



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

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

**PHAM THANH BINH
" _____ " _____ 2026.**

**TECHNICAL EVALUATION CRITERIA
FOR E&I CABLE TRAY/LADDER**

Ref No: WHP-DHN-E-X-2506.01

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Date: 21 Apr 2026



**DAI HUNG NAM PROJECT, DAI HUNG FIELD
DEVELOPMENT, BLOCK 05.1(a), OFFSHORE VIETNAM
TECHNICAL EVALUTATION CRITERIA FOR E&I CABLE
TRAY/LADDER**



Agreed by:

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REVISION RECORD SHEET

Nº	Revision Nº	Content of revision	Date of revision
1	E0	Issued for Review	07 Apr 26
2	0	Approved for Bid	21 Apr 26

 DAI HUNG NAM PROJECT, DAI HUNG FIELD DEVELOPMENT, BLOCK 05.1(a), OFFSHORE VIETNAM TECHNICAL EVALUATION CRITERIA FOR ELECTRICAL & INSTRUMENT CABLE TRAY/LADDER AND ACCESSORIES 													
Item No	Description	Project Requirements	Evaluation	Evaluation Criteria			BIDDER A		BIDDER B		BIDDER C		Remark
				Technically Not Accepted	Technically Accepted with Minor Concern(s)	Technically Accepted	Offered	TBE	Offered	TBE	Offered	TBE	
A	GENERAL TECHNICAL PROPOSAL REQUIREMENT												
1	Delivery Time/Terms	As specified in the TR/ITB	A/NA/AWC	- Delivery time: Bidder could not commit the delivery time or proposed delivery time much later than requirement and did not meet the overall project schedule. - Delivery term: No information provided or provided but did not fully meet the requirement.	- Delivery time: Delivery time over the requirement, however still meets the latest overall project schedule. - Delivery term: Delivery term fully meets the requirement.	- Delivery time: Delivery time fully meets the requirement. - Delivery term: Delivery term fully meets the requirement.							
2	Manufacturer's Quality Management System Certificate	ISO 9001: 2015 or Equivalent	A/NA/AWC	No information provided or provided invalid certificate or provided certificate but did not meet the requirement.	Valid "equivalent certificate" provided and fully meets the requirement.	Provided valid ISO 9001: 2015 certificate and fully meets the requirement.							
3	Manufacture's experience track record	Bidder to provide Manufacturer's track record showing the experience of supply at least three (03) similar Projects in the most recent years (Offshore Oil & Gas Service).	A/NA/AWC	No information provided or provided less than 02 similar projects in the most recent years (Offshore Oil & Gas Service).	Provided 02 similar projects in the most recent years (Offshore Oil & Gas Service).	Provided 03 or more similar projects in the most recent years (Offshore Oil & Gas Service).							
4	Authorization Certificates/ Supporting Letter(s) from Manufacturers	As required in the TR and ITB	A/NA/AWC	No information provided or provided invalid Authorization Certificates/ Supporting Letter(s) or provided Certificates/Letters but did not meet the requirement.	Provided valid Authorization Certificates/ Supporting Letter(s) from Manufacturers for the offered GRP & SS316 Cable Ladder/Tray and meets the minimum requirement.	Provided valid Authorization Certificates/ Supporting Letter(s) from Manufacturers for the offered GRP & SS316 Cable Ladder/Tray and fully meets the requirement.							
5	BIDDER (apply for BIDDER is Trader) Experience Track records	BIDDER to provide BIDDER's track record showing the experience of supplying at least one (01) completed/ successful Offshore project in the most recent years which have similarity in term of product specification, type, capacity and quantity for Oil & Gas Service requirement.	A/NA/AWC	No information provided or provided but totally not meets the requirements.	Information provided to meet the minimum requirements.	Provided one (01) completed/ successful Offshore project in the most recent years which have similarity in term of product specification, type, capacity and quantity for Oil & Gas Service requirement.							
B	SCOPE OF SUPPLY & SCOPE OF WORK												
1	Cable Tray/Ladder on DHN All Electrical & Instrument Cable Tray/ Ladder and Accessories	Provide full scope of supply as per requirements specified in TR/ Specification/ MTO	A/NA/AWC	No information provided or did not offer full scope of supply as per requirements specified in TR/ Specification/ MTO or proposed less than minimum accessories requirement to complete installation cable Ladder/Tray.	Bidder offered full scope of supply as per requirements specified in TR/ Specification/ MTO. Proposed minimum accessories requirement to complete installation cable Ladder/Tray.	Bidder offered full scope of supply as per requirements specified in TR/ Specification/ MTO. Proposed fully accessories to complete installation cable Ladder/Tray and it is better than the minimum requirement.							
2	Cable Tray/Ladder on DH02 All Electrical & Instrument Cable Tray/ Ladder and Accessories	Provide full scope of supply as per requirements specified in TR/ Specification/ MTO	A/NA/AWC	No information provided or did not offer full scope of supply as per requirements specified in TR/ Specification/ MTO or proposed less than minimum accessories requirement to complete installation cable Ladder/Tray.	Bidder offered full scope of supply as per requirements specified in TR/ Specification/ MTO. Proposed minimum accessories requirement to complete installation cable Ladder/Tray.	Bidder offered full scope of supply as per requirements specified in TR/ Specification/ MTO. Proposed fully accessories to complete installation cable Ladder/Tray and it is better than the minimum requirement.							
