT have been fully satisfied and discharged.
- 7.11 CLIENT shall have the right to deduct any monies due to the CONTRACTOR under this CONTRACT in the event and on proof of default in payment of wages by CONTRACTOR for settlement of such claim. Such payment shall be deemed to be payment made to the CONTRACTOR by CLIENT under and by virtue of this CONTRACT.
- 7.12 If and when the cause or causes for withholding any such payment has/have been remedied or removed by CONTRACTOR and satisfactory evidence of such remedy or removal has been presented to CLIENT, the payments withheld shall be made forthwith by CLIENT.

- 7.13 If CONTRACTOR fails to take appropriate remedial action or refuses to remedy or remove any cause for withholding such payments within forty-five (45) calendar days after delivery written notice to CONTRACTOR by CLIENT, CLIENT shall be entitled to cause the same to be remedied or removed on its own and may deduct the cost including the expenses thereby incurred by CLIENT from any amounts due or owing or which may become due or owing to the CONTRACTOR under the CONTRACT provided always that this provision shall not affect any other remedy to which CLIENT may be entitled to for the recovery of such sums.
- 7.14 For delay in completion of WORKS due to CONTRACTOR's and/or its Sub-Contractors' negligence, CLIENT shall have the right to deduct any payment to amount of liquidated damages as provided in **ARTICLE 27** entitled "**LIQUIDATED DAMAGES**", or adjust the CONTRACT Price in accordance with **ARTICLE 4.2**.
- 7.15 Upon notification of any erroneous billings made by or payments made to CONTRACTOR by CLIENT, CONTRACTOR shall within fourteen (14) days, make appropriate adjustments therein and reimburse to CLIENT any amounts of over-payment still outstanding as reflected by said adjustments. Notwithstanding the foregoing, CLIENT shall be entitled to deduct such amount from payment due to CONTRACTOR. Accordingly, CLIENT shall pay CONTRACTOR any amount of under-payment subject to verification thereof.
- 7.16 Payment made under this CONTRACT shall not preclude the right of CLIENT to thereafter dispute any of the items invoiced and shall not constitute an admission by CLIENT as to the performance by CONTRACTOR of its obligations hereunder and in no event shall any such payment affect the warranty obligations of CONTRACTOR. Any payments withheld shall be without prejudice to any other rights or remedies available to CLIENT.
- 7.17 CLIENT shall not be responsible and liable to pay any invoice(s) received later than three (3) months from CONTRACTOR after Termination of this CONTRACT for the performance of the WORKS.
- 7.18 All invoices, financial settlements and billings by CONTRACTOR to CLIENT shall reflect properly the facts relating to all activities and transactions handled for CLIENT's account.
- 7.19 All payments to Domestic CONTRACTOR by CLIENT under the terms of this CONTRACT shall be made in Vietnam Dong (VND), except for payments for WORKS performed by Foreign CONTRACTOR's Sub-contractor/Parent Company/Subsidiary/Affiliate which is made in United State Dollar (USD) to such Foreign CONTRACTOR's Sub-contractor/Parent Company/Subsidiary/Affiliate by CONTRACTOR which shall be back-to-back made to CONTRACTOR by CLIENT in USD provided that CONTRACTOR shall provide CLIENT with all necessary supporting documents for such payment in USD, including but not limitation to a contract, custom declaration, invoice, etc. All payments to Foreign CONTRACTOR by CLIENT under the terms of this CONTRACT shall be made in US Dollar (USD). The exchange rate to be used to convert shall be the buying transfer rate for VND and USD announced by the Bank for Foreign Trade of Vietnam (Vietcombank) at the time of VAT invoice issuance shall be applied.

7.20 All payments to CONTRACTOR shall be made to:

BANK NAME AND ADDRESS : \_\_\_\_\_

ACCOUNT NUMBER : \_\_\_\_\_

**END OF ARTICLE**



## **ARTICLE 8 – BANK GUARANTEE**

- 8.1 CONTRACTOR shall furnish to CLIENT an irrevocable first call and unconditional Bank Guarantee in the format set out in **EXHIBIT VII** of this CONTRACT amounting to ten percent (10%) of the CONTRACT value, issued by a reputable bank and acceptable to CLIENT within thirty (30) days of the award of this CONTRACT to guarantee the due performance by the CONTRACTOR of its obligations under this CONTRACT. The expiry date of this Bank Guarantee shall be not earlier than ninety (90) days after the end of the CONTRACT and any extension thereto. Such guarantee shall be binding notwithstanding such variation, alterations or extensions of time as may be made, given, conceded or agreed under this CONTRACT. The expense of preparing, completing and stamping such instrument shall be borne by CONTRACTOR.
- 8.2 Should the expiry date of the Bank Guarantee required to be furnished pursuant to the foregoing **ARTICLE 8.1** occur before the expiry period mentioned above, the CONTRACTOR shall provide, at least fourteen (14) days before the expiry date, a fresh guarantee in the form similar to and in the amount of those previously provided, except for a revised date of expiry which shall not be earlier than three (3) months after the end of the CONTRACT or any extension thereto. Should CONTRACTOR fail to provide the fresh guarantee as required, CLIENT shall, without prejudice to all its other rights under the CONTRACT or in law, have the right at any time to invoke the Bank Guarantee referred to in **ARTICLE 8**.
- 8.3 If the Bank Guarantee to be furnished pursuant to **ARTICLE 8**, is not duly furnished by CONTRACTOR to CLIENT within the above prescribed period, CLIENT may, at its option and without prejudice to any rights or claims it may have against CONTRACTOR by reason of CONTRACTOR's noncompliance with any of the provisions of this **ARTICLE**, withhold an amount equivalent to the payment due or becoming due to the CONTRACTOR under this CONTRACT until such time the Bank Guarantee is furnished by the CONTRACTOR, whereupon CLIENT shall immediately release such sums withheld to CONTRACTOR, or terminate this CONTRACT by notice in writing to CONTRACTOR. In the case of termination, CLIENT shall thereupon not be liable for any claim or demand from CONTRACTOR under the provisions of this CONTRACT in respect of anything then already done or furnished, or in respect of any matters or thing whatsoever in connection with or relating to this CONTRACT, but CLIENT shall be entitled to be reimbursed by CONTRACTOR for all reasonable documented expenses incurred by CLIENT in obtaining a new contractor to perform the WORKS.
- 8.4 CLIENT reserves the right to instruct CONTRACTOR to revise the Bank Guarantee amount to correspond to any increase in the CONTRACT Price. Failure to revise the Bank Guarantee shall constitute a failure by CONTRACTOR to perform this CONTRACT entitling CLIENT to make an immediate call on the Bank Guarantee.

**END OF ARTICLE**

## ARTICLE 9 – TAXES AND DUTIES

### 9.1 CONTRACTOR LEGAL STATUS

#### 9.1.1 Vietnamese CONTRACTOR

The CONTRACTOR is a Vietnamese registered business entity which is registered under Vietnamese Laws (including but not limited to, the Corporate Law, Investment Law, Petroleum Law, etc.) and applying Vietnamese Accounting System.

- 9.1.1(a) The CONTRACTOR shall be liable for and declare and pay at its own cost and cause to be paid any and all taxes and duties of whatsoever nature assessed or levied against the CONTRACTOR and its employees or agents by the competent authorities of Vietnam or any other country on account of or in relation to or in connection with the WORKS.
- 9.1.1(b) The CONTRACTOR shall be liable for and pay or cause to be paid any and all taxes and duties levied or assessed against the CONTRACTOR or against the CLIENT by the competent authorities of Vietnam in respect of personal income, salaries or any other benefits of whatsoever nature paid to or received by or acquired by the CONTRACTOR's employees.
- 9.1.1(c) Notwithstanding **ARTICLE 9.1.1(a)**, the CLIENT shall pay the Value Added Tax ("VAT") amount imposing for the WORKS as stated on the VAT invoices issued by the CONTRACTOR for the WORKS and the CONTRACTOR shall settle the VAT levied on this WORKS to the relevant Tax Authorities of Vietnam.
- 9.1.1(d) The CONTRACTOR agrees to observe all laws, rules and regulations of Vietnam relating to taxes and duties, including income taxes, and including, if applicable the filing of returns, assessment of tax and keeping and showing of books and records.
- 9.1.1(e) The CONTRACTOR shall indemnify and hold the CLIENT harmless against any and all liability and claims of whatsoever nature resulting from the CONTRACTOR's failure to pay such taxes, levies and duties referred to in above **ARTICLES 9.1.1(a), 9.1.1(b) and 9.1.1(c)**.
- 9.1.1(f) If the CLIENT receives a notice requiring it to pay any levies, charges contributions and taxes of the type referred to in this **ARTICLE 9.1** and/or any interest or penalty thereon whether with respect to the CONTRACTOR, any its Sub-contractor or any other person employed by them or providing any services to them on or in connection with the CONTRACT, the CLIENT shall forthwith notify the CONTRACTOR who shall cooperate with the CLIENT to make all reasonable endeavors to make any valid appeal against such payment. In the event that the CLIENT is ultimately required to make such payment, the CLIENT may recover from the CONTRACTOR any such sums and all reasonable costs incurred in connection therewith and the CONTRACTOR shall within thirty (30) days of receiving written notice from CLIENT pay to the CLIENT any such sum or CLIENT shall be entitled to deduct such sums from any monies due, or which may become due, to the CONTRACTOR.

### **9.1.2 Foreign CONTRACTOR**

The CONTRACTOR is a foreign registered business entity which is registered in any country other than Vietnam, and applying the Direct Method for Value Added Tax filings and payments pursuant to the applicable Vietnamese Tax Law for Foreign CONTRACTOR.

- 9.1.2(a) The CONTRACTOR shall be liable for and declare and pay at its own costs and cause to be paid any and all taxes and duties of whatsoever nature assessed or levied against the CONTRACTOR and its employees or agents by the competent authorities of Vietnam or any other country on account of or in relation to or in connection with the WORKS or this CONTRACT.
- 9.1.2(b) The CONTRACTOR shall be liable for and pay or cause to be paid any and all taxes and duties levied or assessed against the CONTRACTOR or against the CLIENT by the competent authorities of Vietnam in respect of personal income, salaries or any other benefits of whatsoever nature paid to or received by or acquired by CONTRACTOR's employees.
- 9.1.2(c) Notwithstanding **ARTICLE 9.1.2(a)**, the following shall apply with respect to Value Added Tax ("VAT") and Corporate Income Tax ("CIT"). For the purpose of this **ARTICLE 9.1**, the term VAT and CIT shall have the same meaning as taxes by that name defined by the Ministry of Finance of Vietnam and the CONTRACTOR is a foreign registered entity applying the Direct Method pursuant to the applicable Vietnamese Tax Law. The term CIT and VAT shall be extended to cover any and all taxes (with similar nature as current CIT and VAT) levied or imposed on the WORKS by Vietnam Tax Authorities, arise as a result of changes in the legislation or interpretation and application after the execution of the CONTRACT.
- i) The CLIENT shall pay the deemed VAT and CIT, in the name of and on behalf of the CONTRACTOR, levied on the WORKS. The CONTRACTOR shall submit the invoice stating the net amount only and shall receive the net amount.
  - ii) In the event that proof of payment is requested by Vietnam Tax Authorities or alternative Government agency, the CLIENT shall provide this proof of payment as required.
- 9.1.2(d) In those instances where the Government of the Socialist Republic of Vietnam and CONTRACTOR's Government signed a Double Taxation Agreement, CLIENT shall, on behalf of CONTRACTOR, implement the procedures on tax exemption in compliance with applicable regulation of the Ministry of Finance of the S.R Socialist Republic of Vietnam and the relevant Double Taxation Agreement. Upon CLIENT's request, CONTRACTOR shall cooperate, and assist the CLIENT in obtaining the information and documents required by law in relation to the implementation procedures on tax exemption, including but not limited to, assistance in obtaining a proper tax registration certificate issued by the competent tax authorities of the country of which the CONTRACTOR is tax resident. CONTRACTOR shall be liable for the accuracy and lawfulness of the information and documents that provided to CLIENT.

- 9.1.2(e) CONTRACTOR agrees to observe all laws, rules and regulations of Vietnam relating to taxes and duties, including income taxes, and including, if applicable, the filing of returns, assessment of tax and keeping and showing of books and records.
- 9.1.2(f) When requested by CLIENT, CONTRACTOR shall provide evidence that it has paid all personal income tax due on remuneration paid to CONTRACTOR's employee. In the event that CLIENT determines, or has reason to believe, that CONTRACTOR has not met its obligations in this regard, CLIENT shall advise CONTRACTOR accordingly in writing. In such case, any payment otherwise due to CONTRACTOR may be withheld by CLIENT until CONTRACTOR provides satisfactory evidence that it has fulfilled such obligations.
- 9.1.2(g) CONTRACTOR shall protect and indemnify and hold the CLIENT and any of CLIENT's Affiliate harmless against any and all liability and claims of whatsoever nature resulting from CONTRACTOR's failure to pay such taxes, levies and duties referred to in above **ARTICLES 9.1.2(a)**, and **9.1.2(b)** and **9.1.2(c)**. CLIENT shall protect and indemnify and hold CONTRACTOR harmless against any and all liability and claims of whatsoever nature resulting from CLIENT's failure to pay such taxes, levies and duties referred to in above **ARTICLE 9.1.2(c)**.
- 9.1.2(h) If the CLIENT receives a notice requesting it to pay any levies, charges contributions and taxes of the type referred to in this **ARTICLE 9.1** and/or any interest or penalty thereon whether with respect to the CONTRACTOR, any Sub-contractor or any other person employed by them or providing any services to them on or in connection with the CONTRACT, the CLIENT shall forthwith notify the CONTRACTOR who shall work with the CLIENT to make all reasonable endeavours to make any valid appeal against such payment. In the event that the CLIENT is ultimately required to make such payment, the CLIENT may recover from the CONTRACTOR any such sums and all reasonable costs incurred in connection therewith and the CONTRACTOR shall within thirty (30) days of receiving written notice from CLIENT pay to the CLIENT any such sum or CLIENT shall be entitled to deduct such sums from any monies due, or which may become due, to the CONTRACTOR.

## **9.2 Personal Income Tax**

The CONTRACTOR shall be responsible to register, declare and pay to the any government authorities including but not limited to Vietnamese Tax authorities any Personal Income Tax or other statutory obligations due and payable in relation to the remuneration of all CONTRACTOR's and its Sub-contractors' Personnel. CONTRACTOR shall submit all necessary documentation (including but not limited to tax declarations, evidence of payment, tax receipt) to CLIENT to support such payment and substantiate that proper payment has been made to the Vietnamese Tax Authorities.

## **9.3 Importation and exportation of CONTRACTOR Equipment/ Material**

- 9.3.1 CONTRACTOR shall at its own expenses be responsible for all customs duties, licenses, fee, import or tariffs or similar charges imposed by the Government of Vietnam or any other countries, states or relevant authorities which the

- CONTRACTOR is obligated to pay in relation to CONTRACTOR's supplied materials and equipment imported into the Socialist Republic of Vietnam for performance of the WORKS.
- 9.3.2 CONTRACTOR shall be responsible for the preparation of all documents required by Customs Authorities in connection with the import and export of CONTRACTOR Equipment to and from the Socialist Republic of Vietnam.
- 9.3.3 Notwithstanding the fact that CONTRACTOR Equipment is imported in the name of CLIENT, CONTRACTOR shall remain responsible for such equipment while in the Socialist Republic of Vietnam. CONTRACTOR shall protect, indemnify and hold harmless CLIENT from and against any claims, demands and causes of action, which may arise as a result of damage to, shortages, or overages in inventory of such equipment.
- 9.3.4 Upon termination of this CONTRACT or the operation involving the use of such CONTRACTOR Equipment, whichever occurs first, CONTRACTOR shall take immediate steps to remove such equipment from the Socialist Republic of Vietnam other than equipment used or consumed in the performance of the WORKS. Unless CLIENT agrees otherwise in writing, CONTRACTOR shall comply with all directions and procedures as required by CLIENT to cause such equipment to be removed as expeditiously as possible.
- 9.3.5 CONTRACTOR shall indemnify and hold CLIENT harmless from and against any and all taxes, duties, surcharges, fines, or penalties of whatsoever nature for which CLIENT shall be or become liable as a result of CONTRACTOR's failure to comply with the directions and procedural requirements of CLIENT with respect to the removal of CONTRACTOR Equipment imported in CLIENT's name or as a result of CONTRACTOR's act in selling, transferring, disposing, or otherwise dealing with such equipment prior to its removal from the Socialist Republic of Vietnam or as a result of CONTRACTOR's failure to furnish proper and accurate information for import of such equipment.
- 9.4 Without prejudice to **ARTICLES 9.1, 9.2 and 9.3**, CONTRACTOR shall protect and indemnify and hold CLIENT GROUP safe and harmless from any and all claims or liability for income, excess profits, royalty, and other taxes assessed or levied by the Government of any country against CONTRACTOR or its Sub-contractors or against CLIENT for or on account of any payment made to or earned by CONTRACTOR or its Sub-contractors hereunder. CONTRACTOR further shall protect and hold CLIENT harmless from all taxes assessed or levied against or on account of wages, salaries, or other benefits paid to or enjoyed by employees of CONTRACTOR or its Sub-contractors, and from all taxes assessed or levied against, on, or for account of any property or equipment of CONTRACTOR or its Sub-contractors.
- 9.5 CLIENT shall herein have the right to withhold including but not limited to income, excess profit, royalty, and other taxes from payment due to CONTRACTOR under this CONTRACT, to the extent that such withholdings shall be required by the Government authorities of any country including the Vietnamese Government Authorities. Payment by CLIENT to the respective governmental office of the

amount of money so withheld shall relieve CLIENT from any further obligation to CONTRACTOR with respect to the amount so withheld.

- 9.6 CONTRACTOR shall indemnify CLIENT against all claims, demands and causes of action based on any actual or alleged failure by CONTRACTOR or its Sub-contractors to make timely payment of any taxes or duties for which they are liable or any actual or alleged failure by CONTRACTOR or its Sub-contractors to comply with applicable reporting, return, or other procedural requirements with respect to their payment to any Government authorities of any country including the Vietnamese Government Authorities. This indemnity shall include, without limitation, all penalties, awards and judgments, court and arbitration costs, attorneys' fees, and other reasonable expenses associated with such claims, demands, and causes of action.
- 9.7 For the purpose of **ARTICLE 9** only, the expression "tax" shall mean, where the context so admits, any tax, duty or charge, including any additional charge or interest, assessed or levied by the appropriate Vietnamese Government Authority in respect of the CONTRACT.
- 9.8 CONTRACTOR shall give prompt notice to CLIENT of all matters pertaining to non-payment, claims of immunity, or exemption from any taxes or duties.

**END OF ARTICLE**

## ARTICLE 10 – INSURANCE

- 10.1 CONTRACTOR shall at its own cost and expense carry and maintain in full force throughout the duration of this CONTRACT at least the following insurances with companies satisfactory to CLIENT. Nothing contained herein shall serve in any way to limit or waive CONTRACTOR's responsibility under this CONTRACT. The insurances to be carried by CONTRACTOR are as follows:
- (a) Workmen's Compensation or Similar Statutory Social Insurance and/or Employer's Liability Insurance as required by law at the location where the WORKS will be performed and which may be applicable covering all CONTRACTOR's employees engaged in accomplishing the WORKS. Such insurance shall take effect immediately from the award of the CONTRACT.
  - (b) Comprehensive General Third Party Liability Insurance covering all operations hereunder against bodily injury, death, loss of or damage to property with minimum limits of **United State Dollars One Million (USD 1,000,000.00)** or equivalent value for any one occurrence with water craft exclusion deleted. Such insurance shall include contractual liability coverage and shall take effect immediately from the award of the CONTRACT.
  - (c) "All Risks" Property Damage and Transit Insurance covering CONTRACTOR Equipment at all times during the duration of this CONTRACT including, but not limited to, losses occurring at the Work Site(s) and/or in transit to or from the Work Site and/or between Work Site(s).
  - (d) Any other insurance which may be relevant and/or which may be required by law to which the CONTRACTOR and/or Sub-contractors are subjected.
- 10.2 To the extent of indemnities given by CONTRACTOR herein, CONTRACTOR shall cause CLIENT and Co-Venturers, their parent companies, subsidiaries, Affiliates, consultants and their respective agents, officers and employees to be included as additional assured and to be covered by all insurances as stipulated in **ARTICLE 10.1** with respect to operations conducted under this CONTRACT and shall cause the insurers thereof to waive all expressed or implied rights of subrogation against such Parties and their respective employees, servants and agents.

CONTRACTOR shall cause the insurers thereof and of any other policy of insurance carried by CONTRACTOR including insurance covering CONTRACTOR Equipment and materials used in the performance of the WORKS to waive all expressed or implied rights of subrogation against such Parties and their respective employees, servants and agents.

CONTRACTOR shall further cause the insurance policy as stipulated in **ARTICLE 10.1** herein to contain a "Severability of Interests" (Cross Liability) Clause providing that in the event of one insured Party incurring liability to any of the other insured Parties, the insurance shall apply for the benefit of the Party against whom claim is or may be made in the same manner as if separate policies had been issued to each insured Party.

- 10.3 All deductibles, exceptions, and exclusions applicable to the foregoing insurances resulting from any act or omission of CONTRACTOR shall be for the account of and be paid by CONTRACTOR. Any breach of conditions and/or warranties contained in such policies of insurances shall also be for the account of CONTRACTOR.
- 10.4 CONTRACTOR shall fully indemnify CLIENT against loss or damage arising out of any failure to effect or maintain such insurances specified by this CONTRACT or out of any act or omission which invalidates the said insurances.
- 10.5 CONTRACTOR shall within thirty (30) days of the award of this CONTRACT furnish to CLIENT certified copies of certificates of insurance provided for in **ARTICLE 10.1** hereof. No insurance shall be materially changed or cancelled while the WORKS is in progress without prior written approval by CLIENT. Policies and/or extension certificates or documents shall be furnished to CLIENT. If requested by CLIENT, CONTRACTOR shall permit CLIENT to examine copies of its and its Sub-contractors original insurance policies and current premium receipts.
- 10.6 The furnishing of certificates of insurances shall not be interpreted as implying endorsement by CLIENT or that CLIENT assumes responsibility for the accuracy and adequacy of such documents or that the CONTRACTOR has complied with its other obligation contained in the CONTRACT.
- 10.7 Should CONTRACTOR at any time neglect or refuse to provide or renew any insurance required herein, or should any insurance be cancelled, CLIENT shall upon notification to CONTRACTOR have the right to procure such insurance and, in such event, any sum so paid by CLIENT shall immediately become due and payable to CLIENT by CONTRACTOR or CLIENT shall be entitled to deduct such sums from any moneys due or which may become due to CONTRACTOR in addition to any other remedies CLIENT may have under this CONTRACT.
- 10.8 CONTRACTOR shall notify CLIENT immediately upon receipt of any notice of claims, incidents, or demands or of any situation which may give rise to such claims or demands being made under the said policies. Written notice shall be given not later than two (2) days after the occurrence of any accident. However, for serious accidents (including but not limited to death or serious injuries) notice shall be given immediately and must be confirmed in writing.
- 10.9 CONTRACTOR shall ensure that its Sub-contractors maintain similar insurance coverage as specified herein and that its Sub-contractors similarly indemnify and hold CLIENT harmless against all costs, claims, and demands. Any deficiencies in the coverage or policy limits of Sub-contractor's insurance shall be for the sole responsibility of CONTRACTOR.
- 10.10 The amounts of CONTRACTOR furnished insurance called for herein shall be the minimum and not the maximum limits of liability. CONTRACTOR may provide other insurance coverage or higher limits of coverage. CLIENT will bear no financial liability attributable to deficient insurance coverage by CONTRACTOR.

10.11 CONTRACTOR shall not commence the shipment of equipment and materials or commence WORKS until all the insurances that CONTRACTOR is required to provide are in full force.

**END OF ARTICLE**

## **ARTICLE 11 – LIABILITIES AND INDEMNITIES**

### **11.1(a) Personnel of CONTRACTOR**

CONTRACTOR shall be responsible for and shall protect, defend, indemnify and hold harmless CLIENT GROUP from and against any and all claims, liabilities, costs, damages and expenses of every kind and nature, with respect to injury or death of or damage to or loss of property of any person employed by CONTRACTOR GROUP arising during and/or as a result of the performance of this CONTRACT, including when due to the negligence or wilful misconduct of an indemnitee.

### **11.1(b) Personnel of CLIENT**

CLIENT shall be responsible for and shall protect, defend, indemnify and hold harmless CONTRACTOR GROUP from and against any and all claims, liabilities, costs, damages and expenses of every kind and nature, with respect to injury or death of or damage to or loss of property of CLIENT GROUP arising during and/or as a result of the performance of this CONTRACT, including when due to the negligence or wilful misconduct of an indemnitee.

### **11.2 Third Party**

Unless otherwise expressly provided for in this CONTRACT, each Party shall be solely responsible for its own liability (including that of its Sub-contractors and/or agents and/or employees) in respect of Third Party damages and shall hold the other Party harmless from and against any such liability.

### **11.3(a) CONTRACTOR's Equipment and Property**

Save as otherwise expressly provided in this CONTRACT, CONTRACTOR shall assume the risk of, and shall be solely responsible for and in this regard shall indemnify, defend and hold CLIENT GROUP harmless from and against any claims arising out of the damage to, the loss, or destruction of, all CONTRACTOR's Equipment and property and those of CONTRACTOR GROUP in relation to this CONTRACT.

### **11.3(b) CLIENT's Equipment and Property**

CLIENT shall assume the risk of, and shall be solely responsible for and in this regard shall indemnify, defend and hold CONTRACTOR GROUP harmless from and against any claims arising out of the damage to, the loss, or destruction of, all CLIENT, its other contractor(s) of any tier, its Affiliates or its co-venturers, and its and their invitees, equipment and property (including damage to or loss of the hole or well and all well control efforts) while the contractor is using the CLIENT's equipment in relation to this CONTRACT.

### **11.4 Equipment and Property**



CLIENT shall be responsible for and shall hold harmless and indemnify CONTRACTOR for loss or destruction of or damage to CONTRACTOR's in-hole equipment when such equipment is being used in the hole below the rotary table. In the case of equipment lost, destroyed or damaged beyond repair, CLIENT shall reimburse CONTRACTOR an amount equal to the purchase price less an accumulated depreciation of such equipment as specified in **EXHIBIT IV** except due to Gross Negligence and/or Wilful Misconduct default of CONTRACTOR.

**11.5 Pollution and Contamination**

Notwithstanding anything to the contrary contained herein, CONTRACTOR shall be responsible for and hold harmless and indemnify CLIENT against all claims, cost, expenses, actions, proceedings, suits, demands and liabilities whatsoever arising out of actual or potential pollution damage and the cost of cleanup or control which cause or allow discharge, spills or leaks from substances of CONTRACTOR under this CONTRACT.

**11.6 Underground Damage**

CLIENT shall be responsible for and hold harmless and indemnify CONTRACTOR for any and all claims resulting from operations under this CONTRACT on account of injury to, destruction of, or loss or impairment of any property right in or to oil, gas or other mineral substance or water, if at the time of the act or omission, said substance had not been reduced to physical possession above the seabed, and for any loss or damage to any formation, strata, or reservoir beneath the seabed.

**11.7** CONTRACTOR shall notify CLIENT immediately of any damage, loss or destruction of property used in connection with the WORKS and any injury or death of persons occurring in connection with the performance of the WORKS and to furnish to CLIENT adequate written reports pertaining to it.

**11.8** Except as otherwise provided in this **ARTICLE**, the indemnities given by the CONTRACTOR shall not be reduced by reasons of any negligence or omission of CLIENT Representative in failing to supervise or control the CONTRACTOR's site operations or methods of working or to detect or prevent or remedy defective WORKS or to ensure proper performance of any other obligations of the CONTRACTOR under this CONTRACT.

**11.9** Except as expressly provided herein, CONTRACTOR shall be solely responsible for the costs of all loss or damage caused by the wilful misconduct, act, omission or negligence of CONTRACTOR.

**11.10** CONTRACTOR shall notify CLIENT immediately of any incident, claims or litigation affecting the provisions of this **ARTICLE**.

**END OF ARTICLE**

## **ARTICLE 12 – ACCEPTANCE OF WORKS**

- 12.1 All WORKS under this CONTRACT shall be performed in accordance with this CONTRACT to the satisfaction of the CLIENT representative.
- 12.2 Pursuant to this **ARTICLE**, CLIENT Representative shall, decide on all matters as to the performance and fulfilment of the CONTRACT and his decision thereon shall be final and conclusive.
- 12.3 Notwithstanding the above, acceptance of WORKS or part thereof or approval of CONTRACTOR's activities for the WORKS or partial payments made to the CONTRACTOR shall not relieve CONTRACTOR of any of its obligations and/or liabilities provided in this CONTRACT.

**END OF ARTICLE**

## **ARTICLE 13 – WARRANTY**

- 13.1 CONTRACTOR warrants and guarantees that the WORKS shall be performed in a professional manner in accordance with good and sound offshore engineering and industry practices and with the requirements and conditions of this CONTRACT.
- 13.2 CONTRACTOR warrants that the design, equipment and products supplied under this CONTRACT comply with the technical specifications, are free from defects in materials, free from defects in workmanship, fit and suitable for the purpose and use for which they are intended as stated in this CONTRACT.
- 13.3 Notwithstanding anything contrary under this CONTRACT, if the defects appear within the warranty period as described above, CLIENT shall notify CONTRACTOR of the defects. At CLIENT's option, CLIENT may instruct CONTRACTOR to repair or replace or remedy the defective WORKS at no charge to CLIENT. Alternatively, CLIENT may repair or replace or remedy the defective WORKS and any/all expenses incurred by CLIENT for such repair or replacement or remedy work shall be reimbursed by CONTRACTOR.
- 13.4 The scope of CONTRACTOR's warranty shall cover all expenses incurred in the repair, replacement of all materials and equipment found to be defective, labour and all direct cost and remedy of the defective WORKS.
- 13.5 CONTRACTOR shall obtain from its Sub-contractors for assignment to CLIENT the best possible warranties and guarantees with respect to materials and workmanship of third party installed by CONTRACTOR. In the event that CONTRACTOR obtains more favourable warranties from its sub-suppliers and suppliers than those in this ARTICLE, such warranties shall be assigned to CLIENT.
- 13.6 CLIENT's inspecting, testing, witnessing tests, paying invoices or issuing any final acceptance shall not relieve CONTRACTOR from its warranty obligations set forth in this ARTICLE.
- 13.7 If CONTRACTOR fails to do the WORKS or part thereof, or make good the defect or deficiency as required by CLIENT within the specified period after delivery of written notice to CONTRACTOR by CLIENT, CLIENT shall be entitled to have the WORKS or part thereof, or the defect or deficiency or part thereof, as the case may be, carried out by its own personnel or by other contractor appointed by CLIENT. If the WORKS or the part thereof is WORKS, or the defect or deficiency or part thereof had been rectified in which CONTRACTOR should have carried out at CONTRACTOR's own cost, CLIENT shall, in addition to its right to invoke any Bank Guarantee which may have been furnished by the CONTRACTOR, be entitled to recover from CONTRACTOR the total cost to CLIENT thereof or may deduct the same from any moneys or payment due or which may become due to CONTRACTOR and if there are no or insufficient moneys available, CONTRACTOR shall reimburse CLIENT within thirty (30) days after invoicing for all such costs. In any events, CONTRACTOR shall guarantee the WORKS in the same term provided in the foregoing ARTICLES.

**END OF ARTICLE**

## **ARTICLE 14 – CONTRACTOR’S OBLIGATION**

- 14.1 CLIENT shall, without prejudice to its rights under **ARTICLE 23 – “PROVISION FOR TERMINATION OF CONTRACT”** has the right to monitor and review, from time to time, the CONTRACTOR’s performance of the WORKS under this CONTRACT and CONTRACTOR’s compliance with its obligations hereunder.
- 14.2 CONTRACTOR shall perform the WORKS in strict compliance with the provisions of this CONTRACT including all **EXHIBITS** attached hereto and shall comply with and adhere strictly to CLIENT’s instructions and directions on any matter concerning the WORKS. The foregoing shall not however be construed to exclude CONTRACTOR’s duty to exercise diligence and to perform the WORKS in accordance with the warranty set forth in **ARTICLE 13 – “WARRANTY”** hereof.
- 14.3 CONTRACTOR shall carry out all of its obligations under the CONTRACT and shall execute the WORKS with all due care and diligence and with the skill to be expected of a reputable contractor experienced in the types of work to be carried out under the CONTRACT.
- 14.4 CONTRACTOR shall take full responsibility for the adequacy, stability and safety of all operations and methods necessary for the performance of the WORKS and shall comply with the **ARTICLE 20 – “HEALTH SAFETY AND ENVIRONMENT REQUIREMENT”**.
- 14.5 CONTRACTOR shall furnish the equipment, materials, and supplies and the necessary personnel required to perform the WORKS as specified in the **EXHIBITS** attached hereto.
- 14.6 CONTRACTOR shall commence the WORKS as instructed by CLIENT.
- 14.7 CONTRACTOR shall observe all plans, programs, specifications, schedules, and instructions provided or made by CLIENT for carrying out the WORKS.
- 14.8 During the progress of the WORKS performed hereunder, CONTRACTOR shall ensure that its personnel keep the designated area of the Work Site clean and orderly at all times and shall dispose of trash and spoil as instructed by CLIENT.
- 14.9 **CONTRACTOR furnished equipment, materials, and supplies**
- 14.9.1 CONTRACTOR shall at its own cost furnish, install, maintain in good working order, and repair and replace where necessary throughout the duration of this CONTRACT, relevant and adequate equipment, materials and supplies for full and proper performance of the WORKS, and shall carry all spare parts and supplies as required for maintenance and good working condition of CONTRACTOR Equipment.
- 14.9.2 CONTRACTOR shall ensure that all materials, tools, equipment and other items used in the WORKS, whether purchased, rented, or otherwise provided by CONTRACTOR, are properly packed and equipped with proper and acceptable slings and spreader bars, where required, and that the equipment

are in a safe, sound and good condition and capable of performing the functions for which they are intended; and are properly stored and protected against all weather elements that may be detrimental to the eventual performance of the equipment if no such protection is provided.

- 14.9.3 For equipment assigned to the WORKS, the CONTRACTOR must indicate on the proforma invoice that is submitted to CLIENT, at time of delivery of the equipment to the Supply Base, the description, the serial number of the equipment, maintenance record, year of manufacture and/or year of purchase, with documental support.

The proforma invoice must reach CLIENT at least one (01) day prior to the actual shipment. All items delivered must be accompanied by CONTRACTOR's delivery order and must be clearly tagged for material identification.

- 14.9.4 If any tool or other item of equipment is, in the judgement of CLIENT, unsafe or incapable of doing the functions for which it is intended, CONTRACTOR shall repair or replace the same with a safe and capable tool or item of equipment at CONTRACTOR's expense.

- 14.9.5 CLIENT shall have the right to inspect CONTRACTOR Equipment at any time to observe their condition. If CLIENT notifies CONTRACTOR of any defects thereto, CONTRACTOR shall take immediate steps to rectify the said defects at its own cost. However, such inspection by CLIENT shall not imply any acceptance of the condition of the said CONTRACTOR Equipment by CLIENT and CONTRACTOR shall not be relieved of its obligations under this CONTRACT by any such inspection.

- 14.9.6 CONTRACTOR shall keep and maintain up-to-date records of all CONTRACTOR Equipment reflecting their conditions and quantity and shall make such records available to CLIENT whenever requested.

- 14.9.7 CONTRACTOR agrees to visually inspect all CLIENT Equipment and materials furnished by CLIENT and shall report to CLIENT of any apparent defects therein. CONTRACTOR's use of such materials without so notifying CLIENT shall be deemed to be conclusive evidence that such materials are free from apparent defects. CLIENT Equipment on board the drilling unit shall be maintained in good condition and repaired by CONTRACTOR utilising CONTRACTOR Personnel and all spare parts, materials required to maintain or repair CLIENT Equipment at CONTRACTOR's sole cost.

14.10 **CONTRACTOR'S Personnel**

- 14.10.1 CONTRACTOR shall provide the necessary personnel as specified in **EXHIBIT I - SPECIAL PROVISIONS AND SCOPE OF WORKS**, and shall make the personnel available for commencement of the WORKS. CONTRACTOR shall thereafter ensure that such personnel are continuously available throughout the duration of the CONTRACT.

CONTRACTOR shall furnish at its sole expense any and all visas and work permits or other permits required for its personnel.

CONTRACTOR Personnel directly involved in the WORKS shall be subjected to call twenty-four (24) hours per day at the Work Site.

CONTRACTOR shall furnish additional personnel as CLIENT may request in writing from time to time.

14.10.2 All CONTRACTOR Personnel directly involved in the performance of the WORKS offshore shall have undergone the necessary basic safety training required by CLIENT's and shall possess a valid Offshore Safety Certificates. All related costs with respect to getting Offshore Safety Certificates for CONTRACTOR Personnel shall be at CONTRACTOR's own expenses.

