



**THIEN NGA – HAI AU PHASE 1 PROJECT
BLOCK 12/11, OFFSHORE VIETNAM**

**Approved by OCD Director
“VIETSOVPETRO”**

**PHAM THANH BINH
" _____ " _____ 2025.**

**TECHNICAL REQUIREMENT FOR HEAT TRACING
SYSTEM FOR BK-TNHA & RD MODIFICATION**

Ref No: 9001-2000-QE-2101





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TRACK CHANGES

N^o	Revision N^o	Content of revision	Date of revision
1	B1	Approved for Bid	13.08.2025





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1. INTRODUCTION

The Block 12/11 covers 5347.4 km² (excluding the part of Premier Oil company area and returning area after completing the second phase of exploration phase) and is 320 km from the Vung Tau City, and belongs to the South West of the Nam Con Son Basin. The block is spread out from 07°08' to 07°45' north latitude and from 107°45' to 108°30' east longitude, which is adjoined with 11-2/09 and 11-2 blocks to the north, 13/03 block to the south, 20 and 21 blocks to the west and the 06/94 to the east. The block has a flat bathymetry with the water depth of 70 – 120 m.

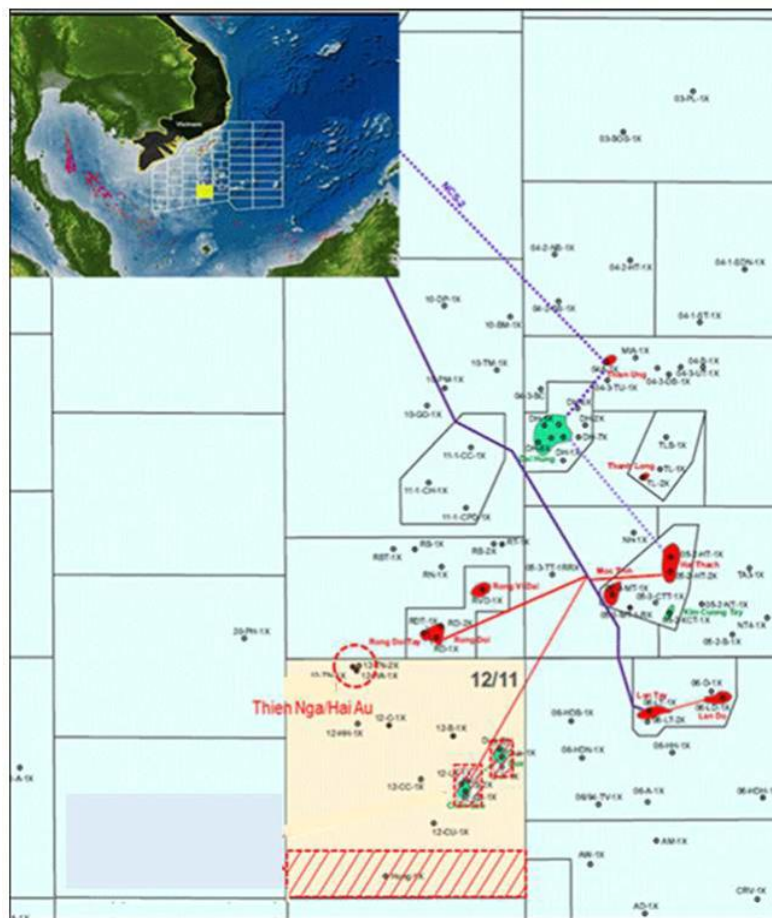


Figure 1.1: Thien Nga – Hai Au location in Block 12/11, Nam Con Son Basin

In 2010, Vietsovpetro and JSC Zarubezhneft got the Petrovietnam's bidding invitation for PSC of block 12/11 block after it had been returned by the Premier Oil Company.

In 2011, NIPI institute, Vietsovpetro have conducted the technical and economic evaluation of 12/11 project for JSC Zarubezhneft. Following the bidding result, JSC Zarubezhneft got the 100% interest of Block 12/11 PSC, and Vietsovpetro was the assigned to become the Operator.