3	Cable Tay/Ladder on FPU All Electrical & Instrument Cable Tray/Ladder And Accessories	Provide full scope of supply as per requirements specified in TR/ Specification/ MTO	A/NA/AWC	No information provided or did not offer full scope of supply as per requirements specified in TR/ Specification/ MTO or proposed less than minimum accessories requirement to complete installation cable Ladder/Tray.	Bidder offered full scope of supply as per requirements specified in TR/ Specification/ MTO. Proposed minimum accessories requirement to complete installation cable Ladder/Tray.	Bidder offered full scope of supply as per requirements specified in TR/ Specification/ MTO. Proposed fully accessories to complete installation cable Ladder/Tray and it is better than the minimum requirement.							
4	Design, Calculation and Manufacturing Scope of Work	Provide full scope of Design, Calculation and Manufacturing as per requirement in Section 4 of the TR.	A/NA/AWC	No information provided or provided but did not meet the minimum requirement.	Provided information meets the minimum requirement.	Provided information and it is better than the minimum requirement.							
C	COMPLY WITH TECHNICAL REQUIREMENTS												
1	Country of Origin and Approval Manufacturer list of E&I Cable Tray/Ladder	As per requirements specified in TR and ITB.	A/NA/AWC	No information provided or offered the Goods manufacturer and Country of origin out of Technical Requisition.	Offered the Goods produced by approval manufacturer list or qualified manufacturer approval by Company/ Country of origin from Korea, Singapore, Malaysia, Thailand, Indonesia.	Offered the Goods produced by approval manufacturer list / Country of origin from EU/G7.							
2	Year of Manufacture of E&I Cable Tray/Ladder	Brand new, un-used, and manufactured within 2 years to the Contractual delivery date.	A/NA/AWC	No information provided or provided but did not meet the minimum requirement.	Offered the Goods is Brand new, un-used, and manufactured within 02 years to the Contractual delivery date.	Offered the Goods is Brand new, un-used, and manufactured within 01 years to the Contractual delivery date.							
3	Production Schedule	As required in the TR and ITB	A/NA/AWC	No information provided or provided but did not meet the minimum requirement.	Proposed production schedule in compliance with delivery time and meets the minimum requirement.	Proposed production schedule in compliance with delivery time and it is better than the minimum requirement.							
4	Packing, Sealing and Shipping	As per requirements specified in Specification/TR and ITB.	A/NA/AWC	No information provided or provided but did not meet the minimum requirement.	Proposed packing, sealing and shipping meets the minimum requirement.	Proposed packing, sealing and shipping is better than the minimum requirements.							
5	Warranty	As per requirements specified in ITB.	A/NA/AWC	No information provided or provided but did not meet the minimum requirement.	Proposed warranty meets the minimum requirement.	Proposed warranty is better than the minimum requirement.							
6	HSE requirement	For bid evaluation, Vendor/Manufacturer to submit the HSE policy, HSE Management Procedure(s) and Annual Safety Reports (in the recent years)	A/NA/AWC	No information provided or provided but did not meet the minimum requirement.	Information provided meets the minimum requirement.	Information provided and it is better than the minimum requirement.							
7	Compliance with Vendor Data Requirement List (VDRL)	As per Specification and TR Requirement.	A/NA/AWC	No information provided or provided but did not meet the minimum requirement.	Submitted markup Vendor Data Requirement List (VDRL) meets the minimum requirement.	Submitted markup Vendor Data Requirement List (VDRL) and it is better than the minimum requirements.							
8	Documents submitted with Bid (GA drawing, Catalogue, Type approval certificate, Routine test report, QA/QC procedures...)	As required in the TR and ITB	A/NA/AWC	NOT comply with Technical requirements	NOT fully comply with technical requirements. However, technical deviations are reviewed & evaluated and acceptance by Company/Client	Comply with Technical requirements							
9	Design, Calculation and Manufacturing	As per requirements specified in Specification and TR Requirement.	A/NA/AWC	No information provided or provided but did not meet the minimum requirement.	Submitted Design, Calculation and Manufacturing meets the minimum requirement.	Submitted Design, Calculation and Manufacturing is better than the minimum requirement.							
10	Type Approval Certificate for GRP - Cable Ladder/Tray	Valid Type Approval Certificate issued by a recognized testing authority	A/NA/AWC	NOT comply with Technical requirements	Submitted Valid Type Approval Certificate issued by a recognized testing authority and it meets the minimum requirement.	Submitted Valid Type Approval Certificate issued by a recognized testing authority and it is better than the minimum requirement.							
11	Type Approval Certificate for SS316 - Cable Ladder/Tray	Valid Type Approval Certificate issued by a recognized testing authority	A/NA/AWC	NOT comply with Technical requirements	Submitted Valid Type Approval Certificate issued by a recognized testing authority and it meets the minimum requirement.	Submitted Valid Type Approval Certificate issued by a recognized testing authority and it is better than the minimum requirement.							

