



ZARUBEZHNEFT EP VIETNAM B.V.

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



**Approved by OCD Director
"VIETSOVPETRO"**

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

**TECHNICAL REQUIREMENT
FOR SAFETY EQUIPMENT PACKAGE
(BK – TNHA & RD-HTI)**

DOCUMENT NO. : 9001-2000-QY-2101-B2





**THIEN NGA – HAI AU PHASE 1 PROJECT
BLOCK 12/11, OFFSHORE VIETNAM
TECHNICAL REQUIREMENT FOR SAFETY EQUIPMENT
PACKAGE (BK-TNHA & RD-HTI)**

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**THIEN NGA – HAI AU PHASE 1 PROJECT
BLOCK 12/11, OFFSHORE VIETNAM
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PACKAGE (BK-TNHA & RD-HTI)**

REVISION RECORD SHEET

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**THIEN NGA – HAI AU PHASE 1 PROJECT
BLOCK 12/11, OFFSHORE VIETNAM
TECHNICAL REQUIREMENT FOR SAFETY EQUIPMENT
PACKAGE (BK-TNHA & RD-HTI)**

TABLE OF CONTENTS

1. INTRODUCTION.....	5
2. DEFINITIONS AND ABBREVIATIONS	7
3. SCOPE OF WORK/SUPPLY	8
4. SPECIFIC INSTRUCTION TO VENDOR	13
5. TECHNICAL REQUIREMENT.....	14
6. YEAR OF MANUFACTURE:	15
7. DELIVERY TERM AND SCHEDULE	15
8. COUNTRY OF ORIGIN	15
9. WARRANTY.....	15
10. CERTIFICATION.....	15
11. VENDOR CAPABILITY AND EXPERIENCE	16
12. VENDOR DATA REQUIREMENT LIST – VDRL	16
13. INSPECTION AND TEST REQUIREMENT.....	16
APPENDIX 1.....	18





THIEN NGA – HAI AU PHASE 1 PROJECT BLOCK 12/11, OFFSHORE VIETNAM TECHNICAL REQUIREMENT FOR SAFETY EQUIPMENT PACKAGE (BK-TNHA & RD-HTI)

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.



THIEN NGA – HAI AU PHASE 1 PROJECT BLOCK 12/11, OFFSHORE VIETNAM TECHNICAL REQUIREMENT FOR SAFETY EQUIPMENT PACKAGE (BK-TNHA & RD-HTI)

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.