In June 2023, Vietsovpetro had signed transferred of Operatorship to the custodian of Zarubezhneft EP Vietnam.

The field development plan consists of a new platform BK-TNHA, a new subsea pipeline and risers between BK-TNHA and existing wellhead platform at WHd (RD) Rong Doi (RD), CPP the upgrading of Rong Doi CPP to receive and process the BK-TNHA fluids upgrade, and a telecommunications system between BK-TNHA and Rong Doi CPP (DMR).

1) BK-TNHA (Thien Nga-Hai Au Wellhead Platform)

- Automated unmanned facilities operations, monitored and controlled from CPP RD.
- Total 9 wells (4 production wells, 2 future production wells & 3 spare slots).
- Covers TN-3X & HA-1X areas.

2) Subsea Pipeline from BK-TNHA to WHd RD

- 16” FWS x 36km subsea pipeline from WHP BK-TNHA to WHd RD.

3) Modifications Rong Doi (WHd RD/CPP RD)

- Brownfield upgrade/modification on existing platform to cater the condensate and gas from BK-TNHA with required arrival pressure of 23 barg.

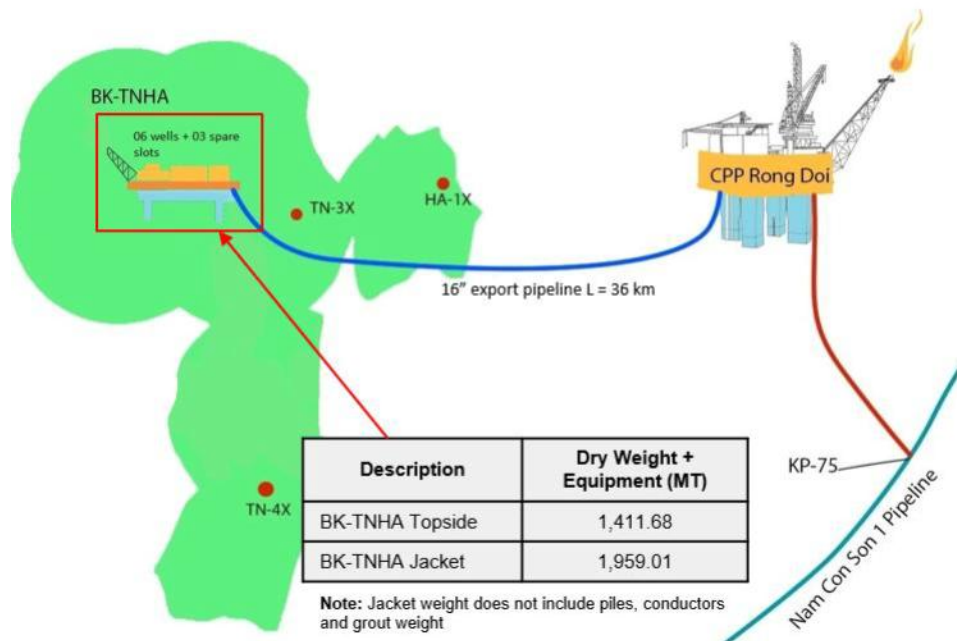


Figure 1.2: Thien Nga Hai Au Development Scheme in Phase 1



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2. DEFINITIONS AND ABBREVIATIONS

2.1 DEFINITIONS

All documents which will use the following words, and expression shall have the meanings given:

COMPANY/ CLIENT	Zarubezhneft EP Vietnam B.V. (ZNEPV)
CONTRACTOR/VSP	Vietsovetro Joint Venture (VSP JV)
SUBCONTRACTOR	The party that provides services to perform the specified scope and services on behalf of CONTRACTOR.
SUPPLIER/VENDOR	The party that is responsible for the manufacturing and/or supply of materials and equipment, design, assembly, technical documents/drawings and delivery of the complete package and other services to perform the duties specified by the CONTRACTOR.
BIDDER	The party that participates in a set of bidding documents either as independent or Consortium and will sign contract with COMPANY/CONTRACTOR.
MANUFACTURER	The company/ corporation that manufactures equipment/ components of the Heat Tracing System.
PACKAGER	The party that carries out the design, procurement, fabrication, assembly, complete testing of the complete Heat Tracing System.
Shall	The words ‘shall’ indicate requirements.
Should	The words ‘should’ indicate recommendations.
WORK	Any part of the works and services required to be performed by CONTRACTOR / SUPPLIER / VENDOR under the contract.
THIRD PARTY (TPI)	An Independent 3rd Party appointed by VENDOR approved by the CONTRACTOR/COMPANY for certifying specific equipment/equipment packages fabricated at VENDOR’s shop.

2.2 ABBREVIATION

BK-TNHA	Thien Nga – Hai Au Wellhead Platform
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CPP RD	Central Processing Platform – Rong Doi
AC	Alternating Current
DC	Direct Current
IEC	International Electrotechnical Commission
HAC	Hazardous Area Classification
HFE	Human Factors Engineering
IP	Ingress Protection
ITP	Inspection & Test Plan
JB	Junction Box
LV	Low Voltage
ICSS	Integrated Control & Safety System
QA/QC	Quality Assurance / Quality Control
PQP	Project Quality Plan
FAT	Factory Acceptance Test
SAT	Site Acceptance Test
VDRL	Vendor Document Requirement List
VRLA	Valve Regulated Lead Acid
TPI	Third-party Inspection

3. SCOPE OF WORK AND SUPPLY

This document covers the minimum requirements for the supply and design, detailed engineering, procurement, fabrication, assembly, testing & inspection, surface preparation and painting, factory acceptance testing (FAT), certification, packing for shipment & delivery, documentation, warranty, onshore supervision and assistance for installation, integration and pre-commissioning, offshore supervision and assistance for commissioning and start-up, site acceptance testing (SAT) and technical support for Heat Tracing System for TNHA & RD Modification, hereinafter referred to as the “GOODS”.



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Detailed technical requirement of GOODS to be referred to all documents and drawings in the Appendix 1.

The BIDDER/VENDOR's scope of work and scope of supply shall include but not limited to the following:

No.	Q'ty	Description
A	Scope of Supply	
1	RD-PLATFORM Electrical Heat Tracing System shall include but not limited to the following:	
1.1	1 lot (Note 1)	Electrical Heat Tracing System <ul style="list-style-type: none">- Design Life: 25 years- Design Ambient Temperature: 40°C- Design Relative Humidity: 100% (Max)- Installation: Outdoor- 100% complete with all auxiliaries Heat Tracing Cable and Accessories <ul style="list-style-type: none">a) Self-regulating heating cablesb) Cable glandc) Heat tracing junction boxesd) Tee boxe) Local thermostatf) Heat tracing insulation and cladding
1.2	1 set 230-DP-8411	Heat Tracing Distribution Board <ul style="list-style-type: none">- Location: Outdoor-Type, 230V AC, 50 Hz, 3 Ph + N, Ventilation: Naturally Ventillated. Heat Tracing Distribution Panel with IP56 Ex 'de',IIA, T3, Zone 2 enclosure and all accessories shall followings as a minimum:- - Complete earthing system.- - Complete metering and protection systems.- - Accessories (locks, keys, etc).- All mounting bolts, nuts and washers for all equipment shall be provided as per project requirement.
2	BK-TNHA Electrical Heat Tracing System shall include but not limited to the following:	



