



**DAI HUNG NAM PROJECT, DAI HUNG FIELD DEVELOPMENT,
BLOCK 05.1(a), OFFSHORE VIETNAM**

**Approved by Director
“OCD - VIETSOVPETRO”**

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

**TECHNICAL REQUIREMENT
FOR MONEL SHEATHING FOR RISER SPLASH ZONE**

Ref No: WHP-DHN-B.II.19-TR

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Agreed by:

Deputy Director of OCD – VSP

Le Quoc Anh

Checked by:

Manager of Project Manager Dept.

Tran Nguyen Hung

Manager of Design Dept.

Tran Sy Thai

Project Manager

Tran Van Dung

Deputy Project Manager

Tran Hung Vuong

Engineering Manager

Nguyen Quyet Chien

Engineer of Project Manager Dept.

Do Tat Dat

Prepared by:

Engineer of Design Dept.

Do Hoang Vu

Engineer of Project Manager Dept.

Nguyen Tuan Diep



TABLE OF CONTENTS

1.	GENERAL INFORMATION	5
1.1	OPERATOR.....	5
1.2	SITE LOCATION	5
1.3	PROJECT DESCRIPTION	5
2.	PURPOSE AND SCOPE	7
3.	DEFINITIONS AND ABBREVIATIONS	8
3.1	DEFINITIONS	8
4.	SPECIFIC TECHNICAL REQUIREMENT	9
5.	LIST OF TECHNICAL DOCUMENTS.....	9
5.1	PROJECT DOCUMENTS & DRAWINGS	9
6.	WARRANTY	9
7.	YEAR OF MANUFACTURE	9
8.	RECOMMENDED COUNTRY OF ORIGIN AND MANUFACTURER	9
9.	DELIVERY TIME AND PLACE.....	9
10.	CERTIFICATES OF GOODS	10
11.	BIDDER AND MANUFACTURER CAPABILITY AND EXPERIENCE	10
12.	TECHNICAL PROPOSAL.....	10
13.	APPENDICES.....	11



1. GENERAL INFORMATION

1.1 OPERATOR

The operating company for Dai Hung field, Block 05-1(a) is Domestic Petroleum Operating Branch - Petrovietnam Exploration Production Corporation Limited (PVEP-POC)

1.2 SITE LOCATION

Dai Hung field of Block 05-1(a) is approximately 250 km from the coastline of the South-Eastern Vietnam and situated in a water depth of 110 m (average). The location map of Block 05-1(a) is as hereunder in Figure 1.2.1.

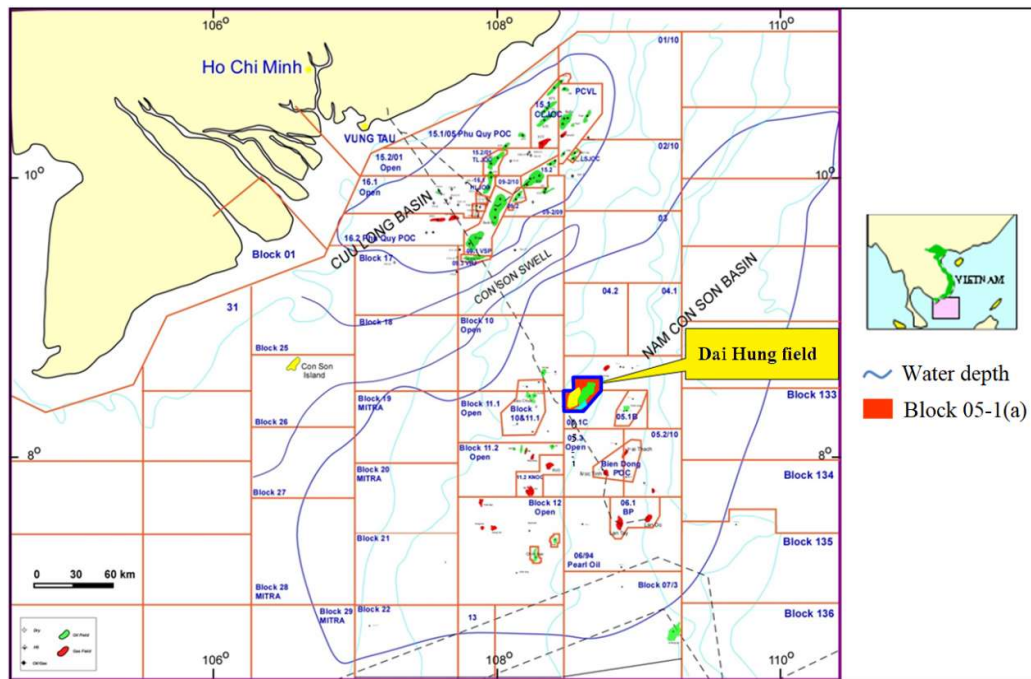


Figure 1.1.1: Block 05-1(a) Field Location

1.3 PROJECT DESCRIPTION

The current existing facilities within Dai Hung Field comprise of the followings:

- Floating Production Unit Dai Hung (FPU),
- The un-manned Wellhead platform DH01 (WHP-DH01) is located in northeast direction of FPU at a distance of about 2.5 km,
- The un-manned Wellhead platform DH02 (WHP-DH02) is located in southwest direction of FPU at a distance of about 5km,
- Mid depth buoys & Calm buoy,
- Subsea wells.
- Infield Pipelines:

- + Dual 6” subsea pipeline to transport the liquid from WHP-DH02 to FPU.
- + One 10” subsea pipeline to transport the liquid from WHP-DH01 to FPU.
- + One 6” fuel gas pipeline to supply fuel gas from WHP-DH01 to FPU.
- + One 8” water injection pipeline to supply water injection from FPU to WHP-DH01.
- + One 6” oil export pipeline to transport product liquid from the FPU to the FSO.
- + One 16” export gas pipeline to transport gas from WHP-DH02 to BK-TNG; and one 12” export gas pipeline length of approximately 5,21 km to transport gas from WHP-DH01 to subsea tie-in point of the 16” export gas pipeline above.

Infield submarine cable system.

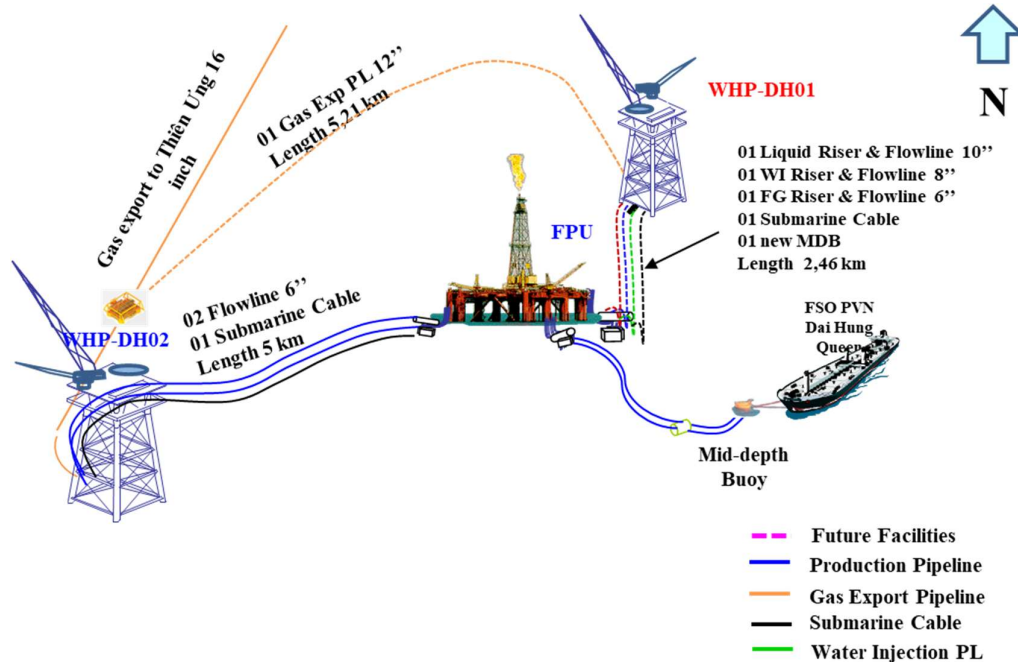


Figure 1.1.2: Existing Dai Hung field facilities in 2024

Dai Hung Nam (DHN) area is located in the southern part of Dai Hung field, approximately 3.5 km from the existing WHP-DH02 and 7.5 km from the current location of the FPU.