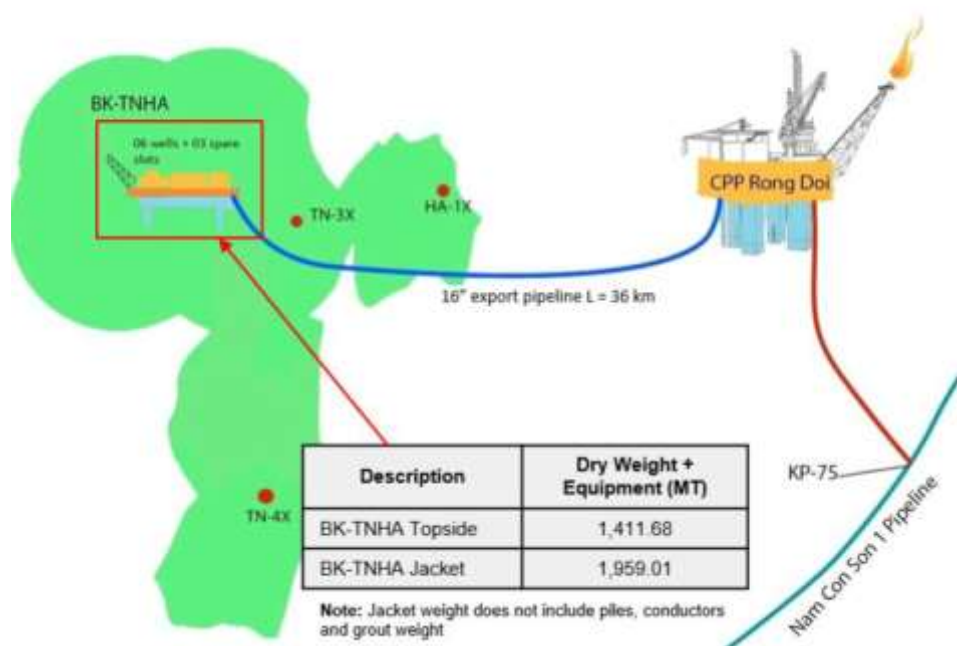


Figure 1.2: Thien Nga Hai Au Development Scheme In Phase 1



**THIEN NGA – HAI AU PHASE 1 PROJECT
BLOCK 12/11, OFFSHORE VIETNAM
TECHNICAL REQUIREMENT FOR SAFETY EQUIPMENT
PACKAGE (BK-TNHA & RD-HTI)**

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	Party that provides services to perform scope and services on behalf of CONTRACTOR
SUPPLIER/VENDOR	Party responsible for the manufacturing and/or supply of materials, equipment, technical documents/drawings, and services to perform the duties specified by CONTRACTOR
BIDDER	The party which participates in one set of bidding documents either as independent or Consortium and will sign contract with COMPANY/CONTRACTOR.
PACKAGER	The party which carries out design, procurement, fabrication, assembled and completed testing for SAFETY EQUIPMENT PACKAGE (BK-TNHA & RD-HTI)
MANUFACTURER	The company, corporation who manufactures equipment, components of SAFETY EQUIPMENT PACKAGE (BK-TNHA & RD-HTI)
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	An Independent 3rd Party Certifying SAFETY EQUIPMENT PACKAGE (BK-TNHA & RD-HTI) Authority appointed by VENDOR approved by the Company for certifying specific equipment/equipment packages fabricated at VENDOR’s shop



**THIEN NGA – HAI AU PHASE 1 PROJECT
BLOCK 12/11, OFFSHORE VIETNAM
TECHNICAL REQUIREMENT FOR SAFETY EQUIPMENT
PACKAGE (BK-TNHA & RD-HTI)**

2.2 ABBREVIATION

BK-TNHA	Thien Nga Hai Au Wellhead platform
DIFFS	Deck Integrated Fire Fighting System
RD CPP	Central Processing Platform Rong Doi
FAT	Factory Acceptance Test
SAT	Site Acceptance Test
PMI	Positive Material Identification
VDRL	VENDOR Data Requirement List
WHd	Rong Doi Wellhead Platform
GOODS	SAFETY EQUIPMENT PACKAGE (BK-TNHA & RD-HTI)

3. SCOPE OF WORK/SUPPLY

This technical requisition defines the minimum functional requirements for the engineering design, supplies of new materials, manufacture, assembly, inspection, testing, certification, painting, packing, preservation, preparation for shipment, documentation, delivery, support services for installation SAFETY EQUIPMENT PACKAGE (BK-TNHA & RD-HTI) for THIEN NGA – HAI AU PHASE 1 Project hereinafter referred to as “GOODS” hereinafter referred to as “GOODS” .

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

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

Item No.	Quantity	Description
A. SCOPE OF SUPPLY		
I. BK-TNHA		
FIRE FIGHTING EQUIPMENT		
1	14	9 Kg Dry Chemical Powder Portable Fire Extinguisher with weatherproof cabinet
2	1	45 Kg Dry Chemical Powder Wheeled Fire Extinguisher with weatherproof cover





**THIEN NGA – HAI AU PHASE 1 PROJECT
BLOCK 12/11, OFFSHORE VIETNAM
TECHNICAL REQUIREMENT FOR SAFETY EQUIPMENT
PACKAGE (BK-TNHA & RD-HTI)**