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2.1	1 lot (Note 1)	<p>Electrical Heat Tracing System</p> <ul style="list-style-type: none"> - Design Life: 25 years - Design Ambient Temperature: 40°C - Design Relative Humidity: 100% (Max) - Installation: Outdoor - 100% complete with all auxiliaries <p>Heat Tracing Cable and Accessories</p> <ul style="list-style-type: none"> g) Self-regulating heating cables h) Cable gland i) Heat tracing junction boxes j) Tee box k) Local thermostat - Heat tracing insulation and cladding
2.2	1 set 320-DP-8302	<p>Heat Tracing Distribution Board</p> <ul style="list-style-type: none"> - Location: Outdoor-Type, 230V AC, 50 Hz, 3 Ph + N, Ventilation: Naturally Ventillated. Heat Tracing Distribution Panel with IP56 Ex 'de',IIA, T3, Zone 2 enclosure and all accessories shall followings as a minimum: - - Complete earthing system. - - Complete metering and protection systems. - - Accessories (locks, keys, etc). - All mounting bolts, nuts and washers for all equipment shall be provided as per project requirement.
<p>Note:</p> <p>1. BIDDER/VENDOR's must quote the full quantity of materials/items according to Appendix 2 – Bill of Materials for Heat Tracing System.</p> <p>2. Vendor shall provide all the materials and accessories for completed installation and cladding of Heat Tracing System such as cable glands, clamps, bolts, nuts, etc. All Material shall be SS316.</p>		
<p>B. The VENDOR's Scope of Work / Supply for the item 1 and item 2 shall include but not limited to the following:</p>		
1	Engineering, Procurement, Fabrication, Installation, Integration	
1.1	1 lot	The VENDOR to provide full scope of work and scope of supply requirement (design, engineering, procurement, fabrication, testing, transportation, storage and preservation, supervision and



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		assistance of installation, integration, pre-commissioning, commissioning and start-up, etc.) The VENDOR to provide documentation for review and approval, prove performance guarantee and provide warranties of GOODS in accordance with the applicable specification, attachments, drawings, sketches and codes and standards.
1.2	1 lot	Design and engineering to interface with other packages/equipment i.e. ICSS, piping, etc.
1.3	1 lot	Performance Guarantee and Warranty for the package.
2	Inspection, Testing, Coating, Painting	
2.1	1 lot	Complete inspection, QA/QC and testing requirements including functional and performance acceptance test, Factory Acceptance Test (FAT), Site Acceptance Test (SAT) in accordance with all supporting documents of this Technical Requirement, witnessed by COMPANY/CONTRACTOR/THIRD PARTY as per ITP.
2.2	1 lot	Testing facilities/ equipment to carry out inspection and testing as list in item 2.1
2.3	1 lot	Surface preparation, coating and painting as per project specification requirements.
3	Certification	
3.1	1 lot	All required/necessary certificates (CO, CQ, certificates, test reports, etc.)
4	Spare parts and Special Tools	
4.1	1 lot	Pre-commissioning, commissioning and start-up spare parts. (A detailed list of spare parts, including unit prices, shall be provided as part of the proposal)
4.2	1 list	The VENDOR to provide a detailed list of recommended spare parts for two (02) years operation (including unit prices).
5	Lifting and Special Tools	
5.1	1 lot	Special installation, operation and maintenance tools that is necessary for safe and reliable operation. (A detailed list of



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		special tools, including unit prices, shall be provided as part of the proposal).
6	Preservation, Packing and Delivery	
6.1	1 lot	Preservation and Export Packing and Marking for Shipment/ Transport and Storage
7	VENDOR's Documentation	
7.1	1 lot	Complete Vendor Documentation including necessary submission to Vietnamese Local Authorities/ Certifying Authority/3rd Party, including O&M manuals, certification dossier and Vendor Data Books, in native (.pdf format) and hard copies as specified in the requisition/ specification.
7.2	1 lot	Final / As-built Documentation
8	Vendor Services	
	The VENDOR shall take responsibility and provide full support until completion of onshore and offshore pre-commissioning and commissioning of the supplied equipment/package, including supporting to interface with other equipment/package. The VENDOR shall provide mobilization/ demobilization rates, daily rates and response time for the following:	
8.1	1 lot	Onshore supervision and assistance for installation, integration and pre-commissioning at the fabrication yard.
8.2	1 lot	Offshore supervision and assistance for commissioning, site acceptance test and start-up. - 01 qualified expert/ supervisor for 05 days per trip
C	OPTIONAL SCOPE FOR GOODS	
1	1 lot	Recommended spare parts for two (02) years operation.