The field facilities in Dai Hung Nam Field Development are as follows:

- New unmanned wellhead platform WHP-DHN located near WHP-DH02. WHP-DHN will be designed with 11 well slots for drilling by jack-up rig. Full wellstream of WHP-DHN will be routed to a Production Separator (on WHP-DHN) then the separated liquid is transported to FPU for further processing, a separated associated gas is exported to BK-TNG.
- Infield Pipelines

- + One liquid rigid pipeline, transporting separated liquid from WHP-DHN to FPU through subsea tie-in point of existing 10" liquid flowline from WHP-DH01 to FPU.
 - + One gaslift rigid pipeline, transporting gaslift from WHP-DHN to WHP-DH02.
 - + One export gas/source gas, transporting separated associated gas/source gas from WHP-DHN to subsea tie-in point of 16" existing export gas pipeline and via versa.
 - + One water injection rigid pipeline, transporting water injection from FPU to WHP-DHN through subsea tie-in point of existing 8" water injection flowline from FPU to WHP-DH01.
 - Modification works on WHP-DH02 and FPU for connection and processing.
- Scheme of Dai Hung Nam Field Development is presented as below.

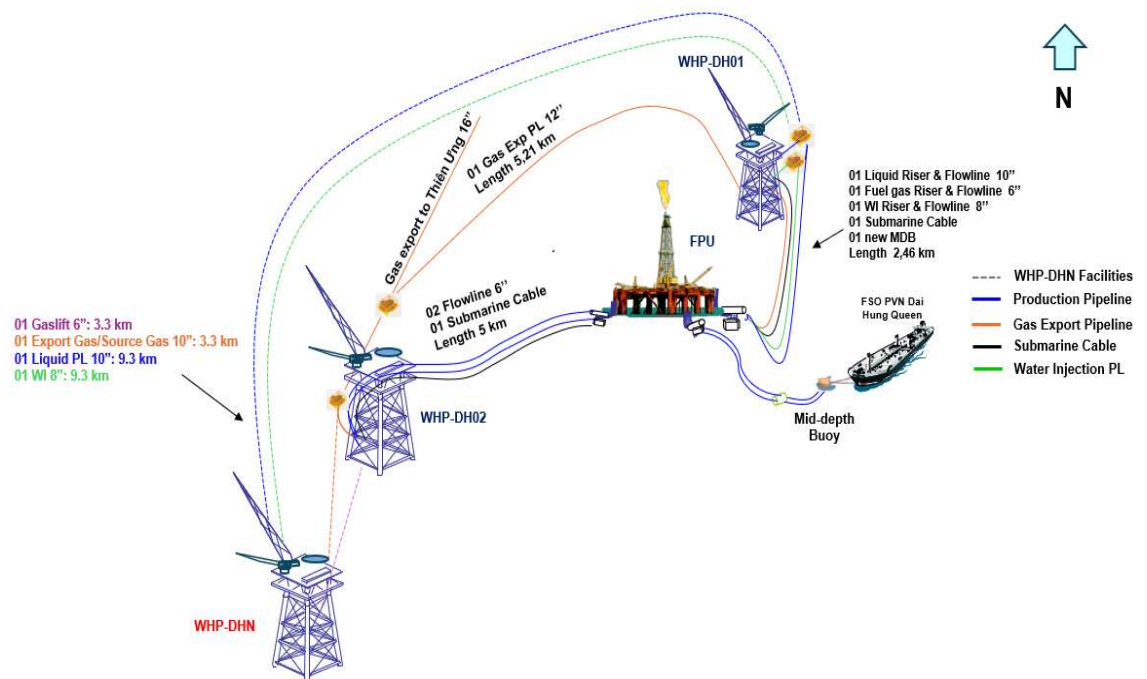


Figure 1.1.3: Dai Hung Nam Development Scheme

2. PURPOSE AND SCOPE

VENDOR shall supply materials in compliance with all technical documents provided in Section 3 of this Technical Requirement.

- Engineering activities required for manufacture of the Material.
- Manufacture of the Materials in accordance with required specifications, datasheets.
- Provision of all testing required by technical specifications, data sheets Inspection and Testing Requirements in order get properly Certification.

- Delivery of the material in accordance with required delivery terms and condition.
- The **VENDOR** must provide all information requested, including a list of any exceptions and non-conformities to the specifications listed in this Technical Requirement.
- All exceptions and non-conformity shall be indicated in one place, **VENDOR** is to use the attached Exception and Non-Conformity form. Any Exception/ deviation not listed in attached form and listed anywhere else in the offer shall not be considered.