#### 14.10.3 **Discipline**

In the performance of the WORKS, CONTRACTOR shall maintain strict discipline and good order among its employees and CONTRACTOR'S and Sub-contractor's employees and shall not permit any of them to engage in any activities that might, in CLIENT's opinion, be contrary or detrimental to the performance of the WORKS or the interests of CLIENT.

#### 14.10.4 **Alcohol And Drug Use**

- a) CONTRACTOR is responsible to ensure that its employees, agents, and Sub-contractors, its servants and its third party shall not use, be in possession or under the influence of any drug during the performance of the WORKS, or cause any drugs to be carried into the Work Site.
- b) CONTRACTOR shall also ensure that its employees, agents, Sub-contractors, its servants and third party shall not use or be in possession of, distribute or engage in the sale of alcohol/alcoholic beverages at Work Site.
- c) Any of the CONTRACTOR's personnel, employees, agents Sub-contractors and third party who is incapable of performing his work or duties due to the influence of alcohol, will be refused entry into or removed from the Work Site. CONTRACTOR shall replace such person immediately in accordance with the provision herein contained. Any cost incurred shall be for the CONTRACTOR's account.

#### 14.10.5 **Replacement of CONTRACTOR Personnel**

- (a) CONTRACTOR shall employ on the WORKS only competent and skilled personnel. Subject to all other provisions of this **ARTICLE**, CONTRACTOR shall ensure that all such personnel continue in the functions and responsibilities to which they are initially assigned for as long as is necessary to achieve proper completion of the WORKS. CONTRACTOR shall not change the personnel assigned to perform the WORKS without prior approval from CLIENT in writing.

CONTRACTOR shall also take steps to ensure that in the event of a replacement, the replacement personnel shall be competent, skilled and familiar with the WORKS. Such steps shall include the training of the "would be" new personnel to take-over the work at no additional cost to CLIENT and shall include an appropriate hand over period for the replacement personnel.

- (b) CLIENT shall be entitled to, without prejudice to any other rights or remedies available to CLIENT under this CONTRACT or otherwise in law, to object and require CONTRACTOR to remove from the WORKS and/or replace any of CONTRACTOR Personnel who, in the opinion of CLIENT, is incompetent, misconduct himself, is negligent in the performance of his duties, and/or violates CLIENT's alcohol/drug policy.

In such event, CONTRACTOR shall forthwith remove such person from the WORKS and such person shall not be re-employed in the WORKS again without the written permission of CLIENT. CONTRACTOR shall immediately replace, at CONTRACTOR's sole expense, any discharged person with a suitably qualified and experienced person acceptable to CLIENT.

In the event CONTRACTOR is unable to comply with these obligations, CLIENT shall have the option to terminate this CONTRACT.

#### 14.10.6 Language Requirement

CONTRACTOR shall ensure that the personnel provided pursuant to this CONTRACT are competent, efficient and have adequate command of the English Language.

#### 14.10.7 Personnel Policies

CONTRACTOR shall maintain good site housekeeping and shall furnish where applicable, to its personnel safety equipment including but not limited to safety helmets, safety shoes, safety harness and eye and ear protection.

CONTRACTOR shall be responsible for maintaining and enhancing the safety awareness of its personnel and Sub-contractor's personnel including arranging safety meeting and emergency drills.

CONTRACTOR shall establish and have its own written policy, safety rules and regulations for its employees and the employees of any of its Sub-contractors and shall also acquaint CLIENT Representative with the same.

- 14.11 At all times, CONTRACTOR shall respond promptly and shall accurately furnish to CLIENT information about the WORKS as requested.
- 14.12 In the execution of the WORKS, no persons other than the authorised employees or agents of the CONTRACTOR and the employees or agents of CLIENT, shall be allowed on the Work Site without the written consent of CLIENT.

- 14.13 Before commencing any hazardous work operations, CONTRACTOR shall inspect the Work Site and equipment involved to ensure that the WORKS will be performed under safe conditions acceptable to CLIENT. CONTRACTOR shall verify that "Work Permits" or "Certificates" are obtained prior to initiating any hazardous work.
- 14.14 CONTRACTOR shall at no cost to CLIENT be responsible for the medical welfare of its own and Sub-contractor's employees and shall take care of periodical medical examinations, arrangements for medical attendance, treatment or hospitalisation if and when necessary and will arrange suitable insurance coverage for such contingencies. In cases of emergency, CLIENT may make or provide for, the necessary emergency arrangements, the costs of which shall be reimbursed to CLIENT by CONTRACTOR.
- 14.15 CONTRACTOR shall advise CLIENT immediately in writing of any labour dispute or anticipated labour dispute, which may be expected to affect the CONTRACTOR's performance of the WORKS.
- 14.16 CONTRACTOR shall promptly review the information, data, drawings and specifications provided by CLIENT and shall immediately bring to the attention of CLIENT all things which in CONTRACTOR's opinion appear to be deficiencies, omissions, contradictions or ambiguous in such information, data, drawings or specifications.
- 14.17 In addition to all legal and specific requirements stated herein, CONTRACTOR and CONTRACTOR's agents, employees, representatives and Sub-contractors who are engaged in the performance on the WORKS shall comply with, abide by and enforce at its sole expense any rules, regulations and standards on safety, fire protection and security regulations as set forth by CLIENT in its safety manuals, policies and special instructions.
- 14.18 CONTRACTOR shall ensure that all its employees, agents and Sub-contractors comply with CLIENT's rules, regulations, practices and requirements in the area of CLIENT's operations. This shall not relieve CONTRACTOR of its obligations as stipulated herein and in particular this **ARTICLE**.

**END OF ARTICLE**

## **ARTICLE 15 – CLIENT'S OBLIGATION**

### **15.1 Access To Work Site**

CLIENT shall ensure that CONTRACTOR has rights of ingress and egress for its personnel and CONTRACTOR Equipment to and from the Work Site(s), subject to the provisions of **ARTICLE 9 - "TAXES AND DUTIES"** and **ARTICLE 14 - "CONTRACTOR'S OBLIGATION"**. CLIENT shall promptly advise CONTRACTOR of any restrictions, conditions, or limitations in CLIENT's permits or authorisations.

### **15.2 Use of CONTRACTOR Equipment**

CLIENT shall not, without CONTRACTOR's specific consent, authorise any person other than CONTRACTOR Personnel to operate CONTRACTOR Equipment. However, if an emergency should arise, CLIENT may operate CONTRACTOR Equipment and shall notify CONTRACTOR of such use. CLIENT shall pay CONTRACTOR the equipment rental rate, if applicable as specified in **EXHIBIT IV – CONTRACT PRICE AND PRICE LIST**.

### **15.3 Transportation of CONTRACTOR Equipment**

CLIENT shall furnish transportation for CONTRACTOR Equipment from the Supply Base to the Work Site(s) and vice versa.

### **15.4 Work Schedule and Transportation of CONTRACTOR Personnel**

CONTRACTOR and CLIENT shall agree upon a schedule for the regular change of working crews who are engaged in the WORKS at the Work Site(s) and, except in circumstances of emergency or safety, CLIENT shall be obliged to transport CONTRACTOR Personnel only in accordance with the schedule so agreed upon. CLIENT shall always have the right to change the schedule without prior notice for reasons of unavailability of transport and for emergency and safety considerations as determined solely by CLIENT.

The normal mode of transportation for CONTRACTOR Personnel from Mustering Point to the Drilling Rig will be by helicopter if available. Otherwise supply vessel(s) will be used.

15.5 CLIENT shall provide reasonable accommodation, meals and laundry service for CONTRACTOR Personnel within the limits of stated requirements as to numbers of personnel so engaged from time to time at the Work Site(s). CONTRACTOR Personnel shall adhere to meal rosters as may be furnished by CLIENT, if any.

15.6 CLIENT shall provide site survey information in line with CONTRACTOR's requirements, and CLIENT shall bear all expenses in conjunction with such survey requirements including but not limited to survey vessel, personnel onboard the vessel, pilot fees, dockings and the running of the survey vessel.

**END OF ARTICLE**

**ARTICLE 16 – ACTIONS ON BEHALF OF CLIENT**

- 16.1 CONTRACTOR shall take no action on behalf of CLIENT in the performance of the WORKS, which would subject either Party to liability or penalty under any laws, rules, regulations, or decrees of any relevant authority.
- 16.2 CONTRACTOR shall have no authority to and shall not make any statements, representations or commitments of any kind or to take action which shall be binding upon CLIENT, except as provided for herein or otherwise authorised in writing by CLIENT.
- 16.3 CONTRACTOR is an independent CONTRACTOR and neither CONTRACTOR nor CONTRACTOR's respective employees are deemed to be agents or employees of CLIENT.
- 16.4 CONTRACTOR shall notify CLIENT promptly upon discovery of any instance where CONTRACTOR has not complied with the requirements of this **ARTICLE**.

**END OF ARTICLE**

**ARTICLE 17 – CLIENT’S CONTRACT ADMINISTRATOR AND REPRESENTATIVE(S)**

The following defined CLIENT Contract Administrator and Representative(s) shall be designated in **EXHIBIT I – SPECIAL PROVISION AND SCOPE OF WORKS**. Notice of any change shall be given by CLIENT to CONTRACTOR in writing.

**17.1 CLIENT Contract Administrator**

CLIENT Contract Administrator is the person who shall be responsible for and is duly authorised to receive and act on behalf of CLIENT on all matters pursuant to the terms and conditions of this CONTRACT. The CLIENT Contract Administrator shall have the authority to make the final decisions for CLIENT on all questions, controversies, or disputes involving the interpretation and implementation of this CONTRACT.

**17.2 CLIENT Representative(s)**

The CLIENT Representative shall have the right to receive all information pertaining to records, reports, and any other information pursuant to the WORKS and **EXHIBITS** attached hereto.

CLIENT Representative(s) shall have the right to issue instructions with respect to the CONTRACT, reject or disapprove of any part of the WORKS, which does not conform to this CONTRACT, and to decide on all matters or questions which may arise relating to the performance of the WORKS and his decision shall be final and conclusive.

CLIENT Representative(s) shall be entitled to inspect all WORKS performed hereunder and to witness and to check all tests on CONTRACTOR Equipment. Notwithstanding the above, the presence of and the inspection by CLIENT Representative(s) shall not relieve CONTRACTOR from CONTRACTOR's obligations and duties and shall not prejudice CLIENT's rights under this CONTRACT.

CLIENT Representative(s) shall consult with CONTRACTOR Representatives in delivery of Goods or planning and co-ordinating the WORKS, and all instruction(s) given by CLIENT Representative(s) consistent with the provisions of this CONTRACT shall be deemed those of CLIENT and shall be complied with by CONTRACTOR.

**END OF ARTICLE**

**ARTICLE 18 – CONTRACTOR’S CONTRACT ADMINISTRATOR AND REPRESENTATIVE**

The following defined CONTRACTOR Contract Administrator and CONTRACTOR Representative shall be designated in **EXHIBIT I – SPECIAL PROVISIONS AND SCOPE OF WORKS**. Notice of any change shall be given by CONTRACTOR to CLIENT in writing.

**18.1 CONTRACTOR Contract Administrator**

CONTRACTOR Contract Administrator is the person who shall be responsible for and is duly authorised to represent CONTRACTOR at all times during the progress of the WORKS and to receive and to act on any request made by CLIENT in the performance of the WORKS pursuant to the terms of this CONTRACT.

CONTRACTOR Contract Administrator shall have full authority concerning the performance of the WORKS and shall have full authority to proceed with the WORKS and every part thereof in conformity with this CONTRACT. CLIENT shall be entitled to rely on all decisions and positions of the CONTRACTOR Contract Administrator as those of CONTRACTOR.

**18.2 CONTRACTOR Representative(s)**

CONTRACTOR Representative is the person employed by CONTRACTOR who will have supervisory authority over the WORKS and with whom CLIENT Representative(s) may plan and co-ordinate the performance of the WORKS. Notice concerning operations, which are transmitted to CONTRACTOR through its designated CONTRACTOR Representative(s) will be deemed, for the purpose of this CONTRACT, to have been sufficiently given.

**END OF ARTICLE**



## ARTICLE 19 – LIENS AND CLAIMS

- 19.1 CONTRACTOR shall indemnify and hold CLIENT harmless from and shall keep CONTRACTOR Equipment, CLIENT Equipment, wells, and the WORKS free of all liens, claims, assessments, fines, and levies created, caused, or committed by CONTRACTOR or its Sub-contractors and all costs, damages, and expenses incidental thereto; including without limitation all court and arbitration costs, legal fees, and other reasonable expenses. CONTRACTOR shall notify CLIENT of such liens and/or claims.
- 19.2 CLIENT shall have the right to retain from any payment to be made under this CONTRACT an amount sufficient to offset such liens and/or claims which CONTRACTOR fails to discharge promptly until such lien and/or claim is proven to be invalid or is satisfied, discharged, or settled.
- 19.3 Should there be any liens and/or claims after all payments hereunder have been made, CONTRACTOR agrees to refund to CLIENT upon demand all moneys that CLIENT may be compelled to pay to discharge any such liens and/or claims in consequence of CONTRACTOR's default including all costs and legal and professional fees.
- 19.4 CONTRACTOR agrees that it shall furnish CLIENT, upon completion or earlier termination of this CONTRACT, full and complete statements that all of CONTRACTOR's employees, Sub-contractors and suppliers have been paid in full for works done or for equipment, materials and supplies furnished to the date of such statements in connection with the performance of WORKS. In the event of any dispute, CONTRACTOR shall post a bond or any form of security acceptable to CLIENT to secure or insure CLIENT against any such liens or claims.
- 19.5 At the completion of the WORKS hereunder, or upon expiry or earlier termination of this CONTRACT, CONTRACTOR shall submit to CLIENT a 'CONTRACT CLOSURE LETTER' and 'CONTRACT CLOSURE CERTIFICATE' as per format in the **EXHIBIT X – INVOICING PROCEDURES AND ADMINISTRATION GUIDELINES** stating that all of CONTRACTOR's employees, Sub-contractors and suppliers have been paid in full, for WORKS done or for equipment, materials and supplies furnished to, and all debts, taxes, liens, privileges, claims, charges, and obligations arising out of the purchase or lease of equipment, materials, supplies, and labour for use in the WORKS hereunder to the date of such statements in connection with the performance of the WORKS have been fully and finally paid. In the event of any dispute, CONTRACTOR shall post a bond, or any other form of security acceptable to CLIENT, to secure or insure CLIENT against any such liens and/or claims.
- 19.6 Such affidavit shall ensure immunity to CLIENT from all liens and/or claims for which CLIENT might be or become liable. CONTRACTOR shall indemnify and hold CLIENT harmless from and against all claims, demands, damages, losses, costs, proceedings, charges, and expenses arising out of or incurred in connection with any claims or liens asserted by CONTRACTOR's Sub-contractors, suppliers, or any other liens and claims arising out of the performance of this CONTRACT by CONTRACTOR.

**END OF ARTICLE**

## **ARTICLE 20 – HEALTH, SAFETY AND ENVIRONMENT REQUIREMENT**

### **20.1 LAWS AND REGULATIONS**

- 20.1.1 CONTRACTOR shall comply with all laws, regulations, and requirements pertaining to **safety, health, fire, environmental protection, and security regulations**, which are applicable to the location where the WORKS are being carried out.
- 20.1.2 CONTRACTOR shall ensure its personnel employed for the WORKS comply at all times with the requirements as set forth by CLIENT in its HSE Manuals, Safety Manual, policies, procedures, any special instructions, and all requirements stipulated of CLIENT.
- 20.1.3 CONTRACTOR shall ensure that all services, materials, and CONTRACTOR's items used in the performance of the WORKS comply with the above laws, regulations, and requirements and otherwise meet generally accepted industry standards for occupational health, safety and environment.
- 20.1.4 Upon termination of the CONTRACT, CONTRACTOR shall within sixty (60) days deliver to CLIENT a satisfactory CONTRACT CLOSE-OUT REPORT in a format and meeting such technical content as specified by CLIENT.

### **20.2 SAFETY EQUIPMENT**

CONTRACTOR shall, where applicable, provide at its own expense adequate first aid, fire-fighting, life saving, and other safety equipment of approved types and amount as may be specified in connection with this CONTRACT and shall maintain this equipment in a professional manner and, where appropriate, re-certify the said safety equipment as dictated by legal and industry standards.

CONTRACTOR shall keep up-to-date records of all said equipment, including equipment location plans.

CONTRACTOR shall ensure that all cargo and items of equipment located at Work Site and at CONTRACTOR's onshore base are stored in a proper and safe manner and that CONTRACTOR's equipment is in all respects fit and suitable to undertake any operations.

CONTRACTOR shall also, at its own expense, be responsible for providing its personnel with personal protective equipment as specified required by CLIENT.

### **20.3 SAFETY PROCEDURES AND MANUALS**

CONTRACTOR shall have in place, prior to commencement of this CONTRACT, a written Safety Manual and Emergency Response Manual duly endorsed by CONTRACTOR's Management and approved by CLIENT.

20.4 **CERTIFICATION OF PERSONNEL**

CONTRACTOR shall ensure that all machineries, equipment, and tools are operated by competent personnel who are fully trained and certified to carry out the task. The said personnel shall be authorised in writing by CONTRACTOR's Management or certified by a reputable training establishment acceptable to CLIENT.

20.5 **RIGHT TO STOP WORKS**

CLIENT Representative shall have the right, but not the obligation, to prohibit the commencement of the WORKS or to stop any part of the WORKS in progress if the equipment, personnel, or work conditions are considered to be unsafe or not in compliance with CLIENT's rules and regulations.

20.6 **WEATHER/SEA CONDITION**

CONTRACTOR may suspend any part of the WORKS under this CONTRACT at any time with CLIENT's prior approval because of dangerous weather or sea conditions or other reasons relating to safety. Similarly, if requested to do so by CLIENT in writing, CONTRACTOR shall immediately suspend all or a designated part of the WORKS as may be requested by CLIENT because of dangerous weather or sea conditions or other reasons relating to safety. In this event, CONTRACTOR shall take all reasonable measures to protect the Work Site, CLIENT and CONTRACTOR Equipment and their components.

20.7 In addition to all legal and specific requirements stated herein, CONTRACTOR GROUP who are engaged in the performance of the WORKS shall comply with, abide by and enforce at its sole expense any rules, regulations and standards on safety, drugs, and alcohol, fire protection, and security regulations as set forth by CLIENT in its safety manuals, policies and special instructions.

20.8 In addition to all legal and specific requirements stated herein and all Vietnamese legislative requirements, CONTRACTOR GROUP who are engaged in the performance of the WORKS shall comply with, abide by and enforce at its sole expense any rules, regulations, and standards on safety, fire protection, environmental protection and security regulations as set forth by CLIENT in its published safety manuals, policies and special instructions. Before commencing any WORKS, CLIENT requires that CONTRACTOR inspect the Work Site and the equipment involved to ensure that the WORKS will be performed under safe conditions acceptance to CLIENT. These inspections must be evidenced by "Work Permits" issued by CLIENT prior to initiating any such WORKS. CLIENT Representative or his designated representatives shall have the right to prohibit commencement of WORKS or stop any WORKS in progress if the equipment, personnel or WORKS conditions are considered to be unsafe or not to be in compliance with CLIENT rules and regulations.

20.9 CONTRACTOR shall prohibit the consumption and/or possession of alcoholic beverages or dangerous drug at the Work Site.

- 20.10 CONTRACTOR shall compile and maintain safety records, data pertaining to its WORKS with CLIENT. These records shall be updated and submitted to CLIENT Representative as and when required.
- 20.11 CONTRACTOR shall be wholly responsible for the safety and safe working practices of its employees, servants or agents, and all equipment, and shall be responsible for the training of its employees, servants or agents on safety and safe working practices. CONTRACTOR shall ensure that the personnel to be provided in the performance of the WORKS are adequately trained in safety precautions and safe working practices before they are involved in the WORKS and that they are competent to undertake their required duties in a safe and efficient manner. CONTRACTOR shall be responsible for maintaining and enhancing manner. CONTRACTOR shall be responsible for maintaining and enhancing the safety awareness among its personnel and Sub-contractor's personnel, including arranging regular safety meetings and emergency drills, copies of minutes of CONTRACTOR safety meetings shall be submitted to CLIENT.
- 20.12 The employees, servants or agents of the CONTRACTOR when working offshore shall participate in periodic fire and boat drills, instructions in survival, lifesaving and fire fighting.
- 20.13 All personnel assigned to Work Site shall be provided with approved safety helmets, safety glasses, safety shoes and ear protections, by the CONTRACTOR. CONTRACTOR shall also provide to personnel assigned for special jobs with approved life lines, life jackets/life vests, breathing equipment, welding helmets, and all other protective equipment as necessitated by the scope of WORKS and good industrial safety practices.
- 20.14 CONTRACTOR shall allow CLIENT Representative and/or its designated third Party personnel access at any time to conduct audit on the CONTRACTOR Personnel, records and any other matters related to the safety aspect of the WORKS at the Work Site(s).

**END OF ARTICLE**

## **ARTICLE 21 – DEFAULT OF CONTRACTOR**

- 21.1 The occurrence of any of the following events shall be deemed a default by CONTRACTOR under this CONTRACT:-
- (a) Any attempted transfer or assignment or Sub-contract by CONTRACTOR of its right or duties under this CONTRACT without the prior written consent of CLIENT; or
  - (b) The making by CONTRACTOR of an assignment for the benefits of creditors, the filing by or against CONTRACTOR of a petition in bankruptcy or for corporate reorganisation, or the appointment of a receiver or trustee for CONTRACTOR or the properties of CONTRACTOR; or
  - (c) The failure of CONTRACTOR to satisfy within thirty (30) days of its entry any final judgement upon which execution is possible or the attachment of any general liens against the real or personal property of CONTRACTOR and the continued existence thereof for more than thirty (30) days; or
  - (d) If the CONTRACTOR has in the opinion of CLIENT failed to comply with the CONTRACT or failed to perform the WORKS or part thereof or has failed to adhere to any of its duties and obligations; or
  - (e) The refusal or the inability or other failure of the CONTRACTOR to perform any part of the CONTRACT in a safe, efficient, professional, workmanlike, skilful, professional and careful manner in accordance with good industry practices or with the required promptness or diligence; or
  - (f) Fulfil its obligations relating to prevention of pollution and substantial pollution result therefrom.
- 21.2 CLIENT shall notify CONTRACTOR in writing of any default and require CONTRACTOR to immediately take appropriate correction action without however prejudicing any of CLIENT rights hereunder or in law or equity.
- 21.3 Notwithstanding the foregoing, in the event of default by CONTRACTOR, CLIENT shall, at CLIENT's sole discretion, enforce the Bank Guarantee and/or Performance Guarantee for completion of the WORKS.

**END OF ARTICLE**

## **ARTICLE 22 – PROVISION FOR SUSPENSION OF WORKS**

- 22.1 CLIENT may, at any time, suspend all or any part of the remaining WORKS for any reason whatsoever by giving written notice to CONTRACTOR specifying the part of the WORKS to be suspended and the effective date of suspension. CONTRACTOR shall cease performance of said suspended part of WORKS on the effective date of suspension. CONTRACTOR shall continue to perform the unsuspended part of the WORKS. CONTRACTOR will be given sufficient time for orderly removal of personnel and items not required during suspension.
- 22.2 CONTRACTOR shall comply with CLIENT's instructions with respect to all activities in connection with any suspension of the WORKS or part thereof. Such compliance will be a factor in determining reasonableness of costs incurred. Compensation for suspension shall be limited to actual and reasonable out-of-pocket expenses. CONTRACTOR will not be compensated for expenses that resulted from suspension or cancellation of WORKS due to safety reasons.
- 22.3 Neither CLIENT nor CONTRACTOR shall be liable to the other for loss of anticipated profits sustained on account of any suspension of WORKS or part thereof.
- 22.4 CLIENT may, at any time, authorize resumption of all or any part of the suspended WORKS by giving notice to CONTRACTOR specifying the WORKS to be resumed and the effective date of withdrawal of suspension. The WORKS shall be resumed by CONTRACTOR immediately after receipt of such notice, where applicable.

**END OF ARTICLE**

## ARTICLE 23 – PROVISION FOR TERMINATION OF CONTRACT

23.1 CLIENT shall have the right at its option to terminate this CONTRACT or any part thereof pursuant to the following provisions.

### 23.2 Termination Without Cause

- a) Notwithstanding any other provisions to the contrary herein, and in addition to CLIENT's right either to stop the WORKS or to suspend CONTRACTOR from all or any part of WORKS pursuant to **ARTICLE 22 – "PROVISION OF SUSPENSION OF WORKS"**, CLIENT may at any time terminate without cause WORKS in whole or in part by giving written notice to CONTRACTOR that CLIENT intends to terminate WORKS, specifying the WORKS to be terminated, and the effective date of termination.
- b) Should CLIENT terminate this CONTRACT or all WORKS without cause, CONTRACTOR shall stop performance of all WORKS or the terminated portion of the WORKS on the effective date of termination.
- c) In the event CLIENT terminates any part of the WORKS without cause, CONTRACTOR shall stop performance of the said portion of the terminated WORKS on the effective date of termination.
- d) Upon receipt and verification of CONTRACTOR's invoice, CLIENT shall pay CONTRACTOR all amounts properly due for the work performed prior to the date of termination and all expenses resulting directly from the termination as approved by CLIENT.

### 23.3 Termination For Cause

- a) Subject to provision provided under **ARTICLE 21 – "DEFAULT OF CONTRACTOR"** hereof, CLIENT shall have the right to terminate for cause all or part of the WORKS by giving a notice in writing, specifying the CONTRACT to be terminated, and the effective date of termination. In either event, CLIENT shall have available to it all rights and remedies proved in law or equity.
  - b) On the date on which the termination for cause given pursuant to provision of **ARTICLE 21 – "DEFAULT OF CONTRACTOR"** becomes effective, CONTRACTOR shall stop performance of the CONTRACT. CLIENT shall, retain all amounts which are then due and payable to CONTRACTOR plus reimbursements due to CONTRACTOR for its reasonable and auditable costs incurred in the performance of the WORKS to the extent such WORKS are authorised in advance by CLIENT.
- 23.4 In addition to CLIENT's rights to terminate as may be provided herein, CLIENT shall be entitled to terminate this CONTRACT under the following provisions:

23.4.1 In the event of Force Majeure continuing for fourteen (14) days as specified in **ARTICLE 28 – "FORCE MAJEURE"** and there is no expectation of

improvement of the situation, then CLIENT shall be entitled to terminate this CONTRACT forthwith.

23.4.2 If at any time during the performance of this CONTRACT, there is any attempted transfer or assignment by CONTRACTOR of its rights or duties under this CONTRACT without the prior written consent of CLIENT.

CLIENT shall be entitled to terminate this CONTRACT on giving notice of termination to CONTRACTOR, such termination shall be effective on the date specified in the notice.

23.5 If CLIENT terminates any part of the CONTRACT in accordance with the **ARTICLE** herein CONTRACTOR shall execute and deliver to CLIENT the documents required by CLIENT with respect to said part of the CONTRACT.

24.6 For the part of the WORKS terminated, the applicable provision of the CONTRACT shall continue in full force and effect as to all the WORKS performed prior to the effective date of termination. For the remainder of the WORKS, the CONTRACT shall remain in full force and effect.

23.7 If this CONTRACT or any portion of the WORKS is suspended or terminated and if CLIENT so requests, CONTRACTOR shall immediately make every reasonable effort to cancel existing Sub-contracts, purchase orders or other obligations entered into by CONTRACTOR with Sub-contractors, suppliers or others for the performance of the WORKS, upon terms satisfactory to CLIENT.

23.8 CLIENT may direct CONTRACTOR to execute and delivery to CLIENT all documents related to the CONTRACT as required by CLIENT and to take all steps necessary to full vest in CLIENT the rights and benefits of CONTRACTOR under existing Sub-contracts or other obligations with Sub-contractors, suppliers and others. In addition, CONTRACTOR shall do whatever is necessary to preserve and protect the WORKS already in progress, to protect materials, drawings, documents, equipment and supplies in transit or at the Work Site and to minimise all costs to CLIENT and CONTRACTOR resulting from such suspension or termination.

23.9 Except as provided above, in the event of termination hereunder, the Parties shall each be released and discharged from any claims by one against the other in connection with the terminated WORKS. Neither CLIENT nor CONTRACTOR shall be liable to the other for loss of anticipated profits sustained on account of such termination.

23.10 If in the performance of this CONTRACT, CONTRACTOR causes the CONTRACT to be terminated, or in the event of default by CONTRACTOR, CLIENT shall have the option to thereafter enforce the Bank Guarantee and/or Performance Guarantee for completion of the WORKS.

**END OF ARTICLE**

## **ARTICLE 24 – SUB-CONTRACTS AND ASSIGNMENT**

- 24.1 CONTRACTOR shall not subcontract or assign the WORKS or any part thereof without CLIENT's prior written approval. Sub-contract documents and selection of Sub-contractor(s) related to the WORKS or any part thereof shall require the written approval of CLIENT prior to the award of each Sub-contract, such approval shall not be unreasonably withheld.
- 24.2 CLIENT shall have the right to disapprove, for reasonable cause, any Sub-contractor, supplier, vendor or source of supply selected by CONTRACTOR.
- 24.3 CONTRACTOR shall be fully responsible for any acts, defaults and omissions of any Sub-contractors and persons either directly or indirectly employed by Sub-contractor to the same extent as it is for the acts and omissions of persons directly or indirectly employed by CONTRACTOR.
- 24.4 CLIENT is entitled to assign all or some of its rights and obligations under this Contract at any time and from time to time to any its Affiliates, to any of the Co-ventures and/or to any successor operator in the Area of Operations with the prior written consent of CONTRACTOR which shall not be unreasonably withheld.
- 24.5 CONTRACTOR shall ensure that all CLIENT's right under this CONTRACT including audit rights are incorporated in all CONTRACTOR's Sub-contracts hereunder.
- 24.6 Approvals granted pursuant to this **ARTICLE** shall not release or relieve CONTRACTOR of any of its obligations under the CONTRACT or create any contractual relationship between any Sub-contractor and CLIENT.

**END OF ARTICLE**

## **ARTICLE 25 – ACCESS AND AUDIT RIGHTS**

- 25.1 CONTRACTOR shall maintain and shall cause its Sub-contractors, subsidiaries, and Affiliates to maintain true and correct records of all charges and accounts including gifts and entertainment expenses in connection with the WORKS and all transactions related thereto and shall retain all such records and accounts for a period of not less than thirty-six (36) months after the expiry of the CONTRACT or any extensions or any termination thereof.
- 25.2 From the effective date of this CONTRACT and within the time period mentioned above, CLIENT shall have the right, during regular scheduled business hours, to inspect and audit the drawings, plans, instructions, procedures, controls, records, including gifts and entertainment records, and accounts of CONTRACTOR, its Sub-contractors and Affiliates in connection with the performance of this CONTRACT, and are in compliance to the CONTRACT terms and conditions. CLIENT shall have the right to reproduce any such documents, which have been inspected.
- 25.3 CLIENT's claims for omissions, corrections, or errors in charges and credits for CLIENT's account and over-payments of amounts billed by CONTRACTOR and others noted above may be presented at any time during and after the CONTRACT period provided that such claims are made during the course of the CONTRACT and within thirty six (36) months after the expiry of the CONTRACT or any extensions or any termination thereof. CONTRACTOR shall make a written response to CLIENT concerning such claims within thirty (30) days of the date of such claims by CLIENT.
- 25.4 CONTRACTOR shall ensure that the provisions of this **ARTICLE** and **ARTICLE 24 – "SUB-CONTRACTS AND ASSIGNMENT"**, are included in all Sub-contracts it may enter into with its Sub-contractors and Affiliates who will supply any of the labour, equipment, materials, or services to be provided under this CONTRACT.

**END OF ARTICLE**

## **ARTICLE 26 – CHANGES**

- 26.1 Changes to the WORKS and/or CONTRACTOR Equipment may be required during the performance of WORKS, or any extension of the CONTRACT, and should be handled expeditiously and effectively by the Parties hereto. Such changes may include, but are not limited to additions, deletions, substitutions, alterations, and modifications.
- 26.2 CLIENT shall have the right, at any time, to make any change but such change shall in no way affect the rights or obligations of the Parties hereto except as provided in a written Change Order. All provisions of the CONTRACT shall apply to all changes.
- 26.3 Except as provided in **ARTICLE 26.6** below, CONTRACTOR shall not proceed with any change prior to receipt of a Change Order, unless authorised in writing by CLIENT Contract Administrator.
- 26.4 Should CLIENT desire a change to the WORKS and/or CONTRACTOR Equipment, it shall advise CONTRACTOR of said request. CONTRACTOR shall, upon request from CLIENT Contract Administrator, provide CLIENT within fourteen (14) days a Change Order Proposal defining the terms and conditions of the Change Order Proposal. The terms and conditions shall include, but not be limited to price, method of payment, earliest commencement date, and any other information deemed necessary.
- 26.5 When and if CLIENT approves the Change Proposal, CLIENT will issue to CONTRACTOR a written Change Order in duplicate originals in the form shown in **EXHIBIT IX – CHANGE ORDER PROPOSAL**. CONTRACTOR shall sign both duplicate originals of the Change Order to indicate its receipt, understanding and acceptance of it. After execution by CLIENT, one duplicate original will be returned to CONTRACTOR.
- 26.6 In cases of extreme urgency for which CONTRACTOR is unable to submit a firm proposal prior to commencement of WORKS on the necessary change, CLIENT may issue a "Preliminary Change Order" to authorise CONTRACTOR to proceed with the change on the basis of an approximate written estimate prepared by CONTRACTOR. As soon as possible thereafter, CONTRACTOR shall submit a Change Order Proposal giving a firm price for the change. If the firm price quoted in the Change Order Proposal is more than that quoted in the "Preliminary Change Order", CONTRACTOR shall furnish CLIENT with the reasons for the differences. Upon agreement of the Parties on the firm price, a Change Order shall be issued as outlined in **ARTICLE 26.5**.

**END OF ARTICLE**

## **ARTICLE 27 – LIQUIDATED DAMAGES**

- 27.1 If CONTRACTOR fails to complete any portion of WORKS as per schedule stipulated in **EXHIBIT I – SPECIAL PROVISIONS AND SCOPE OF WORKS**, then CLIENT shall apply liquidated damages in favour of CLIENT for such delay, in the absence of legal ground or justification, at a rate zero-point three percent (0.3%) per day of delay up to eight percent (8%) of the total estimated CONTRACT Price.
- 27.2 The reason for such delay is other than:
- (i) Force Majeure; or
  - (ii) Any delay acceptable or reimbursable by the CLIENT to CONTRACTOR under the terms and conditions of this CONTRACT; or
  - (iii) The failure of the CLIENT to perform any of the CLIENT's obligations which directly or materially affect CONTRACTOR's performance schedule as acknowledged in writing by the CLIENT,
- 27.3 The amount due to CLIENT under this **ARTICLE** shall be fixed. Such amounts shall be deducted from payments otherwise due by CLIENT to CONTRACTOR as stated in **ARTICLE 7** entitled "**INVOICING AND PAYMENT**".
- 27.4 CONTRACTOR and CLIENT hereby agree that these amounts of liquidated damages are fair and reasonable because of the difficulty of ascertaining the exact amount of damages that CLIENT may sustain by reasons of such delay in completing the WORKS and shall be deemed to be in full and final settlement of any claims by CLIENT based on CONTRACTOR's delayed completion of WORKS as specified above.
- 27.5 Pursuant to **ARTICLE 4.2**, only CLIENT shall have the right to determine whether CONTRACTOR shall be subjected to "Liquidated Damages" upon assessing the severity and impact of CONTRACTOR failures to complete WORKS.
- 27.6 CLIENT shall have the right to deduct the liquidated damages amount from payments due to CONTRACTOR under this CONTRACT. The terms of this **ARTICLE 27.7** shall not be construed so as to prejudice, alter or limit CLIENT's other rights and remedies under this CONTRACT upon written notification by CLIENT to CONTRACTOR of its intent to withhold.

**END OF ARTICLE**

## ARTICLE 28 – FORCE MAJEURE

- 28.1 Where any Force Majeure event renders impossible or hinders or delays the performance of any obligation (except for the obligation to make payments) or the exercise of any right under this CONTRACT then the failure or omission of CLIENT or CONTRACTOR to perform such obligation shall not be treated as failure or omission to comply with this CONTRACT.
- 28.2 Upon the occurrence of any Force Majeure event, the Party so affected in the discharge of its obligation shall promptly give written notice of such event to the other Party. The affected Party shall make every reasonable effort to remove or remedy the cause of such Force Majeure or mitigate its effect as quickly as may be possible. If such occurrence results in the suspension of all or part of the WORKS for a continuous period more than fourteen (14) days, the Parties shall meet and determine the appropriate measures to be taken. In the event the Parties do not agree, CLIENT have the right to terminate the forthwith in which case neither Party shall have any further obligation or liability hereunder.
- 28.3 The events falling within Force Majeure include acts of God or force of nature, landslide, lightning, earthquake, flood, fire, explosion, storm, tidal wave, shipwreck and perils to navigation (other than adverse sea or weather conditions), act of war (declared or undeclared) or public enemy, strike (excluding strikes, lockouts or other industrial disputes or action amongst employees of CONTRACTOR or its Sub-contractors) act or omission of sovereign states or those purporting to represent sovereign states, blockade, embargo, quarantine, public disorder, sabotage, accident or similar events beyond the control of the Parties or either of them.