Notes:

1. All engineering works to be done by the vendor original equipment manufacturer (OEM). If in any event, a third-party engineering company is appointed, a supporting agreement letter to be submitted, evaluated and approved by the CONTRACTOR/COMPANY.
2. Vendor shall provide heat tracing calculations in compliance with the design concept, as shown in the electrical reticulation loop diagram: each heat tracing line shall be equipped with its own temperature control unit (thermostat) installed



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locally in the respective temperature control box. Each control unit shall control only one heat tracing line.

3. Where it is necessary to split the board for transportation or “on-site” handling, the VENDOR shall supply all mating parts, all fishplates, scaling gaskets, inter-connecting wiring, etc. In addition, the VENDOR shall perform wiring for inter-connecting split boards, installation of on-site mounted equipment to complete the package.
4. The BIDDER/VENDOR shall provide the full scope of work and scope of supply requirements. Any other necessary accessories or items not mentioned in the ITB or the BIDDER’s proposal, but identified as required for safety and proper transportation, installation, and operation during contract execution (based on study or detailed design), shall be the full responsibility and cost of the BIDDER/VENDOR.

Conformance of the WORK:

- The VENDOR shall conform to the Contractor/Company Supplied Data and all other requirements of the Contract. No modifications to the Contractor/Company Supplied Data or vendor-issued engineering data that has been approved by the CONTRACTOR/COMPANY shall be implemented by the VENDOR without obtaining prior written approval.
- During the VENDOR’s manufacturing process, the CONTRACTOR/COMPANY reserves the right to have free access to the VENDOR’s facilities, inspection and witnessing activities at any time. The VENDOR have to submit to the CONTRACTOR/COMPANY an execution plan including technical documentation, procedures, procurement plan, testing plan, prequalify testing plan, preservation and delivery plan.
- The CONTRACTOR/COMPANY reserves the right to reject any GOODS that do not comply with project specifications, data sheets, design drawings, reports and this Technical Requirement. Any schedule delays and cost impacts resulting from the rejection or replacement of non-compliant or defective items shall be fully under VENDOR’s responsibility.
- **Qualified Expert/ Personnel for Site/ Field Service:** The VENDOR shall provide qualified Expert(s)/ Personnel authorized by the MANUFACTURER together with all necessary tools, equipment, and Personal Protective Equipment (PPE), to carry out the onshore supervision and assistance of installation and pre-commissioning, offshore supervision and assistance of commissioning and start-up. The minimum requirements for the Expert(s)/ Personnel are as follows:
 - ✓ Language: Vietnamese and English
 - ✓ Health Status: Medically fit for onshore and offshore work. Valid health certificates for onshore and offshore work shall be included in the technical proposal.
 - ✓ HSE training: Must have valid BOSIET certificates or equivalent.



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- ✓ Authorization and Experience: Authorized and certified by the MANUFACTURER for the relevant scope of work. Must have experience in at least one (01) offshore installation, assembly, and commissioning service for similar equipment/ systems.
- ✓ The CV of the Expert(s)/ Personnel and the list of tools must be submitted for approval prior to mobilization. The CONTRACTOR/COMPANY reserves the right to reject any Expert(s)/Personnel who do not comply with the requirements. Any schedule delays and cost impacts resulting from the rejection and replacement of non-compliant Expert(s)/Personnel shall be fully under VENDOR's responsibility.
- Electronic Copies (USB) of documents are required where indicated on Vendor Data Requirements List (VDRL). The CONTRACTOR/COMPANY places high importance on the provision of Electronic Copies of Documents.