*The detailed scope of supply is referred to detail MTO and scope of supply in **APPENDIX 1**.*

3. DEFINITIONS AND ABBREVIATIONS

3.1 DEFINITIONS

PROJECT	Dai Hung Nam Project
CLIENT/PVEP-POC	Domestic Petroleum Operating Branch – PetroVietnam Exploration Production Corporation Limited (PVEP-POC)
CONTRACTOR /VSP	Vietsovpetro Joint Venture.
SUB-CONTRACTOR	Contractor’s sub-contracted party for any part of the EPCIC work scope.
Correspondence	Letters, Faxes, Transmittals, Emails, Minutes of Meetings
CERTIFICATION AUTHORITY/CA	The authority engaged by the CLIENT to review, appraise and certify the WORK in accordance with the applicable codes, standards and specifications
WORK	The goods and services provided to the CLIENT by the VENDOR/SUPPLIER/MANUFACTURER
Correspondence	Letters, Faxes, Transmittals, Emails, Minutes of Meetings
Document	Comprises of all Correspondence, Technical Deliverables, Shop Drawings, and Vendor Data, Technical Query, CONTRACTOR / CLIENT ’s Supplied Data, etc.



4. SPECIFIC TECHNICAL REQUIREMENT

The Goods shall be complied with all technical documents in Appendix 2 attached. 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.
- Detail of supply and Material Take-off
- Technical Requisition
- Data Sheets
- Specifications.
- International Codes and Standards

5. LIST OF TECHNICAL DOCUMENTS

5.1 PROJECT DOCUMENTS & DRAWINGS

No.	Document Title	Document No.	Rev.
1	Technical Requisition For Monel Sheathing For Risers Splash Zone	WHP-DHN-L-X-0004	0
2	Datasheet for Monel Sheathing	WHP-DHN-L-E-0008	0
3	Specification for Monel Sheathing for Riser Splash Zone	WHP-DHN-L-S-0016	0
4	Attachment Design Drawing	-	-

6. WARRANTY

Bidder warrants for normal operation of the GOODS for eighteen (18) months from the date of signing the Acceptance Protocol or twelve (12) months from the date that the GOODS is put in in-service use. Whichever is earlier. Any defect discovered during this period shall be rectified by Bidder free of charge.

7. YEAR OF MANUFACTURE

All Goods must be brand-new, unused, and manufactured in **2025 or later**.

8. RECOMMENDED COUNTRY OF ORIGIN AND MANUFACTURER

- The manufacturer from the EU/G7.
- Vendor provides the source of material and name of manufacturers.

9. DELIVERY TIME AND PLACE

All Goods shall be delivered at Vietsovpetro site, No.67, 30/4 Road, Rach Dua Ward, Ho Chi Minh City, S.R Viet Nam or Vietsovpetro Port, No.69, 30/4 Road, Rach Dua Ward, Ho Chi Minh City, S.R Viet Nam

Delivery time of GOODS shall be not later than **120** calendar days from issue of Letter of Award (LOA) (including vendor data review, packing/handling, shipping, transportation,...and delivery time).

10. CERTIFICATES OF GOODS

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

- Mill Certificates to be followed the requirement in datasheet for Monel Sheathing for Riser Splash Zone (BS EN 10204, Type 3.1).
- Certificate of Origin issued or authenticated by The Chamber of Commerce in Manufacturer's/ Exporter's country (Original/electronic provided web-link to check).
- Certificate of Warranty issued by Vendor (Original/electronic provided web-link to check).
- Certificate of Quality and Quantity issued by manufacturer for Ex-Mill / issued by seller for Ex-Stock (Original/electronic provided web-link to check).

11. BIDDER AND MANUFACTURER CAPABILITY AND EXPERIENCE

- Experience of the Vendor: Trader to provide records of accomplishment at least 02 similar contracts in recent years.

Monel plate manufacture: must have experience to manufacture Monel Plate for at least 02 project. Detail track record and unpriced PO to be provided for evaluation.

- Vendor must provide efficient evidence, proof to convince the available of material. CO and CQ of stock material shall be true copy.
- Support letter from Monel Plate Manufacture.

12. TECHNICAL PROPOSAL

Vendor is requested to submit a complete of Technical Documentations as a part of its bid document and the minimum requirements as below:

- Scope of supply with detailed specification, quantity, manufacturer, origin (no information or any information such as “or equal”, “or equivalent” is not acceptable). Vendor to specify ex-Mill or ex-stock for each item in the Scope of supply table.
- Sample material mill certificate.
- Manufacturing, Test, Delivery Schedule.



- Statement of Compliance and Deviation or Exception List (If any).
- The supporting letter/license for sale/letter commitment issued by the manufacturer for Ex-mill/by agency for Ex-stock.
- Inspection & Test Plan (sample copy).
- Deviation list – technical part (*Refer to Deviation form in Doc No.WHP-DHN-L-X-0003 attached file*)

Notes:

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

13. APPENDICES

- Appendix 1: Detail for Scope of supply.
- Appendix 2: Attachment Technical Documents.