However, the following occurrences shall not be considered as Force Majeure:

- (a) Late delivery of CONTRACTOR Equipment caused by an oversold condition of the market, inefficiencies, lack of funds or similar occurrences; or
- (b) Late performance by CONTRACTOR and/or a Sub-contractor caused by unavailability of equipment, supervisors or labour, inefficiencies, lack of funds or similar occurrences; or
- (c) Mechanical breakdown of any item of CONTRACTOR or its Sub-contractors equipment, plant or machinery; or
- (d) Delays due to ordinary storm or inclement weather; or
- (e) Non-performance by Sub-contractors.

unless the delay arises out of a Force Majeure occurrence and is beyond both CONTRACTOR's and the Sub-contractor's control and an alternate acceptable source of services, equipment, or material is unavailable. Additionally, Force Majeure shall not include financial distress of CONTRACTOR or any Sub-contractor.

28.4 Any delay or failure in performance by either Party hereto shall not give rise to any claims for damages or loss of anticipated profits if, and to the extent, such delay or failure is caused by Force Majeure.

**END OF ARTICLE**

## **ARTICLE 29 – CONFLICT OF INTEREST**

- 29.1 CONTRACTOR shall exercise care and diligence to prevent any actions being taken or conditions from arising, which could result in a conflict with CLIENT's best interest. This obligation shall apply to the activities of the employees and agents of CONTRACTOR in their relations with CLIENT's employees and their families, and with suppliers, Sub-contractors, and third parties, arising from the CONTRACT or related to the performance of the WORKS.
- 29.2 CONTRACTOR's efforts shall include, but not be limited to, establishing precautions to prevent its employees, officers or agents from making, receiving, providing, or offering gifts, entertainment, payments, loans, or other considerations for the purpose of influencing individuals to commit acts contrary to CLIENT's best interest.

**END OF ARTICLE**

### **ARTICLE 30 – WAIVERS**

- 30.1 The failure of CLIENT, at any time, or from time to time to enforce, or to require the strict adherence and performance of any of the terms and conditions of the CONTRACT, to exercise any option, right, or privilege hereunder, or to demand compliance as to any obligation or covenant, shall not constitute a waiver of any such terms and conditions and/or affect or impair such terms or conditions in any way, or the right, privilege, or option of CLIENT, or of the strict performance of CONTRACTOR thereof unless an express waiver is properly executed and evidenced in writing.
- 30.2 Waivers by CLIENT of any breach or non-observance by CONTRACTOR of any of the terms and conditions of this CONTRACT shall not constitute or be construed as a waiver of any succeeding breach or non-observance of the same or any other terms or conditions.

**END OF ARTICLE**

## **ARTICLE 31 – CONFIDENTIALITY**

- 31.1 CONTRACTOR shall obtain written approval from CLIENT prior to making any publicity release, public statements or announcement regarding the CONTRACT and the performance of the WORKS or CONTRACTOR's activities related to its participation in the WORKS.
- 31.2 CONTRACTOR shall at all times hold confidential and shall not, without CLIENT's prior written approval, divulge to third parties or use in any way other than for accomplishing the WORKS or for purposes other than that specified in the CONTRACT, any technical information or any processes, process data or calculations or any drawings or designs showing the equipment, devices and machinery by which the processing is to be performed or carried out, disclosed, directly or indirectly, to CONTRACTOR by CLIENT or its Affiliates in regard to the WORKS or the results thereof.
- 31.3 Upon completion of the WORKS or upon receipt by CONTRACTOR of CLIENT's notification of termination of the WORKS or any part thereof as the case may be, CONTRACTOR shall return to CLIENT all documents, drawings, and data provided to CONTRACTOR by CLIENT.
- 31.4 CONTRACTOR shall ensure that the provisions of this **ARTICLE** are adhered to by its employees, its Sub-contractors, and Sub-contractor's employees and shall promptly notify CLIENT upon discovery of any instance where the requirements of this **ARTICLE** have not been complied with.
- 31.5 This **ARTICLE** shall continue in force notwithstanding the completion or earlier termination of this CONTRACT.
- 31.6 The provisions of this **ARTICLE** shall not apply:
- (a) insofar as any of the documents, drawings, and data referred to in the WORKS are part of public knowledge or literature at the date of their receipt by the CONTRACTOR as from such date;
  - (b) insofar as any of the documents, drawings, and data referred to in the WORKS become part of public knowledge or literature after the date of their receipt by the CONTRACTOR as from such subsequent date;
  - (c) insofar as any of the documents, drawings, and data are developed by the CONTRACTOR independently of the CONTRACT.
  - (d) insofar as any of the documents, drawings, and data lawfully becomes known or available to the CONTRACTOR from third party who are not under a similar agreement, directly or indirectly, with CLIENT hereto.
  - (e) where disclosure is required to be made in order to comply with the requirements of any law, rule or regulation of any governmental or regulatory body having jurisdiction over the WORKS or the CONTRACTOR, or of any relevant stock exchange.

**END OF ARTICLE**

## **ARTICLE 32 – ARBITRATION**

- 32.1 Any dispute between the Parties as to the performance of this CONTRACT or the rights or liabilities of the Parties herein, or any matter arising out of the same or connected therewith, which cannot be settled amicably shall be settled by The Vietnam International Arbitration Centre at the Vietnam Chamber of Commerce and Industry (VIAC) in accordance with its Rules of Arbitration, before a board of three (3) arbitrators. Each of the Parties hereto shall be entitled to appoint one arbitrator and the two arbitrators shall agree on a third arbitrator. In the event agreement upon the third arbitrator cannot be reached, the third arbitrator shall be appointed by the VIAC's President. It is agreed, however, that no one who is an employee of either Party or who is in anyway financially interested in this CONTRACT shall be appointed to act as an arbitrator.
- 32.2 Such arbitration shall be held at Ho Chi Minh City, Socialist Republic of Vietnam. The award of the arbitrators shall be final and binding upon the Parties. The costs of the arbitration shall be borne by the Party whose contention was not upheld by the arbitration tribunals, unless otherwise provided in the arbitration award. The language of the Arbitration shall be in English language.
- 32.3 Notwithstanding the foregoing, the Parties may agree that any particular matter of disputes can most expeditiously be settled by an Expert. In that event, the Parties shall jointly prepare and sign a statement on the issue to be determined by the Expert before agreeing upon the identity of the Expert. The Parties shall then agree upon the identity of the Expert to determine the issue described in the said statement and the decision of the Expert on that issue shall be final and binding on the Parties without further arbitration on that issue. If the Parties cannot agree upon the identity of the Expert within fourteen (14) days after the date the last Party signs the aforesaid statement of the issue, then the dispute shall be referred to arbitration as indicated above.

**END OF ARTICLE**

## **ARTICLE 33 – COMPLIANCE WITH LAW**

- 33.1 CONTRACTOR and its Sub-contractors shall be subject to all applicable laws in connection with the WORKS. If CONTRACTOR or its Sub-contractors perform any part of the WORKS in breach of the law, then CONTRACTOR shall bear any additional costs of the WORKS resulting from said violation and correction thereof. For the purpose of this **ARTICLE**, "law" includes any laws (national, state, municipal, local, or others) and any requirements, ordinances, rules, or regulations of any relevant authority or agency (national, state, municipal, local, or other).
- 33.2 CONTRACTOR shall not enter into negotiations with any relevant authority or agency to develop acceptance to exemption, composition, variation, or revision to law in connection with this CONTRACT without CLIENT's prior written approval.
- 33.3 CONTRACTOR shall be responsible for and shall bear all the costs of obtaining all necessary licences, permits, and authorisations required by law that must be obtained in CONTRACTOR'S name from the relevant governmental authorities for CONTRACTOR to do business in the country, or countries wherein any part of the WORKS is performed, and shall give all required notices.
- 33.4 CONTRACTOR shall, at CONTRACTOR's cost, defend, indemnify, and hold CLIENT and its Affiliates harmless from all forms of penalty which may be imposed on CLIENT and its Affiliates by reason of any alleged or violation of law by CONTRACTOR or its Sub-contractors and also from all claims, suits, or proceedings that may be brought against CLIENT and/or its Affiliates arising under, growing out of, or by reason of the WORKS with respect to such alleged or violation of law whether brought by employees of CONTRACTOR or its Sub-contractors or by third parties or by any relevant authority.
- 33.5 CONTRACTOR's obligations under this **ARTICLE** shall include, without limitation, obtaining all necessary or appropriate import and export licences and Customs clearances for materials, tools, vessel, parts and spares, and equipment for the WORKS and providing all documentation in support of such licenses and clearance.

**END OF ARTICLE**

## **ARTICLE 34 – GOVERNING LAW AND LANGUAGE**

- 34.1 The validity and interpretation of this CONTRACT and the legal relations of the Parties to it shall be governed by the substantive laws of Vietnam, without having regards to its conflicts of laws provisions.
- 34.2 All documents produced by CONTRACTOR in the performance of this CONTRACT as well as all written communications between CLIENT and CONTRACTOR shall be written in the English language which is hereby designated the governing language of the CONTRACT. CONTRACTOR and CLIENT may use any language within their own organisations, except that all Sub-contracts and all written communications pertaining to them shall be in English.

**END OF ARTICLE**



## **ARTICLE 35 – PATENTS AND OTHER PROPRIETARY RIGHTS**

### **35.1 COPYRIGHT**

CONTRACTOR shall promptly give notice to CLIENT if CONTRACTOR has or acquires knowledge or any copyright under which a suit for infringement could reasonably be brought because of the use by CLIENT of any designs, processes, methods or WORKS product information incorporated or to be incorporated by CONTRACTOR in the performance of WORKS. Following notification to CLIENT, CONTRACTOR shall not incorporate into the WORKS these designs, processes, methods or WORKS product information without CLIENT's prior written approval.

Where designs, processes, methods and WORKS product information specified and used by CONTRACTOR in the accomplishment of WORKS infringe any copyright, CONTRACTOR shall indemnify, defend and hold CLIENT and their Affiliates harmless from and against any and all claims, demands or causes of action of whatever nature and shall further agree to pay all costs, including counsel and witness fees, court costs, awards, damages and any and all expenses incurred by or assessed against CLIENT resulting from such claims, demands or causes of action.

In case the said designs, processes, methods and WORKS product information or any part thereof is held by such a suit to constitute infringement and its use enjoined, CONTRACTOR shall at its own expense either procure for CLIENT the right to continue using the designs, processes, methods and WORKS product information or replace the designs, processes, methods and WORKS product information with non-infringing designs, processes, methods and WORKS product information or modify the designs, processes, methods and WORKS product information so as to remove the infringement. Where, however, an infringement of any copyright occurs as to design, process, method and WORKS product information expressly specified by CLIENT, CLIENT shall indemnify and save CONTRACTOR harmless from any loss on account of claims for copyrights infringement against CONTRACTOR provided that CONTRACTOR notifies CLIENT immediately upon receiving notice of infringement.

### **35.2 PATENTS**

In the event CONTRACTOR files a patent application in which any of the technical information provided to CONTRACTOR by CLIENT or by any subsidiary or Affiliate is disclosed, CONTRACTOR agrees to provide CLIENT with a copy of such application. If such application includes technical information of CLIENT or its Affiliates which is proprietary, CONTRACTOR shall not permit the publication in any country of a patent based on such application without CLIENT's prior written approval.

### **35.3 TECHNICAL INFORMATION**

Title to all drawings, specifications, requisitions, calculations, and other patent documents. Design concepts, technical information prepared by CONTRACTOR or its Sub-contractors solely for the CONTRACT or any invention development by CLIENT from information received shall be vested in CLIENT and may be used by or for CLIENT, for any purposes.

**END OF ARTICLE**

## **ARTICLE 36 – ENTIRE AGREEMENT**

This CONTRACT constitutes the entire agreement between the Parties hereto and supersedes all prior negotiations, representations or agreements related to this CONTRACT, either written or oral, including CLIENT's bid document and CONTRACTOR's proposal(s) except to the extent they are expressly incorporated into this CONTRACT. No changes, alterations, or modifications to this CONTRACT shall be effective unless in writing, and executed by the authorised signatories of CLIENT and CONTRACTOR.

**END OF ARTICLE**

### **ARTICLE 37 – NON-EXCLUSIVE AGREEMENT**

This CONTRACT is non-exclusive and CLIENT reserves the right, without having to give any reason whatsoever to engage other suppliers and/or contractors to supply and/or perform similar or identical WORKS. CONTRACTOR shall afford such other contractors adequate opportunity to carry out their contracts and shall accomplish the WORKS in co-operation with those contractors and with CLIENT.

**END OF ARTICLE**

## **ARTICLE 38 – INDEPENDENT CONTRACTOR**

- 38.1 CONTRACTOR is an independent contractor and neither CONTRACTOR nor its employees, nor CONTRACTOR's Sub-contractors or their employees, are agents or employees of CLIENT. The entire performance, operation, management, and control of CONTRACTOR Equipment shall be under the exclusive control and command of CONTRACTOR. CONTRACTOR's primary purpose shall be to perform all acts necessary to execute the WORKS consistent with safety and good oilfield practice.
- 38.2 It shall be the sole exclusive duty of CONTRACTOR to determine at all times whether the WORKS can be safely continued or undertaken. It shall be CONTRACTOR's duty to inspect and ensure that all cargo and items of equipment located at the Work Site and at CONTRACTOR's onshore base are stored in a proper and safe manner and in all respects fit and suitable to undertake any contemplated operation under the then existing conditions.
- 38.3 The presence of, and the inspection and supervision by, CLIENT Representative(s) at the Work Site shall not relieve CONTRACTOR from CONTRACTOR's obligations and responsibilities.

**END OF ARTICLE**



## **ARTICLE 39 – SURVIVAL OF OBLIGATIONS**

Notwithstanding anything to the contrary written in this CONTRACT, the liabilities, indemnity and obligations of CLIENT and CONTRACTOR under this CONTRACT arising prior to the termination or completion of this CONTRACT shall survive any termination, repudiation, cancellations or completion of this CONTRACT.

**END OF ARTICLE**

## **ARTICLE 40 – LIMITATION OF LIABILITY**

Neither Party shall be responsible to the other for any indirect or remote losses of any kind including but not limited to loss of revenue or anticipated profits, loss of production, loss of business opportunity or business interruption, regardless of cause and even if caused by negligence or breach of contract resulting from the carrying out of the operations or the exercise of rights by the Parties under this CONTRACT.

**END OF ARTICLE**



**ARTICLE 41 – NOTICES**

41.1 All notices required herein shall be in writing and made to either Party and shall be deemed to have been properly given or made to the Party it is addressed to if the notices are sent to the respective Party at the address as indicated hereunder:

**CLIENT :**

**DOMESTIC PETROLEUM OPERATING BRANCH - PETROVIETNAM  
EXPLORATION PRODUCTION CORPORATION LIMITED**

15th Floor, Victory Tower, 12 Tan Trao Street,  
Tan My Ward, Ho Chi Minh City, S.R. Vietnam  
Tel: (84-28) 3776 2222 Fax : (84-28) 3872 1079/3872 1088

ATTN : Director

Cc :

**CONTRACTOR :**

NAME : *To be specified by CONTRACTOR*  
ADDRESS : “  
TELEFAX : “  
TELEPHONE : “  
ATTENTION

41.2 The date of any notice shall be either the date it is first delivered received at the office of the addresser, or the date it is first received by the addressee, whichever is earlier.

Written notice or instruction shall be deemed to have been received:

- If delivered by hand - At time of delivery to either Party
- If sent by fax - At time of transmission
- If sent by registered mail - At time of receipt or recorded delivery.

41.3 If the time of such deemed receipt of notice is not during customary hours of business, notice shall be deemed to have been received at 10:00 A.M. on the first customary day of business thereafter.

41.4 Either Party may change the person or address to which notice shall be sent by giving the other Party written notice of such change.

**END OF ARTICLE**

**ARTICLE 42 – TITLE**

- 42.1 All materials, raw data, field logs, documents drawings and calculations covered by this CONTRACT in respect of the WORKS and each part thereof, and everything intended for incorporation therein, shall, as soon as they are delivered or appropriated to the WORKS be sole and unencumbered property of CLIENT.
- 42.2 The CLIENT Representative shall be entitled at all reasonable times to inspect the said raw data, field logs, documents, drawings, calculations and materials or parts thereof at all areas where the WORKS is being or has been performed to ensure that this **ARTICLE** has been observed and, if it has not been observed, to clearly mark or identify the equipment and materials at CONTRACTOR's cost.
- 42.3 CONTRACTOR hereby waives any liens or claims, which it might have at any time on or against any material raw data, field logs and documents, drawings and calculations, which is to be incorporated into the WORKS.

**END OF ARTICLE**

## **ARTICLE 43 – SEVERABILITY**

In the event that a determination, binding upon CLIENT and CONTRACTOR, is made that one or more provisions of the CONTRACT are void, unenforceable or unlawful, all other provisions of the CONTRACT shall continue in force to the extent not affected thereby provided that as a result of such determination, either the rights and obligations of CLIENT and CONTRACTOR hereunder are not materially adversely affected or CLIENT and CONTRACTOR agree to maintain this CONTRACT in force together with such amendments as they deemed advisable.

**END OF ARTICLE**

**ARTICLE 44 – PROCUREMENT OF EQUIPMENT, FACILITIES, MATERIALS, SUPPLIES AND SERVICES**

- 44.1 In the procurement of facilities, goods, materials, supplies and services required for the WORKS, CONTRACTOR shall, to the extent that it is economically and technically possible, utilize Vietnamese companies or companies registered in the Socialist Republic of Vietnam and shall use its best endeavours to employ suitable and qualified Vietnamese personnel in the WORKS.
- 44.2 In pursuance of the provision of **ARTICLE 44.1** CONTRACTOR shall, unless otherwise approved by CLIENT, comply with the following.
- a) give priority to goods manufactured in Vietnam in the procurement of facilities, supplies and services required for the WORKS;
  - b) give priority to Vietnamese suppliers or manufacturers for facilities, supplies and services required for the WORKS;
  - c) give priority to services and research facilities, professional or otherwise, which are rendered by Vietnamese firms or companies or firms or companies incorporated or licensed in the Socialist Republic of Vietnam;
- on the understanding that it is technically and economically practicable to give such priority. In determining what is "technically and economically practicable", the following shall be considered:
- i) Conformity of the equipment, goods, materials, supplies and services to acceptable technical and safety standards;
  - ii) Availability of the equipment, goods, materials, supplies and services in required quantities and within the applicable periods;
  - iii) Acceptability of the terms and conditions of supply, including maintenance, servicing, availability of spare parts; and
  - iv) Competitiveness of prices and costs.
- 44.3 CONTRACTOR shall provide at CLIENT'S request a list of all major Sub-contractors and suppliers utilized by CONTRACTOR in fulfilling its obligation under this CONTRACT, and a list of equipment, goods, materials, supplies and services required for operations under this CONTRACT purchased or procured outside the Socialist Republic of Vietnam.

**END OF ARTICLE**

**SIGNATORIES**

This CONTRACT shall inure to the benefit of and be binding upon the legal representatives, successors and assigns of the Parties hereto.

**IN WITNESS WHEREOF**, the Parties have caused this CONTRACT to be executed in duplicate originals in their respective corporate names by their respective officers, thereunder duly authorised, as of the date and year first above written.

**CLIENT**

**CONTRACTOR**

**For and on behalf of  
DOMESTIC PETROLEUM  
OPERATING BRANCH -  
PETROVIETNAM EXPLORATION  
PRODUCTION CORPORATION  
LIMITED**

**For and on behalf of  
(CONTRACTOR'S Name)**

\_\_\_\_\_  
Name :

\_\_\_\_\_  
Name :

Designation :

Designation :



**EXHIBIT I**

**SPECIAL PROVISION AND SCOPE OF WORKS**

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**EXHIBIT I**

**SPECIAL PROVISIONS AND SCOPE OF WORKS**

**I-1.0 GENERAL INFORMATION**

- ✓ AREA OF OPERATIONS: WHP-DHN, Block 05.1a; Offshore Vietnam.
- ✓ WELL NAME: DHN-4X, DHN-2X, DHN-1X, DHN-1P, DHN-2P, DHN-3P, DHN-4PI, DHN-5PI, DHN-6PI
- ✓ WELL TYPE: Tie-back/Production + Production + production /Injection wells
- ✓ START TIME: Tentative in October 2026.
- ✓ ESTIMATED TIME: 343 days.
- ✓ WATER DEPTH: +/-109m.
- ✓ RIG TYPE: Jack up 400ft WD.
- ✓ DELIVERY MODE: "Call-out" basis.

**1. Well information**

Total of 9 Wells: 3 tie-back/production, 3 production and 3 injection/production wells with well Targets are at Thông – Mang Cau formation (Carbonate) from H44 – H76.2

WHP	Well name / Type	Slot	Note	
<b>DHN</b>	DHN-1X	Production	#5	Block A7 (H44-H95)
	DHN-2X		#9	Block A8 (H44-H80)
	DHN-4X		#6	Block A7.2 (H44-H76.2)
	DHN-1P		#1	Sidetrack from DHN-3X (H44-H76-2) Block A7.2
	DHN-2P		#2	Block A8 (H46-H76.1.3)
	DHN-3P		#3	Block A7.1 (H50-H76.1)
	<b>Total: 6</b>			
	DHN-4PI	Production/ Injection	#4	Block A7.2 (H44-H76.2)
	DHN-5PI		#7	Block A8 (H50-H76.1.3)
	DHN-6PI		#8	Block A7.1 (H46-H76.1)
	<b>Total: 3</b>			

**2. Well Structure**

**2.1. Well Structure for Production/Injection Well**

26" hole/20" conductor x 16" hole/13-3/8" casing x 12-1/4" hole/9-5/8" casing.

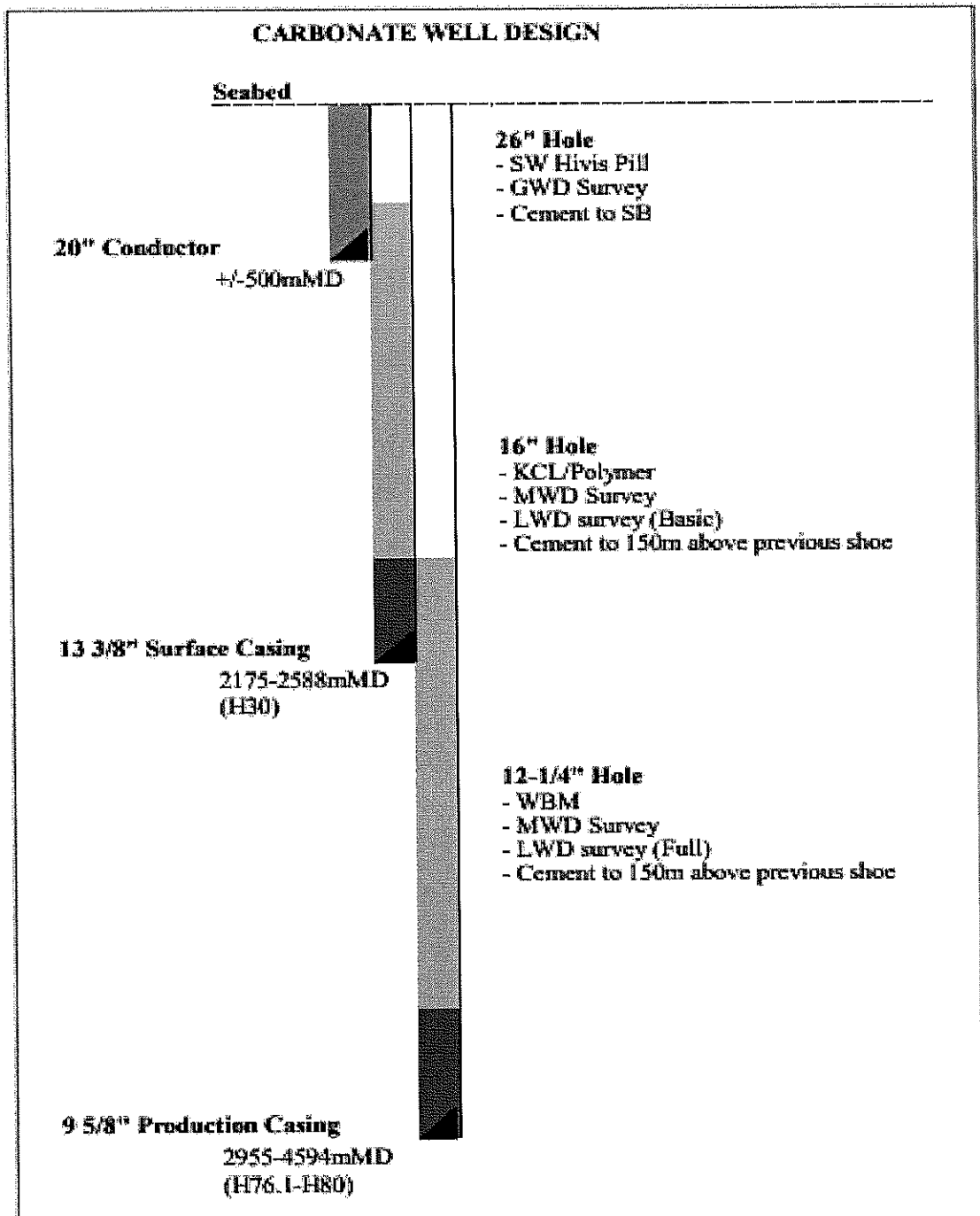


Figure 1: Typical well Structure for Production/Injection

## 2.2. Well Structure for Sidetrack wells

Tie-back 20" Conductor & 13-3/8" Casing. Cut 9-5/8" casing & Sidetrack 12-1/4" hole/9-5/8" casing x 8-1/2" hole/7" liner.

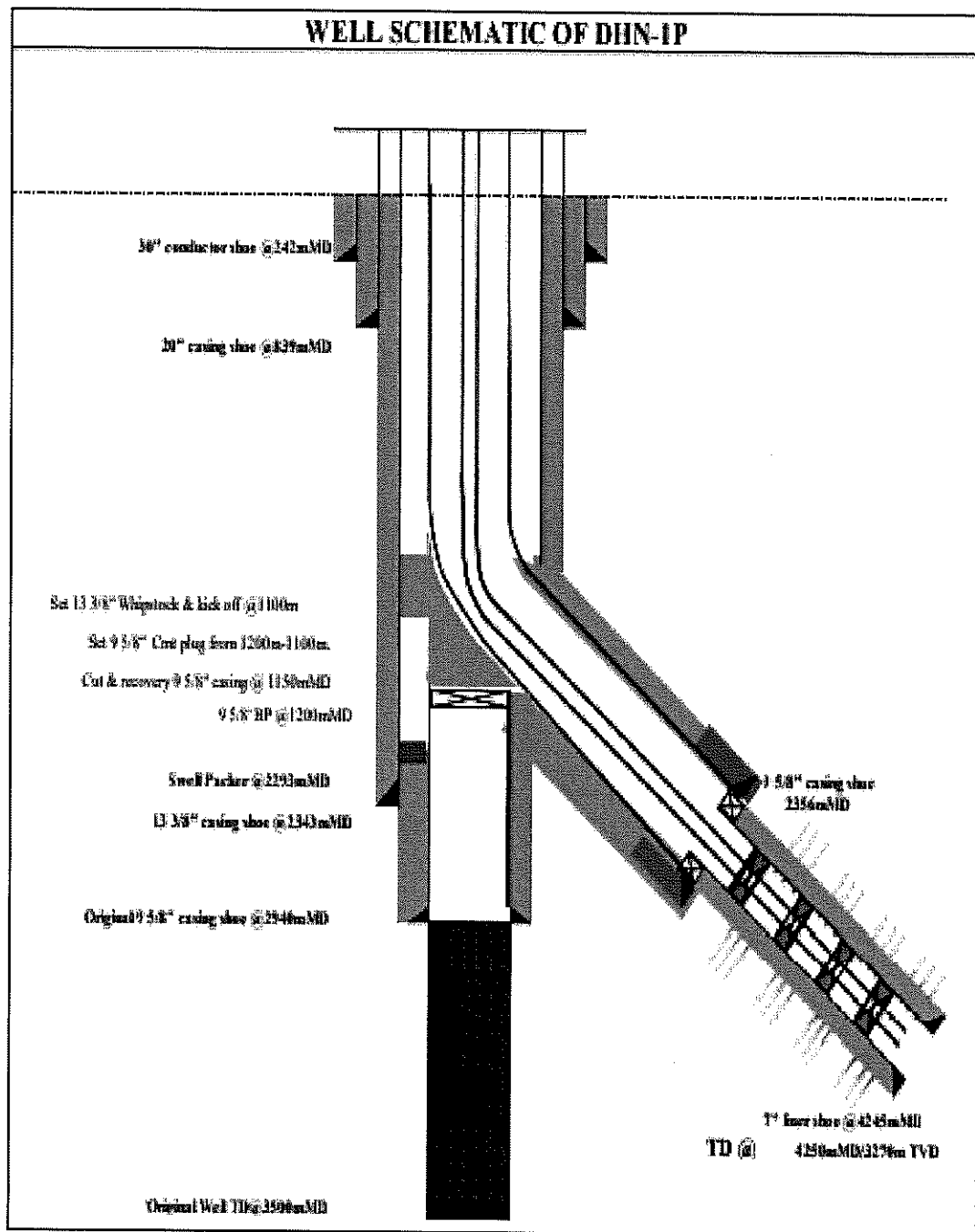


Figure 2: Well Structure (Sidetrack) for DHN-1P

### 2.3. Structure for Tie-back Wells

- ✓ DHN-4X and DHN-2X: Tie-back 20" Conductor, 13-3/8" Casing, 9-5/8" Casing from seabed to surface.
- ✓ DHN-1X: Tie-back 20" Conductor, 9-5/8" Casing from seabed to surface. Tie-back 7" from +/-3,257m to surface.

### 3. Well lay out and drilling schedule

**11 Slots:** 2 slots (Dual for future wells – Blue color) + 9 slots x 20" Conductor.

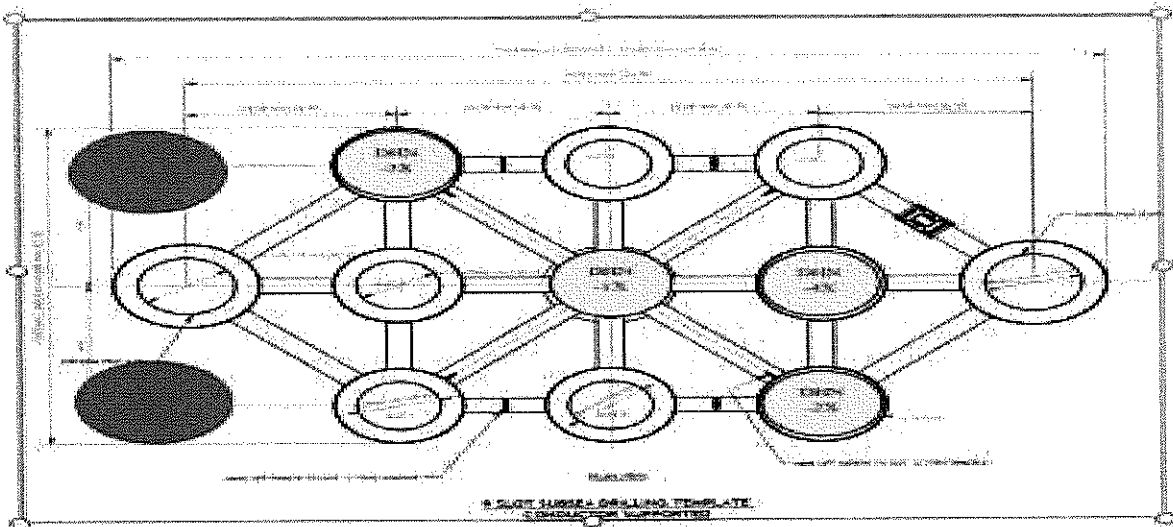


Figure 5: Well slot lay-out for WHP-DHN

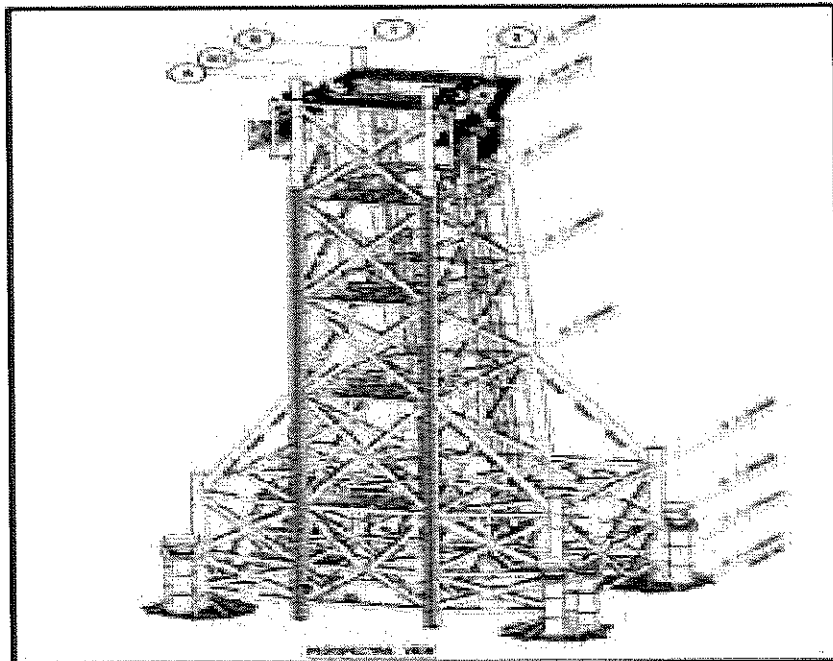


Figure 6: WHP-DHN

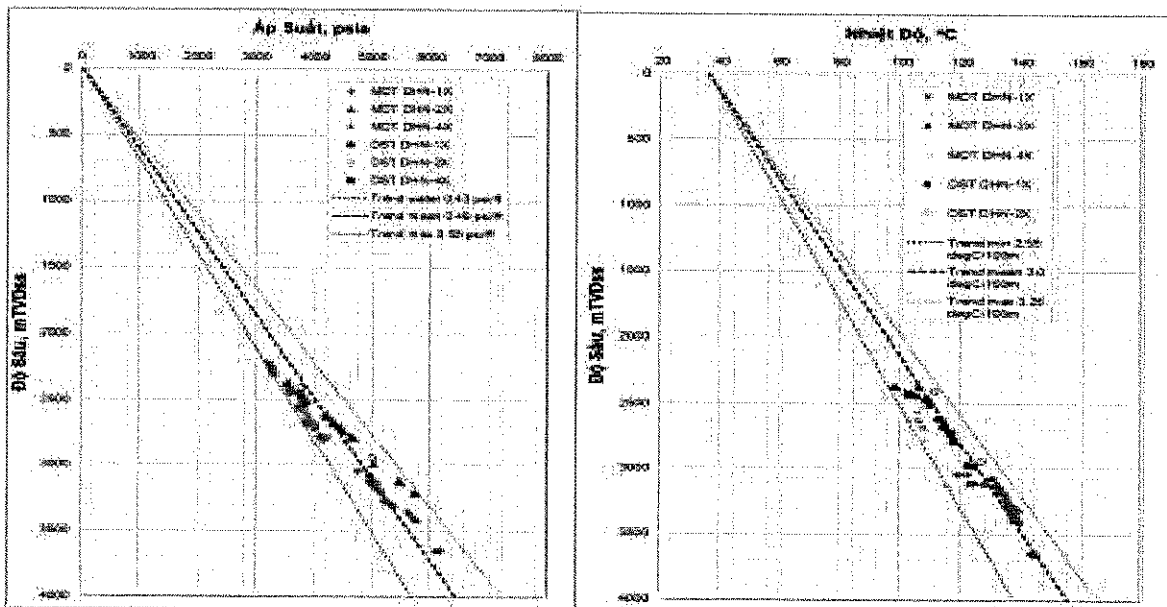
#### 4. Basic Geological well information

The well is expected normal temperature and normal pore pressure.

##### 4.1. Lithology

Age	Formation	Stratigraphic Horizon	Well No.	Lithology	Lithological Description
PLIOCENE-QUATERNARY	BIEN DONG	H20		[Lithology Column]	Upper part: Main very fine to medium grained sandstone interbedded with thin claystone, siltstone layers.
					Lower part: Main claystone interbedded with thin sandstone layers.
UPPER MIOCENE	NAM CON SON	H30		[Lithology Column]	Main claystone interbedded with thin fine - medium grained sandstone layers.
MIDDLE MIOCENE	THONG-MANG CAU	H40		[Lithology Column]	Upper part: Main claystone interbedded with siltstone, sandstone, siltstone layers.
		H50		[Lithology Column]	
		H60		[Lithology Column]	
		H70-1		[Lithology Column]	Lower part: Main shaly limestone interbedded with claystone and sandstone layers.
		H70-2		[Lithology Column]	
H80		[Lithology Column]			

#### 4.2. Pressure, Temperature Profiles



### 5. Well Design

#### 5.1. Casing program

### 5.1.1. Casing program for Production/injection wells

20" conductor x 13 3/8" casing x 9 5/8" casing

Hole Size (in)	Depth (mMD)	Casing Specification				Remarks
		Size (in)	Grade	Weight (ppf)	Connection Type	
26	400-600	20	X-56	133/169	Quick Connection	Conductor 169ppf from seabed to surface
16	2,050-2,600	13-3/8	L80/N80	68	BTC Connection	Casing shoe at top of H30
12 1/4	2,900-4,600	9-5/8	L80	47	Premium Connection	Casing shoe at top of H80

Figure 7: Casing Specification for Production/Injection Well

### 5.1.2. Casing program for Sidetrack wells

Tie-back 20" Conductor & 13-3/8" Casing. Cut 9-5/8" casing & Sidetrack 12-1/4" hole/9-5/8" casing x 8-1/2" hole/7" liner.