4. TECHNICAL REQUIREMENT

All GOODS shall comply with all technical documents and drawings listed in Appendix 1 of this Technical Requirement. In the event of any conflict between this Technical Requirement, Specification, and other documents, the order of the precedence of the documents is as follows:

- Mandatory Laws, Standards and Regulation of Vietnam
- This technical requirement.
- Material Requisition (Doc. No. 9001-2300-QE-0001_MATERIAL REQUISITION FOR ELECTRICAL HEAT TRACING SYSTEM (CPP RONG DOI)), 9001-2201-QE-0006 MATERIAL REQUISITION FOR ELECTRICAL HEAT TRACING SYSTEM (BK-TNHA).
- Data Sheet (Doc. No. 9001-2300-KE-0001_DATASHEET FOR ELECTRICAL HEAT TRACING SYSTEM (CPP RONG DOI)), 9001-2201-KE-0020 DATASHEET FOR ELECTRICAL HEAT TRACING (BK-TNHA).
- Single Line Diagrams (Doc. No. 9001-2300-DE-1001_Electrical Single Line Diagram – Heat Tracing Distribution Panel 230-DP-8411 (CPP Rong Doi)), 9001-2201-DE-1006-01_SINGLE LINE DIAGRAM - HEAT TRACING DISTRIBUTION PANEL (BK-TNHA)
- Specification (Doc. No. 9001-2300-SE-0001_SPECIFICATION FOR ELECTRICAL HEAT TRACING SYSTEM (CPP RONG DOI)), 9001-2201-SE-0012 SPECIFICATION FOR ELECTRICAL HEAT TRACING (BK-TNHA)
- Other drawings and other documents in Appendix 1
- International Codes and Standards
- Standard industry practices





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5. DELIVERY PLACE AND DELIVERY LEAD TIME

All GOODS shall be delivered at Vietsovpetro warehouse, No.67, 30/4 Road, Rach Dua Ward, Ho Chi Minh City, S.R Vietnam or Vietsovpetro Port, No. 69, 30/4 Road, Rach Dua Ward, Ho Chi Minh City, S.R Vietnam.

Delivery time of GOODS shall be not later than **134 calendar** days after receipt of LOI “Letter of Intent”/ LOA “Letter of Award” including the time for vendor data review, FAT, packing/ handling, shipping, transportation, and delivery, etc.

Note: The VENDOR has to follow the CONTRACTOR/COMPANY’s HSE policies when delivering goods to Vietsovpetro warehouse and working at onshore/ offshore site.

6. COUNTRY OF ORIGIN

6.1 Equipment / main components and GOODS made in INDIA or CHINA shall not be used. Origin information such as “or equal”, “or equivalent” is not acceptable.

6.2 Except as specifically stated in clause 6.1 and the country of origin requirements for the main components and equipment listed in the table below, there are no other limitations or restrictions on country of origin of the GOODS.

No.	Description	Country of Origin
1	Heat Tracing Materials <ul style="list-style-type: none">- Self-Regulating Heating Cable- Low-Profile End Seal Kit- Single-Entry Power Kit with Junction Box- Low-profile Splice Kit- Temperature Sensor RTD- Surface Sensing Electronic Thermostat- Accessories for Junction Box and Thermostat- Small Pipe Adapter- Mounting bracket- Tank Adapter- Fixing tape- Warning Label- Fixing tape- Pipe Strap	EU, G7, Russia, Singapore, Australia, Malaysia, Korea
2	Junction Boxes	EU, G7, Russia, Singapore, Australia, Malaysia, Korea
3	Heat Tracing Distribution Panel	EU, G7, Russia, Singapore, Australia, Malaysia, Korea



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7. YEAR OF MANUFACTURE

All GOODS shall be 100% brand new, unused, and manufactured in 2025 or later.

8. WARRANTY

The VENDOR shall warrant that all GOODS shall fully conform to the specifications; be new and of the best quality for their respective types; be free from any defects in design, workmanship and material; and be of sufficient size, capacity and/or constructed of proper materials to fulfil all operating conditions specified by the CONTRACTOR/COMPANY.