3	3	5 Kg Carbon Dioxide (CO ₂) Portable Fire Extinguisher with weatherproof cabinet
4	1	18 Kg Carbon Dioxide (CO ₂) Wheeled Fire Extinguisher with lance, with weatherproof cover
5	2	45L Alcohol Resistant Aqueous Film Foaming Foam Wheeled Fire Extinguisher with weatherproof cover
6	3	Fixed Firewater Monitor
LIFE SAVING APPLIANCES		
1	2	Liferaft (12 men) with all accessories
2	2	Scramble Net
3	2	Life Jacket Cabinet with 12 life jackets
4	12	Life Buoy With Self Igniting Light And Smoke Signal
5	19	Life Buoy With Self Igniting Light and Lifeline
SAFETY EQUIPMENT		
1	2	Mobile Self-Contained Safety Shower and Eyewash
2	1	Personnel Transfer Basket
3	2	Chemical Spill Kit
4	1	Helicopter Crash Kit
5	1	Portable Eyewash
SAFETY SIGNS		
1	14	Dry Chemical Powder Portable Fire Extinguisher
2	1	Dry Chemical Powder Wheeled Fire Extinguisher
3	4	Carbon Dioxide (CO ₂) Portable Fire Extinguisher
4	1	Carbon Dioxide (CO ₂) Wheeled Fire Extinguisher
5	2	AR-AFFF Foam Wheeled Fire Extinguisher
6	3	Firewater Monitor





**THIEN NGA – HAI AU PHASE 1 PROJECT
BLOCK 12/11, OFFSHORE VIETNAM
TECHNICAL REQUIREMENT FOR SAFETY EQUIPMENT
PACKAGE (BK-TNHA & RD-HTI)**

7	1	DIFF System
8	2	DIFF System Activation Button
9	12	Life Buoy With Self Igniting Light And Smoke Signal
10	19	Life Buoy With Self Igniting Light and Lifeline
11	2	Liferaft
12	2	Scramble Net
13	2	Life Jacket With Cabinet
14	1	Personal Transfer Basket
15	2	Safety Shower And Eyewash Station
16	1	Eyewash Station
17	1	Helicopter Crash Kit
18	2	Chemical Spill Kit
19	11	Escape Route Exit Right
20	12	Escape Route Exit Left
21	5	Escape Route Exit Down
22	3	Escape Route Exit Up
23	1	Primary Muster Area
24	2	Secondary Muster Area
25	3	Caution! Wear Hearing Protection
26	1	Low Headroom
27	1	Overhead Rotating Blade
28	2	Caution! Microwave Hazard In This Area
29	1	Overhead Crane Area
30	2	Caution! Chemical Hazard





**THIEN NGA – HAI AU PHASE 1 PROJECT
BLOCK 12/11, OFFSHORE VIETNAM
TECHNICAL REQUIREMENT FOR SAFETY EQUIPMENT
PACKAGE (BK-TNHA & RD-HTI)**

31	1	Caution! Hazardous Chemicals
32	10	PPE Must Be Worn
33	3	Keep Clear Laydown Area
34	10	Safety Plan
35	10	General Platform Alarm Sign
36	1	Access To Boat Landing
37	16	No Smoking
38	1	Restricted Area : Authorised Personnel Only
39	1	No Fishing
40	1	Restricted Entry To Jacket Walkway
41	1	Restricted Entry To Helideck
II. RD-HTI		
FIRE FIGHTING EQUIPMENT		
1	1	9 Kg Dry Chemical Powder Portable Fire Extinguisher with weatherproof cabinet
2	19	Spray nozzle (K-factor: 33.1) with spray angle 180 degree (included spares)
3	9	Spray nozzle (K-factor: 33.1) with spray angle 160 degree (included spares)
4	21	Spray nozzle (K-factor: 33.1) with spray angle 140 degree (included spares)
5	11	Spray nozzle (K-factor: 33.1) with spray angle 125 degree (included spares)
SAFETY, LIFE SAVING EQUIPMENT AND SAFETY SIGN		
1	3	Ring Lifebuoy With Lifeline, Self Igniting Light And Smoke Signal



**THIEN NGA – HAI AU PHASE 1 PROJECT
BLOCK 12/11, OFFSHORE VIETNAM
TECHNICAL REQUIREMENT FOR SAFETY EQUIPMENT
PACKAGE (BK-TNHA & RD-HTI)**