Hole Size (in)	Depth (mMD)	Casing Specification				Remarks
		Size (in)	Grade	Weight (ppf)	Connection Type	
	160	20	X-56	169	Quick Connection	Tie-back
	160	13-3/8	L80/N80	68	BTC	Tie-back
12-1/4	2,360	9-5/8	L80	47	Premium	Casing shoe set at Top of H30
8-1/2	4,250	7	L80	29	Premium	7" liner

Figure 8: Casing Specification for Sidetrack Well

### 5.1.3. Casing program for tie back wells

Hole Size (in)	Depth (mMD)	Casing Specification				Remarks
		Size (in)	Grade	Weight (ppf)	Connection Type	
	160	20	X-56	169	Quick Connection	Tie-back
	160	13-3/8	L80/N80	68	BTC	Tie-back
	160	9-5/8	L80	47	Premium	Tie-back
	4,250	7	L80	29	Premium	7" liner (DHN-1X only)

## 6. Drilling Fluid Program

Depth (mMD)	Hole Size(in)	Mud Type	Mud Weight (ppg)	FV sec	PV cps	YP lb/100ft <sup>2</sup>	API FL (cc)
400 – 600	26	SW/Hi-vis Sweep	8.8 – 9.2	>80	ALAP	>35	
2,175-2,588	16	SW/Hivis –Sweep/ KCL/Gel/Polymer	8.8 – 9.7	45– 65	ALAP	20-35	<8
2,356-4,594	12-1/4	SBM/OBM	9.5-10.5	45 - 70	ALAP	25 - 40	<3
4,250	8-1/2	SBM/OBM (DHN-1P only)	9.5 – 10.5	45 - 70	ALAP	25 - 40	<3
Completion		Cacl2/NaCl	10-11				

Figure 9: Drilling Fluid Program

## 7. Cementing Program

Hole size - Casing size	Setting depth	Cement Interval		Slurry		Remark
	mMD/	Top (m)	Bottom (m)	Density (ppg)	Recipe	
26"x20"	400-600	Seabed	Shoe	14.0	Single G cement	150% excess in OH or lead up to seabed.
16" - 13-3/8"	2,170- 2,580	150-200 inside previous shoe	Top tail	12.8	Lead G cement	Excess: 50% in OH or 15% Carbide bomb
		+/- 250 above shoe	shoe	15.8	Tail G cement	
12-1/4" - 9-5/8"	2,350- 4,590	150-200 inside previous shoe	Top tail	12.8	Lead Blended/LW cement	Excess: 25% in OH or 10% Caliper.
		+/- 250 above shoe	shoe	14.5	Tail Blended/LW cement	
8 1/2" – 7" liner (DHN-1P only)	4,250	Top of Liner	Liner shoe	14.5	Single Blended/LW cement	Excess: 25% in OH or 10% Caliper.

Figure 10: Cementing Program

## 8. Bit Program

Hole size (in)	Bit Type/IADC	Nozzle /32"	Bit Performance					
			From (m)	To (m)	Interval (m)	WOB (kips)	RPM	GPM
26	Mill tooth (1.1.5)	3x18, 1x22, 3x16	110	500	390	5-15	80-100	500-950
16	PDC (M423)	9x12	500	2,175/2,588	± 2,000	15-35	80-150	950-1050
	TCI (1.1.5)							
12-1/4	PDC (M223/M323)	7x14	2,175/2,588	2,955/4,594	± 2,000	15-25	60-150	640-1050
	TCI (519/215)							
8-1/2 DHN-1P	PDC (M223/M323) TCI (447/215/519)	5x14/ 6x13	2,356	4,250	± 1,900	10-30	80-150	400-600

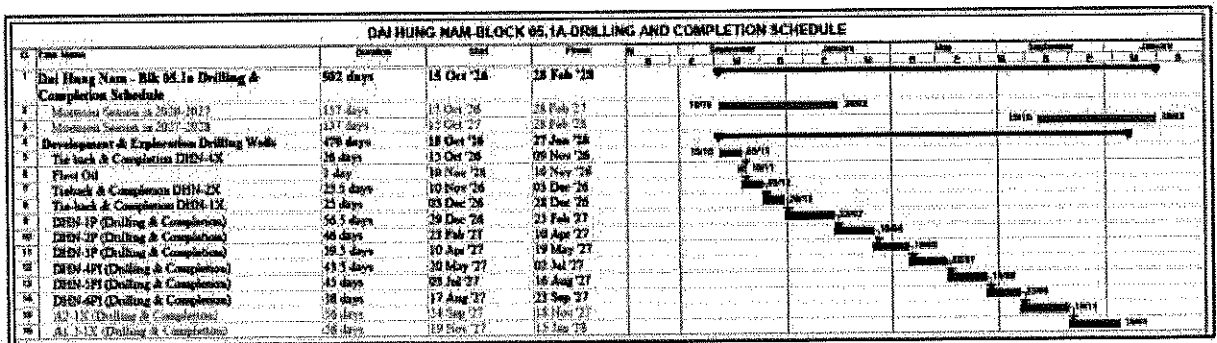
Figure 10: Bit Program

## 9. BHA Program

Hole size (in)	Interval (mMD)	BHA Program
26	0 – 500	26" Bit + 9-1/2" Mud Motor + 9-1/2" Stab + 9-1/2" MWD (GWD) + 9-1/2" DC + X/O + 8-1/4" DC + X/O + 8" Jar + X/O + 15x5-1/2" HWDP
16	500 – 2,175/2,588	16" Bit + 9-1/2" Mud Motor + 16" Stab + 9-1/2" MWD + 9-1/2" LWD + X/O + 9-1/2" MWD + X/O + 6x8-1/4" DC + 8" Jar + 2x8-1/4" DC + X-Over + 15x5-1/2" HWDP
12-1/4	2,175/2,588 – 2,955/4,594	12-1/4" Bit + RSS + 12-1/8" Stab + 9-1/2" MWD + 9-1/2" LWD (Full Option) + X/O + 11-3/4" Stab + 6x8-1/4" DC + 8" Jar + 2x8-1/4" DC + X/O + 15x5-1/2" HWDP
8-1/2 DHN-1P	2,365–4,250	8-1/2" Bit + RSS + 8-3/8" Stab + 7" MWD + 7" LWD (Full Option) + X/O + 3x6-1/2" DC + X/O + 12x5-1/2" HWDP + X/O + 6-1/2" Jar + X/O + 5x5-1/2" HWDP

Figure 12: BHA Program for Development Campaign

## 10. Drilling and Completion Schedule (Tentatively start in Oct 2026 & Complete in Sep 2027 Without A2-1X & A1.3-1X)



## **I-2.0 SPECIAL PROVISIONS**

### **I-2.1 Work Site(s)**

The Work Site(s) shall be the Drilling Rig(s) at the well location designated by CLIENT.

### **I-2.2 Mobilization Date**

CLIENT shall give CONTRACTOR at least seven (7) days advance notice for the initial mobilization for CONTRACTOR designated "Call-out" Equipment and CONTRACTOR designated "Call-out" Personnel. The subsequent mobilization throughout the duration of CONTRACT will be on twenty-four (24) hours on a "call-out" basis.

### **I-2.3 CONTRACTOR Contract Administrator**

CONTRACTOR hereby appoints, as CONTRACTOR's Contract Administrator <<*To be provided and specified by CONTRACTOR*>> or his appointee designated by him in writing.

### **I-2.4 CLIENT Contract Administrator**

CLIENT hereby appoints, as CLIENT Contract Administrator, the **Director** or his appointee designated by him in writing.

### **I-2.5 CLIENT Representative(s)**

CLIENT hereby designates the **Director, Drilling Manager, Drilling Superintendent, Senior Drilling Engineer and Drilling Supervisors** as CLIENT Representatives.

### **I-2.6 Mobilization Site for CONTRACTOR Equipment**

The Mobilization Site for CONTRACTOR Equipment shall be the CLIENT's Warehouse at PTSC Supply Base, Rach Dua Ward, Ho Chi Minh City , S.R. Vietnam or any other mutually agreed location.

### **I-2.7 Demobilization Site for CONTRACTOR Equipment**

The Demobilization Site for CONTRACTOR Equipment shall be at CLIENT Warehouse at PTSC Supply Base, Rach Dua Ward, Ho Chi Minh City, S.R. Vietnam or any other mutually agreed location.

### **I-2.8 Mustering Point for CONTRACTOR Personnel**

Southern Vietnam Helicopter Company's Helibase in Tam Thang Ward, HCM City (by chopper) or PTSC Supply Base, Rach Dua Ward, Ho Chi Minh City (by vessel) for all CONTRACTOR's Personnel.

I-2.9 **CLIENT Warehouse and Base Facility**

PTSC Supply Base, Rach Dua Ward, Ho Chi Minh City, S.R. Vietnam.

I-2.10 **CONTRACTOR Warehouse and Base Facility**

*<<To be provided and specified by CONTRACTOR>>*

I-2.11 **CLIENT Operations Office**

15<sup>th</sup> Floor, Victory Tower, 12 Tan Trao Street, Tan My Ward, Ho Chi Minh City, S.R. Vietnam.

I-2.12 **CONTRACTOR Operations Office**

*<<To be provided and specified by CONTRACTOR>>*

I-2.13 **Commencement Date of Operations**

The time and date when CONTRACTOR mobilize the first CONTRACTOR Equipment to the Mobilization Site or the first Personnel at the Mustering Point, whichever earlier.

I-2.14 **Commencement of Rates**

The applicable rates as defined in EXHIBIT IV hereof shall commence on the Commencement Date of Operations. No payable rates shall be payable throughout mobilization and demobilization of CONTRACTOR Equipment or CONTRACTOR Personnel.

The applicable rates as defined in EXHIBIT IV hereof shall commence upon physical mobilization.

I-2.15 **Point of Origin**

CONTRACTOR Point of Origin is around 50km radius from CLIENT's supply base, Rach Dua Ward, HCM City or other location designated by CLIENT for CONTRACTOR's Personnel that are to be furnished under this CONTRACT.

I-2.16 **Delivery Schedule**

Initial delivery date and the following time CONTRACTOR shall deliver CONTRACTOR Equipment at the designated Mobilization Site on the date stipulated in the notification issued by CLIENT.

CONTRACTOR agrees that CLIENT shall have the right to change or to amend the quantity and delivery date of the CONTRACTOR Equipment.

If other means of transportation is required due to failure of CONTRACTOR to meet committed delivery period, additional cost to be incurred shall be to CONTRACTOR's account.

**I-2.17 Request for WORKS**

A request for Provision of DD, MWD & LWD Equipment & Services shall be either via telex, facsimile, telephone, or verbal instructions to be followed by telex or facsimile from CLIENT's Contract Administrator.

**I-2.18 Duration of CONTRACT**

The duration of the CONTRACT shall be as per **ARTICLE 3**.

**I-2.19 "Call-Out" of CONTRACTOR Personnel**

CONTRACTOR shall provide CONTRACTOR Personnel on "Call-out" basis and when directed by CLIENT. CLIENT shall give to CONTRACTOR at least twenty-four (24) hours for "Call-out" personnel.

**I-2.20 "Call-Out" of CONTRACTOR Equipment**

CONTRACTOR shall make available CONTRACTOR Equipment at CONTRACTOR Warehouse in Rach Dua Ward, HCM City, Vietnam for delivery to the Work Site as requested by CLIENT on "Call-out" basis.

**I-2.21. Completion of WORKS**

Completion of WORKS shall be achieved when the operations described in EXHIBIT I-2.0 on the last well designated by CLIENT has been completed and CONTRACTOR has been notified in writing by CLIENT.

**I-2.22 Demobilization of CONTRACTOR Equipment**

Upon completion of WORKS on the last well designated by CLIENT, CONTRACTOR shall make ready all Equipment for offloading onto the supply vessel(s). CONTRACTOR shall be responsible for the removal of

CONTRACTOR's Equipment from the designated Demobilization Site. Rental shall cease when CONTRACTOR Equipment reaches the Demobilization Site.

**I-2.23 Release of CONTRACTOR Equipment**

CLIENT shall have the right to release any of the CONTRACTOR Equipment for any reason whatsoever within twenty-four (24) hours. CLIENT shall endeavor to notify CONTRACTOR of its intent to release any of CONTRACTOR Equipment as soon as such decision is known. However, CLIENT shall continue to pay the applicable rental rates until the CONTRACTOR Equipment has been delivered and reached to the Demobilization Site. CONTRACTOR shall promptly prepare for demobilization whatever portion of CONTRACTOR Equipment that is to be released and shall assist CLIENT in the loading-out of the said equipment. CONTRACTOR shall be on hand at the Demobilization Site to take delivery of such equipment.

**I-2.24 Re-engagement of CONTRACTOR Equipment**

CLIENT shall have the option to re-engage any released CONTRACTOR's Equipment.

**I-2.25 Release of CONTRACTOR Personnel**

CLIENT shall give CONTRACTOR at least five (5) days advance notice of release of any designated personnel. However, subject to terms and conditions of main contact body hereto, CLIENT shall have the right to release without prior notice any of CONTRACTOR Personnel, who, in CLIENT's opinion, are or could be detrimental to the performance of the WORKS or interest of CLIENT.

**I-2.26 CONTRACT Closure**

CONTRACTOR shall submit to CLIENT a "CONTRACT CLOSURE LETTER" and "CONTRACT CLOSURE CERTIFICATE" as per format shown in APPENDIX X-8 and APPENDIX X-9 respectively.

**I-2.27 Health, Safety and Environment Requirement**

CONTRACTOR shall provide necessary tools, equipment and written procedure to make sure all hazards listed in APPENDIX VI-5 are addressed.

CONTRACTOR is required to develop the action plan (or written procedure) for each hazard listed in APPENDIX VI-5 (where and when applicable) prior to the commencement of WORKS.

**I-2.28 Changes**

- I-2.28.1 Should CLIENT desire any change to the CONTRACTOR's Equipment, it shall advise CONTRACTOR of said request. CONTRACTOR shall, upon request from CLIENT, provide CLIENT within fourteen (14) days a CHANGE PROPOSAL defining the terms and conditions shall include but not limited to price, method of payment, earliest commencement date and any other information deemed necessary.
- I-2.28.2 When and if CLIENT approves the CHANGE PROPOSAL, CLIENT will issue to CONTRACTOR a written CHANGE ORDER in duplicate originals in the form shown in APPENDIX IX-2 herein, CONTRACTOR shall sign both duplicate originals of the CHANGE ORDER to indicate its receipt, understanding and acceptance of it. Execution by CLIENT, one duplicate original will be returned to CONTRACTOR.
- I-2.28.3 Should the Parties agree to the terms and conditions, including but not limited the Price, and Method of payment, the change shall be made.

### **I-3.0 SCOPE OF WORKS**

The equipment listed are proposals only for this operation and do not constitute a commitment by CLIENT to rental or purchase all item. The actual quantities and equipment to be supplied will be detailed in a "Call-out" instruction issued by CLIENT.

The WORKS is defined and described by, but not necessarily limited to any or all of the following:

#### **I-3.1 Equipment and Personnel**

I-3.1.1 CONTRACTOR shall provide and deliver a well maintained and in good operating condition of equipment as listed in APPENDIX II-1 of EXHIBIT II or elsewhere in the Published Price List, to Mobilization Site upon request by CLIENT.

CONTRACTOR is also required to provide the AI equipment/tools for CLIENT's considering to use during drilling operations (such as I-Trak advisory drilling tools or others equivalent tools) for improving safety and reducing risks

I-3.1.2 CONTRACTOR shall be responsible for the installation, maintenance, inspection, repair or replacement and removal of CONTRACTOR Equipment furnished pursuant to this CONTRACT. CONTRACTOR shall at all times maintain adequate facilities, equipment, supplies and spare parts to ensure that CONTRACTOR Equipment is in good working condition at all times.

I-3.2.3 CONTRACTOR shall maintain sufficient spares and tools at the Work Site to cope with any failure of CONTRACTOR Equipment. The list of spares must be submitted to CLIENT Representative prior to spud the first well and shall be updated as spares are utilized.

- I-3.1.4 CONTRACTOR shall furnish the inspection reports/ certificates of CONTRACTOR Equipment upon request by CLIENT before delivering to Mobilization Site.
- I-3.1.5 CONTRACTOR shall provide adequate number of highly competent personnel as specified in **EXHIBIT V** for the performance of the WORKS at the Work Site.
- I-3.1.6 Upon completion of WORKS, CONTRACTOR Personnel shall make ready all CONTRACTOR Equipment for offloading onto the supply vessel(s).
- I-3.1.7 CONTRACTOR shall be responsible for the removal of CONTRACTOR Equipment from the designated Demobilization Site. Rental shall cease when CONTRACTOR Equipment reaches the Demobilization Site.
- I-3.1.8 CLIENT shall not, without CONTRACTOR's consent, authorize any person other than CONTRACTOR Personnel to operate CONTRACTOR Equipment, except in an emergency, in which case, CLIENT may utilize CONTRACTOR Equipment in an appropriate manner.
- I-3.1.9 CONTRACTOR shall prepare and submit a copy of monthly equipment report to CLIENT, listing the inventory and status 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.
- I-3.1.10 CONTRACTOR shall prepare Equipment Rental Report (ERR) as shown in **APPENDIX X-4**, 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.
- I-3.1.11 CONTRACTOR shall maintain an inventory of available stock of Products onboard the rig. CONTRACTOR shall furnish CLIENT's Representative with a clean, legible copy of the Monthly Inventory Report and make the necessary arrangement for shipment of Products to ensure efficient operation.
- I-3.1.12 CONTRACTOR shall prepare and submit four (4) hard copies plus one (1) soft copy of an end-of-well report for survey within four (4) weeks after completion of each well for free of charge to CLIENT.
- I-3.2.13 CONTRACTOR shall provide lubricants, paint, solvents, etc. for CONTRACTOR Equipment. CLIENT shall provide the diesel fuel for CONTRACTOR Equipment.

### **I-3.2 Services and Technical Support**

I-3.2.1 CONTRACTOR shall use CONTRACTOR Equipment and CONTRACTOR Personnel as described in **APPENDIX II-1** to perform the WORKS in accordance with CLIENT requirements.

CONTRACTOR is also use AI equipment/ tools to use during drilling operations in case CLIENT's requirement for improving safety and reducing drilling risks.

I-3.2.2 The WORKS required by CLIENT in the performance of this CONTRACT shall be, but are not limited, to perform complete Directional Drilling, Measurement While Drilling, Logging While Drilling, Rotary Steerable System and Borehole Survey Services.

I-3.2.3 CONTRACTOR shall provide suitable Motors, RSS, MWD, LWD, bore hole survey equipment and related tool for directional drilling of hole sizes: 26", 16", 12 ¼", 8 ½" and 6" (optional).

I-3.2.4 CONTRACTOR should monitor down hole shock and vibration in Real-time and inform CLIENT's representative immediately if down hole shock and/or vibration occurs. There will no additional cost to CLIENT for monitoring shock and vibration.

I-3.2.5 All radioactive source components must be designed to be retrievable by wireline.

I-3.2.6 CONTRACTOR shall also perform any other related services normally provided by CONTRACTOR within CONTRACTOR's capabilities, which CLIENT may reasonably request.

I-3.2.7 CLIENT will be responsible for transportation of CONTRACTOR Equipment from designated Mobilization Site to Work Site and vice-versa.

### **I-4.0 WORK ORDER REQUEST**

Work Order Request applicable for requesting additional Equipment/ Materials/ Services to be furnished pursuant to this CONTRACT but the rates have not been specified in **EXHIBIT IV – CONTRACT PRICE, PRICE LIST AND DEPRECIATION SCHEDULE**.

Any request for Equipment/ Materials/ Services under Work Order Request category shall within the scope of this CONTRACT and shall be made in writing using WORK ORDER REQUEST format shown in **APPENDIX X-6**.

The Work Order Request shall state the scope of each "Equipment/ Materials/ Services", Work Site, commencement date, applicable rates, reimbursable cost to CONTRACTOR by CLIENT and other details with respect to the Work Order Request and should there be a conflict, the CONTRACT shall prevail.

#### **I-5.0 CONTRACTOR Work Performance Evaluation**

CLIENT shall continuously evaluate the work performance of CONTRACTOR pursuant to the requirement of the CONTRACT throughout the term of the CONTRACT.

**TECHNICAL SPECIFICATION FOR PROVISION OF DD/MWD/LWD SERVICES  
FOR DHN DEVELOPMENT WELLS, BLOCK 05.1a, OFFSHORE VIETNAM**

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal	Criteria			Evaluation Category
						GREEN	YELLOW	RED	
<b>I</b>	<b>Equipment list for Normal Temperature</b>								
<b>1.1</b>	<b>Mud Motors</b>								
<b>1.1.1</b>	<b>9 1/2" or 9 5/8" OD Mud Motor standard</b>	each	3	<b>Required</b>					<b>Major</b>
	Manufactures name /model			Specify					
	Bent housing type			Surface Adjustable BUR 0-8 degrees / 30m					
	Size: OD	inch		9 1/2" or 9 5/8"					
	Stages / Lobes			4/5:6					
	Temperature rate	Deg C		125					
	Maximum torque	ft.lbs		10,000					
	Flow rate range	gpm		600-1100					
	LCM limit			Specify max grain size & ppb					
	Minimum hour before servicing	hrs		150					
<b>1.1.2</b>	<b>9 1/2" or 9 5/8" OD Mud Motor Extended Power</b>	each	3	<b>Required</b>					<b>Major</b>
	Manufactures name /model								
	Type			Extended Power Section PDM, Low Speed High Torque					
	Bent housing type			Surface Adjustable BUR 0-5 degrees / 30m					
	Size: OD	inch		9 1/2" or 9 5/8"					
	Stages / Lobes			4/5:6					
	Temperature rate	Deg C		125					
	Maximum torque	ft.lbs		10,000					
	Flow rate range	gpm		600-1100					
	LCM limit			Specify max grain size & ppb					
	Minimum hour before servicing	hrs		150					
<b>1.1.3</b>	<b>8" OD Mud Motor Extended Power</b>	each	2	<b>Optional</b>					<b>Minor</b>
	Manufactures name / model								
	Type			Extended Power Section PDM, Low Speed High Torque					
	Bent housing type			Surface Adjustable BUR 0-8 degrees / 30m					
	Size: OD	inch		8" or 8 1/2"					
	Stages / Lobes			7:08					
	Temperature rate	Deg C		150					
	Maximum torque	ft.lbs		7,500					
	Flow rate range	gpm		600-1100					
	Bit speed range , min / max	rpm		90 - 200					
	Maximum operational wob	lbs		35,000					
	LCM limit			Specify max grain size & ppb					
	Minimum hour before servicing	hrs		150					
<b>1.1.4</b>	<b>6 3/4" or 7" OD Mud Motor Extended Power</b>	each	3	<b>Required</b>					<b>Major</b>
	Manufactures name /model								
	Type			Extended Power Section PDM, Low Speed High Torque					
	Bent housing type			Surface Adjustable BUR 0-8 degrees / 30m					
	Size: OD	inch		6 3/4" or 7"					
	Stages / Lobes			6/7:8					
	Temperature rate	Deg C		150					
	Maximum torque	ft.lbs		7,500					
	Flow rate range	gpm		200-650					
	LCM limit			Specify max grain size & ppb					
	Minimum hour before servicing	hrs		150					
<b>1.1.5</b>	<b>4 3/4" OD Mud Motor Extended Power</b>	each	2	<b>Optional</b>					<b>Minor</b>
	Manufactures name /mODEl			Specify					
	Type			Extended Power Section PDM, Low Speed High Torque					
	Bent housing type			Surface Adjustable BUR 0-8 degrees / 30m					
	Size: OD			4 1/2" or 4 3/4"					
	Stages / Lobes			3/7:8					
	Maximum torque	ft.lbs		2,500					
	Flow rate range	gpm		100-300					
	Bit speed range , min / max	rpm		100 - 250					
	Maximum operational wob	lbs		12,000					
	LCM limit			Specify max grain size & ppb					
	Minimum hour before servicing	hrs		150					
<b>1.2</b>	<b>Rotary Steerable System (RSS)</b>								
<b>1.2.1</b>	<b>16" Hole RSS</b>	each	3	<b>Required</b>					<b>Major</b>
	Manufactures name /model								
	Norminal size (OD)	inch		8 1/4 - 9 1/2"					
	Maximum tool rotation	rpm		220					
	Expected BUR	deg/30m		5					
	Flow Rate Range	gpm		600-1100					
	Other design features			Specified by Bidder					
<b>1.2.2</b>	<b>12 1/4" Hole RSS</b>	each	3	<b>Required</b>					<b>Major</b>
	Manufactures name /model								
	Norminal size (OD)	inch		8 1/4 - 9 1/2"					
	Maximum tool rotation	rpm		220					
	Expected BUR	deg/30m		5					
	Flow rate range	gpm		600-1100					
	Other design features			Specified by Bidder					
<b>1.2.3</b>	<b>8 1/2" Hole RSS</b>	each	3	<b>Required</b>					<b>Major</b>
	Manufactures name								

**TECHNICAL SPECIFICATION FOR PROVISION OF DD/MWD/LWD SERVICES  
FOR DHN DEVELOPMENT WELLS, BLOCK 05.1a, OFFSHORE VIETNAM**

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal	Criteria			Evaluation Category
						GREEN	YELLOW	RED	
	Model			State whether offering latest generation tools.					
	Normal size (OD)	inch		6 3/4					
	Expected BUR	/30m		5 deg / 30m					
	Flow rate range	gpm		200-650					
	Maximum operating torque	ft/lbs		5,000					
	LCM limit			Specify max grain size & ppb					
	Other design features			Specified by Bidder					
1.3	Bore hole survey equipment								
1.3.1	Electronic gyro tool c/w running gear	set	2	Required					Minor
	Manufacturer's name / type								
	Pressure rating	psi		10,000					
	Static temperature rate	Deg C		150					
1.3.2	Electronic magnetic survey tool c/w running gear	set	3	Required					Minor
	Manufacturer's name /type								
	Measure method			Specify					
	Pressure rating	psi		10,000					
	Static temperature rate	Deg C		150					
1.3.3	Vertical inclination indicator	set	3	Required					Minor
	Manufacture name and type								
	For drill collar size	inch		6 3/4, 8, 8 1/2, 9					
	Surface reading method			Pump pressure pulse					
	Inclination reading range/ increment	Deg		0-2.5/0.25					
	Minimum flow rate	gpm		300					
	Operating temperature	Deg C		150					
1.3.4	Magnetic Single Shot (MSS) c/w running gear and spares	set	3	Required					Minor
	Manufacturer's name								
	Reading disk range	Deg		0-10					
	Maximum setting time	min		60					
	Operating temperature	Deg C		150					
1.3.5	Magnetic Multishot (MMS) c/w running gear and spares	set	3	Required					Minor
	Manufacturer's name								
	Reading disk range	Deg		0-60					
	Maximum preset time interval	min		5					
	Operating temperature	Deg C		150					
1.3.6	Gyro while drilling for 26" hole	set	2	Required (Bidder to specify)					Major
1.4	Measurement / logging while drilling (MWD / LWD)								
1.4.1	9 1/2" or 8 1/4" Directional MWD tool	Each	3	Required					Major
	Manufacturers name /mODEl /type								
	Power source			Generator or battery					
	Size: OD x length			8 1/4" or 9 1/2"					
	Performance data of tool			Specify: Pressure drop, Pressure rating, Power source, time capacity, Transition type, etc.)					
	Flow rate range	Gpm		600-1100					
	Max temperature	Deg c		150					
	LCM limit			Specify max grain size & ppb					
1.4.2	6 3/4" Directional MWD tool	Each	3	Required					Major
	Manufacturers name /mODEl /type								
	Size: OD			6 3/4" or 6 1/2"					
	Performance data of tool			Specify: Pressure drop, Pressure rating, Power source, time capacity, Transition type, etc.)					
	Flow rate range	gpm		200-650					
	Max temperature	Deg C		150					
	LCM limit			Specify max grain size & ppb					
1.4.3	4 3/4" Directional MWD tool	each	2	Optional					Minor
	Manufacturers name /type								
	Power source			Specify					
	Size: OD			4 3/4" or 4 1/2"					
	Performance data of tool			Specify: Pressure drop, Pressure rating, Power source, time capacity, Transition type, etc.)					
	Flow rate range	gpm		100-300					
	Max temperature	Deg C		150					
	LCM limit			Specify max grain size & ppb					
1.4.4	9 1/2" or 8 1/4" Directional & Gamma Ray MWD tool	each	3	Required					Major
	Manufacturers name /mODEl / type								
	Power source			Generator or battery					
	Size: OD			9 1/2" or 8 1/4"					
	Performance data of tool			Specify: Pressure drop, Pressure rating, Power source, time capacity, Transition type, etc.)					
	Flow rate range	gpm		600-1100					
	Max temperature	Deg C		150					
	LCM limit			Specify max grain size & ppb					
1.4.5	6 3/4" Directional & Gamma Ray MWD tool	each	3	Required					Major
	Manufacturers name/mODEl/type								

**TECHNICAL SPECIFICATION FOR PROVISION OF DD/MWD/LWD SERVICES  
FOR DHN DEVELOPMENT WELLS, BLOCK 05.1a, OFFSHORE VIETNAM**

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal	Criteria			Evaluation Category
						GREEN	YELLOW	RED	
	Size: OD			6 3/4" or 6 1/2"					
	Performance data of tool			Specify: Pressure drop, Pressure rating, Power source, time capacity, Transition type, etc.)					
	Flow rate range	gpm		200-650					
	Max temperature	Deg C		150					
	LCM limit			Specify max grain size & ppb					
1.4.6	4 3/4" Directional & Gamma Ray MWD tool	each	2	Optional					Minor
	Manufacturers name/mODEl/type			Specify					
	Power source			Specify					
	Size: OD			4 3/4" or 4 1/2"					
	Performance data of tool			Specify: Pressure drop, Pressure rating, Power source, time capacity, Transition type, etc.)					
	Flow rate range	gpm		100-300					
	Max temperature	Deg C		150					
	LCM limit			Specify max grain size & ppb					
1.4.7	9 1/2" or 8 1/4" Resistivity gamma LWD	each	3	Required					Major
	Manufacturers name/type/model			Specify					
	Power source			Specify					
	Size: OD			9 1/2" or 8 1/4"					
	Performance data of tool			Specify: Pressure drop, pressure rating, power type and capacity, transition type and rate..etc					
	Flow rate range	gpm		600 - 1100					
	Max temperature	Deg C		150					
	Pressure rating	psi		10,000					
	LCM limit			Specify max grain size & ppb					
<b>A</b>	<b>Gamma Ray</b>								
	Range			0-200 API					
	Accuracy			+/- 3 API @ 100 API and ROP= 60 ft/hr (18.3mhr)					
	Resolution			8" (Vertical)					
<b>B</b>	<b>Resistivity</b>								
	2 MHZ Resistivityphase difference								
	Range			0.2-2,000 ohm-m					
	Accuracy			+/-0.85% (0.1-50 ohm-m) +/- 0.4 ohm/m (>50 ohm-m)					
	Resolution			12" for 90% response in conductive beds					
<b>C</b>	<b>2 MHZ Resistivity attenuation</b>								
	Range			0.1-500 ohm-m					
	Accuracy			+/- 2% (0.1-25ohm-m) +/- 0.85 ohm-m (>25ohm-m)					
	Resolution			12" for 90% response in conductive beds					
<b>D</b>	<b>400 KHZ Resistivity phase difference</b>								
	Range			0.7-1000 ohm-m					
	Accuracy			+/-0.85% (0.1-25 ohm-m) +/- 0.4 ohm/m (>25 ohm-m)					
	Resolution			12" for 90% response in conductive beds					
<b>E</b>	<b>400 KHZ Resistivity attenuation</b>								
	Range			0.1-200 ohm-m					
	Accuracy			+/-4% (0.1-10 ohm-m) +/- 4.0 ohm/m (>10 ohm-m)					
	Resolution			12" for 90% response in conductive beds					
1.4.8	6 3/4" Resistivity gamma LWD	each	3	Required					Major
	Manufacturers name, type,model			Specify					
	Power source			Specify					
	SIZE: OD x Length			6 3/4" x range 2					
	Connection (Up x Down)			4 1/2"IF BOX x PIN					
	Performance data of tool			As API standard					
	Flow rate range	gpm		200-650					
	Max wob	lbs		45000					
	Max temperature	Deg C		150					
	Pressure rating	psi		10000					
	LCM limit			Specify max grain size & ppb					
	Sensor specifications			As API standard					
<b>A</b>	<b>Gamma Ray</b>								
	Range			0-200 API					
	Accuracy			+/- 3 API @ 100 API and ROP= 60 ft/hr (18.3mhr)					
	Resolution			8" (Vertical)					
<b>B</b>	<b>Resistivity</b>								
	2 MHZ Resistivity phase difference								
	Range			01.-2000 ohm-m					
	Accuracy			+/-0.85% (0.1-50 ohm-m) +/- 0.4 ohm/m (>50 ohm-m)					
	Resolution			12" for 90% response in conductive beds					
<b>C</b>	<b>2 MHZ Resistivity attenuation</b>								
	Range			0.1-500 ohm-m					
	Accuracy			+/- 1.75% (0.1-25ohm-m) +/- 0.85 ohm-m (>25ohm-m)					
	Resolution			12" for 90% response in conductive beds					

**TECHNICAL SPECIFICATION FOR PROVISION OF DD/MWD/LWD SERVICES  
FOR DHN DEVELOPMENT WELLS, BLOCK 05.1a, OFFSHORE VIETNAM**

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal	Criteria			Evaluation Category
						GREEN	YELLOW	RED	
D	400 KHZ Resistivity phase difference								
	Range			0.7-1000 ohm-m					
	Accuracy			+/-0.85% (0.1-25 ohm-m) +/- 0.4 ohm/m (>25 ohm-m)					
E	400 KHZ Resistivity attenuation								
	Range			0.1-200 ohm-m					
	Accuracy			+/-4% (0.1-10 ohm-m) +/- 4.0 ohm/m (>10 ohm-m)					
1.4.9	4 3/4" Resistivity gamma LWD	each	2	Optional					Minor
	Manufacturers name, model /type								
	Power source			Specify					
A	SIZE: OD x Length			4 3/4" x range 2					
	Connection			4 1/2" IF BOX X PIN					
	Performance data of tool			As API standard					
	Max temperature	Deg C		150					
	Pressure rating	psi		10000					
	LCM limit			Specify max grain size & ppb					
	Sensor specifications			Specify					
	Gamma Ray								
	Range			0-500 API					
	Accuracy			+/- 2.5 API @ 100 API and ROP= 60 ft/hr (18.3mhr)					
B	Resistivity								
	2 MHZ Resistivity phase difference								
	Range			01-2000 ohm-m					
C	Accuracy			+/-0.85% (0.1-50 ohm-m) +/- 0.4 ohm/m (>50 ohm-m)					
	Resolution			12" for 90% response in conductive beds					
	2 MHZ Resistivity attenuation								
D	Range			0.1-500 ohm-m					
	Accuracy			+/- 1.75% (0.1-25ohm-m) +/- 0.85 ohm-m (>25ohm-m)					
	Resolution			12" for 90% response in conductive beds					
E	400 KHZ Resistivity phase difference								
	Range			0.7-1000 ohm-m					
	Accuracy			+/-0.85% (0.1-25 ohm-m) +/- 0.4 ohm/m (>25 ohm-m)					
1.4.10	400 KHZ Resistivity attenuation								
	Range			0.1-200 ohm-m					
	Accuracy			+/-4% (0.1-10 ohm-m) +/- 4.0 ohm/m (>10 ohm-m)					
A	Resolution			12" (30cm) for 90% response in conductive beds					
	9 1/2" or 8 1/4" Dir / Gamma/ Resistivity/ Density / Porosity/ Neutron LWD	each	3	Required					Major
	Manufacturers name/ model /type								
1.4.11	Power source			Specify					
	SIZE: OD x Length			8 1/4" or 9 1/2"					
	Connection			specify					
	Performance data of tool			As API standard					
	Flow rate range	gpm		600 - 1100					
	Max temperature	Deg C		150					
	Pressure rating	psi		10000					
	LCM limit			Specify max grain size & ppb					
	Sensor specifications			Specify					
	Density								
A	Range			1.6 - 3.1 g/cc					
	Accuracy			+/- 0.0015 g/cc @ 2.5 g/cc					
	Statistical repeatability			+/- 0.015 G/CC @ 200 ft/hr (60m/hr) (2.5 g/cc)					
B	Vertical resolution			8" (203mm) short spacing					
	Photo electric factor			16" (406mm) full resolution, pb					
	Range			1-10 barnes / electron (b/e)					
A	Accuracy			+/- 0.25 B/e from 2-6 b/e					