The VENDOR shall provide a warranty and performance Guaranteed term is specified to be eighteen (24) months from delivery date or twelve (30) months after the package have been successfully commissioned offshore, whichever comes first.

9. CERTIFICATION

All relevant certificates must be confirmed or committed to provide and to be submitted before delivery, but not limited to the following:

- Certificate of Origin issued by Chamber of Commerce of Manufacturer's Country or Exporter Country: Original
- Certificate of Quality and Quantity issued by Manufacturer: Original
- Type Approval Certificate issued by third party (for Electrical & Instrument Cables): Original or Certified Copy by Manufacturer
- Test report issued by Manufacturer (for Electrical & Instrument Cables): Original
- Type Examination Certification (for Heat Tracing Materials): Original or Certified copy by Manufacturer
- Material certificate issued by Manufacturer (for Heat Tracing Materials and Junction Boxes): Original or Certified copy by Manufacturer
- Certificates of Explosion protection, Ingress Protection (Where applicable) issued by third party (for Heat Tracing Materials, Junction Boxes and DB): Certified copy by Manufacturer
- FAT report/ certificate witnessed by one of recommended TPI: Original
- Certificate of Offshore Product issued by VR in case of the completed package manufactured in Vietnam or Certificate of Offshore Product/ Compliance / Conformity issued by one of the recommended TPI: Original
- Warranty certificate issued by Bidder/Vendor: Original
- Onshore mechanical completion and pre-commissioning with VENDOR's witness report: shall be issued by the VENDOR after completion of onshore pre-commissioning.
- *Offshore commissioning and start-up (SAT) with VENDOR's witness report*: shall be issued by VENDOR after completion of offshore commissioning and start-up.
- *The VENDOR shall be fully responsible for obtaining necessary certifying authority approval for the completed Heat Tracing System to be installed and*



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operated on the fixed offshore platform in compliance with the mandatory laws, standards and regulations of Vietnam.

Note:

1. The BIDDER/VENDOR shall specify an accredited Independent Party in the Proposal, subject to approval by the CONTRACTOR/COMPANY.
2. The recommended Third-Party (TPI) are American Bureau of Shipping (ABS), Bureau Veritas (BV), Det Norske Veritas (DNV) and Lloyd's Register (LR) Organization. In the event of force major conditions, if the VENDOR proposes an alternative Third Party, the VENDOR must provide a justification document. The proposed alternative TPI must be a member of the International Association of Classification Societies (IACS) and subject to approval by the CONTRACTOR/COMPANY.

10. EXPERIENCE

- The BIDDER/VENDOR shall have successfully provided at least one (01) Heat Tracing System for offshore/marine application for the last 5 years.
- The MANUFACTURER of the following equipment: Heat Tracing System - shall have manufactured at least two (02) sets of such equipment for offshore/marine applications for the last 5 years.

Note: In the event that the BIDDER/VENDOR is a consortium, a signed Responsibility Matrix clearly defining the scope of each consortium member shall be provided and submitted as part of the proposal.

11. DOCUMENT REQUIREMENT

11.1 Technical Documents with Proposal

The BIDDER is requested to submit a complete set of Technical Documentation as part of its bid, properly arranged and clearly marked, and meeting the following minimum requirements:

- ✓ All documents shall be in English
- ✓ Detailed scope of supply (list), specifying the exact model or part number, manufacturer, origin and quantity for each item (no information or any description such as “or equal”, “or equivalent” is not acceptable).
- ✓ Detailed scope of work and service.
- ✓ Technical deviation/ exception list. Statement of compliance to all specified requirements. Non-listing of deviations shall be construed that the Bidder/Vendor complies with all the specified requirements.
- ✓ List of bidding documents and drawings