2	1	Safety Sign 9kg Dry Chemical Powder Portable Fire Extinguisher
3	3	Safety Sign Ring Lifebuoy With Lifeline, Self Igniting Light And Smoke Signal
III. OTHERS		
1	1 lot	Nameplate for equipment including equipment tag.
2	1 lot	Any other miscellaneous items necessary for fully functional, safe, reliable, and trouble-free operation
3	1 lot	Start-up, pre-commissioning and commissioning spares
4	1 lot	First fill of extinguishing media (100% of capacity for spare) and other consumable(s)
5	1 lot	Suitable lifting devices for single point lifting of entire equipment (spreader bar, slings and shackles, 3rd party certified) for transportation and installation of skid at fabrication yard
6	1 lot	Special tools/ hand pumps/flexible hoses for installation, operation, tank fill-up and maintenance (when applicable).
7	1 lot	All anchor bolts and nuts fit the equipment to the platform in accordance with platform deck and structural design.
B. SCOPE OF WORK		
1	1 lot	Selection of materials inclusive of all welding and consumables, testing, protection devices and all other necessary materials and services.
2	1 lot	Complete inspection, QA/ QC and testing requirements including hydrostatic testing as defined in the specification along with all supporting documentation
3	1 lot	Inspection and testing as agreed with COMPANY.
4	1 lot	Recommended list of spares for two (2) year operations including itemized pricing shall be submitted.
5	1 lot	Surface Preparation and Painting





**THIEN NGA – HAI AU PHASE 1 PROJECT
BLOCK 12/11, OFFSHORE VIETNAM
TECHNICAL REQUIREMENT FOR SAFETY EQUIPMENT
PACKAGE (BK-TNHA & RD-HTI)**

6	1 lot	3D PDMS model of the skid
7	1 lot	Packing, marking, preservation and suitable preparation for transportation and storage at site.
8	-	Provision of additional service as applicable
9	1 lot	Complete drawings and documentation in accordance with VDRL
10	1 lot	All necessary certifications include but are not limited to materials certifications and Third- Party Certification.
11	1 lot	Transportation from VENDOR workshop to the point of delivery
12	1 lot	Site verification visit and testing, hook-up, and commissioning assistance (per diem basis) if required
13	1 lot	Procurement of applicable materials as per specifications, data sheets and relevant international, national codes and standards

4. SPECIFIC INSTRUCTION TO VENDOR

The VENDOR's submissions shall provide sufficient data to allow the equipment to be evaluated against the total life of field costs estimated to be incurred if required. In this respect, capital equipment cost, cost of spares, utilities and power consumptions and maintenance requirements will be considered. The loss of revenue (production) costs will be as part of the equation considered by CLIENT.

The VENDOR shall submit full technical details of this VENDOR's furnished equipment packages, which shall meet the requirements detailed herein. Aspects of the requirement, which cannot be met, shall be identified and variances explained, and to be either approved or disapproved by PURCHASER / CLIENT.

VENDOR shall submit the List of Manufacturer(s) / Sub-Contractor(s) and Country of Origin included in its proposal for CLIENT / PURCHASER evaluation.

VENDOR without any prejudice shall have single point of responsibility to ensure the manufacturers are in compliance to the CONTRACT standards, Specifications and international codes and standards; in term of quality assurance and product certification. Any schedule impact and cost for replacement as a result of rejection or defective items shall be fully under VENDOR's responsibilities. Provision of VENDOR data in accordance with VENDOR Data Requirement List (VDRL) in Section 7 of this Technical Requisition.



**THIEN NGA – HAI AU PHASE 1 PROJECT
BLOCK 12/11, OFFSHORE VIETNAM
TECHNICAL REQUIREMENT FOR SAFETY EQUIPMENT
PACKAGE (BK-TNHA & RD-HTI)**

The VENDOR must provide all information requested including a list of exceptions and non-conformities to the data sheets and specifications listed in this Technical Requisition. Any exception / deviation not listed anywhere else in the Bid Proposal shall not be considered.

Electronic Copies (Hard Drive / USB) of documents are required where indicated on VENDOR Data Requirements List (VDRL).

5. TECHNICAL REQUIREMENT

All GOODS shall be complied with all Technical Documents listed in Appendix 1 of this technical requirement.

All documents and drawings in the Appendix 1 are technical requirements for GOODS. All detail engineering design documents and drawings for the GOODS is Bidder/Vendor's scope.