**TECHNICAL SPECIFICATION FOR PROVISION OF DD/MWD/LWD SERVICES  
FOR DHN DEVELOPMENT WELLS, BLOCK 05.1a, OFFSHORE VIETNAM**

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal	Criteria			Evaluation Category
						GREEN	YELLOW	RED	
C	Statistical repeatability			+/- 0.25 B/e @ 200 ft/hr (60m/hr)					
	Vertical resolution			8" (203mm) full resolution					
	Neutron								
	Range			1-100 pu					
	Accuracy			+/- 0.5 pu below 10 pu					
	Statistical repeatability			+/- 0.6 pu @ 20 pu Limestone @ 200 ft/hr (60m/hr)					
	Vertical resolution			19" (490mm)					
	Caliper								
	Range			0.0 – 2.0"					
	Accuracy			+/- 10%					
D	Statistical repeatability			NA					
	Vertical resolution			1/4"					
	Azimuth - TF								
	Range			0-360 degrees					
E	Accuracy			+/- 5.0 degrees					
	Statistical repeatability			NA					
	Vertical resolution			+/- 1.5					
	Statistical repeatability			NA					
1.4.12	4 3/4" Dir / Gamma/ Resistivity/ Density /Porosity/ Neutron LWD	each	2	Optional					Minor
A	Manufacturer's name /model /type			Specify					
	Power source			Specify					
	size: OD x length			4 3/4"					
	connection (up x down)			4 1/2" IF Box x Pin					
	Performance data of tool			As API standard					
	Flow rate range	gpm		100-300					
	Max temperature	Deg C		150					
	Pressure rating	psi		10000					
	LCM limit			Specify max grain size & ppb					
	Sensor specifications			Specify					
B	Density								
	Range			1.6 – 3.1 g/cc					
	Accuracy			+/- 0.0015 g/cc @ 2.5 g/cc					
	Statistical repeatability			+/- 0.015 G/CC @ 200 ft/hr (60m/hr) (2.5 g/cc)					
C	Vertical resolution			8" (203mm) short spacing					
	Vertical resolution			16" (406mm) full resolution, pb					
D	Photo electric factor								
	Range			1-10 barnes / electron (b/e)					
	Accuracy			+/- 0.25 B/e from 2-6 b/e					
E	Statistical repeatability			+/- 0.25 B/e @ 200 ft/hr (60m/hr)					
	Vertical resolution			8" (203mm) full resolution					
	Neutron								
	Range			1-100 pu					
F	Accuracy			+/- 0.5 pu below 10 pu					
	Statistical repeatability			+/- 0.6 pu @ 20 pu Limestone @ 200 ft/hr (60m/hr)					
	Vertical resolution			19" (490mm)					
	Caliper								
G	Range			0.0 – 26"					
	Accuracy			+/- 10%					
	Statistical repeatability			NA					
	Vertical resolution			1/4"					
H	Azimuth - TF								
	Range			0-360 degrees					
	Accuracy			+/- 5.0 degrees					
	Statistical repeatability			NA					
I	Vertical resolution			+/- 1.5					
	Statistical repeatability			NA					
	Vertical resolution			+/- 1.5					
	Statistical repeatability			NA					
1.4.13	8" OD Sonic LWD tool	each	2	Optional					Minor
A	Manufacturer's name, model & type			Collar-type					
	Size : OD (inch), length (meter)			8" OD					
	Connection			6-5/8" REG					
	Main performance data of tool			(Specify: Pressure Drop, Pressure Rating, Power Source, Time Capacity, Transmission type, Flow Rate range etc.)					
	LCM limit			(Specify max grain size & ppb)					
	Static temperature rating			150 degC (normal temp application)					
	Measurement provided			Bore hole compensated sonic; real-time monopole compressional and shear data; real-time slowness-time-coherence projection					
	Tool dimension			Provide OD, ID and Rotary Catch fishing diagram					
	Other			Spec Sheet					
	B	Manufacturer's name, model & type			Collar-type				
Size : OD (inch), length (meter)				6-3/4" OD					
Connection				4-1/2" IF					
Main performance data of tool				(Specify: Pressure Drop, Pressure Rating, Power Source, Time Capacity, Transmission type, Flow Rate range etc.)					
C	LCM limit			(Specify max grain size & ppb)					
	Static temperature rating			150 degC (normal temp application)					

**TECHNICAL SPECIFICATION FOR PROVISION OF DD/MWD/LWD SERVICES  
FOR DHN DEVELOPMENT WELLS, BLOCK 05.1a, OFFSHORE VIETNAM**

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal	Criteria			Evaluation Category
						GREEN	YELLOW	RED	
	Measurement provided			bore hole compensated sonic; real-time monopole compressional and shear data; real-time slowness-time-coherence projection, stonely wave process with chevron pattern & tezuka model					
	Tool dimension			Provide OD, ID and Rotary Catch fishing diagram Spec Sheet					
	Other			specify ROP of tripping in for 1 & 2 data point per foot (in memory mode)					
1.4.15	4-3/4" OD Sonic LWD tool	each	2	Optional					Minor
	Manufacturer's name, model & type			Collar-type					
	Size : OD (inch), length (meter)			4-3/4" OD					
	Connection			3-1/2" IF					
	Main performance data of tool			(Specify: Pressure Drop, Pressure Rating, Power Source, Time Capacity, Transmission type, Flow Rate range etc.)					
	LCM limit			(Specify max grain size & ppb)					
	Static temperature rating			150 degC (normal temp application)					
	Measurement provided			bore hole compensated sonic; real-time monopole compressional and shear data; real-time slowness-time-coherence projection, recorded multipole; stonely wave process with chevron pattern & tezuka model					
	Tool dimension			Provide OD, ID and Rotary Catch fishing diagram Spec Sheet					
	Other			specify ROP of tripping in for 1 & 2 data point per foot (in memory mode)					
1.5	<b>Drilling tools</b>								
1.5.1	<b>Spiral String Stabilizer</b>								
1.5.1.1	Spiral String Stabilizer for 26" hole	each	3	Required					Major
	Manufacturer name			Specify					
	Fishing neck, OD/length (Sufficient quantity for Directional control)								
1.5.1.2	Spiral String Stabilizer for 16" hole	each	3	Required					Major
	Manufacturer name			Specify					
	Fishing neck, OD/length (Sufficient quantity for Directional control)			Range from 17 1/2" to 15"					
1.5.1.3	Spiral String Stabilizer for 12 1/4" hole	each	3	Required					Major
	Manufacturer name			Specify					
	Fishing neck, OD/length (Sufficient quantity for Directional control)			Range from 12 1/4" to 11"					
1.5.1.4	Spiral String Stabilizer for 8 1/2" hole	each	3	Required					Major
	Manufacturer name			Specify					
	Fishing neck, OD/length (Sufficient quantity for Directional control)			Range from 8 1/2" to 7 1/2"					
1.5.1.5	Spiral String Stabilizer for 6" hole	each	2	Optional					Minor
	Manufacturer name			Specify					
	Fishing neck, OD/length (Sufficient quantity for Directional control)			Range from 6" to 5 1/2"					
1.5.2	<b>Adjustable Stabilizer</b>								
1.5.2.1	Adjustable stabilizer for 12 1/4" hole	each	2	Optional					Minor
	Manufacturer's name								
	Static temperature	Deg C		150					
1.5.2.2	Adjustable Stabilizer for 8 1/2" hole	each	2	Optional					Minor
	Manufacturer's name								
	Static temperature	Deg C		150					
1.5.3	<b>Non-Magnetic drill-collar</b>								
1.5.3.1	8 1/2" Non Magnetic DC	each	3	Required					Major
	Manufacturer's name								
	OD	inch		8" or 8 1/2"					
1.5.3.2	8 1/2" Pony Non Magnetic DC	each	3	Required					Major
	Manufacturer's name								
	OD	inch		8" or 8 1/2"					
1.5.3.3	6 1/2" Non Magnetic DC	each	3	Required					Major
	Manufacturer's name								
	OD	inch		6 1/2" or 6 3/4"					
1.5.3.4	6 1/2" Pony - Non Magnetic DC	each	3	Required					Major

**TECHNICAL SPECIFICATION FOR PROVISION OF DD/MWD/LWD SERVICES  
FOR DHN DEVELOPMENT WELLS, BLOCK 05.1a, OFFSHORE VIETNAM**

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal	Criteria			Evaluation Category
						GREEN	YELLOW	RED	
	Manufacturer's name								
	OD	inch		6 1/2" or 6 3/4"					
1.5.3.5	4 1/2" Non Magnetic DC	each	2	Optional					Minor
	Manufacturer's name								
	OD	inch		4 1/2" or 4 3/4"					
1.5.3.6	4 1/2" Pony - Non Magnetic DC	each	2	Optional					Minor
	Manufacturer's name								
	OD	inch		4 1/2" or 4 3/4"					
1.5.4	Float Valve and float sub	set	3	Required					Major
	Manufacturer name								
	Model/type			Plunger type					
	Spare kit			sufficient at work site					
1.5.5	Spiral near bit stabilizer								
1.5.5.1	Spiral near bit stabilizer for 26" hole	each	3	Required					Minor
	Manufacturer name								
	Fishing neck, OD/length			Specify					
	(Sufficient quantity for Directional control)								
1.5.5.2	Spiral near bit stabilizer for 16" hole	each	3	Required					Minor
	Manufacturer name								
	Fishing neck, OD/length			Specify					
	Sizes			Range from 17 1/2" to 15"					
	(Sufficient quantity for Directional control)								
1.5.5.3	Spiral string stabilizer for 12 1/4" hole	each	3	Required					Minor
	Manufacturer name								
	Fishing neck, OD/length			Specify					
	Sizes			Range from 12 1/4" to 11"					
	(Sufficient quantity for Directional control)								
1.5.5.4	Spiral near bit stabilizer for 8 1/2" hole	each	3	Required					Minor
	Manufacturer name								
	Fishing neck, OD/length			Specify					
	Sizes			Range from 8 1/2" to 7 1/2"					
	(Sufficient quantity for Directional control)								
1.5.5.5	Spiral near bit stabilizer for 6" hole	each	2	Optional					Minor
	Manufacturer name								
	Fishing neck, OD/length			Specify					
	Sizes			Range from 6" to 5 1/2"					
	(Sufficient quantity for Directional control)								
1.5.6	Down hole filter sub								
1.5.6.1	9 1/2" down hole filter sub	each	3	As required					Major
1.5.6.2	8" or 8 1/4" down hole filter sub	each	3	As required					Major
1.5.6.3	6 3/4" down hole filter sub	each	3	As required					Major
1.5.6.4	4 3/4" down hole filter sub	each	2	Optional					Minor
1.5.6.5	Float valve and float sub	each	3	As required					Minor
1.5.7	Accessories								Minor
	Required cross-over sub for making up the Bidder's tools to bha	set	2	For connections: 3 1/2" IF, 4 1/2" IF, 6 5/8" reg, 7 5/8" Reg					
	Required nmde cross-over sub for making up the Bidder's tools to bha	set	2	For connections: 3 1/2" IF, 4 1/2" IF, 6 5/8" reg, 7 5/8" Reg					
1.5.8	Surface MWD/LWD cabin	set	1	Required					Major
	Wellsite information system to control, receive, monitor, interpret all jsurface and down hole real time data and convert to visual display			Certified and positive pressurization for hazardous area					
	Size (w - l - h)	m		Specify					
1.6	LWD Pressure/Sampling testing service								
1.6.1	8" LWD Pressure/Sampling test	Set	2	Optional					Minor
	Manufacturers name/type/model			Specify					
	Power source			Specify					
	Size: OD			8" or 8 1/4"					
	Hole size range			12 1/4" to 17 1/2"					
	Tool connection			Standard Box Up x Pin Down					
	Max temperature			150 DegC					
	LCM/sand content limit			Specify max grain size & ppb					
	Max dog leg per 30m			Specify					
	Flow rate range			800 - 1150 gpm					
	Max operating torque at bit			30,000 ft-lbs					
	Max drilling torque at bit to failure			70,000 ft-lbs					
	Max WOB			54 kibs					
	Max bending moment			55,000 ft-lbs					
	Sensor pressure range			0 - 20,000 psi					
	Sensor resolution			0.02 psi					
	Accuracy			0.02%					
	Realtime resolution			0.05 psi					
	DD pressure			Up to 3,000 psi					
	DD rate			Up to 10cc/s					
	DD volume			Up to 30cc					
	Mobility range			0.01 - 10,000 mD/cP					
	Mobility accuracy			5%					

**TECHNICAL SPECIFICATION FOR PROVISION OF DD/MWD/LWD SERVICES  
FOR DHN DEVELOPMENT WELLS, BLOCK 05.1a, OFFSHORE VIETNAM**

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal	Criteria			Evaluation Category
						GREEN	YELLOW	RED	
	Sampling								
	Sample tank			DOT certify					
	Number of tank in 1 trip			At least 4 tanks					
	Tank volume			Up to 500cc per tank					
1.6.2	6 3/4" LWD Pressure/Sampling test	Set	2	Optional					Minor
	Manufacturers name/type/model			Specify					
	Power source			Specify					
	Size: OD			6 1/2" or 6 3/4"					
	Hole size range			8 1/2" to 9 7/8"					
	Tool connection			Standard Box Up x Pin Down					
	Max temperature			150 DegC					
	LCM/sand content limit			Specify max grain size & ppb					
	Max dog leg per 30m			Specify					
	Flow rate range			200- 650 gpm					
	Max operating torque at bit			20,000 ft-lbs					
	Max drilling torque at bit to failure			40,000 ft-lbs					
	Max WOB			54 klbs					
	Max bending moment			40,000 ft-lbs					
	Sensor pressure range			0 - 20,000 psi					
	Sensor resolution			0.02 psi					
	Accuracy			0.02%					
	Realtime resolution			0.05 psi					
	DD pressure			Up to 3,000 psi					
	DD rate			Up to 10cc/s					
	DD volume			Up to 30cc					
	Mobility range			0.01 - 10,000 mD/cP					
	Mobility accuracy			5%					
	Sampling								
	Sample tank			DOT certify					
	Number of tank in 1 trip			At least 4 tanks					
	Tank volume			Up to 500cc per tank					
1.6.3	4 3/4" LWD Pressure/Sampling test	Set	2	Optional					Minor
	Manufacturers name/type/model			Specify					
	Power source			Specify					
	Size: OD			4 1/2" or 4 3/4"					
	Hole size range			5 3/4" to 7 1/2"					
	Tool connection			Standard Box Up x Pin Down					
	Max temperature			150 DegC					
	LCM/sand content limit			Specify max grain size & ppb					
	Max dog leg per 30m			Specify					
	Flow rate range			100-300 gpm					
	Max operating torque at bit			8,000 ft-lbs					
	Max drilling torque at bit to failure			20,000 ft-lbs					
	Max WOB			20 klbs					
	Max bending moment			14,000 ft-lbs					
	Sensor pressure range			0 - 20,000 psi					
	Sensor resolution			0.02 psi					
	Accuracy			0.02%					
	Realtime resolution			0.05 psi					
	DD pressure			Up to 3,000 psi					
	DD rate			Up to 10cc/s					
	DD volume			Up to 20cc					
	Mobility range			0.01 - 10,000 mD/cP					
	Mobility accuracy			5%					
	Sampling								
	Sample tank			DOT certify					
	Number of tank in 1 trip			At least 4 tanks					
	Tank volume			Up to 500cc per tank					
1.7	Near-Bit Gamma Ray								
1.7.1	Near-Bit Gamma Ray For 12 1/4" Hole Section	each	3	Required					Minor
	A. Manufacturer's Name Model & Type			Compatible with Point the bit system					
	B. Size: OD (Inch), Length (in / mtr)			6 5/8" Reg					
	C. Connection			600-1100					
	D. Flow Rate	gpm							
	E. Surface RPM	rpm							
	F. Static Temperature Rating	Deg C		150					
	G. Measurement Provided			Near-bit continuous Inclination & Azimuthal GR + Real-Time Link & Update					
	H. Mechanism			Real-Time Update with MWD.					
	I. Dogleg Severity			Up to 6.5deg/30m					
	J. Mud			WBM/OBM/SOBM/SW/BRINE					
	K. Nearbit Inclination			Able to give realtime bit inclination					
	L. Other								
1.7.2	Near-Bit Gamma Ray for 8 1/2" Hole Section	each	3	Required					Minor
	A. Manufacturer's Name Model & Type								
	B. Size: OD (Inch), Length (in / mtr)			6 3/4"					
	C. Connection			4 1/2" IF					
	D. Flow Rate	gpm		200-650					
	E. Surface RPM	rpm		Up to 220 rpm					
	F. Static Temperature Rating	Deg C		150					
	G. Measurement Provided			Near-bit continuous Inclination & Azimuthal GR + Real-Time Link & Update					
	H. Mechanism			Real-Time Update with MWD.					
	I. Dogleg Severity			Up to 10deg/30m					
	J. Mud			WBM/OBM/SOBM/SW/BRINE					

**TECHNICAL SPECIFICATION FOR PROVISION OF DD/MWD/LWD SERVICES  
FOR DHN DEVELOPMENT WELLS, BLOCK 05.1a, OFFSHORE VIETNAM**

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal	Criteria			Evaluation Category
						GREEN	YELLOW	RED	
	K. Nearbit Inclination			Able to give realtime bit inclination					
	L. Other								
1.7.3	Near-Bit Gamma Ray for 6" Hole Section	each	2	Optional					Minor
	A. Manufacturer's Name Model & Type			Specify					
	B. Size: OD (Inch), Length (inch / mtr)			4 3/4"					
	C. Connection			3 1/2" IF					
	D. Flow Rate	gpm		Up to 300 gpm (450 w/bypass)					
	E. Surface RPM	rpm		Up to 220 rpm					
	F. Static Temperature Rating	Deg C		150					
	G. Measurement Provided			Near-bit continuous Inclination & Azimuthal GR + Real-Time Link & Update					
	H. Mechanism			Real-Time Update with MWD.					
	I. Dogleg Severity			Up to 10deg/30m					
	J. Mud			WBM/OBM/SOBM/SW/BRINE					
	K. Nearbit Inclination			Able to give realtime bit inclination					
	L. Other								
1.8	Realtime Data	per well		Bidder to specify					Minor
1.9	ECD	per well		Bidder to specify					Minor
1.10	Other Equipment/Service (if any, Bidder is requested to specify the specification in details)			Bidder to specify					
II	Yung tau Operations Base and Work shop								
2.1	Ware house	each	1	In Yung tau					Major
	Location			In Yung tau					
	Requirements			Sufficient spare kit and tools ready to supply					
2.2	Work shop	each	1	In Yung tau					Major
	Location			In Yung tau					
	Requirements			Sufficient required equipment, facilities for redressing, replacing, repairing, testing of Directional, MWD, LWD and other survey tools					
III	Personnel								
3.1	Onshore Personnel								
3.1.1	Project Coordinator	Person	1	Capable to coordinate the provision of all kind of Directional drilling, survey, MWD, LWD required tools and accessories for CLIENT, consults when request, minimum 5 year experience in DD, MWD, LWD and survey services. Min 3 year experience in project coordinator position					Major
3.1.2	Warehouse/Work shop Engineer	person	1	Permanent in Bidder's base and work shop, skill on repairing, replacing, redressing, maintenance all kind of Directional drilling, survey, MWD, LWD required tools and accessories. minimum 5 year experience in DD, MWD, LWD and survey services					Major
3.2	Offshore Service Personnel								
3.2.1	Directional Driller	person	1	At least 5 years experience in Directional drilling operations					Major
3.2.2	Assistant Directional Driller	person	1	At least 3 years experience in Directional drilling operations					Major
3.2.3	MWD/LWD Engineer	person	2	At least 5 years experience, familiar with running of Density, porosity, sonic, resistivity... tools					Major
3.2.4	Gyro/Bore hole survey Specialist	person	2	At least 5 years experience in his operations					Major
3.2.5	Sampling or Pressure Specialist	person	1	At least 5 years experience in his operations					Major
IV	Delivery Lead Time			-Equipment and personnel are available at 1st October 2026. Meet 7 days in advance notice for the initial mobilization ARO and the subsequent will be on twenty-four (24) hours on a "call-out" basis.					Major
Technical Evaluation Resulted					QUALIFIED	Qualified/Disqualified			

**NOTES:**

1. Bidder's technical proposal for each criterial will be evaluated as "GREEN" when it is assessed "fully meet requirement"
2. Bidder's technical proposal for each criterial will be evaluated as "YELLOW" when it is assessed "partially meet requirement"
3. Bidder's technical proposal for each criterial 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".

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

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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
 <b><u>APPENDIX</u></b>	
II-1	EQUIPMENT SPECIFICATIONS

**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 Directional Drilling (DD), Measurement While Drilling (MWD) and Logging While Drilling (LWD), Rotary Steerable System and Borehole Survey Services.

- II-1.1 CONTRACTOR shall ensure that all CONTRACTOR Equipment delivered to the Work Site is accompanied with sufficient spare parts to maintain the Equipment in good working condition.
- II-1.2 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's requirement. All equipment is subject to CLIENT inspection prior to acceptance.
- II-1.3 CONTRACTOR will provide all applicable computing and plotting facilities and final well plots free of charge.
- II-1.4 The equipment should preferably be field proven for use in the environment to which it will be subjected. The equipment supplier should give documentation of such references including international standards (API, ISO etc.) shall be used:

API Spec. 5CT:	Casing and Tubing
API Spec. 5D:	Drill Pipe
API RP 7G	Drill stem design and operating limits
API Spec. 16A	Drill Through Equipment
NACE MR-01-75:	Sulfide Stressed cracking Resistant Materials for Oilfield Equipment

Any deviation from the above codes, standards and regulations shall be clearly defined by CONTRACTOR and agreed by CLIENT before preceding the WORKS.

**II-1.5 Reporting and marking**

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's Equipment at the Work Site and on rental to CLIENT. These reports, duly signed by the CLIENT's Representative at Work Site, shall be presented with the monthly invoice as part of the supporting document.

The CONTRACTOR shall complete Operational Reports as required below by CLIENT.

The Offshore Service Engineers shall be responsible for reporting of equipment run including:

- i) Serial number.
- ii) Production date.
- iii) Pressure rating.
- iv) Part number.
- v) Manufacturer.
- vi) Equipment description.
- vii) Equipment operating record.

In submission of the tender document(s), the Bidders are required to submit a copy of their current service report for CLIENT'S consideration.

- a) The CONTRACTOR shall compile a list of work performed during the month and be available to discuss this work at a monthly review meeting with CLIENT'S Representative(s), if necessary.
- b) The CONTRACTOR shall submit two (2) copies of the WELL recap to CLIENT'S Representative(s) within one (1) week of the completion of each well.

The WELL recap shall include, but not necessarily be limited to the information detailed hereunder.

- i) A detailed list of all equipment used,
- ii) Copies of all operations reports (including BHA, hydraulic, well strategy reports, etc.).
- iii) The CONTRACTOR'S recommendations on any technical or procedural aspect of the operation, which could be improved for future operations.

It is the responsibility of CONTRACTOR to ensure that all relevant information required fulfilling the above reporting requirements has been obtained.

- c) All CONTRACTOR equipment shall be marked and stenciled with the following:
  - i) Vendor Name.
  - ii) API product Specifications Level.
  - iii) CLIENT Purchase Order number.
  - iv) Vendor Part number.

- v) Assembly number.
  - vi) Serial number.
  - vii) Equipment size and rated working pressure and temperature.
  - viii) Date of manufacture.
  - ix) API monogram.
- d) All CONTRACTOR packing shall be stenciled with the following:
- i) Part number and brief description of equipment.
  - ii) Purchase order and Item numbers.
  - iii) Destination.
  - iv) Item number of lot number.
  - v) Weight – gross and net.
- e) CONTRACTOR shall submit with the tender document(s) a fully detailed and stack up drawings on CD-ROM and paper.
- f) CONTRACTOR shall provide CLIENT AT NO EXTRA COST with at least two courses related to the WORK, and cover:
- i) Equipment design.
  - ii) Running and maintenance procedures.

## **II-2.0 CONTRACTOR EQUIPMENT**

### **II-2.1 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-2.2 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 twenty-four (24) hours a day including holidays.

**END OF EXHIBIT**

**APPENDIX II-1**

**SPECIFICATIONS OF EQUIPMENT**

**Contractor is required to submit Mud Motor, MWD and LWD catalogue with the Bid.**

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal
<b>I</b>	<b>Equipment list for Normal Temperature</b>				
<b>1.1</b>	<b>Mud Motors</b>				
<b>1.1.1</b>	<b>9 1/2" or 9 5/8" OD Mud Motor standard</b>	each	3	<b>Required</b>	
	Manufactures name /model			Specify	
	Bent housing type			Surface Adjustable BUR 0-8 degrees / 30m	
	Size: OD	inch		9 1/2" or 9 5/8"	
	Stages / Lobes			4/5:6	
	Temperature rate	Deg C		125	
	Maximum torque	ft.lbs		10,000	
	Flow rate range	gpm		600-1100	
	LCM limit			Specify max grain size & ppb	
	Minimum hours before servicing	hrs		150	
<b>1.1.2</b>	<b>9 1/2" or 9 5/8" OD Mud Motor Extended Power</b>	each	3	<b>Required</b>	
	Manufactures name /model				
	Type			Extended Power Section PDM, Low Speed High Torque	
	Bent housing type			Surface Adjustable BUR 0-5 degrees / 30m	
	Size: OD	inch		9 1/2" or 9 5/8"	
	Stages / Lobes			4/5:6	
	Temperature rate	Deg C		125	
	Maximum torque	ft.lbs		10,000	
	Flow rate range	gpm		600-1100	
	LCM limit			Specify max grain size & ppb	
	Minimum hour before servicing	hrs		150	
<b>1.1.3</b>	<b>8" OD Mud Motor Extended Power</b>	each	2	<b>Optional</b>	
	Manufactures name /model				

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal
	Type			Extended Power Section PDM, Low Speed High Torque	
	Bent housing type			Surface Adjustable BUR 0-8 degrees / 30m	
	Size: OD	inch		8" or 8 1/2"	
	Stages / Lobes			7:08	
	Temperature rate	Deg C		150	
	Maximum torque	ft.lbs		7,500	
	Flow rate range	gpm		600-1100	
	Bit speed range , min / max	rpm		90 - 200	
	Maximum operational wob	lbs		35,000	
	LCM limit			Specify max grain size & ppb	
	Minimum hour before servicing	hrs		150	
<b>1.1.4</b>	<b>6 3/4" or 7" OD Mud Motor Extended Power</b>	each	3	<b>Required</b>	
	Manufactures name /model				
	Type			Extended Power Section PDM, Low Speed High Torque	
	Bent housing type			Surface Adjustable BUR 0-8 degrees / 30m	
	Size: OD	inch		6 3/4" or 7"	
	Stages / Lobes			6/7:8	
	Temperature rate	Deg C		150	
	Maximum torque	ft.lbs		7,500	
	Flow rate range	gpm		200-650	
	LCM limit			Specify max grain size & ppb	
	Minimum hour before servicing	hrs		150	
<b>1.1.5</b>	<b>4 3/4" OD Mud Motor Extended Power</b>	each	2	<b>Optional</b>	
	Manufactures name /mODeI			Specify	
	Type			Extended Power Section PDM, Low Speed High Torque	
	Bent housing type			Surface Adjustable BUR 0-8 degrees / 30m	
	Size: OD			4 1/2" or 4 3/4"	

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal
	Stages / Lobes			3/7:8	
	Maximum torque	ft.lbs		2,500	
	Flow rate range	gpm		100-300	
	Bit speed range , min / max	rpm		100 – 250	
	Maximum operational wob	lbs		12,000	
	LCM limit			Specify max grain size & ppb	
	Minimum hour before servicing	hrs		150	
<b>1.2</b>	<b>Rotary Steerable System (RSS)</b>				
<b>1.2.1</b>	<b>16" Hole RSS</b>	each	3	<b>Required</b>	
	Manufactures name /model				
	Norminal size (OD)	inch		8 1/4 -9 1/2"	
	Maximum tool rotation	rpm		220	
	Expected BUR	deg/30m		5	
	Flow Rate Range	gpm		600-1100	
	Other design features			Specified by Bidder	
<b>1.2.2</b>	<b>12 1/4" Hole RSS</b>	each	3	<b>Required</b>	
	Manufactures name /model				
	Norminal size (OD)	inch		8 1/4 -9 1/2"	
	Maximum tool rotation	rpm		220	
	Expected BUR	deg/30m		5	
	Flow rate range	gpm		600-1100	
	Other design features			Specified by Bidder	
<b>1.2.3</b>	<b>8 1/2" Hole RSS</b>	each	3	<b>Required</b>	
	Manufactures name				
	Model			State whether offering latest generation tools.	
	Norminal size (OD)	inch		6 3/4	
	Expected BUR	/30m		5 deg / 30m	
	Flow rate range	gpm		200-650	
	Maximum operating torque	ft/lbs		5,000	
	LCM limit			Specify max grain size & ppb	
	Other design features			Specified by Bidder	
<b>1.3</b>	<b>Bore hole survey equipment</b>				

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No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal
1.3.1	<b>Electronic gyro tool c/w running gear</b>	set	2	<b>Required</b>	
	Manufacturer's name / type				
	Pressure rating	psi		10,000	
	Static temperature rate	Deg C		150	
1.3.2	<b>Electronic magnetic survey tool c/w running gear</b>	set	3	<b>Required</b>	
	Manufacturer's name /type				
	Measure method			Specify	
	Pressure rating	psi		10,000	
	Static temperature rate	Deg C		150	
1.3.3	<b>Vertical inclination indicator</b>	set	3	<b>Required</b>	
	Manufacture name and type				
	For drill collar size	inch		6 3/4, 8, 8 1/2, 9	
	Surface reading method			Pump pressure pulse	
	Inclination reading range/ increment	Deg		0-2.5/0.25	
	Minimum flow rate	gpm		300	
	Operating temperature	Deg C		150	
1.3.4	<b>Magnetic Single Shot (MSS) c/w running gear and spares</b>	set	3	<b>Required</b>	
	Manufacturer's name				
	Reading disk range	Deg		0-10	
	Maximum setting time	min		60	
	Operating temperature	Deg C		150	
1.3.5	<b>Magnetic Multishot (MMS) c/w running gear and spares</b>	set	3	<b>Required</b>	
	Manufacturer's name				
	Reading disk range	Deg		0-60	
	Maximum preset time interval	min		5	
	Operating temperature	Deg C		150	
1.3.6	<b>Gyro while drilling for 26" hole</b>	set	2	<b>Required (Bidder to specify)</b>	

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal
1.4	<b>Measurement / logging while drilling (MWD / LWD)</b>				
1.4.1	<b>9 1/2" or 8 1/4" Directional MWD tool</b>	Each	3	<b>Required</b>	
	Manufacturers name /mODEl /type				
	Power source			Generator or battery	
	Size: OD x length			8 1/4" or 9 1/2"	
	Performance data of tool			Specify: Pressure drop, Pressure rating, Power source, time capacity, Transition type, etc.)	
	Flow rate range	Gpm		600-1100	
	Max temperature	Deg c		150	
	LCM limit			Specify max grain size & ppb	
1.4.2	<b>6 3/4" Directional MWD tool</b>	Each	3	<b>Required</b>	
	Manufacturers name /mODEl /type				
	Size: OD			6 3/4" or 6 1/2"	
	Performance data of tool			Specify: Pressure drop, Pressure rating, Power source, time capacity, Transition type, etc.)	
	Flow rate range	gpm		200-650	
	Max temperature	Deg C		150	
	LCM limit			Specify max grain size & ppb	
1.4.3	<b>4 3/4" Directional MWD tool</b>	each	2	<b>Optional</b>	
	Manufacturers name /type				
	Power source			Specify	
	Size: OD			4 3/4" or 4 1/2"	
	Performance data of tool			Specify: Pressure drop, Pressure rating, Power source, time capacity, Transition type, etc.)	
	Flow rate range	gpm		100-300	
	Max temperature	Deg C		150	
	LCM limit			Specify max grain size & ppb	
1.4.4	<b>9 1/2" or 8 1/4" Directional &amp; Gamma Ray MWD tool</b>	each	3	<b>Required</b>	
	Manufacturers name /mODEl/ type				

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal
	Power source			Generator or battery	
	Size: OD			9 1/2" or 8 1/4"	
	Performance data of tool			Specify: Pressure drop, Pressure rating, Power source, time capacity, Transition type, etc.)	
	Flow rate range	gpm		600-1100	
	Max temperature	Deg C		150	
	LCM limit			Specify max grain size & ppb	
<b>1.4.5</b>	<b>6 3/4" Directional &amp; Gamma Ray MWD tool</b>	each	3	<b>Required</b>	
	Manufacturers name/mODEl/type				
	Size: OD			6 3/4" or 6 1/2"	
	Performance data of tool			Specify: Pressure drop, Pressure rating, Power source, time capacity, Transition type, etc.)	
	Flow rate range	gpm		200-650	
	Max temperature	Deg C		150	
	LCM limit			Specify max grain size & ppb	
<b>1.4.6</b>	<b>4 3/4" Directional &amp; Gamma Ray MWD tool</b>	each	2	<b>Optional</b>	
	Manufacturers name/mODEl/type				
	Power source			Specify	
	Size: OD			4 3/4" or 4 1/2"	
	Performance data of tool			Specify: Pressure drop, Pressure rating, Power source, time capacity, Transition type, etc.)	
	Flow rate range	gpm		100-300	
	Max temperature	Deg C		150	
	LCM limit			Specify max grain size & ppb	
<b>1.4.7</b>	<b>9 1/2" or 8 1/4" Resistivity gamma LWD</b>	each	3	<b>Required</b>	
	Manufacturers name/type/model				
	Power source			Specify	
	Size: OD			9 1/2" or 8 1/4"	

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal
	Performance data of tool			Specify: Pressure drop, pressure rating, power type and capacity, transition type and rate..etc	
	Flow rate range	gpm		600 - 1100	
	Max temperature	Deg C		150	
	Pressure rating	psi		10,000	
	LCM limit			Specify max grain size & ppb	
<b>A</b>	<b>Gamma Ray</b>				
	Range			0-200 API	
	Accuracy			+/- 3 API @ 100 API and ROP= 60 ft/hr (18.3mhr)	
	Resolution			8" (Vertical)	
<b>B</b>	<b>Resistivity</b>				
	2 MHZ Resistivityphase difference				
	Range			0.2-2,000 ohm-m	
	Accuracy			+/-0.85% (0.1-50 ohm-m) +/- 0.4 ohm/m (>50 ohm-m)	
	Resolution			12" for 90% response in conductive beds	
<b>C</b>	<b>2 MHZ Resistivity attenuation</b>				
	Range			0.1-500 ohm-m	
	Accuracy			+/- 2% (0.1-25ohm-m) +/- 0.85 ohm-m (>25ohm-m)	
	Resolution			12" for 90% response in conductive beds	
<b>D</b>	<b>400 KHZ Resistivity phase difference</b>				
	Range			0.7-1000 ohm-m	
	Accuracy			+/-0.85% (0.1-25 ohm-m) +/- 0.4 ohm/m (>25 ohm-m)	
	Resolution			12" for 90% response in conductive beds	
<b>E</b>	<b>400 KHZ Resistivity attenuation</b>				
	Range			0.1-200 ohm-m	
	Accuracy			+/-4% (0.1-10 ohm-m) +/- 4.0 ohm/m (>10 ohm-m)	

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal
	Resolution			12" for 90% response in conductive beds	
1.4.8	<b>6 3/4" Resistivity gamma LWD</b>	each	3	<b>Required</b>	
	Manufacturers name, type,model				
	Power source			Specify	
	SIZE: OD x Length			6 3/4" x range 2	
	Connection (Up x Down)			4 1/2"IF BOX x PIN	
	Performance data of tool			As API standard	
	Flow rate range	gpm		200-650	
	Max wob	lbs		45000	
	Max temperature	Deg C		150	
	Pressure rating	psi		10000	
	LCM limit			Specify max grain size & ppb	
	Sensor specifications			As API standard	
<b>A</b>	<b>Gamma Ray</b>				
	Range			0-200 API	
	Accuracy			+/- 3 API @ 100 API and ROP= 60 ft/hr (18.3mhr)	
	Resolution			8" (Vertical)	
<b>B</b>	<b>Resistivity</b>				
	2 MHZ Resistivity phase difference				
	Range			01.-2000 ohm-m	
	Accuracy			+/-0.85% (0.1-50 ohm-m) +/- 0.4 ohm/m (>50 ohm-m)	
	Resolution			12" for 90% response in conductive beds	
<b>C</b>	<b>2 MHZ Resistivity attenuation</b>				
	Range			0.1-500 ohm-m	
	Accuracy			+/- 1.75% (0.1-25ohm-m) +/- 0.85 ohm-m (>25ohm-m)	
	Resolution			12" for 90% response in conductive beds	
<b>D</b>	<b>400 KHZ Resistivity phase difference</b>				
	Range			0.7-1000 ohm-m	
	Accuracy			+/-0.85% (0.1-25 ohm-m)	