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- ✓ Detailed technical description of the Heat Tracing System Package, signed and stamped by the Manufacturer.
- ✓ Completed and full filled-in Datasheet of Heat Tracing System Package (Doc. No. 9001-2201-KE-0020, 9001-2300-KE-0001), signed and stamped by the Manufacturer
- ✓ Catalog or Manufacturer's technical data/specification with highlighted proposal Part no./Model for all equipment (Distribution Board; Junction Box; Self-Regulating Heating Cable; Thermostat; Cable; Cable Glands; etc.)
- ✓ General Arrangement Drawing (WxDxH overall dimension, weight, part, material, etc.), signed and stamped by the Manufacturer.
- ✓ Single Line Diagram of Heat Tracing System, signed and stamped by the Manufacturer.
- ✓ Manufacturer's profiles.
- ✓ Manufacturer's track record: Reference Project List in the last 5 years.
- ✓ Bidder/Vendor track record: Copied contract with detailed bill of material and/or experience evidence in the last 5 years.
- ✓ Signed Responsibility Matrix (in the event that the Bidder/Vendor is a consortium).
- ✓ Organization Charge and Curriculum Vitae (CV) of key personnel.
- ✓ Curriculum Vitae (CV) and required valid certificates of the Vendor's qualified Expert/Personnel for site/field services.
- ✓ Authorized/ Supporting or Commitment Letter from Manufacturers to confirm to provide their products with fully technical support in case Bidder/ Vendor is awarded the contract.
- ✓ Project execution plan;
- ✓ Level 3 Project Schedule including Engineering, Procurement, Manufacturing, Test and Delivery.
- ✓ Quality Management System Certificate (Manufacturers and Vendor)
- ✓ HSE policy, HSE Management Procedure(s) and Annual Safety Reports in the recent years (Manufacturers and Vendor)
- ✓ Inspection and Test Plan (ITP) (sample)
- ✓ Ingress Protection and Explosion Protection certificate for Ex electrical and Ex instrument equipment issued by Third Party
- ✓ Type Approval Certificate issued by a recognized testing authority in accordance with the relevant IEC standards.
- ✓ Certificate of Offshore Product/ Compliance/ Conformity issued by VR or member of IACS for Heat Tracing System (sample).
- ✓ Test report issued by the Manufacturer (Sample)
- ✓ List of spare parts for pre-commissioning, commissioning and start-up (Un-priced)



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- ✓ List of recommended spare parts for 2 years of normal operation (Un-priced)
- ✓ List of special tools for installation, operation and maintenance (Un-priced)
- ✓ Sub-vendor(s) list of equipment and main components including country of origin in its.
- ✓ And other documents or drawings with bids are required in VDRL in MR No. 9001-2201-QE-0006 and 9001-2300-QE-0001.

Note: All documents and drawings in tender proposal shall be provided with: one (01) original and three (03) copies and one (01) set of electronic copy on USB device.

11.2 Vendor Data After LOI/LOA:

The VENDOR is fully responsible for submitting the Vendor Data Register List (VDRL) and Vendor Data as required in the “Documentation” section of project documents for CONTRACTOR/COMPANY review after LOI/LOA.

CONTRACTOR/COMPANY REVIEW AND APPROVAL FOR ENGINEERING DOCUMENTS:

The VENDOR shall submit technical documents for review/ approval before construction commences. The list and schedule of these documents are specified in the Material Requisition.

Generally, in relation to any documentation to be reviewed by CONTRACTOR/COMPANY, the VENDOR shall allow a standard period of ten (10) Business Days for review and comments. The CONTRACTOR/COMPANY shall make every reasonable effort to reduce this ten (10) Business Days review/approval period for critical documents if requested by the VENDOR on a case-by-case basis. After receiving CRSs/comments from the CONTRACTOR/COMPANY, the VENDOR shall re-submit the revised documents within five (05) Business Days, unless an extension is proposed and agreed upon by both Parties.

11.3 All Final Documents:

All Final Documents shall be provided with one (1) original and three (3) copies and two (2) set of electronic copy on USB devices.

12. APPENDICES:

- Appendix 1: Technical documents.
- Appendix 2: Bill of materials for heat tracing system.

NOTE: All detailed engineering design documents and drawings are the VENDOR's scope.