In the event of any conflict between this Technical Requirement, Datasheets, Specification, Drawing and other Documents, the order of the precedence of the documents is as follows:

- Mandatory Laws, Standards and Regulation of Vietnam
- This Technical Requirement.
- 9001-2300-SY-0001_ Specifications For Fire Fighting, Life Saving Appliances and Safety Equipment (BK-TNHA)
- 9001-2300-SY-0002_ Specifications For Safety Signs (BK-TNHA)
- 9001-2201-KY-0001_ Datasheets for Fire Fighting, Life Saving Appliances and Safety Equipment (BK-TNHA)
- 9001-2201-KY-0002_ Datasheets for Safety Signs (BK-TNHA)
- 9001-2201-QY-0002_ Material Requisition for Fire-Fighting, Life Saving Appliances, Safety Equipment and Safety Signs (BK-TNHA)
- 9001-2000-SY-0001_ Specification For Fire Fighting, Safety, and Life Saving Equipment and Safety Sign (RD-HTI)
- 9001-2000-KY-0001_ Datasheets For Fire Fighting, Safety, and Life Saving Equipment and Safety Sign (RD-HTI)
- 9001-2300-QY-0001_ Material Requisition for Fire-Fighting, Life Saving Appliances, Safety Equipment and Safety Signs (RD-HTI)
- Other drawings in Appendix 1.
- Other documents in Appendix 1.
- International Codes and Standards (Refer to Doc.: 9001-2201-QY-0002_ Material Requisition for Fire-Fighting, Life Saving Appliances, Safety Equipment and Safety Signs) .



**THIEN NGA – HAI AU PHASE 1 PROJECT
BLOCK 12/11, OFFSHORE VIETNAM
TECHNICAL REQUIREMENT FOR SAFETY EQUIPMENT
PACKAGE (BK-TNHA & RD-HTI)**

- Standard industry practices.

6. YEAR OF MANUFACTURE:

Goods must be brand new and manufactured in 2025 year or later.

7. DELIVERY TERM AND SCHEDULE

All Goods shall be delivered at Vietsovetro Warehouse, No.67, 30/4 Road, Thang Nhat Ward, Vung Tau City, S.R Viet Nam or Vietsovetro Port, No.69, 30/4 Road, Thang Nhat Ward, Vung Tau City, S.R Viet Nam.

Delivery time of goods, including design, fabrication, testing, packing/handling, shipping and transportation... time is required 180 days from LOA. (Supplier to submit Engineering, Procurement, Manufacturing and Test Schedule 02 weeks after PO signed and update every 02 weeks)

- *Note: Bidder/Vendor has to follow Vietsovetro's HSE policy when delivery Goods to Vietsovetro site/port and work at onshore/offshore site.*

8. COUNTRY OF ORIGIN

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.

9. WARRANTY

The warranty and Performance Guarantee of GOODS shall be 24 months from the date of received GOODS.

10. CERTIFICATION

All certificates shall be original. Certificates which are not original must be Certified True Copy by manufacturer/importer.

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

- Certificate of Origin issued by the Commerce Department of Manufacturer's country or Export Country
- Certificate of quality, quantity Certificate of Compliance /Certificate of Comformity issued by Manufacturer
- Certification for material shall be as per EN 10204 and shall be type 3.1. All material certificates shall be kept for COMPANY's review.
- Certifications for surface preparation, coating and painting as stipulate on datasheets/specification if any by manufacturer : Original/ Certified Copy
- Test/Inspection Certificate be issued by Manufacturer: : Original/Certified Copy





**THIEN NGA – HAI AU PHASE 1 PROJECT
BLOCK 12/11, OFFSHORE VIETNAM
TECHNICAL REQUIREMENT FOR SAFETY EQUIPMENT
PACKAGE (BK-TNHA & RD-HTI)**

- Type approval certificate be issued by Third party. The Certifying Agency shall be either DNV; Bureau Veritas; Lloyd’s Register or American Bureau of Shipping (ABS). As stipulate on Datasheets & Specification : Certified Copy
- Certificate of Offshore Product issued by VR for design, fabrication and testing as per technical requirement for the completed package in case of complete package manufactured in Vietnam. or Certificate of Offshore Product/ Compliance / Conformity issued by VR or one of ABS, BV, DNV and LR Organization for design, fabrication and testing as per technical requirement for the completed package.
- Warranty Certificate issued by Bidder/Vendor

11. VENDOR CAPABILITY AND EXPERIENCE

Bidder/VENDOR shall have 02 (two) similar contracts in the last 05 (five) years.