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal
				+/- 0.4 ohm/m (>25 ohm-m)	
	Resolution			12" (30cm) for 90% response in conductive beds	
<b>E</b>	<b>400 KHZ Resistivity attenuation</b>				
	Range			0.1-200 ohm-m	
	Accuracy			+/-4% (0.1-10 ohm-m)	
				+/- 4.0 ohm/m (>10 ohm-m)	
	Resolution			12" for 90% response in conductive beds	
<b>1.4.9</b>	<b>4 3/4" Resistivity gamma LWD</b>	each	2	<b>Optional</b>	
	Manufacturers name, model /type				
	Power source			Specify	
	SIZE: OD x Length			4 3/4" x range 2	
	Connection			4 1/2"IF BOX X PIN	
	Performance data of tool			As API standard	
	Max temperature	Deg C		150	
	Pressure rating	psi		10000	
	LCM limit			Specify max grain size & ppb	
	Sensor specifications			Specify	
<b>A</b>	<b>Gamma Ray</b>				
	Range			0-500 API	
	Accuracy			+/- 2.5 API @ 100 API and ROP= 60 ft/hr (18.3mhr)	
	Resolution			8" (Vertical)	
<b>B</b>	<b>Resistivity</b>				
	2 MHZ Resistivityphase difference				
	Range			01.-2000 ohm-m	
	Accuracy			+/-0.85% (0.1-50 ohm-m)	
				+/- 0.4 ohm/m (>50 ohm-m)	
	Resolution			12" for 90% response in conductive beds	
<b>C</b>	<b>2 MHZ Resistivity attenuation</b>				
	Range			0.1-500 ohm-m	
	Accuracy			+/- 1.75% (0.1-25ohm-m)	

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal
				+/- 0.85 ohm-m (>25ohm-m)	
	Resolution			12" for 90% response in conductive beds	
<b>D</b>	<b>400 KHZ Resistivity phase difference</b>				
	Range			0.7-1000 ohm-m	
	Accuracy			+/-0.85% (0.1-25 ohm-m)	
				+/- 0.4 ohm/m (>25 ohm-m)	
	Resolution			12" (30cm) for 90% response in conductive beds	
<b>E</b>	<b>400 KHZ Resistivity attenuation</b>				
	Range			0.1-200 ohm-m	
	Accuracy			+/-4% (0.1-10 ohm-m)	
				+/- 4.0 ohm/m (>10 ohm-m)	
	Resolution			12" (30cm) for 90% response in conductive beds	
<b>1.4.10</b>	<b>9 1/2" or 8 1/4" Dir / Gamma/ Resistivity/ Density / Porosity/ Neutron LWD</b>	each	3	<b>Required</b>	
	Manufacturers name/ model /type				
	Power source			Specify	
	SIZE: OD x Length			8 1/4" or 9 1/2"	
	Connection			specify	
	Performance data of tool			As API standard	
	Flow rate range	gpm		600 - 1100	
	Max temperature	Deg C		150	
	Pressure rating	psi		10000	
	LCM limit			Specify max grain size & ppb	
	Sensor specifications			Specify	
<b>1.4.11</b>	<b>6 3/4" Dir / Gamma/ Resistivity/ Density / Porosity/ Neutron LWD</b>	each	3	<b>Required</b>	
	Manufacturers name/ model /type				
	Power source			Specify	
	SIZE: OD x Length			6 3/4" x range 2	
	Connection			Specify	

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal
A	Performance data of tool			As API standard	
	Flow rate range	gpm		200-650	
	Max temperature	Deg C		150	
	Pressure rating	psi		10000	
	LCM limit			Specify max grain size & ppb	
	Sensor specifications			Specify	
	<b>Density</b>				
	Range			1.6 – 3.1 g/cc	
	Accuracy			+/- 0.0015 g/cc @ 2.5 g/cc	
	Statistical repeatability			+/- 0.015 G/CC @ 200 ft/hr (60m/hr) (2.5 g/cc)	
B	Vertical resolution			8" (203mm) short spacing 16" (406mm) full resolution, pb	
	<b>Photo electric factor</b>				
	Range			1-10 barnes / electron (b/e)	
	Accuracy			+/- 0.25 B/e from 2-6 b/e	
C	Statistical repeatability			+/- 0.25 B/e @ 200 ft/hr (60m/hr)	
	Vertical resolution			8" (203mm) full resolution	
	<b>Neutron</b>				
	Range			1-100 pu	
D	Accuracy			+/- 0.5 pu below 10 pu	
	Statistical repeatability			+/- 0.6 pu @ 20 pu Limestone @ 200 ft/hr (60m/hr)	
	Vertical resolution			19" (490mm)	
	<b>Caliper</b>				
E	Range			0.0 – 2.0"	
	Accuracy			+/- 10%	
	Statistical repeatability			NA	
	Vertical resolution			¼"	
E	<b>Azimuth - TF</b>				
	Range			0-360 degrees	
	Accuracy			+/- 5.0 degrees	
	Statistical repeatability			NA	
E	Vertical resolution			+/- 1.5	
	<b>1.4.12</b>				
	<b>4 3/4" Dir / Gamma/ Resistivity/ Density /Porosity/ Neutron LWD</b>	each	2	<b>Optional</b>	

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal
A	Manufacturers name /model /type				
	Power source			Specify	
	size: OD x length			4 3/4"	
	connection (up x down)			4 1/2" IF Box x Pin	
	Performance data of tool			As API standard	
	Flow rate range	gpm		100-300	
	Max temperature	Deg C		150	
	Pressure rating	psi		10000	
	LCM limit			Specify max grain size & ppb	
	Sensor specifications			Specify	
	<b>Density</b>				
	Range			1.6 – 3.1 g/cc	
	Accuracy			+/- 0.0015 g/cc @ 2.5 g/cc	
	Statistical repeatability			+/- 0.015 G/CC @ 200 ft/hr (60m/hr) (2.5 g/cc)	
B	Vertical resolution			8" (203mm) short spacing 16" (406mm) full resolution, pb	
	<b>Photo electric factor</b>				
	Range			1-10 barnes / electron (b/e)	
	Accuracy			+/- 0.25 B/e from 2-6 b/e	
	Statistical repeatability			+/- 0.25 B/e @ 200 ft/hr (60m/hr)	
C	Vertical resolution			8" (203mm) full resolution	
	<b>Neutron</b>				
	Range			1-100 pu	
	Accuracy			+/- 0.5 pu below 10 pu	
D	Statistical repeatability			+/- 0.6 pu @ 20 pu Limestone @ 200 ft/hr (60m/hr)	
	Vertical resolution			19" (490mm)	
	<b>Caliper</b>				
	Range			0.0 – 26"	
E	Accuracy			+/- 10%	
	Statistical repeatability			NA	
	Vertical resolution			¼"	
	<b>Azimuth - TF</b>				
	Range			0-360 degrees	
Accuracy			+/- 5.0 degrees		
Statistical repeatability			NA		
Vertical resolution			+/- 1.5		

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal
1.4.13	<b>8" OD Sonic LWD tool</b>	each	2	<b>Optional</b>	
	Manufacturer's name, model & type			Collar-type	
	Size : OD (inch), length (meter)			8" OD	
	Connection			6-5/8' REG	
	Main performance data of tool			(Specify: Pressure Drop, Pressure Rating, Power Source, Time Capacity, Transmission type, Flow Rate range etc.)	
	LCM limit			(Specify max grain size & ppb)	
	Static temperature rating			150 degC (normal temp application)	
	Measurement provided			Bore hole compensated sonic; real-time monopole compressional and shear data; real-time slowness-time-coherence projection	
	Tool dimension			Provide OD, ID and Rotary Catch fishing diagram	
				Spec Sheet	
	Other				
1.4.14	<b>6-3/4" OD Sonic LWD tool</b>	each	2	<b>Optional</b>	
	Manufacturer's name, model & type			Collar-type	
	Size : OD (inch), length (meter)			6-3/4" OD	
	Connection			4-1/2" IF	
	Main performance data of tool			(Specify: Pressure Drop, Pressure Rating, Power Source, Time Capacity, Transmission type, Flow Rate range etc.)	
	LCM limit			(Specify max grain size & ppb)	
	Static temperature rating			150 degC (normal temp application)	

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal
	Measurement provided			bore hole compensated sonic; real-time monopole compressional and shear data; real-time slowness-time-coherence projection, stonely wave process with chevron pattern & tezuka model	
	Tool dimension			Provide OD, ID and Rotary Catch fishing diagram Spec Sheet	
	Other			specify ROP of tripping in for 1 & 2 data point per foot (in memory mode)	
<b>1.4.15</b>	<b>4-3/4" OD Sonic LWD tool</b>	each	2	<b>Optional</b>	
	Manufacturer's name, model & type			Collar-type	
	Size : OD (inch), length (meter)			4-3/4" OD	
	Connection			3-1/2" IF	
	Main performance data of tool			(Specify: Pressure Drop, Pressure Rating, Power Source, Time Capacity, Transmission type, Flow Rate range etc.)	
	LCM limit			(Specify max grain size & ppb)	
	Static temperature rating			150 degC (normal temp application)	
	Measurement provided			bore hole compensated sonic; real-time monopole compressional and shear data; real-time slowness-time-coherence projection; recorded multipole; stonely wave process with chevron pattern & tezuka model	
	Tool dimension			Provide OD, ID and Rotary Catch fishing diagram Spec Sheet	
	Other			specify ROP of tripping in for 1 & 2 data point per foot (in memory mode)	

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal
<b>1.5</b>	<b>Drilling tools</b>				
<b>1.5.1</b>	<b>Spiral String Stabilizer</b>				
<b>1.5.1.1</b>	<b>Spiral String Stabilizer for 26" hole</b>	each	3	<b>Required</b>	
	Manufacturer name				
	Fishing neck, OD/length			Specify	
	(Sufficient quantity for Directional control)				
<b>1.5.1.2</b>	<b>Spiral String Stabilizer for 16" hole</b>	each	3	<b>Required</b>	
	Manufacturer name				
	Fishing neck, OD/length			Specify	
	Sizes			Range from 17 1/2" to 15"	
	(Sufficient quantity for Directional control)				
<b>1.5.1.3</b>	<b>Spiral String Stabilizer for 12 1/4" hole</b>	each	3	<b>Required</b>	
	Manufacturer name				
	Fishing neck, OD/length			Specify	
	Sizes			Range from 12 1/4" to 11"	
	(Sufficient quantity for Directional control)				
<b>1.5.1.4</b>	<b>Spiral String Stabilizer for 8 1/2" hole</b>	each	3	<b>Required</b>	
	Manufacturer name				
	Fishing neck, OD/length			Specify	
	Sizes			Range from 8 1/2" to 7 1/2"	
	(Sufficient quantity for Directional control)				
<b>1.5.1.5</b>	<b>Spiral String Stabilizer for 6" hole</b>	each	2	<b>Optional</b>	
	Manufacturer name				
	Fishing neck, OD/length				
	Sizes			Range from 6" to 5 1/2"	

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal
	(Sufficient quantity for Directional control)				
<b>1.5.2</b>	<b>Adjustable Stabilizer</b>				
<b>1.5.2.1</b>	<b>Adjustable stabilizer for 12 1/4" hole</b>	each	2	<b>Optional</b>	
	Manufacturer's name				
	Static temperature	Deg C		150	
<b>1.5.2.2</b>	<b>Adjustable Stabilizer for 8 1/2" hole</b>	each	2	<b>Optional</b>	
	Manufacturer's name				
	Static temperature	Deg C		150	
<b>1.5.3</b>	<b>Non-Magnetic drill-collar</b>				
<b>1.5.3.1</b>	<b>8 1/2" Non Magnetic DC</b>	each	3	<b>Required</b>	
	Manufacturer's name				
	OD	inch		8" or 8 1/2"	
<b>1.5.3.2</b>	<b>8 1/2" Pony Non Magnetic DC</b>	each	3	<b>Required</b>	
	Manufacturer's name				
	OD	inch		8" or 8 1/2"	
<b>1.5.3.3</b>	<b>6 1/2" Non Magnetic DC</b>	each	3	<b>Required</b>	
	Manufacturer's name				
	OD	inch		6 1/2" or 6 3/4"	
<b>1.5.3.4</b>	<b>6 1/2" Pony - Non Magnetic DC</b>	each	3	<b>Required</b>	
	Manufacturer's name				
	OD	inch		6 1/2" or 6 3/4"	
<b>1.5.3.5</b>	<b>4 1/2" Non Magnetic DC</b>	each	2	<b>Optional</b>	
	Manufacturer's name				
	OD	inch		4 1/2" or 4 3/4"	
<b>1.5.3.6</b>	<b>4 1/2" Pony - Non Magnetic DC</b>	each	2	<b>Optional</b>	
	Manufacturer's name				
	OD	inch		4 1/2" or 4 3/4"	
<b>1.5.4</b>	<b>Float Valve and float sub</b>	set	3	<b>Required</b>	
	Manufacturer name				
	Model/type			Plunger type	
	Spare kit			sufficient at work site	

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal
<b>1.5.5</b>	<b>Spiral near bit stabilizer</b>				
<b>1.5.5.1</b>	<b>Spiral near bit stabilizer for 26" hole</b>	each	3	<b>Required</b>	
	Manufacturer name				
	Fishing neck, OD/length			Specify	
	(Sufficient quantity for Directional control)				
<b>1.5.5.2</b>	<b>Spiral near bit stabilizer for 16" hole</b>	each	3	<b>Required</b>	
	Manufacturer name				
	Fishing neck, OD/length			Specify	
	Sizes			Range from 17 1/2" to 15"	
	(Sufficient quantity for Directional control)				
<b>1.5.5.3</b>	<b>Spiral string stabilizer for 12 1/4" hole</b>	each	3	<b>Required</b>	
	Manufacturer name				
	Fishing neck, OD/length			Specify	
	Sizes			Range from 12 1/4" to 11"	
	(Sufficient quantity for Directional control)				
<b>1.5.5.4</b>	<b>Spiral near bit stabilizer for 8 1/2" hole</b>	each	3	<b>Required</b>	
	Manufacturer name				
	Fishing neck, OD/length			Specify	
	Sizes			Range from 8 1/2" to 7 1/2"	
	(Sufficient quantity for Directional control)				
<b>1.5.5.5</b>	<b>Spiral near bit stabilizer for 6" hole</b>	each	2	<b>Optional</b>	
	Manufacturer name				
	Fishing neck, OD/length				
	Sizes			Range from 6" to 5 1/2"	
	(Sufficient quantity for Directional control)				
<b>1.5.6</b>	<b>Down hole filter sub</b>				

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal
1.5.6.1	9 1/2" down hole filter sub	each	3	As required	
1.5.6.2	8" or 8 1/4" down hole filter sub	each	3	As required	
1.5.6.3	6 3/4" down hole filter sub	each	3	As required	
1.5.6.4	4 3/4" down hole filter sub	each	2	Optional	
1.5.6.5	Float valve and float sub	each	3	As required	
1.5.7	<b>Accessories</b>				
	Required cross-over sub for making up the Bidder's tools to bha	set	2	For connections: 3 1/2"IF, 4 1/2"IF, 6 5/8" reg, 7 5/8" Reg	
	Required nmde cross-over sub for making up the Bidder's tools to bha	set	2	For connections: 3 1/2"IF, 4 1/2"IF, 6 5/8" reg, 7 5/8" Reg	
1.5.8	<b>Surface MWD/LWD cabin</b>	set	1	<b>Required</b>	
	Wellsite information system to control, receive, monitor, interpret all jsurface and down hole real time data and convert to visual display			Certified and positive pressurization for hazardous area	
	Size (w - l - h)	m		Specify	
1.6	<b>LWD Pressure/Sampling testing service</b>				
1.6.1	<b>8" LWD Pressure/Sampling test</b>	Set	2	<b>Optional</b>	
	Manufacturers name/type/model			Specify	
	Power source			Specify	
	Size: OD			8" or 8 1/4"	
	Hole size range			12 1/4" to 17 1/2"	
	Tool connection			Standard Box Up x Pin Down	
	Max temperature			150 DegC	
	LCM/sand content limit			Specify max grain size & ppb	
	Max dog leg per 30m			Specify	
	Flow rate range			800 – 1150 gpm	

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal
	Max operating torque at bit			30,000 ft-lbs	
	Max drilling torque at bit to failure			70,000 ft-lbs	
	Max WOB			54 klbs	
	Max bending moment			55,000 ft-lbs	
	Sensor pressure range			0 – 20,000 psi	
	Sensor resolution			0.02 psi	
	Accuracy			0.02%	
	Realtime resolution			0.05 psi	
	DD pressure			Up to 3,000 psi	
	DD rate			Up to 10cc/s	
	DD volume			Up to 30cc	
	Mobility range			0.01 – 10,000 mD/cP	
	Mobility accuracy			5%	
	<b>Sampling</b>				
	Sample tank			DOT certify	
	Number of tank in 1 trip			At least 4 tanks	
	Tank volume			Up to 500cc per tank	
<b>1.6.2</b>	<b>6 3/4" LWD Pressure/Sampling test</b>	Set	2	<b>Optional</b>	
	Manufacturers name/type/model			Specify	
	Power source			Specify	
	Size: OD			6 1/2" or 6 3/4"	
	Hole size range			8 1/2" to 9 7/8"	
	Tool connection			Standard Box Up x Pin Down	
	Max temperature			150 DegC	
	LCM/sand content limit			Specify max grain size & ppb	
	Max dog leg per 30m			Specify	
	Flow rate range			200– 650 gpm	
	Max operating torque at bit			20,000 ft-lbs	
	Max drilling torque at bit to failure			40,000 ft-lbs	
	Max WOB			54 klbs	
	Max bending moment			40,000 ft-lbs	
	Sensor pressure range			0 – 20,000 psi	
	Sensor resolution			0.02 psi	

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal
	Accuracy			0.02%	
	Realtime resolution			0.05 psi	
	DD pressure			Up to 3,000 psi	
	DD rate			Up to 10cc/s	
	DD volume			Up to 30cc	
	Mobility range			0.01 – 10,000 mD/cP	
	Mobility accuracy			5%	
	<b>Sampling</b>				
	Sample tank			DOT certify	
	Number of tank in 1 trip			At least 4 tanks	
	Tank volume			Up to 500cc per tank	
<b>1.6.3</b>	<b>4 3/4" LWD Pressure/Sampling test</b>	Set	2	<b>Optional</b>	
	Manufacturers name/type/model			Specify	
	Power source			Specify	
	Size: OD			4 1/2" or 4 3/4"	
	Hole size range			5 3/4" to 7 1/2"	
	Tool connection			Standard Box Up x Pin Down	
	Max temperature			150 DegC	
	LCM/sand content limit			Specify max grain size & ppb	
	Max dog leg per 30m			Specify	
	Flow rate range			100-300 gpm	
	Max operating torque at bit			8,000 ft-lbs	
	Max drilling torque at bit to failure			20,000 ft-lbs	
	Max WOB			20 klbs	
	Max bending moment			14,000 ft-lbs	
	Sensor pressure range			0 – 20,000 psi	
	Sensor resolution			0.02 psi	
	Accuracy			0.02%	
	Realtime resolution			0.05 psi	
	DD pressure			Up to 3,000 psi	
	DD rate			Up to 10cc/s	
	DD volume			Up to 20cc	
	Mobility range			0.01 – 10,000 mD/cP	
	Mobility accuracy			5%	
	<b>Sampling</b>				

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal
	Sample tank			DOT certify	
	Number of tank in 1 trip			At least 4 tanks	
	Tank volume			Up to 500cc per tank	
<b>1.7</b>	<b>Near-Bit Gamma Ray</b>				
<b>1.7.1</b>	<b>Near-Bit Gamma Ray For 12 1/4" Hole Section</b>	each	3	<b>Required</b>	
	A. Manufacturer's Name Model & Type			Compatible with Point the bit system	
	B. Size: OD (Inch), Length (Meter)	in / mtr			
	C. Connection			6 5/8" Reg	
	D. Flow Rate	gpm		600-1100	
	E. Surface RPM	rpm			
	F. Static Temperature Rating	Deg C		150	
	G. Measurement Provided			Near-bit continuous Inclination & Azimuthal GR + Real-Time Link & Update	
	H. Mechanism			Real-Time Update with MWD.	
	I. Dogleg Severity			Up to 6.5deg/30m	
	J. Mud			WBM/OBM/SOBM/SW/BRINE	
	K. Nearbit Inclination			Able to give realtime bit inclination	
	L. Other				
<b>1.7.2</b>	<b>Near-Bit Gamma Ray for 8 1/2" Hole Section</b>	each	3	<b>Required</b>	
	A. Manufacturer's Name Model & Type				
	B. Size: OD (Inch), Length (Meter)	in / mtr		6 3/4"	
	C. Connection			4 1/2" IF	
	D. Flow Rate	gpm		200-650	
	E. Surface RPM	rpm		Up to 220 rpm	
	F. Static Temperature Rating	Deg C		150	
	G. Measurement Provided			Near-bit continuous Inclination & Azimuthal GR + Real-Time Link & Update	
	H. Mechanism			Real-Time Update with MWD.	
	I. Dogleg Severity			Up to 10deg/30m	

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal
	J. Mud			WBM/OBM/SOBM/SW/BRINE	
	K. Nearbit Inclination			Able to give realtime bit inclination	
	L. Other				
<b>1.7.3</b>	<b>Near-Bit Gamma Ray for 6" Hole Section</b>	each	2	<b>Optional</b>	
	A. Manufacturer's Name Model & Type			Specify	
	B. Size: OD (Inch), Length (Meter)	inch / mtr		4 3/4"	
	C. Connection			3 1/2" IF	
	D. Flow Rate	gpm		Up to 300 gpm (450 w/bypass)	
	E. Surface RPM	rpm		Up to 220 rpm	
	F. Static Temperature Rating	Deg C		150	
	G. Measurement Provided			Near-bit continuous Inclination & Azimuthal GR + Real-Time Link & Update	
	H. Mechanism			Real-Time Update with MWD.	
	I. Dogleg Severity			Up to 10deg/30m	
	J. Mud			WBM/OBM/SOBM/SW/BRINE	
	K. Nearbit Inclination			Able to give realtime bit inclination	
	L. Other				
<b>1.8</b>	<b>Realtime Data</b>	per well		Bidder to specify	
<b>1.9</b>	<b>ECD</b>	per well		Bidder to specify	
<b>1.10</b>	<b>Other Equipment/Service (if any, Bidder is requested to specify the specification in details)</b>			Bidder to specify	
<b>II</b>	<b>Vung tau Operations Base and Work shop</b>				
<b>2.1</b>	<b>Ware house</b>	each	1		
	Location			In Vung tau	
	Requirements			Sufficient spare kit and tools ready to supply	
<b>2.2</b>	<b>Work shop</b>	each	1		
	Location			In Vung tau	

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal
	Requirements			Sufficient required equipment, facilities for redressing, replacing, repairing, testing of Directional, MWD, LWD and other survey tools	
<b>III</b>	<b>Personnel</b>				
<b>3.1</b>	<b>Onshore Personnel</b>				
<b>3.1.1</b>	<b>Project Coordinator</b>	Person	1	Capable to coordinate the provision of all kind of Directional drilling, survey, MWD, LWD required tools and accessories for CLIENT, consults when request, minimum 5 year experience in DD, MWD, LWD and survey services. Min 3 year experience in project coordinator position	
<b>3.1.2</b>	<b>Warehouse/Work shop Engineer</b>	person	1	Permanent in Bidder's base and work shop, skill on repairing, replacing, redressing, maintenance all kind of Directional drilling, survey, MWD, LWD required tools and accessories. minimum 5 year experience in DD, MWD, LWD and survey services	
<b>3.2</b>	<b>Offshore Service Personnel</b>				
<b>3.2.1</b>	<b>Directional Driller</b>	person	1	At least 5 years experience in Directional drilling operations	
<b>3.2.2</b>	<b>Assistant Directional Driller</b>	person	1	At least 3 years experience in Directional drilling operations	
<b>3.2.3</b>	<b>MWD/LWD Engineer</b>	person	2	At least 5 years experience, familiar with running of Density, porosity, sonic, resistivity... tools	
<b>3.2.4</b>	<b>Gyro/Bore hole survey Specialist</b>	person	2	At least 5 years experience in his operations	
<b>3.2.5</b>	<b>Sampling or Pressure Specialist</b>	person	1	At least 5 years experience in his operations	

No.	Description	Unit	Qty	Client's requirements	Contractor's Proposal
IV	Delivery Lead Time			-Equipment and personnel are available at 1st October 2026. Meet 7 days in advance notice for the initial mobilization ARO and the subsequent will be on twenty-four (24) hours on a "call-out" basis.	

**EXHIBIT III**  
**SUMMARY RESPONSIBILITIES**

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III-5.0	CATERING, HOUSING AND MEDICAL SERVICES
III-6.0	PERSONNEL
III-7.0	LICENSES AND PERMITS
III-8.0	SAFETY

**EXHIBIT III**

**SUMMARY RESPONSIBILITIES**

DESCRIPTION	PROVIDED BY		AT COSTS OF	
	CONT.	CLIENT	CONT.	CLIENT
<b>III-1 <u>TRANSPORTATION</u></b>				
III-1.1 Transportation of CONTRACTOR Equipment/Products and CONTRACTOR Personnel to the Mobilization Site/ Mustering Point	X		X	
III-1.2 Transportation by air and land between CONTRACTOR's Point of Origin and CLIENT Port of Operation and Mustering Point of CONTRACTOR Equipment & CONTRACTOR Personnel	X		X	
III-1.3 Transportation of CONTRACTOR Personnel on rig duty between the Drilling Rig and Mustering Point or CLIENT Supply Base.		X		X
III-1.4 Transportation of CONTRACTOR Personnel from Mustering Point to CLIENT Supply Base as a result of CONTRACTOR Personnel failure to use CLIENT furnished transport above.	X		X	
III-1.5 Transportation and handling of CONTRACTOR Equipment between Drilling Rig and CLIENT Supply Base		X		X
III-1.6 Wharf facilities, materials handling to/from the supply vessels at CLIENT Supply Base		X		X
III-1.7 Demobilization of CONTRACTOR Equipment from the Demobilization Site including all handling, transport, wharfage, customs clearance, etc.	X		X	
III-1.8 Diesel fuel for CONTRACTOR Equipment		X		X
III-1.9 Lubricants for CONTRACTOR Equipment	X		X	

DESCRIPTION	PROVIDED BY		AT COSTS OF	
	CONT.	CLIENT	CONT.	CLIENT
<b>III-2 <u>DRILLING AND ASSOCIATED SERVICES</u></b>				
III-2.1 Provision of Directional Drilling, MWD & LWD Services in accordance with the CONTRACT	X			X
<b>III-3 <u>MAINTENANCE SERVICES</u></b>				
III-3.1 All repairs of CONTRACTOR Equipment	X		X	
III-3.2 Maintenance of all CONTRACTOR Equipment and CLIENT Equipment in accordance with the CONTRACT.	X		X	
III-3.3 Laboratory services onshore to provide the necessary capability for testing of Products or material as and when required by CLIENT	X		X	
<b>III-4 <u>STORAGE AND OTHER FACILITIES</u></b>				
III-4.1 Storage space for CONTRACTOR Equipment on the Work Site.		X		X
<b>III-5 <u>HOUSING, CATERING AND MEDICAL SERVICES</u></b>				
III-5.1 Accommodation for CONTRACTOR Personnel onshore not Authorized by CLIENT.	X		X	
III-5.2 Accommodation for CONTRACTOR Personnel offshore.		X		X
III-5.3 Catering and meal for CONTRACTOR Personnel offshore.		X		X
III-5.4 Meal for CONTRACTOR Personnel onshore and while traveling.	X		X	
III-5.5 First aid medical attention at the Work Site for CONTRACTOR Personnel onboard the Drilling Rig.		X		X
III-5.6 Medical attention and other requirements of CONTRACTOR Personnel onshore and while traveling	X		X	

DESCRIPTION		PROVIDED BY		AT COSTS OF	
		CONT.	CLIENT	CONT.	CLIENT
III-5.7	All arrangements and costs associated with evacuation of injured personnel from the Drilling Rig to HCM		X	X	
III-5.8	Transportation from Heliport to Hospital or elsewhere for injured CONTRACTOR Personnel	X		X	
<b>III-6 PERSONNEL</b>					
III-6.1	Additional Personnel furnished by CONTRACTOR as approved in advance by CLIENT Contract Administrator over and above normal crew pursuant to <b>EXHIBIT V</b>	X			X
III-6.2	Travel time and any associated personnel expenses for CONTRACTOR Personnel during normal crew change.	X		X	
III-6.3	Travel time and any associated personnel expenses paid to CONTRACTOR Personnel in excess of item 6.2 above and when weather or failure of CLIENT transportation prevents normal crew change.	X			X
III-6.4	Travel expenses for CONTRACTOR Personnel between Point of Origin and Mustering Point.	X		X	
III-6.5	Usage of communication equipment between Work Site and CONTRACTOR's office		X		X
III-6.6	Usage of communication equipment between Work Site and CONTRACTOR's office outside Vietnam		X	X	
III-6.7	Provision of special flight for CONTRACTOR Personnel between Mustering point and Drilling Rig as a failure of CONTRACTOR Personnel to turn up during normal crew change.		X	X	

DESCRIPTION	PROVIDED BY		AT COSTS OF	
	CONT.	CLIENT	CONT.	CLIENT
<b>III-7 <u>LICENSES AND PERMITS</u></b>				
III-7.1 Acquisition and maintenance of all necessary consents, permits, licenses and certificates required for movement of CONTRACTOR Equipment to and from Work Site.	X		X	
III-7.2 Passports, visas and work permits and related documentation required to maintain CONTRACTOR Personnel in Vietnam.	X		X	
III-7.3 Corporate registration, documentation and fees of CONTRACTOR in Vietnam required solely for the performance of this CONTRACT.	X		X	
III-7.4 Arrangement for the clearance of CONTRACTOR Equipment through Customs	X		X	
<b>III-8 <u>SAFETY</u></b>				
III-8.1 Safety apparels such as clear lens, safety glasses, safety boots, coverall s, etc. for each of CONTRACTOR's and its Sub- contractors employee(s).	X		X	
III-8.2 Safety coarse attended by CONTRACTOR Personnel conducted by recognized body for getting safety certificate/ passport.	X		X	



**EXHIBIT IV**

**CONTRACT PRICE AND PRICE LIST**

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## EXHIBIT IV

### CONTRACT PRICE AND PRICE LIST

THE FOLLOWING PRICES ARE INCLUSIVE OF ALL COSTS TO COMPLY WITH THE CONTRACT FORM, SCOPE OF WORKS, HSE REQUIREMENT, SPECIFICATIONS AND OTHER APPLICABLE PROCEDURES.

The rates quoted herein shall remain firm throughout the term of this CONTRACT and any extension thereto.

CLIENT shall have the right to demobilize all or any mobilized equipment and remobilize them during the CONTRACT period.

All equipment specified in **EXHIBIT II** are consistent with the rates quoted herein.

**NOTE:** ALL QUOTED PRICES MUST INDICATE WHICH IS INCLUSIVE OR EXCLUSIVE OF APPLICABLE VIETNAMESE TAX (VAT and/or CIT) BUT INCLUSIVE OF ANY TAXES OUTSIDE VIETNAM, IF ANY. In the event that the quoted prices do not specify this, they shall be treated as inclusive of all taxes.

In case BIDDER intends to import the GOODS under CLIENT's quota, the prices and rates shall be exclusive of import and VAT taxes – DAP CLIENT's warehouse, PTSC Downstream Port, Rach Dua Ward, Ho Chi Minh, S.R. Vietnam - INCOTERMS 2020 (for Domestic Contractor, the taxes and fees incurred when customs clearance of Goods will be charged directly to Bidder's account and the import tax (if any) will be back charged to PVEP-POC), otherwise inclusive.

#### **IV-1.0 DEFINITION AND APPLICABLE RATES**

As and when required by CLIENT, CONTRACTOR shall provide CONTRACTOR Equipment as listed in **EXHIBIT II** or elsewhere in the CONTRACTOR's Published Price List.

Only one type of Rental is applicable to CONTRACTOR Equipment regardless either the equipment is being used or on standby at the Work Site.

##### **IV-1.1 Rental Rate**

Rental Rate shall be the compensation paid to CONTRACTOR by CLIENT when CONTRACTOR Equipment was sent to the Work Site on CLIENT request.

CLIENT retains the option either to place the equipment on daily rental or monthly rental. Confirmation in writing shall be issued for the equipment to be placed.

The rate shall be all inclusive and shall cover all cost for the normal usage repair charge due to normal wear and tear, i.e., to inspect, redress, replace, rebuild, rechrome and refurbish.

The rental rate shall also cover the cost to transport the equipment from the CONTRACTOR's Warehouse to Mobilization Site and vice-versa.

All rentals for equipment shall commence on the day the said equipment arrived at Mobilization Site and shall cease when the said equipment is returned to the Demobilization Site.

Any additional charges other than rental rate of the equipment will not be accepted by CLIENT.

#### IV-1.2 **Mobilization and Demobilization Cost**

CONTRACTOR shall mobilize the complete set of equipment as specified by CLIENT and demobilize the same upon completion of WORKS.

CLIENT shall compensate CONTRACTOR firm lump sum cost after completion for each mobilization and demobilization.

Mobilization Cost is the cost to mobilize CONTRACTOR Equipment to Mobilization Site including any installation and testing time if any and Demobilization Cost is the cost to demobilize CONTRACTOR Equipment from Demobilization Site including any dismantlement time if any.

#### IV-1.3 **Personnel Rate**

When required and requested by CLIENT, CONTRACTOR shall provide the CONTRACTOR personnel as specified in **EXHIBIT V** on a twenty-four (24) hours' notice by CLIENT. If personnel are not available in around 20km radius from CLIENT's supply base, Rach Dua Ward, HCM City at the time request, forty-eight (48) hours' notice is requested to mobilize personnel from the Middle East/Asia pacific region.

The Personnel Rate shall be the sole compensation paid to CONTRACTOR by CLIENT when CONTRACTOR Personnel was sent to Work Site on CLIENT request.

The Daily Rate for each Personnel shall be applicable for any full day or part thereof CONTRACTOR Personnel is engaged by CLIENT and shall commence on the day he departs the Mustering Point and shall terminate on the day of his return from the Work Site to the Mustering Point. Only one (1) daily charge shall be made for each person being replaced on a one-for-one basis on the day of change out. In no event shall CONTRACTOR be entitled to charge CLIENT more than the per day rate for the same personnel in any given twenty-four (24) hour day.

- a. The Monthly Rate shall be prorated to the nearest day as the case may be.
- b. CONTRACTOR's current Published Price List shall apply if additional personnel are required.
- c. Any additional charges for CONTRACTOR Personnel other than service rate will not be accepted by CLIENT.

#### IV-1.4 **Sale Price for Sale Item**

Sales Price shall be the compensation paid to CONTRACTOR by CLIENT for any sales items being used.

All sales items shall come complete with serial number.

#### IV-1.5 **Lost In Hole/ Damage Beyond Repair**

The related risks in associated with lost of or damage to CONTRACTOR Equipment while in the custody and control of CLIENT, or during transportation arranged by or controlled by CLIENT, shall be borne by CLIENT. LIH or DBR of CONTRACTOR Equipment stipulated under this CONTRACT shall be at CLIENT's account except for CONTRACTOR's Gross Negligence and/or Willful Misconduct.

Unless otherwise provided under this CONTRACT, the depreciated replacement value for LIH or DBR equipment shall be the purchased price or certified manufactured value less accumulated depreciation at two percent (2%) per month from the date of purchase/manufactured and shall not exceed sixty-four percent (64%). CONTRACTOR shall submit documentary proven evidence of purchased price or certified manufactured value (per CONTRACTOR's Global SAP system) in connection with its invoices(s) for any such loss of equipment. Failure to provide any required documentation shall result in no payment made for Lost in Hole Charges.

Whenever Lost in Hole Charges are applied, the rental charges for the LIH/ DBR equipment shall cease at the time of a written LIH/ DBR notice by

CLIENT and/or when “fishing” operations are abandoned, whichever is earlier.

**IV-1.6 Zero Rate**

No rates whatsoever shall be payable by CLIENT to the CONTRACTOR for CONTRACTOR’s equipment and personnel during any period while any operation to be performed by the CONTRACTOR is suspended or the next operations cannot commence or that operations are being conducted in order to correct or overcome the effects due to CONTRACTOR’s Gross Negligence and Wilful Misconduct”.

**IV-2.0 CONTRACT PRICE SCHEDULE FOR EQUIPMENT**

**IV-2.1 Spot “Call-out” Equipment**

CLIENT may from time to time require equipment on “Call-out” basis from Contractor's Published Price List. CLIENT shall compensate Contractor at the quoted price shown in Contractor's Published Price List less discount if any as CONTRACTOR proposal.

**IV-2.2 Designated “Call-out” Personnel**

When requested by CLIENT, Contractor shall provide the CONTRACTOR Personnel as specified in **EXHIBIT V** on a twenty-four (24) hours’ notice. CLIENT shall compensate CONTRACTOR for CONTRACTOR Personnel at scheduled rates stipulated in the **APPENDIX IV-1**.

**IV-3.0 CONTRACTOR PUBLISHED PRICE LIST FOR EQUIPMENT AND SERVICES**

CLIENT may from time to time require equipment and personnel from CONTRACTOR's Published Price List on Spot “Call-out” basis.

**IV-2.1 Call-out Equipment**

A copy of CONTRACTOR Published Price List shall be attached and made a part of this CONTRACT. The attached Price List shall remain firm for the duration of this CONTRACT. Should any provision in the 'Price List' be in conflict with the terms and conditions of this CONTRACT, this CONTRACT shall prevail.

NOTE: The Published Price List shall also include other drilling services.

**a. Additional Equipment**

Additional equipment which are not shown under **APPENDIX IV-1** and the said equipment are available from Contractor's Published Price List shall be provided upon request in writing by CLIENT's Representative at quoted price less discount shown in CONTRACTOR's Published Price List

**b. Additional Personnel**

Additional personnel which are not shown under **APPENDIX IV-1** and the said personnel are available from Contractor's Published Price List shall be provided upon request in writing by CLIENT's Representative at quoted price less discount shown in CONTRACTOR's Published Price List.

**c. Additional Services**

Services that are not specified under **APPENDIX IV-1** shall be provided by CONTRACTOR upon written request by CLIENT at quoted price less discount shown in CONTRACTOR Published Price List.

**IV-4.0 PENALTY**

Generally, in the event of any CONTRACTOR Equipment fails or cease to operate, the rental and other charges of CONTRACTOR Equipment in that particular group and service rate of related CONTRACTOR Personnel shall cease/stop and only re-apply from the time the relevant replacement of CONTRACTOR Equipment is at the same position as where the original Equipment failed to operate.

The daily service rate of related CONTRACTOR Personnel and the rental of CONTRACTOR Down Hole Equipment in that particular group shall be prorated to the nearest hour for the penalty calculation.

In this respect, if WORKS are no longer required, no further payment shall be due from CLIENT to CONTRACTOR.

**IV-5.0 CERTIFICATION**

CONTRACTOR must be able to provide full fitness certification of the equipment before being used in CLIENT's operations. Failure to do so and if the equipment fail or malfunction during operation, then no charges whatsoever will be applicable for the usage of the equipment.

**IV-6.0 SPECIAL DISCOUNT OFFER**

<<CONTRACTOR TO OFFER>>

**END OF EXHIBIT**

APPENDIX IV-1

PRICE SCHEDULE FOR PROVISION OF DIRECTIONAL DRILLING, MWD & LWD SERVICES

*(SEE ATTACHED FILE)*

**APPENDIX IV-1: PRICE SCHEDULE FOR EQUIPMENT AND PERSONNEL**

No.	Description	Unit	Qty	RENTAL RATE (USD)		OPERATING RATE (USD)			LUMP SUM (USD)		
				DAILY / EACH OR PERSON OR SET	MONTHLY / EACH OR SET	METER	SURVEY	EVENT / EACH OR SET	SECTION / EACH OR SET	WELL / EACH OR SET	
<b>I</b>	<b>EQUIPMENT LIST FOR NORMAL TEMPERATURE</b>										
1.1	<b>MUD MOTORS</b>										
1.1.1	9 1/2" or 9 5/8" OD Mud Motor standard	ea.	2								
1.1.2	9 1/2" or 9 5/8" OD Mud Motor Extended Power	ea.	2								
1.1.3	8" OD Mud Motor Extended Power	ea.	2								
1.1.4	6 3/4" or 7" OD Mud Motor Extended Power	ea.	2								
1.1.5	4 3/4" OD Mud Motor Extended Power	ea.	2								
1.2	<b>ROTARY STEERABLE SYSTEM (RSS)</b>										
1.2.1	16" Hole RSS	ea.	2								
	Up to 500m										
	Up to 1000m										
	Up to 1500m										
1.2.2	12 1/4" Hole RSS	ea.	2								
	Up to 500m										
	Up to 1000m										
	Up to 1500m										
1.2.3	8 1/2" Hole RSS	ea.	2								
	Up to 500m										
	Up to 750m										
	Up to 1000m										
<b>1.3</b>	<b>BORE HOLE SURVEY EQUIPMENT</b>										
1.3.1	Electronic gyro tool c/w running gear	set	2								
1.3.2	Electronic magnetic survey tool c/w running gear	set	2								
1.3.3	Vertical inclination indicator	set	2								
1.3.4	Magnetic Single Shot (MSS) c/w running gear and spares	set	2								
1.3.5	Magnetic Multifshot (MfMS) c/w running gear and spares	set	2								
1.3.6	Gyro while drilling for 26" hole	set	2								
<b>1.4</b>	<b>MEASUREMENT / LOGGING WHILE DRILLING (MWD / LWD)</b>										
1.4.1	9 1/2" or 8 1/4" Directional MWD tool	ea.	2								
1.4.2	6 3/4" Directional MWD tool	ea.	2								
1.4.3	4 3/4" Directional MWD tool	ea.	2								

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No.	Description	Unit	Qty	RENTAL RATE (USD)		OPERATING RATE (USD)			LUMP SUM (USD)		
				DAILY / EACH OR PERSON OR SET	MONTHLY / EACH OR SET	METER	SURVEY	EVENT / EACH OR SET	SECTION / EACH OR SET	WELL / EACH OR SET	
1.4.4	9 1/2" or 8 1/4" Directional & Gamma Ray MWD tool	ea.	2								
1.4.5	6 3/4" Directional & Gamma Ray MWD tool	ea.	2								
1.4.6	4 3/4" Directional & Gamma Ray MWD tool	ea.	2								
1.4.7	9 1/2" or 8 1/4" Resistivity gamma LWD	ea.	2								
1.4.8	6 3/4" Resistivity gamma LWD	ea.	2								
1.4.9	4 3/4" Resistivity gamma LWD	ea.	2								
1.4.10	9 1/2" or 8 1/4" Dir / Gamma/ Resistivity/ Density / Porosity/ Neutron LWD	ea.	2								
1.4.11	6 3/4" Dir / Gamma/ Resistivity/ Density / Porosity/ Neutron LWD	ea.	2								
1.4.12	4 3/4" Dir / Gamma/ Resistivity/ Density / Porosity/ Neutron LWD	ea.	2								
1.4.13	8" OD Sonic LWD tool	ea.	2								
1.4.14	6-3/4" OD Sonic LWD tool	ea.	2								
1.4.15	4-3/4" OD Sonic LWD tool	ea.	2								
1.5	<b>DRILLING TOOLS</b>										
1.5.1	<b>Spiral String Stabilizers</b>										
1.5.1.1	Spiral String Stabilizer for 26" hole	ea.	2								
1.5.1.2	Spiral String Stabilizer for 16" hole	ea.	2								
1.5.1.3	Spiral String Stabilizer for 12 1/4" hole	ea.	2								
1.5.1.4	Spiral String Stabilizer for 8 1/2" hole	ea.	2								
1.5.1.5	Spiral String Stabilizer for 6" hole	ea.	2								
1.5.2	<b>Adjustable Stabilizer</b>										
1.5.2.1	Adjustable stabilizer for 12 1/4" hole	ea.	2								
1.5.2.2	Adjustable Stabilizer for 8 1/2" hole	ea.	2								
1.5.3	<b>Non-Magnetic DC</b>										
1.5.3.1	8 1/2" Non Magnetic DC	ea.	2								
1.5.3.2	8 1/2" Pony Non Magnetic DC	ea.	2								
1.5.3.3	6 1/2" Non Magnetic DC	ea.	2								
1.5.3.4	6 1/2" Pony - Non Magnetic DC	ea.	2								
1.5.3.5	4 1/2" Non Magnetic DC	ea.	2								
1.5.3.6	4 1/2" Pony - Non Magnetic DC	ea.	2								
1.5.4	<b>FLOAT VALVE AND FLOAT SUB</b>	set	2								
1.5.5	<b>Spiral near bit stabilizer</b>										
1.5.5.1	Spiral near bit stabilizer for 26" hole	ea.	2								
1.5.5.2	Spiral near bit stabilizer for 16" hole	ea.	2								
1.5.5.3	Spiral string stabilizer for 12 1/4" hole	ea.	2								

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No.	Description	Unit	Qty	RENTAL RATE (USD)		OPERATING RATE (USD)			LUMP SUM (USD)		
				DAILY / EACH OR PERSON OR SET	MONTHLY / EACH OR SET	METER	SURVEY	EVENT / EACH OR SET	SECTION / EACH OR SET	WELL / EACH OR SET	
1.5.5.4	Spiral near bit stabilizer for 8 1/2" hole	ea.	2								
1.5.5.5	Spiral near bit stabilizer for 6" hole	ea.	2								
<b>1.5.6</b>	<b>DOWN HOLE FILER SUB</b>										
1.5.6.1	9 1/2" down hole filter sub	ea.	2								
1.5.6.2	8" or 8 1/4" down hole filter sub	ea.	2								
1.5.6.3	6 3/4" down hole filter sub	ea.	2								
1.5.6.4	4 3/4" down hole filter sub	ea.	2								
1.5.6.5	Float valve and float sub	ea.	2								
<b>1.5.7</b>	<b>ACCESSORIES</b>										
<b>1.5.8</b>	<b>SURFACE MWD/LWD CABIN</b>										
<b>1.6</b>	<b>LWD PRESSURE/SAMPLING TESTING</b>										
1.6.1	8" LWD Pressure/Sampling test	set	2								
1.6.2	6 3/4" LWD Pressure/Sampling test	set	2								
1.6.3	4 3/4" LWD Pressure/Sampling test	set	2								
<b>1.7</b>	<b>Near-Bit Gamma Ray</b>										
1.7.1	Near-Bit Gamma Ray For 12 1/4" Hole Section	ea.	2								
1.7.2	Near-Bit Gamma Ray for 8 1/2" Hole Section	ea.	2								
1.7.3	Near-Bit Gamma Ray for 6" Hole Section	ea.	2								
<b>1.8</b>	<b>Realtime Data</b>	Per well									
<b>1.9</b>	<b>ECD tool</b>	Per section									
<b>1.10</b>	<b>I-Trak</b>	Per well									
<b>1.11</b>	<b>Other Equipment/Service (if any, Bidder is requested to specify the specification in details)</b>										
<b>II</b>	<b>Vung tau Operations Base and Work shop</b>										
<b>2.1</b>	<b>Ware house</b>	ea.	1								
	Location										
	Requirements										
<b>2.2</b>	<b>Work shop</b>	ea.	1								
	Location										
	Requirements										
<b>III</b>	<b>Personnel</b>										
<b>3.1</b>	<b>Onshore Personnel</b>										
3.1.1	Project Coordinator	person	1								
3.1.2	Warehouse/Work shop Engineer	person	1								
<b>3.2</b>	<b>Offshore Service Personnel</b>										
3.2.1	Directional Driller	person	1								

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No.	Description	Unit	Qty	RENTAL RATE (USD)		OPERATING RATE (USD)			LUMP SUM (USD)		
				DAILY / EACH OR PERSON OR SET	MONTHLY / EACH OR SET	METER	SURVEY	EVENT / EACH OR SET	SECTION / EACH OR SET	WELL / EACH OR SET	
3.2.2	Assistant Directional Driller	person	1								
3.2.3	MWD/LWD Engineer	person	2								
3.2.4	Gyro/Bore hole survey Specialist	person	2								
3.2.5	Sampling or Pressure Specialist	person	1								
3.2.6	Remote Operation Engineer	person	1								
<b>IV</b>	<b>Mobilization/Demobilization</b>										
<b>IV.1</b>	<b>Equipment (Bidder specified)</b>										
	Mobilization/ Demobilization	lump sum									
<b>IV.2</b>	<b>Personnel</b>										
	Mob/Demob cost for personnel - Expat	per hitch									
	Mob/Demob cost for personnel - Local	per hitch									

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**EXHIBIT V**

**CONTRACTOR'S PERSONNEL**

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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 to support all the services provided to CLIENT by CONTRACTOR.

**V-1.2 Personnel**

**V-1.2.1 Onshore Personnel.**

The CLIENT's minimum requirements for the Service Project Manager are listed as per EXHIBIT II.

**V-1.2.2 Offshore Service Personnel.**

The CLIENT's minimum requirements for each of the Service Supervisor are listed as per EXHIBIT II.

**V-1.2.3 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 WH/ TREE services at CLIENT's offshore sites.	2 Days	4 Years
2.	Helicopter Underwater Escape Training (HUET)	All service personnel who are assigned to provide WH/ TREE services at CLIENT's offshore sites.	1 Day	2 Years



**EXHIBIT VI**

**HEALTH, SAFETY AND ENVIRONMENT REQUIREMENT**

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## EXHIBIT VI

### HEALTH, SAFETY AND ENVIRONMENT REQUIREMENT

This **EXHIBIT** provided a reference to requirements HSE Management System applicable to the CONTRACT. The list is by no means definitive and the CLIENT Safety Manual together with other policies, procedures and special instructions, shall also apply to this CONTRACT.

When this **EXHIBIT** and its **APPENDICES** refers to the CONTRACTOR and the CONTRACTOR's Personnel, this shall also be taken to refer to Sub-contractors of the CONTRACTOR and the Sub-contractor's Personnel.

#### VI-1.0 HSE POLICY & PROGRAM

CONTRACTOR shall have in place, prior to the commencement of this CONTRACT, a written policy on Safety, Health and Environment. This policy shall be of a standard comparable to CLIENT's policy and shall be actively supported and endorsed by CONTRACTOR's Management. A copy to be submitted to CLIENT prior to the commencement of the operation.

In addition, CONTRACTOR shall also have safety targets and objectives, paying particular attention to accident prevention, written action plans clearly indicating how safety objectives shall be achieved and a system to appraise risk and problem areas to ensure that the overall safety program is being carried out and complied with.

CONTRACTOR shall submit the Monthly Safety Statistics Report as per format shown in **APPENDIX VI-2**.

#### VI-2.0 ACCIDENT REPORTING & INVESTIGATION

VI-2.1 Accident is defined as any unintentional or unplanned event or condition which has or could have resulted in injury to a person, loss or damage to equipment, plant or property, or pollute to environment.

VI-2.2 CLIENT requires that all accidents, no matter how trivial, must be reported to the CLIENT's Representative(s). CONTRACTOR shall ensure that its employees are aware of this mandatory requirement.

CONTRACTOR shall be responsible to investigate, in a professional manner, all accidents that occur during the performance of the WORKS. The investigation report shall be made available to CLIENT when requested. CONTRACTOR shall also be responsible for assisting CLIENT in accident investigations, if so required.

#### VI-3.0 ALCOHOL/DRUG POLICY

VI-3.1 CONTRACTOR ensures that its employees, agents and Sub-contractors shall not perform any WORKS for CLIENT while under the influence of alcohol or any controlled substance. CONTRACTOR, its employees, agents, and Sub-contractors shall not misuse legitimate drugs or possess, use, distribute, or sell illicit or un-prescribed controlled substances or drugs on CLIENT business or premises. CONTRACTOR shall adopt and enforce WORKS rules and policies in order to assure compliance with these obligations.

VI-3.2 CLIENT reserves the right to conduct alcohol and/or drug tests on the CONTRACTOR employees, agents, or Sub-contractors while on premises owned or controlled by CLIENT's where reasonable cause exists.

CLIENT also reserves the right to conduct searches for possession of drugs and/or alcohol on the person, vehicles, and other property of CONTRACTOR, its employees, agents or Sub-contractors while on premises owned or controlled by CLIENT. Any person who refuses to cooperate with any such search shall be removed from the premises and not permitted to return.

VI-3.3 CONTRACTOR shall require its employees, agents and Sub-contractor to submit to medical evaluation or alcohol or drug testing where cause exists to suspect alcohol or drug use.

VI-3.4 CONTRACTOR warrants that any employee, agent or Sub-contractor who either: (1) refuses to participate in medical evaluation or alcohol or drug tests, or (2) tests positive for alcohol or a controlled substance, shall be removed from the premises and not be permitted to perform any WORKS for CLIENT.

#### VI-4.0 **PERMIT-TO-WORK SYSTEM**

All WORKS carried out by CONTRACTOR's Personnel must be in accordance with the CONTRACTOR "Permit-To-Work System".

##### VI-4.1 **Hot-Work**

All Hot-Work must be carried out in strict compliance accordance with the CONTRACTOR's "Permit-To-Work System" and attention must be given to the following:

VI-4.1.1 Only trained, competent personnel shall be engaged for any Hot-Work.

- VI-4.1.2 The personnel carrying out the WORKS must have a copy of the authorized Hot-Work permit displayed at the Work Site(s) or Work Area. This permit shall clearly state the nature of the WORKS to be carried out, safety precautions to be taken regarding fire equipment, personal protective equipment, etc., and necessary tests for the presence of combustible gases.
- VI-4.1.3 The CONTRACTOR, in accordance with the "Permit-To-Work System" shall dedicate a trained fire-watcher to the personnel performing the WORKS. The duties of the fire-watcher are as follows (if applicable):
- 1) To ensure that the Work Site(s) or Work Area and adjacent areas are maintained in a safe condition (e.g., sparks are not falling onto unprotected area).
  - 2) To warn the workers of any hazard developing in the Work Site(s) or Work Area.
  - 3) To isolate the equipment in the event of an emergency.
  - 4) To quickly extinguish any smouldering material which may develop into a fire.
  - 5) To be able to establish contact with the Control Room if an emergency occurs.
  - 6) To ensure that a minimum of one dry chemical fire extinguisher, one pressurized fire hose, and a fire blanket are available at the Work Site(s) or Work Area and be capable of using this equipment if required to do so.
  - 7) To ensure that the Work Site(s) or Work Area is clear of all flammable and combustible material prior to commencement of WORKS.

#### VI-5.0 **SAFETY TRAINING & SUPERVISION**

Prior to the commencement of the WORKS, CONTRACTOR shall at its own expense 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**. Such training shall be carried out at training establishments approved by CLIENT as listed in **APPENDIX VI-3**. Certification of training shall be provided to CLIENT prior to the commencement of WORKS.

Upon request from CONTRACTOR, CLIENT may approve training provided by training establishments other than those specified in APPENDIX VI-3 provided CONTRACTOR furnishes CLIENT a copy of the course/program syllabus and contacts for the establishment.

VI-6.0 **PERSONAL PROTECTIVE EQUIPMENT**

VI-6.1 CONTRACTOR shall at its own expense be responsible for providing its personnel with CLIENT approved Personal Protective Equipment suitable for the task being carried out.

VI-6.2 CONTRACTOR shall ensure that its personnel and/or other personnel assigned by the CONTRACTOR to the performance of the WORKS wear the following minimum Personal Protective Equipment when engaged in WORKS or when in an on-site area where such equipment is required:

- 1) Coveralls,
- 2) Safety footwear with steel toe cap and steel mid sole,
- 3) Safety helmet, and
- 4) Safety glasses.

VI-6.3 Other Personal Protective Equipment that is required, depending on the nature of the job to be carried out and the likely hazards encountered in certain WORKS environments, including:

- 1) Ear muff/plugs,
- 2) Gloves,
- 3) Face shield/Visor,
- 4) Respiratory protection, and
- 5) Fall protection.

VI-6.4 CONTRACTOR must ensure that the standard Personal Protection Equipment such as gloves, apron and respiratory protection equipment issued to its personnel complies with the recommendations contained in the manufacturer's "Material Safety Data Sheet" for the product.

**NOTE:** In some circumstances this may require the wearing of self-contained or air-line breathing apparatus and the CONTRACTOR must ensure that these employees are thoroughly familiar with all types of respiratory protection.

VI-6.5 A list of CLIENT Approved Personal Protective Equipment is contained in **APPENDIX VI-1**.

VI-7.0 **SAFETY DRILL**

VI-7.1 The CONTRACTOR shall ensure that its personnel are thoroughly familiar with all site alarms, their muster station and, where applicable, the location of their lifeboat.

VI-7.2 CONTRACTOR's Personnel should rapidly acquire a thorough knowledge of site escape routes including alternative routes if the primary route happens to be blocked.

VI-7.3 The employees, servants or agents of the CONTRACTOR when working offshore or onshore shall participate in appropriate emergency drills and emergency response training (e.g., fire, muster and boat drills, instructions in survival, lifesaving, and firefighting).

VI-8.0 **SAFETY MEETINGS**

The CONTRACTOR's Personnel shall, from time to time, be requested to attend CLIENT safety meetings. Attendance at these meetings is mandatory and does not relieve the CONTRACTOR of the obligation to hold its own safety meetings as outlined in CONTRACTOR's safety policy.

VI-9.0 **MEDICAL WELFARE**

VI-9.1 CONTRACTOR shall ensure that all its employees and Subcontractor's employees engaged in the WORKS are medically fit and healthy. Any medical disabilities, including such disabilities which CONTRACTOR may consider will not adversely influence the employee's ability to perform his role in the WORKS, shall be reported to CLIENT prior to the start of the WORKS. **CONTRACTOR, if requested by CLIENT, shall provide medical certificates for CONTRACTOR and Sub-contractor personnel.**

VI-9.2 CONTRACTOR shall, at no cost to CLIENT, be responsible for the medical welfare of its own and Sub-contractor's employees and shall take care of arrangements for medical attendance, treatment or hospitalization if and when necessary and will arrange suitable insurance coverage for such contingencies. In cases of emergency, CLIENT may make or provide for, the necessary emergency arrangements, the costs of which shall be reimbursed to CLIENT by CONTRACTOR.

VI-10.0 **TOOLS & EQUIPMENT**

Equipment and tools shall only be operated by competent personnel.

CONTRACTOR shall ensure that all CONTRACTOR's machinery, equipment, facilities, and other items associated with or utilized in the WORKS are maintained in a safe, sound and proper condition, and comply with laws, regulations, and CLIENT requirement.

CONTRACTOR shall ensure that all tools and equipment and temporary facilities and other items used in the WORKS, whether purchased, rented or otherwise provided by CONTRACTOR are in a safe, sound and good condition and are capable of performing the function for which they are intended.

If any tool or item of equipment provided by CONTRACTOR is unsafe or incapable of doing the WORKS, CONTRACTOR shall repair and/or replace such defective tools and equipment used in the WORKS at CONTRACTOR's own expense.

VI-10.1 **DIESEL ENGINE DRIVEN PUMPS, COMPRESSORS, WELDING SET, ETC.**

- VI-10.1.1 Diesel engine driven pumps, compressors, welding sets, and any other diesel engine driven equipment must be located in a safe area.
- VI-10.1.2 Any such equipment must be well maintained and in good operational order and prior to use should be inspected by CLIENT Representative.
- VI-10.1.3 If the equipment is to be used offshore, it shall be inspected prior to shipment to the offshore site.
- VI-10.1.4 If such equipment is to be used in a hazardous area classified as a Zone 1 or 2 area, the equipment must comply fully with EEMUA 107 requirements (Recommendations For The Protection Of Diesel Engines Operating in Hazardous Areas). The said requirements were formerly contained in an Oil Companies Materials Association (OCMA) publication.

VI-10.2 **ELECTRICALLY POWERED PORTABLE TOOLS AND EQUIPMENT**

- VI-10.2.1 Only trained and competent personnel shall use portable electrically powered tools and equipment.

VI-10.2.2 Electrically powered portable tools and equipment shall be 110 volts centre-tapped or 240 volt tools subject to the following conditions:

- 1) they shall be double insulated, and
- 2) the power source shall be equipped with an earth leakage circuit breaker/ ground fault interrupter (ELCB/GFI) with a trip sensitivity not exceeding ten milli-amps (10mA).

VI-10.2.3 A written procedure for checking and maintaining portable electrically powered hand tools and equipment shall be in place. Any defective electrical tool and equipment shall be immediately prohibited from further use until it has been satisfactorily repaired. Defective items which are no longer serviceable shall be removed from storage or use and scrapped. CONTRACTOR shall maintain accurate records regarding the maintenance and disposal of such equipment. The CONTRACTOR shall appoint a person(s) to be responsible for such maintenance.

### VI-10.3 HANDTOOLS

VI-10.3.1 CONTRACTOR shall ensure that all tools supplied are in good condition and fit for their intended use.

VI-10.3.2 Damaged tools which are unfit for use must be removed from service immediately and if they cannot be repaired, they must be scrapped.

VI-10.3.3 CONTRACTOR's employees must be fully instructed regarding the use of the correct tool for a particular job, (e.g. The use of a cheater bar or piece of pipe to increase the length of a pipe wrench handle is totally unacceptable. A larger pipe wrench must be used).

### VI-11.0 HOUSEKEEPING

VI-11.1 CONTRACTOR shall ensure that its personnel keep and maintain good housekeeping practices at the Work Site to eliminate all hazards or control hazardous conditions in order to avoid injury to workers throughout the duration of the WORKS. CONTRACTOR shall know what the hazards are and how to guard against the hazards, the kind of which shall include unsafe acts and unsafe conditions.

- VI-11.2 In order to reduce the risk of fire, waste materials and garbage shall not be allowed to accumulate and as a minimum, must be disposed of on a daily basis and in an appropriate manner.
- VI-11.3 In order to minimize site hazards (such as trips, slips, falls, etc.), access ways must be kept clear of electrical cables, wires, metal pipes, scaffold boards and other materials and equipment.
- VI-11.4 All gaps such as that caused by the removal of gratings must be adequately roped off and the grating stored so that it does not become an "obstruction and trip hazard".

VI-12.0 **ENVIRONMENTAL PROTECTION**

- VI-12.1 CONTRACTOR shall pay due regard to the environment by acting to protect air, water, animal and plant life from adverse effects of CONTRACTOR's activities, and to minimize any adverse effects which may arise from such operations in accordance with government and CLIENT environmental policies.
- VI-12.2 CONTRACTOR shall adhere to existing national statutory regulations concerning discharges resulting from the performance of the WORKS.
- VI-12.3 CONTRACTOR and its Sub-contractors shall not, under any circumstances dump, throw or dispose of any refuse, oily wastes, toxic substance, debris or garbage into the sea. CONTRACTOR shall provide containers in which all refuse is to be placed and shall dispose of such refuse in accordance with existing laws and regulations.
- VI-12.4 CONTRACTOR shall ensure that its employees and its Subcontractors, and their employees are fully aware of the above and CONTRACTOR shall enforce such regulations to the satisfaction of CLIENT.

VI-13.0 **LAND TRANSPORTATION**

- VI-13.1 CONTRACTOR's Personnel travelling to and from onshore work site(s) shall use proper and safe means of transport.
- VI-13.2 Such transport shall comply with the Vietnamese traffic rules and regulations.
- VI-13.3 Transportation of the CONTRACTOR's personnel in open trucks is prohibited unless the truck is fitted with seats and certified to carry passengers. All speed limits must be adhered to.

VI-14.0 **TYPICAL HAZARDS**

- VI-14.1 CONTRACTOR is required to provide the tools and equipment as well as written procedure to ensure all hazards listed in **APPENDIX VI-3** are addressed.
- VI-14.2 CONTRACTOR is required to develop an action plan (or written procedure) for each mentioned hazard (where and as and when applicable) prior to commencing the WORKS.

**END OF EXHIBIT**

**APPENDIX VI-1**  
**PERSONAL PROTECTIVE EQUIPMENT**

**1.0 SAFETY SPECTACLES**

<u>BRAND</u>	<u>MODEL NO.</u>	<u>STANDARD</u>
KING OR EQUIVALENT		ANSI Z78.1

**2.0 SAFETY BOOTS**

**2.1 FOR GENERAL USE**

<u>BRAND</u>	<u>MODEL NO.</u>	<u>STANDARD</u>
KRUSHERS OR EQUIVALENT		AS/NZS 2210.3: 2000 ASTM F2413-05 EN 345-1

**2.2 FOR CHEMICAL USE**

RUBBER BOOT - VIETNAM

**3.0 COVERALL**

FRABRIC 100% COTTON

**4.0 HAND PROTECTION**

4.1 IMPACT GLOVES

4.2 WOOL GLOVES WITH PLASTIC DOT

4.3 WELDER GLOVES

COW-HIDE, COLOR REUST, DELUXE, COTTON LINING

**5.0 HEARING PROTECTION**

5.1 EAR MUFFS MOUNTED ON SAFETY HELMETS

<u>BRAND</u>	<u>MODEL NO.</u>	<u>STANDARD</u>
PROTECTOR OR EQUIVALENT	CLASS 5	ANSI S3.19-1974/CSA Z94.2

5.2 EAR PLUGS

3M

EAR PLUGS 1110

OR EQUIVALENT

6.0 HEAD PROTECTION

BRAND

BULLARD

OR EQUIVALENT

MODEL NO.

CLASS E, TYPE I

STANDARD

ANSI/ISEA Z89.1-2009

7.0 EYE/FACE PROTECTION

7.1 CHEMICAL SPLASH GOGGLES

BRAND

CONDOR OR

EQUIVALENT

MODEL NO.

1VT70

STANDARD

7.2 FACE SHIELD

BRAND

MSA OR EQUIVALENT

MODEL NO.

488126

STANDARD

ANSI Z87

7.3 WELDERS GOGGLES

BRAND

GRAINGER OR

EQUIVALENT

MODEL NO.

PN 1UYF9

STANDARD

8.0 OTHERS

8.1 SAFETY HARNESS/LIFEBELT

BRAND

SALA OR EQUIVALENT

MODEL NO.

1107802

STANDARD

ANSI Z359.1

ANSI Z359.3

ANZI Z359.4

8.2 DUST MASK (DISPENSABLE)

VIETNAM

8.3 **RAIN WEAR**

VIETNAM

8.4 **WELDERS APRON**

ANSELL OR EQUIVALENT

8.5 **CHEMICAL - HANDLING APRON**

ANSELL OR EQUIVALENT

8.6 **WORK VEST**

STEARNS OR EQUIVALENT  
(TYPE V)

I223

US COAT GUARD  
APPROVED



**APPENDIX VI-2**

**TRAINING/CERTIFICATION REQUIREMENTS**

NO.	COURSE TITLES	ATTENDANCE GROUP	MIN. COURSE	VALIDITY
			DURATION	
1.	Supervisor Safety	All supervisory personnel supervising minimum of 8 employees	3 Days	-
2.	Rigging and Slings Safety	All personnel who are assigned rigging/slipping responsibility.	3 Days	-
3.	Scaffolding	a) All supervisory personnel who are required to supervise erecting and dismantling of scaffolding and inspect scaffolds	10 Days	-
		b) All personnel erecting or dismantling scaffolding.	10 Days	-
4.	Basic Safety, Sea Survival and Fire & Fighting Courses	All personnel who spend 5 or more nights offshore at any one Visit or exceeding more than 20 days cumulative per year.	5 Days	3 Years
5.	Crane Operator's Course	All personnel who are required to operate cranes.	3 Days	3 Years
6.	Forklift Driver's Course	All personnel who are required to operate forklift.	1 Day	3 Years
7	Gas Tester	The personnel shall appoint to carry out the job		
8	Medic	The personnel shall appoint to carry out the job		
9	Electrician	The personnel shall appoint to carry out the job		
10	Welders	The personnel shall appoint to carry out the job		
11	Radiation Protection Officer and Radiation Protection Supervisor	The personnel shall appoint to carry out the job		
12	Chemical Handling	The personnel shall appoint to carry out the job		
13	Anchor Handling	The personnel shall appoint to carry out the job		
14	Authority to Inspect	The personnel shall appoint to carry out the job		

APPENDIX VI-3

APPROVED SAFETY TRAINING INSTITUTIONS

	<u>Name of Institution</u>	<u>Courses</u>
1.	Sri Bima Maritime Training Centre, Miri, Sarawak	o Sea Survival & Fire Training.
2.	Terengganu Safety Training Centre (TSTC), Teluk Kalong Kemaman, Terengganu	o Safety & Sea Survival Fire Training HUET
3.	Kerteh Fire Services East Coast Regional Office PETRONAS Kerteh, Terengganu	o Fire Training
4.	Robert Gordon Institute of Technology (RGIT) Aberdeen, Scotland	o Sea Survival & Fire Training. HUET
5.	Petroleum Training Assoc. North Sea (PETANS) Lowestoft, England	o Sea Survival & Safety HUET
6.	Maritime Training Centre (MTC) Vlissingen, Holland	o Sea Survival & Safety o HUET
7.	Rotterdam International Safety Centre (RISC), Holland	o Fire Training
8.	Industrial Foundation For Accident Prevention Woodside Offshore Petroleum Perth, Australia	o Sea Survival, Fire o Training & Safety o HUET
9.	Alert Disaster Control (Asia)	o Safety and Sea Singapore o Survival. Fire Training.

- 10. PetroVietnam Manpower Training College  
Vung Tau, Vietnam
  - o Safety and Sea Survival
  - o Fire Training
  - o HUET
  - o HUET
- 11. PVD Training  
Vung Tau, Vietnam
  - o Safety and Sea Survival
  - o Fire Training.

NOTE: In certain cases it may not be practical to send personnel to some of the above training establishments due to the logistical problem. However, a number of the above establishments can be contracted to train CONTRACTOR Personnel at the Work Site(s).

## LIST OF APPROVED MEDICAL EXAMINERS

1. SOS International Centre  
65 Nguyen Du, HCMC, Vietnam.
2. Columbia Saigon Clinic  
08 Alexandre de Rhodes, HCMC, Vietnam
3. VSP Medical Centre  
Vietsovetro Clinic  
5 Area, Tam Thang Ward , HCMC, Vietnam
4. Victoria Health Care  
79 Dien Bien Phu, HCMC, Vietnam

**APPENDIX VI-4**

**MONTHLY SAFETY STATISTICS REPORT**

**TO: DOMESTIC PETROLEUM OPERATING BRANCH - PETROVIETNAM  
EXPLORATION PRODUCTION CORPORATION LIMITED**  
15th Floor, Victory Tower, 12 Tan Trao Street, Tan My Ward, Ho Chi Minh City, S.R.  
Vietnam.

**ATTN : DRILING MANAGER**

MONTH : \_\_\_\_\_ CONTRACT NO. \_\_\_\_\_  
CONTRACTOR : \_\_\_\_\_ WORK AREA : \_\_\_\_\_

No.	Description	Units	Area
1	Total Man-hours worked (including CONTRACTOR man-hours)	hrs	
2	Days without LTI	day	
<b>Lost Time Injury</b>			
3	Fatality (FT)	case	
4	Permanent Total/Partial Disability (PTPD)	case	
5	Lost Workday Case (LWDC)	case	
<b>Non-Lost Time Injury</b>			
6	Restricted Workday Case (RWDC)	case	
7	Medical Treatment Case (MTC)	case	
8	First Aid Case (FAC)	case	
<b>HSE indicators</b>			
9	Lost Time Injury Frequency (LTIF) <i>=(total LTI cases) x 1,000,000 / (total man-hours)</i>	case per 1,000,000 man- hrs worked	
10	Total Recordable Injury Frequency (TRIF) <i>=(Total Recordable Injuries) x 1,000,000 / (total man-hrs)</i>	TRI per 1,000,000 man- hrs worked	

11	Days lost for LWDC	days	
12	Severity of LWDC = $(Total\ lost\ days\ for\ LWDC) / (total\ LWDC)$	days/case	
<b>Non-Injurious incident</b>			
13	Fire / Explosion incident	case	
14	Property Damage incident (PD)	case	
15	Hydrocarbon Release Incident	case	
16	Chemical spill incident	case	
17	Oil Spill to environment	case	
18	Occupational Illness (OI)	case	
19	Other Non-Injurious incident (See Definition below)	case	
<b>HSE performance efforts</b>			
20	Near-Miss Report	ea	
21	Safety observation reports	ea	
22	Emergency Drills/Exercises	ea	
23	Permit-To-Work	ea	
24	Audits and inspections	ea	
25	Safety meetings (including tool-box talks)	ea	
26	Job risk assessments (JSA, STING, TRA...)	ea	
<b>Environmental report</b>			
27	Hazardous waste	Kg	
28	Non-Hazardous waste	Kg	
29	Produced water discharge	m3	
<b>Others</b>			
30	Cost of incidents burdened by PVEP POC	USD	

31	Shutdown (incident)	case	
32	Downtime due to HSE incident	hrs	

SIGNATURE : \_\_\_\_\_ DATE : \_\_\_\_\_

NAME : \_\_\_\_\_ DESIGNATION : \_\_\_\_\_

## DEFINITION OF ACCIDENT TYPE

### 1. LOST TIME INJURY (LTI)

Any work related injury or illness which renders the injured person unable to perform his normal duties, on any day immediately following the day of the accident. It can be divided into four categories:

i) **Fatality**

Death due to work related injury or illness regardless of the time between injury or illness and death.

ii) **Permanent Total Disability**

A work related injury which incapacitates a person permanently and results in termination of employment.

iii) **Permanent Partial Disability**

A work related injury which results in the complete loss or permanent loss of use of any member or part of the body or any permanent impairment of functions of parts of the body, regardless of any pre-existing disability of the injured member or impaired body function.

iv) **Lost Workday Case**

A work related injury or illness other than a Permanent Partial Disability which renders the injured person temporarily unable to perform his normal duties, on any day immediately following the day of the accident.