12. VENDOR DATA REQUIREMENT LIST – VDRL

Refer to Appendix D, Doc No: 9001-2201-QY-0002_Material Requisition for SAFETY EQUIPMENT (BK-TNHA) and Doc No: 9001-2300-QY-0001_Material Requisition for Fire-Fighting, Life Saving Appliances, Safety Equipment and Safety Signs (RD-HTI)

13. INSPECTION AND TEST REQUIREMENT

The VENDOR shall assume final responsibility for the inspection and testing of the equipment in accordance with the requirements of the referenced codes and standards. The VENDOR shall be responsible for obtaining statutory approval in the instance where the equipment is subject to such approval. Inspection and testing shall be in accordance with applicable specified Standards and Codes. Inspection and Test Plans (ITP) shall be submitted to the CLIENT/PURCHASER for review at the bid stage. The agreed ITP shall be part of VENDOR scope of supply. The VENDOR shall indicate in its bid the location of key production, inspection or testing activities (as identified in the Inspection and Testing Plan). These locations shall not be changed at all times. VENDOR’s ITP shall include the minimum activities and requirement as described in the typical ITP.

The CLIENT/PURCHASER and/or CLIENT/PURCHASER’s inspection authority shall be given at any time full access to VENDOR’s premise to inspect the VENDOR’s manufacturing facilities, including major sub-VENDOR’s manufacturing facilities, to confirm that satisfactory quality assurance and production procedures are being implemented. The VENDOR shall make available all relevant QA procedures and records for review.

The VENDOR shall provide to the CLIENT/PURCHASER or CLIENT/PURCHASER’s representative, without charge, all facilities and access for





**THIEN NGA – HAI AU PHASE 1 PROJECT
BLOCK 12/11, OFFSHORE VIETNAM
TECHNICAL REQUIREMENT FOR SAFETY EQUIPMENT
PACKAGE (BK-TNHA & RD-HTI)**

satisfying himself that the equipment being manufactured shall be in accordance with the requirement of this Technical Requisition, relevant datasheet, Codes and Standards.

The ITP shall refer to Doc.: 9001-2201-QY-0002_ Material Requisition For SAFETY EQUIPMENT. (BK-TNHA)





**THIEN NGA – HAI AU PHASE 1 PROJECT
BLOCK 12/11, OFFSHORE VIETNAM
TECHNICAL REQUIREMENT FOR SAFETY EQUIPMENT
PACKAGE (BK-TNHA & RD-HTI)**

APPENDIX 1

LIST OF TECHNICAL DOCUMENTS

https://drive.google.com/drive/folders/1FruJsHAUj5nDrMMdGr0NNAOCrllpimXE?usp=drive_link

Item	Document №	Rev.	Description	Remark
COMPANY Standards				
1	TNHA-2000-SG-0004		Supplier Data Requirements	
2	TNHA-2000-SG-0005		SDRL Master Listing	
3	TNHA-2000-SG-0006		Compilation of Supplier Data Manuals for Handover	
Standard Forms				
1	-		Inspection and Test Plan	Refer to MR
2	-		Deviation List	Refer to MR
Project Reference Documents				
1	9001-2201-AM-0001	B1	Mechanical Design Basis (BK-TNHA)	
2	9001-2201-RT-0002	A1	Corrosion Design Basis Memorandum (BK-TNHA)	
General Document				
1	9001-2201-FY-0001	B1	Safety And Loss Prevention Philosophy (BK-TNHA)	
2	9001-2201-FY-0002	B1	Hazardous Area Classification (HAC) Philosophy(BK-TNHA)	
3	9001-2201-FY-0003	B1	Escape, Evacuation & Rescue Philosophy BK-TNHA	
4	9001-2201-FY-0004	C1	Human factors Engineering (HFE) Terms of Reference (TOR) for BK-TNHA	
Specification And Datasheet				
1	9001-2300-SY-0001	A1	Specifications For Fire Fighting, Life Saving Appliances and Safety Equipment (BK-TNHA)	
2	9001-2300-SY-0002	A1	Specifications For Safety Signs (BK-TNHA)	



**THIEN NGA – HAI AU PHASE 1 PROJECT
BLOCK 12/11, OFFSHORE VIETNAM
TECHNICAL REQUIREMENT FOR SAFETY EQUIPMENT
PACKAGE (BK-TNHA & RD-HTI)**

Item	Document №	Rev.	Description	Remark
3	9001-2000-SY-0001	A1	Specification For Fire Fighting, Safety, and Life Saving Equipment and Safety Sign (RD-HTI)	
4	9001-2201-KY-0001	A1	Datasheets for Fire Fighting, Life Saving Appliances and Safety Equipment (BK-TNHA)	
5	9001-2201-KY-0002	A1	Datasheets for Safety Signs (BK-TNHA)	
6	9001-2000-KY-0001	A1	Datasheets For Fire Fighting, Safety, and Life Saving Equipment and Safety Sign (RD-HTI)	
7	9001-2201-QY-0002	A1	Material Requisition for Fire-Fighting, Life Saving Appliances, Safety Equipment and Safety Signs (BK-TNHA)	
8	9001-2300-QY-0001	A1	Material Requisition for Fire-Fighting, Life Saving Appliances, Safety Equipment and Safety Signs (RD-HTI)	
Drawing				
1	9001-2201-DY-0001-01	B1	Escape Route, Fire Fighting, Safety And Life Saving Equipment Layout BK-TNHA Main Deck	
2	9001-2201-DY-0002-01	B1	Escape Route, Fire Fighting, Safety And Life Saving Equipment Layout BK-TNHA Mezzanine Deck	
3	9001-2201-DY-0003-01	B1	Escape Route, Fire Fighting, Safety And Life Saving Equipment Layout BK-TNHA Cellar/Sub Cellar/Drilling Deck	
4	9001-2201-DY-0004-01	B1	Escape Route, Fire Fighting, Safety And Life Saving Equipment Layout BK-TNHA Jacket Walkway/Boat Landing	
5	9001-2201-DY-1001-01	B1	Safety Sign Layout BK-TNHA Main Deck	
6	9001-2201-DY-1002-01	B1	Safety Sign Layout BK-TNHA Mezzanine Deck	
7	9001-2201-DY-1003-01	B1	Safety Sign Layout BK-TNHA Cellar/Sub-Cellar	



**THIEN NGA – HAI AU PHASE 1 PROJECT
BLOCK 12/11, OFFSHORE VIETNAM
TECHNICAL REQUIREMENT FOR SAFETY EQUIPMENT
PACKAGE (BK-TNHA & RD-HTI)**

Item	Document №	Rev.	Description	Remark
8	9001-2201-DY-1004-01	B1	Safety Sign Layout BK-TNHA Jacket Walkway/Boat Landing	
9	VN01-220-R-DW-1109	B1	RONG DOI WHD ESCAPE ROUTE	
10	VN01-230-R-DW-1116	B1	PUQC SAFETY LAYOUT - MAIN DECK	
11	VN01-230-R-DW-1117(M)	B1	PUQC SAFETY LAYOUT - CELLAR DECK	
12	VN01-230-R-DW-1117A	B1	PUQC SAFETY LAYOUT - CELLAR DECK	
13	VN01-220-R-DW-1111	B1	RONG DOI WHD FIRE FIGHTING LAYOUT	
14	VN01-230-R-DW-1122	B1	RONG DOI PUQC FIRE FIGHTING MAIN DECK	
15	VN01-230-R-DW-1123	B1	RONG DOI PUQC FIRE FIGHTING CELLAR DECK	
16	VN01-230-R-DW-1123A	B1	RONG DOI PUQC FIRE FIGHTING CELLAR DECK	
17	VN01-220-P-DW-2015	B1	WHd FIREWATER P&ID	
18	VN01-230-P-DW-2197-02(M)	B1	PUQC F.WATER P&ID MAIN DECK	
19	VN01-230-P-DW-2197-03	B1	PUQC F.WATER P&ID CELLAR & SUB-CELLAR DECK	

Note: Technical documents may be updated and complement during bidding stage.