### 2. NON LOST TIME INJURY (NLTI)

Any work related injury or illness other Lost Time Injury. It can further divide into three categories:

i) **Restricted Work Case**

A work related injury or illness which requires the person to be treated by doctor and is declared fit to return to do part of his normal work on restricted or light duties on the day immediately after following the accident/injury. (N/B. Restricted activity/light duties must be within the injured person's normal scope of work.)

ii) **Medical Treatment Case**

A work related injury or illness that involves neither lost workdays nor restricted workdays but which requires the injured to be treated by or under the specific orders of a physician or could be considered as being in the province of a physician.

iii) **First Aid Injury**

A work related injury or illness which requires minor treatment or subsequent observation of minor scratches, cuts, burns, splinters and so forth which do not ordinarily require medical care even though such treatment is provided by a physician or registered professional personnel, and the injured is able to resume his normal job function immediately after treatment.

3. **FIRE/EXPLOSION**

Any event involving fire/ explosion.

4. **PROPERTY LOSS/ DAMAGE**

Any accident which involves property damage/loss other than a fire or explosion.

5. **OIL SPILL**

Any accident involving spillage or release of oil and/or chemicals which cause pollution of air, water or ground.

6. **NEAR MISS**

Any event or condition which whilst not resulting in injury to person or loss or damage to equipment, plant or property, or pollution to the environment is recognized as having the potential to cause injury and/or property damage.

7. **STOP CARD (Safety Observation Card)**

Any Safe/Unsafe Act/Unsafe Condition that are reported on STOP Cards. Count each card as one effort

8. **OTHERS**

Any Incident/Accident is not above-mentioned

$$\text{LTI FREQUENCY RATE} = \frac{\text{No. of LTA} * 1,000,000}{\text{Man-hours Worked}}$$

$$\text{LTI SEVERITY RATE} = \frac{\text{No. of Days Lost} * 1,000,000}{\text{Man-hours Worked}}$$

APPENDIX VI-4

TYPICAL HSE HAZARD

HEALTH	SAFETY	ENVIRONMENT
<p><b>Hazardous Materials</b></p> <ul style="list-style-type: none"> <li>• Sulphuric Acid</li> <li>• Caustic Soda</li> <li>• TENORM (Technologically Enhanced Naturally Occurring Radioactive Material)</li> <li>• Hydrogen Sulphide</li> <li>• Chlorine</li> <li>• Nitrogen</li> <li>• Solvent Fumes</li> <li>• Mercury</li> </ul> <p><b>Asphyxiation</b></p> <ul style="list-style-type: none"> <li>• Nitrogen</li> <li>• Oxygen Deficiency</li> </ul> <p><b>Radiological</b></p> <ul style="list-style-type: none"> <li>• Instrumentation</li> <li>• Inspection</li> <li>• TENORM (Technologically Enhanced Naturally Occurring Radioactive Material)</li> </ul> <p><b>Lightning</b></p> <ul style="list-style-type: none"> <li>• Lightning Strikes</li> </ul> <p><b>Burns</b></p> <ul style="list-style-type: none"> <li>• Hot &amp; Cold Material Equipment</li> </ul>	<p><b>Fire and Explosion</b></p> <ul style="list-style-type: none"> <li>• Flammability</li> <li>• Expansion</li> <li>• BLEVE (Boiling Liquid Expanding Vapour Explosion)</li> <li>• VCE (Vapour Cloud Explosion)</li> </ul> <p><b>Flammable Properties</b></p> <ul style="list-style-type: none"> <li>• Crude Oil</li> <li>• Hydrogen Gas</li> <li>• Hydrogen Sulphide</li> <li>• Hydrogen</li> <li>• Condensate</li> </ul> <p><b>Ignition Sources</b></p> <ul style="list-style-type: none"> <li>• Electrical</li> <li>• Stray Currents</li> <li>• Static</li> <li>• Lightning</li> <li>• Pyrophics</li> <li>• Smoking</li> <li>• Welding</li> <li>• Grinding/ Cutting</li> </ul> <p><b>Fire Types</b></p> <ul style="list-style-type: none"> <li>• Jet, Pool and Flash Fires</li> <li>• Lagging Fires</li> <li>• Smoke</li> </ul> <p><b>Water</b></p> <ul style="list-style-type: none"> <li>• Low Points</li> <li>• Draining</li> <li>• Hydrates</li> </ul>	<p><b>Airborne Emissions</b></p> <ul style="list-style-type: none"> <li>• Vents (CO<sub>2</sub>, CH<sub>4</sub>)</li> <li>• Flares</li> <li>• Fugitives</li> <li>• General Exhaust</li> </ul> <p><b>Underground Equipment Failure</b></p> <ul style="list-style-type: none"> <li>• Corrosion soil</li> <li>• Erosion contamination</li> </ul> <p><b>Jetty/ Ship Operation</b></p> <ul style="list-style-type: none"> <li>• Hoses/ Boom</li> <li>• SBMs (Single Buoy Mooring)</li> <li>• Ballast Disposal</li> <li>• Spillages</li> </ul> <p><b>Surface Water Run-offs</b></p> <ul style="list-style-type: none"> <li>• Contamination of waterways</li> </ul> <p><b>Process Effluents</b></p> <ul style="list-style-type: none"> <li>• Recovered Oils/ Ballast</li> <li>• Produced water – barium, zinc, trace of radioactive materials</li> <li>• Condensate water from Slug Catchers</li> <li>• Surge Vessel Liquids</li> <li>• From Drains</li> <li>• Triethylene Glycol</li> <li>• Biocides (glutaraldehyde)</li> <li>• Magnesium Hydroxide</li> </ul>

- Emulsions/ Tank Layering
- Dead Legs

**Air**

- Start-Up/ Shut-Down
- Flare Systems

HEALTH	SAFETY	ENVIRONMENT
--------	--------	-------------

**Tank Farm Hazards**

- A. Floating Roofs (sinking drainage)
- B. Boil-Over
- C. Internal Explosions

**Lifting**

- 1. Cranes
  - Heavy lifts
  - i) Chains
  - ii) Ropes
- D. Slings

**Machinery**

- 1 Guards
- 2 Protection

**Security**

**Electricity**

- E. Electrocutation
- F. Overhead Lines
- G. HV systems/ arcing

**Excavations**

- H. Buried Facilities
- I. Collapses
- J. Gas Accumulation

**Working at Height**

- K. Scaffolding
- L. Ladders
- M. Fragile Roofs

**Drilling Operations**

- N. Blowout – Fire/ Explosion
- O. Shallow Gas Pockets/ Over Pressure
- P. Gas in Mud>Returns
- Q. Hydrogen Sulphide

HEALTH	SAFETY	ENVIRONMENT
--------	--------	-------------

**Tank Farm Hazards**

- A. Floating Roofs (sinking drainage)
- B. Boil-Overs
- C. Internal Explosions

**Lifting**

- 1. Cranes
  - Heavy lifts
  - i) Chains
  - ii) Ropes
- D. Slings

**Machinery**

- 1 Guards
- 2 Protection

**Security**

**Electricity**

- E. Electrocution
- F. Overhead Lines
- G. HV systems/ arcing

**Excavations**

- H. Buried Facilities
- I. Collapses
- J. Gas Accumulation

**Working at Height**

- K. Scaffolding
- L. Ladders
- M. Fragile Roofs

**Drilling Operations**

- N. Blowout – Fire/ Explosion
- O. Shallow Gas Pockets/ Over Pressure
- P. Gas in Mud>Returns
- Q. Hydrogen Sulphide



**EXHIBIT VII**

**BANK GUARANTEE FORMAT**

(Bank Letterhead)

**BANK GUARANTEE FORMAT**

To : **DOMESTIC PETROLEUM OPERATING BRANCH - PETROVIETNAM EXPLORATION PRODUCTION CORPORATION LIMITED**, a company organized and existing under the Laws of S.R Vietnam and having its registered address at 15<sup>th</sup> Floor, Victory Tower, 12 Tan Trao Str., Tan My Ward, Ho Chi Minh City, S.R. Vietnam, (hereinafter referred to as "CLIENT")

WHEREAS : (1) By an agreement for the

\_\_\_\_\_

\_\_\_\_\_

(hereinafter referred to as the "CONTRACT") between

\_\_\_\_\_

(hereinafter called the "CONTRACTOR") of the one part and CLIENT of the other part, the CONTRACTOR agrees to perform the WORK in accordance with the CONTRACT.

(2) In response to the request made by CONTRACTOR, we (Name of Banker :) \_\_\_\_\_

\_\_\_\_\_

(hereinafter called the "GUARANTOR") hereby irrevocably and unconditionally guarantee the sum of *ten percent (10%) of the CONTRACT Value* in favour of CLIENT being the amount of financial guarantee required for the above CONTRACT. The sum shall become payable by us immediately on first demand by CLIENT without proof or conditions notwithstanding any contestation or protest by the CONTRACTOR or any other third party.

(3) The GUARANTOR shall not be discharged or released from this Guarantee by any agreement made between the CONTRACTOR and CLIENT and/or any other CONTRACTOR with or without the consent of the GUARANTOR or by any alteration in the obligations undertaken by the CONTRACTOR or by any forbearance whether as to payment, time, performances or otherwise, or by

any change in name or constitution of CLIENT or the CONTRACTOR.

- (4) This Guarantee is a continuing security and accordingly shall remain valid until ninety (90) days after the end of the duration of the CONTRACT and any extension thereto.
- (5) The GUARANTOR agrees that the Guarantee is given regardless of whether or not the sum outstanding occasioned by the loss, damages, costs, or expenses howsoever arising, incurred by CLIENT is recoverable by legal action or arbitration.
- (6) For the purpose of this GUARANTEE only, the GUARANTOR does hereby agree to be governed by the Laws of England. Any disputes relating to this GUARANTEE which cannot be settled amicably, to be resolved by a single arbitrator to be agreed by the CLIENT and GUARANTOR in accordance with the Vietnam International Arbitration Centre at the Vietnam Chamber of Commerce and Industry (VIAC)

IN WITNESS whereof this Guarantee has been duly executed by GUARANTOR the \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_ for and on behalf of (\_\_\_\_\_)

Name : ( \_\_\_\_\_ ) ( \_\_\_\_\_ )

Designation : \_\_\_\_\_

Banker's Seal : \_\_\_\_\_

Address :

**EXHIBIT VIII**

**PERFORMANCE GUARANTEE FORMAT**

(Company Letterhead)

**PERFORMANCE GUARANTEE FORMAT**

*(In Principal's Company Letterhead)*

Date :.....

To : **DOMESTIC PETROLEUM OPERATING BRANCH - PETROVIETNAM  
EXPLORATION PRODUCTION CORPORATION LIMITED**  
15<sup>th</sup> Floor, Victory Tower, 12 Tan Trao Str., Tan My Ward, Ho Chi Minh City, S.R.  
Vietnam (hereinafter referred to as "CLIENT")

Dear Sir,

PERFORMANCE GUARANTEE FOR  
CONTRACT NO.:  
TITLE:

1. We \_\_\_\_\_ a company duly registered under the laws of \_\_\_\_\_ with a principal business address at \_\_\_\_\_ ("the GUARANTOR") do hereby enter into the following undertaking with ("CLIENT"):
- (a) That in consideration for CLIENT entering into the CONTRACT for the \_\_\_\_\_ ("the CONTRACT") dated \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_, with \_\_\_\_\_ ("CONTRACTOR"), CONTRACTOR shall perform all his obligations contained in the CONTRACT and all Change Orders thereunder and amendments thereof which may subsequently be duly executed by CONTRACTOR.
  - (b) That, if CONTRACTOR shall in any respect fail to perform the said obligations contained in the said CONTRACT or commits any breach thereof, we shall ourselves perform or take whatever steps as may be necessary to achieve performance of obligations and we shall assume, indemnify and hold harmless CLIENT from and against any loss, damages, costs and expenses howsoever arising from the said failure or breach for which CONTRACTOR may be made liable thereunder;

- (c) That we shall not be discharged or released from our undertakings hereunder by any waiver or forbearance by CLIENT whether as to payment, time, performance, or otherwise.
2. In the event and for the duration that the GUARANTOR assumes the obligations of CONTRACTOR under the CONTRACT as provided in Paragraph 1 above, the GUARANTOR shall be entitled to all of the rights and benefits to which CONTRACTOR is entitled under the CONTRACT.
  3. For the purpose of this GUARANTEE only, the GUARANTOR does hereby agree to be governed by the Laws of Vietnam. Any disputes relating to this GUARANTEE which cannot be settled amicably, to be resolved by a single arbitrator to be agreed by the CLIENT and GUARANTOR in accordance with the Ho Chi Minh Regional Centre of Arbitration.
  4. This GUARANTEE shall be effective as of the \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_.

IN WITNESS WHEREOF, THE GUARANTOR has caused this GUARANTEE to be duly executed by an authorised representatives of the GUARANTOR this \_\_\_ day of \_\_\_\_\_ 20\_\_.

GUARANTOR

for and on behalf of

\_\_\_\_\_  
 Name :  
 Designation :  
 Witness :

**EXHIBIT IX**  
**CHANGE ORDER**

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IX-4.0	
 <b><u>APPENDIX</u></b>	
IX-1	SPECIMEN FORM OF CHANGE PROPOSAL
IX-2	CHANGE ORDER FORM
IX-3	APPROVING AND ISSUING OF CHANGE ORDER

## EXHIBIT IX

### CHANGE ORDER

Changes to the WORKS and/or CONTRACTOR Equipment except for CONTRACTOR Personnel as specified herein, may be required during the performance of WORKS any extension of the CONTRACT and should be handled expeditiously and effectively by the Parties hereto. Such changes may include but not be limited to additions, deletions, substitutions, alterations and modifications.

CLIENT shall have the right, at any time, to make any change but such change shall in no way affect the rights or obligations of the Parties hereto except as provided in a written Change Order. Changes shall be carried out in accordance with the provisions of the CONTRACTOR.

Except as provided below, CONTRACTOR shall not proceed with any change prior to receipt of a Change Order, unless authorized in writing by the CLIENT's Contract Administrator.

The procedure for handling and issuing Change Order(s) shall be as follows:-

- IX-1.0 Should CLIENT or CONTRACTOR desire any change, it shall advise CONTRACTOR or CLIENT respectively of said request. CONTRACTOR shall, upon request from CLIENT, provide CLIENT within three (3) days a CHANGE PROPOSAL in the form shown in **APPENDIX IX-1** defining the terms and conditions of the CHANGE PROPOSAL. The terms and conditions shall include but not be limited to price, method of payment, earliest commencement date and any other information deemed necessary.
- IX-2.0 When and if CLIENT approves the Change Proposal, CLIENT will issue to CONTRACTOR a written Change Order in duplicate originals as per **APPENDIX IX-2**. All Change Order(s) shall be numbered sequentially.
- IX-3.0 CONTRACTOR shall sign and promptly return to CLIENT both duplicate originals of the Change Order to indicate its receipt, understanding and acceptance of it. After CLIENT execution, one duplicate original will be returned to CONTRACTOR.
- IX-4.0 In cases of extreme urgency for which CONTRACTOR is unable to submit a firm proposal prior to commencement of work on the necessary change, CLIENT may issue a "Preliminary Change Order" to authorize CONTRACTOR to proceed with the change on the basis of an approximate written estimate prepared by CONTRACTOR. As soon as possible thereafter, CONTRACTOR shall submit a Change Proposal giving its firm price for the change. If the firm price quoted in the Change Proposal is more than that quoted in the "Preliminary Change Order", CONTRACTOR shall furnish CLIENT with the reasons for the differences. Upon agreement of the Parties on the firm price, a Change Order shall be issued as outlined in **EXHIBIT IX**.

**END OF EXHIBIT**



**APPENDIX IX-2**  
**CHANGE ORDER FORM**

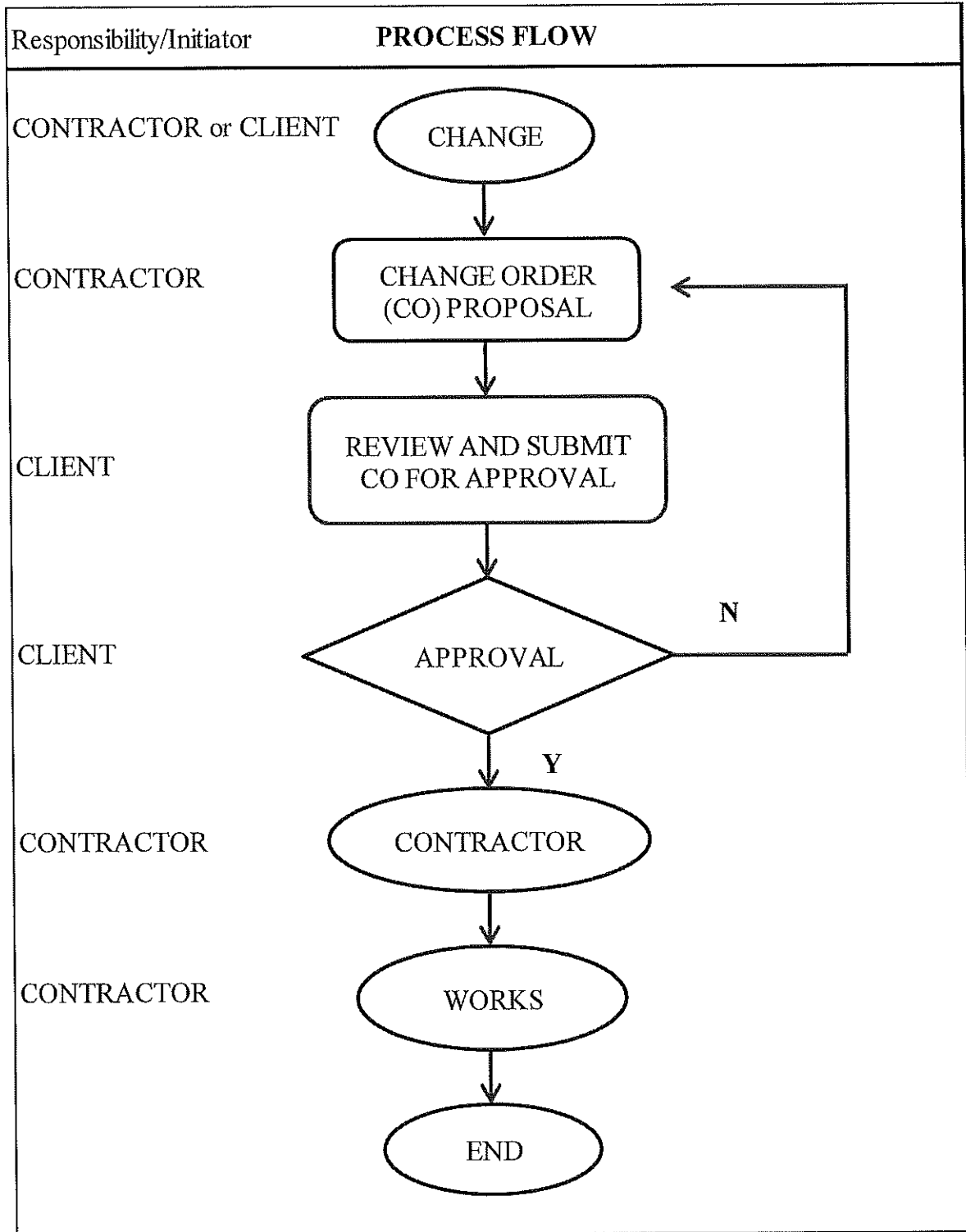


**CHANGE ORDER**  
CO No....

CONTRACT TITLE : _____ CONTRACT No. : _____ CONTRACTOR : _____ WORK LOCATION : _____ DEPARTMENT : _____	DATE : _____								
DESCRIPTION OF WORK/CHANGE :  REASONS FOR CHANGE :									
EFFECT ON CONTRACT PRICE : _____	EFFECTIVE DATE OF CHANGE : _____  SCHEDULE IMPACT: _____								
PAYMENT METHOD <input type="checkbox"/> ITEMISE SEPARATELY ON INVOICE FOR PAYMENT WHEN COMPLETE. <input type="checkbox"/> THE CHANGE IS PRICED ON <table style="display: inline-table; vertical-align: middle; margin-left: 20px;"> <tr> <td><input type="checkbox"/></td> <td>LUMP SUM BASIS</td> </tr> <tr> <td><input type="checkbox"/></td> <td>UNIT RATE BASIS PER _____ OF _____</td> </tr> <tr> <td><input type="checkbox"/></td> <td>DAY RATE BASIS AS STIPULATED IN CONTRACT</td> </tr> <tr> <td><input type="checkbox"/></td> <td>OTHERS (TO SPECIFY)</td> </tr> </table>		<input type="checkbox"/>	LUMP SUM BASIS	<input type="checkbox"/>	UNIT RATE BASIS PER _____ OF _____	<input type="checkbox"/>	DAY RATE BASIS AS STIPULATED IN CONTRACT	<input type="checkbox"/>	OTHERS (TO SPECIFY)
<input type="checkbox"/>	LUMP SUM BASIS								
<input type="checkbox"/>	UNIT RATE BASIS PER _____ OF _____								
<input type="checkbox"/>	DAY RATE BASIS AS STIPULATED IN CONTRACT								
<input type="checkbox"/>	OTHERS (TO SPECIFY)								
SUPPORTING DOCUMENTS : <input type="checkbox"/> COST ESTIMATE <input type="checkbox"/> MILESTONE PAYMENT AND WORK SCHEDULES <table style="display: inline-table; vertical-align: middle; margin-left: 20px;"> <tr> <td><input type="checkbox"/></td> <td>OTHERS (SPECIFIC INSTRUCTIONS SUCH AS MANNING, EQUIPMENT, ETC.)</td> </tr> </table>		<input type="checkbox"/>	OTHERS (SPECIFIC INSTRUCTIONS SUCH AS MANNING, EQUIPMENT, ETC.)						
<input type="checkbox"/>	OTHERS (SPECIFIC INSTRUCTIONS SUCH AS MANNING, EQUIPMENT, ETC.)								
For and on behalf of CLIENT  _____ CLIENT's SIGNATURE  NAME : _____  DATE : _____	For and on behalf of CONTRACTOR  _____ CONTRACTOR's SIGNATURE  NAME : _____  DATE : _____								

(\* All detailed technical and commercial documents shall be attached herewith

**APPENDIX IX-3  
 APPROVING AND ISSUING OF CHANGE ORDER**





**EXHIBIT X**

**INVOICING PROCEDURES & ADMINISTRATION GUIDELINES**

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## EXHIBIT X

### INVOICING PROCEDURES & ADMINISTRATION GUIDELINES

#### **X -1.0 INVOICING PROCEDURES**

- X-1.1 Invoices for WORKS performed shall be submitted in the invoicing format given in **APPENDIX X-1** together with a copy of the Billing Statement per **APPENDIX X-2** for every invoice submission. The statement shall reflect the total amount previously billed the current month billing and the total cumulative amount billed to date.
- X-1.2 Invoices shall be submitted to the following address:-  
**PVEP-POC**  
15th Floor, Victory Tower,  
12 Tan Trao Str, Tan My Ward,  
Ho Chi Minh City, Vietnam  
**Attn: Manager, Finance and Accounts**
- X -1.3 Invoices shall be submitted as per rates in **EXHIBIT IV – CONTRACT PRIC AND PRICE LIST** in accordance with **ARTICLE 7** entitled "INVOICING AND PAYMENT" of the terms & conditions.
- X -1.4 All invoices shall be prepared on CONTRACTOR's letterhead. The letterhead shall include the name of the company, current address, telephone and facsimile numbers.
- X -1.5 All invoices must indicate the following information but not limited to CONTRACT title and number, invoices number and date, location (well and rig name) where WORKS are performed.
- X -1.6 Debit Invoice and Credit Invoice shall be numbered differentially to distinguish between them.
- X -1.7 No payment instruction which conflict with this CONTRACT shall be shown on the invoices. If any such conflict exists, the CONTRACT shall govern.
- X -1.8 All invoices are to be submitted in two copies (one original and one duplicate copy) both complete with relevant supporting documents and properly stamped to distinguish between original and duplicate.
- X -1.9 All invoices must be verified and signed by CONTRACTOR's Contract Administrator designated in **ARTICLE 18**.
- X -1.10 When invoices have been found to be undelivered, the CONTRACTOR shall submit certified true copies of the invoices and supporting

documents duly signed by the CONTRACTOR's Contract Administrator designated in **ARTICLE 18**.

X -1.11 All Invoices are to be submitted monthly, i.e., monthly billing and separate invoices must be submitted for each particular location, i.e., each well and/or each rig.

X -1.12 Billing shall be supported by verifiable milestone or time sheets (for monthly rate) approved by CLIENT's Representative. All other reimbursable cost is to be supported by appropriate cost summary sheets and verified by CLIENT's Representative(s).

#### **X -2.0 INVOICES AND APPLICABLE SUPPORTING DOCUMENTS**

CONTRACTOR shall submit invoices with all supporting documents which are specified in **APPENDIX X-3**.

#### **X -3.0 REQUEST FOR EQUIPMENT/MATERIALS/SERVICES**

Request for EQUIPMENT/MATERIALS/SERVICES to be furnished pursuant to this CONTRACT may be made verbally to CONTRACTOR's Representative from CLIENT's Representative, if the rates for the requested Equipment and/or Personnel are specified in **EXHIBIT V**, either in **APPENDIX V-1** or CONTRACTOR's Published Price List.

Such requests shall be confirmed in writing using EQUIPMENT/MATERIALS/SERVICES REQUISITION FORM shown in **APPENDIX X-5**. However, if the rates for EQUIPMENT/MATERIALS/SERVICES have not specified in **EXHIBIT IV**, then any request for such EQUIPMENT/MATERIALS/SERVICES shall be in accordance with a Work Order Request as per **EXHIBIT X-6**, provided however that such issuance is not conflict with Change Order requirement as provided in **EXHIBIT IX**.

#### **X -4.0 WORK ORDER REQUEST**

Work Order Request applicable for requesting additional Equipment/Materials/Services to be furnished pursuant to this CONTRACT but the rates have not been specified in **EXHIBIT IV**.

Any request for EQUIPMENT/MATERIALS/SERVICES under Work Order Request category shall within the scope of this CONTRACT and shall be made in writing using Work Order Request Form shown in **APPENDIX X-6**.

The Work Order Request shall state the scope of each "Equipment/Materials/Services", Work Site, commencement date, applicable rates, reimbursable cost to CONTRACTOR by CLIENT and other details with respect to the Work Order Request and should there be a conflict, the CONTRACT shall prevail.

Then CONTRACTOR shall submit its proposal to CLIENT all in accordance with **APPENDIX X-7** headed Work Order Proposal hereof for CLIENT's decision.

The Addendum to CONTRACT shall be signed after mutually agreed by both Parties for additional Equipment/ Materials/Services in terms of technical and price(s).

**X -3.0 COMPLETION OF WORKS**

Completion of WORKS shall be achieved when the operations described in **EXHIBIT I-2.0** has been completed and CONTRACTOR has been notified in writing by CLIENT.

**X -3.0 CONTRACT CLOSURE**

CONTRACTOR shall submit to CLIENT a "CONTRACT CLOSURE LETTER" and "CONTRACT CLOSURE CERTIFICATE" as per format in **APPENDIX X-8** and **APPENDIX X-9**, respectively at the end of the duration of the CONTRACT.

**X -4.0 CONTRACTOR PERFORMANCE EVALUATION**

CLIENT shall continuously evaluate the performance of the CONTRACTOR pursuant to the specification stated in this CONTRACT throughout the term of CONTRACT duration.

APPENDIX X-1

SPECIMEN FORM OF INVOICE

TO: **PVEP POC**  
15<sup>th</sup> Floor, Victory Tower, 12  
Tan Trao Street, Tan My  
Ward, Ho Chi Minh City,  
S.R. Vietnam

**CONTRACTOR**  
current address,  
telephone and  
facsimile numbers.

ATTN: Finance Manager

Contract Title:  
Contract No.:

Invoice No.:  
Invoice Date:

Brief description on type of invoice, location (well & rig), month and year and etc.

---

Description of charges itemized in accordance with the rates set forth in the CONTRACT.

Total amount of the invoice

---

CONTRACTOR's Bank  
and Account Number as per

Verify and sign by



**APPENDIX X-2**

**BILLING STATEMENT**

**BILLING STATEMENT AS OF \_\_\_\_\_**

**CONTRACTOR** : \_\_\_\_\_ **CONTRACT NO.** : \_\_\_\_\_

INVOICE NO.	INVOICE DATE	INVOICE AMOUNT	BRIEF DESCRIPTION OF THE INVOICE	CUMULATIVE AMOUNT	DATE SUBMIT TO CLIENT	AMOUNT PAID	DATE PAID	REMARKS



**APPENDIX X-3  
INVOICE CHECKLIST**

Well Name:  
Block(s):

Invoice#:  
CONTRACT No.:

Item	Description	Original	Scan/Copy	Certified True Copy	Issued by	Remarks
<b>A.</b>	<b>GENERAL</b>					
1	Letter of payment request	X			CONTRACTOR Authorization	
2	Commercial Invoice in USD/VND <i>(Indicate Block No., relevant Tax Code, CONTRACT No., Well name, Rig name and invoiced items)</i>	X			CONTRACTOR Authorization	
3	Exchange rate posted by Bank Name on the date of issuing invoice(s)		X		CONTRACTOR	
4	Extract of relevant information of CONTRACT to support payment		X		CONTRACTOR	
5	Material Service Request (MSR/ MR)		X		CLIENT Authorization	
6	Contract Expenditure Report for well (FORM attached to CONTRACT). This is a history of the CONTRACT for well which the vendor will update and submit with each invoice	X			CONTRACTOR Authorization	

*[Handwritten mark]*

7	Delivery ticket (DT)/ Return ticket (RT)/ All item description must be the same as in CONTRACT/ Addendum /PO /SO and invoice(s)	X			CONTRACTOR and CLIENT Authorization	
8	Acceptance Protocol for services	X			CLIENT Authorization	
<b>A1</b>	<b>SERVICES</b>					
9	Approved monthly charge ticket	X			CONTRACTOR and CLIENT Authorization	
10	Completion job/ job log/services ticket	X			CONTRACTOR and CLIENT Authorization	
11	Certificate of Original/ Quality/ Inspection certificates (if required by CLIENT)		X		CONTRACTOR	Equipment services only
12	Work Order Request or Change Order approved by PVEP POC for third-party charged/ reimbursable items, etc.		X		CLIENT Authorization	
13	Copy all of invoice and document relevant from third party charged / reimbursable items		X		CONTRACTOR	
<b>A2</b>	<b>GOODS</b>					
14	COC - Certificate of Compliance	X			CONTRACTOR	
15	Warranty Certificate	X			CONTRACTOR	
16	Performance Bond/ Bank Guarantee (where applicable)		X		CONTRACTOR	
<b>A1.1</b>	<b>SPECIAL CASES</b>					

17	<b>LOST IN HOLE</b> - Notification Advice on occurrence - Investigation Report duly signed - Incidents Report duly signed	X	X		CONTRACTOR CONTRACTOR and CLIENT Authorization	
18	- Equipment profile including date of purchase/manufacturing	X			CONTRACTOR	
19	<b>DAMAGE BEYOND REPAIR</b> - Incidents Report - Third party inspection report (if required by CLIENT's at cost) - Evaluation reports with approval of CLIENT and CONTRACTOR		X		CONTRACTOR and CLIENT Authorization	
20	Other related document (if any)				CONTRACTOR	

APPENDIX X-4

SPECIMEN FORM OF EQUIPMENT RENTAL REPORT

EQUIPMENT RENTAL REPORT FOR MONTH OF \_\_\_\_\_ LOCATION: \_\_\_\_\_  
 CONTRACT NO. / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

DESCRIPTION	RENTAL PERIOD												REMARKS																	
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
	C RENTAL COMMENCE <input type="checkbox"/> S ON RIG STANDBY <input type="checkbox"/> X ON RIG OPERATING <input type="checkbox"/> F RENTAL FINISH																													
_____	MIV NO. _____ DATE _____ DT NO. _____ MRV NO. _____ DATE _____ MMV NO. _____ DATE _____																													
BODY S/N: _____ CUTTER S/N: _____																														
_____	MIV NO. _____ DATE _____ DT NO. _____ MRV NO. _____ DATE _____ MMV NO. _____ DATE _____																													
BODY S/N: _____ CUTTER S/N: _____																														
_____	MIV NO. _____ DATE _____ DT NO. _____ MRV NO. _____ DATE _____ MMV NO. _____ DATE _____																													
BODY S/N: _____ CUTTER S/N: _____																														
_____	MIV NO. _____ DATE _____ DT NO. _____ MRV NO. _____ DATE _____ MMV NO. _____ DATE _____																													
BODY S/N: _____ CUTTER S/N: _____																														
PREPARED BY :	APPROVED BY :																													
SIGNATURE :	SIGNATURE :																													
NAME :	NAME :																													
DATE :	DATE :																													





**APPENDIX X-6  
WORK ORDER REQUEST**

CONTRACT TITLE : _____ CONTRACT No. : _____ CONTRACTOR : _____ WORK LOCATION : _____ WORK ORDER No. : _____	DATE : _____    REVISE No. : _____
DESCRIPTION OF WORK :	
REFERENCE (DWGS/ SPECS/ DOCUMENTS/ MINUTES OF MEETING) :  <input type="checkbox"/> DRAWINGS _____ <input type="checkbox"/> SPECIFICATIONS _____ <input type="checkbox"/> OTHERS _____	
Please submit the WORK ORDER PROPOSAL by _____	
For and on behalf of CLIENT  _____	For and on behalf of CONTRACTOR  _____
NAME : _____ POSITION : _____ DATE : _____	NAME : _____ POSITION : _____ DATE : _____

**APPENDIX X-7**

**WORK ORDER PROPOSAL**

DATE : _____	
CONTRACT TITLE	: _____
CONTRACT No.	: _____
CONTRACTOR	: _____
WORK LOCATION	: _____
WORK ORDER No.	: _____
	REVISE No. : _____
DESCRIPTION OF WORK :	
REFERENCE (DWGS/ SPECS/ DOCUMENTS/ MINUTES OF MEETING) :	
DRAWINGS <input type="checkbox"/>	SPECIFICATIONS <input type="checkbox"/>
OTHERS <input type="checkbox"/>	
WORK DURATION	: _____
IMPACT ON CONTRACT SCHEDULE	: _____
TOTAL ESTIMATED COST	: _____
	EQUIPMENT COST : _____
	PERSONNEL COST : _____
	REIMBURSABLE : _____
	OTHERS : _____
METHOD OF PAYMENT :	
<input type="checkbox"/> LUMP SUM	<input type="checkbox"/> UNIT RATE
<input type="checkbox"/> REIMBURSABLE	<input type="checkbox"/> TIME RATE
	COST <input type="checkbox"/>
	SCHEDULE <input type="checkbox"/>
	OTHERS <input type="checkbox"/>
For and on behalf of CLIENT	For and on behalf of CONTRACTOR
_____	_____
NAME : _____	NAME : _____
POSITION : _____	POSITION : _____
DATE : _____	DATE : _____

APPENDIX X-8

CONTRACT CLOSURE LETTER

CONTRACTOR : \_\_\_\_\_

CONTRACT NO. : \_\_\_\_\_

CONTRACT TITLE : \_\_\_\_\_

Dear Sir,

For administrative purpose we wish to close and archive the account of this CONTRACT and therefore request you to sign in duplicate the attached Contract Closure Certificate. Upon signing, please return one original copy to us for our record and retention.

The purpose of the certificate is to confirm the total sum of money that has been paid by CLIENT under the CONTRACT and to confirm that no further sums are payable by CLIENT. Please enter the appropriate figure in spaces provided in the attached Certificate.

Yours faithfully,  
For and on behalf of CLIENT.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Name

\_\_\_\_\_  
Designation

\_\_\_\_\_  
Date

APPENDIX X-9

CONTRACT CLOSURE CERTIFICATE

With reference to CONTRACT No. \_\_\_\_\_ dated \_\_\_\_\_ 20\_\_\_\_,

between undersigned CONTRACTOR, \_\_\_\_\_  
( Name of CONTRACTOR )

and \_\_\_\_\_  
( Name of CLIENT )

for \_\_\_\_\_  
( Title )

In consideration of USD \_\_\_\_\_ as per final payment under the CONTRACT, the CONTRACTOR hereby unconditionally releases and forever discharges CLIENT and CLIENT premises and property from all claims, liens and obligations of every nature arising out of or in connections with performance of the CONTRACT and all amendments thereto.

The CONTRACT agrees to indemnify and hold CLIENT harmless from and against all cost, losses, damages, claims from any cause of action, judgments and expenses, including legal costs arising out of or in connections with claims against CLIENT which claims arise of the performance of the WORKS under the CONTRACT and which may be asserted by CONTRACTOR or any of its Sub-contractors or any of their representatives, officers, agents or employees.

The foregoing shall not relieve the CONTRACTOR of his obligations under the provision of the CONTRACT, which by their nature survive completion of the WORKS including, without limitation, warranties, guarantees and indemnities.

Executed this \_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

For and on behalf of (Name of CONTRACTOR)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Name