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Item No	Description	Project Requirements	Evaluation	Evaluation Criteria			BIDDER A		BIDDER B		BIDDER C		Remark	
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12	Technical Requirement for GRP - Cable Ladder/Tray on WHP-DHN	Cable Tray/Ladder shall be heavy duty type, suitable for Offshore Oil & Gas application as following minimum requirement: - Cable Tray/ Ladder shall be NEMA 20C as per NEMA FG 1 standard, with a nominal load rating of 150 kg per running meter (irrespective of rack width and minimum safety factor of 1.5). The supporting span shall be at a maximum span of 3000mm. - Fire Rating / Surface Flammability to ASTM E84 Class 1 or BS 476 Part 7: Cable Trays and Ladders shall be fire retardant and have flame spread rating of 25 or less (Class 1 rating) when tested in accordance with ASTM E-84 Class 1 or BS476 Part 7. - Flame Propagation to BS 476 Part 6 - Flame retardant to IEC 60695-2-11 - High Temperature Flame Test to IEC 332 Part 3 - Halogen Free to IEC 60754-1 - UV protection to BS 2782 or ISO 4582 for UV resistant. - Smoke Emission to BS 6853 - Anti static property to IEC 60079-0 - Type test certification of compliance with IEC 61537 Standard. Type test/ certification shall be provided from third party for offshore/marine application. - Fitting accessories of cable ladder shall be made of stainless steel AISI 316. <i>More details specified in TR, Specification and MTO</i>	A/NA/AWC	No information provided or provided but did not meet the minimum requirement.	Offered GRP Cable Ladder/Tray in compliance with minimum technical requirement.	Offered GRP Cable Ladder/Tray is better than the minimum technical requirement.								
13	Technical Requirement for 316SS - Cable Ladder/Tray on WHP-DHN (Cable Tray/Ladder for Flare Boom shall be SS316), WHP-DH02 and FPU	SS316 Cable Tray/Ladder shall be heavy duty type, suitable for Offshore Oil & Gas application as following minimum requirement: - Cable ladder and tray systems shall comply with IEC 61537 and shall be made of 316 stainless steel - Resistance against corrosion for ladder and tray is classified as 9D in accordance with IEC 61537 - Stainless steel cable trays / cable ladders shall be heavy duty type with minimum 1.5 mm thickness for cable tray and 2 mm for cable ladder. Straight lengths shall be standard 3-metres long. Maximum rung spacing for ladders shall be 300mm. Cable ladders shall be return flange type. Thickness for Ladder cover and Tray cover shall be 1mm as minimum. - Type Approval Certificate issued by a recognized testing authority in accordance with the latest standards of IEC 61537 <i>More details specified in TR, Specification and MTO</i>	A/NA/AWC	No information provided or provided but did not meet the minimum requirement.	Offered SS316 Cable Ladder/Tray in compliance with minimum technical requirement.	Offered SS316 Cable Ladder/Tray is better than the minimum technical requirement.								
14	Inspection & Testing, Testing Plan requirement	As per Specification and TR Requirement.	A/NA/AWC	No information provided or provided but did not meet the minimum requirement.	Proposed Inspection & Testing, Testing Plan meets the minimum requirement.	Proposed Inspection & Testing, Testing Plan is better than the minimum requirement.								
15	Bidder submit with the bid proposal full set of type test reports that have been conducted on the offered Cable Tray/Ladder.	As per requirements specified in Specification and TR Requirement.	A/NA/AWC	No information provided or provided but did not meet the minimum requirement.	Submitted with the bid proposal full set of type test reports that have been conducted on the offered Cable Tray/Ladder. It is valid and meets the minimum requirement.	Submitted with the bid proposal full set of type test reports that have been conducted on the offered Cable Tray/Ladder. It is valid and better than the minimum requirement.								
16	Bidder submit routine test report issued by Manufacturer (sample)	As per requirements specified in Specification and TR Requirement.	A/NA/AWC	No information provided or provided but did not meet the minimum requirement.	Submitted with the bid proposal routine test report issued by Manufacturer (sample) and it meets the minimum requirement.	Submitted with the bid proposal routine test report issued by Manufacturer (sample) and it is better than the minimum requirement.								
17	All required/ necessary certificates (CO, CQ, certificates, test reports, etc.)	As per requirements specified in TR and ITB.	A/NA/AWC	No information provided or provided but did not meet the minimum requirement.	Proposed to submit all required/ necessary certificates and it meets the minimum requirement.	Proposed to submit all required/ necessary certificates and it is better than the minimum requirement.								
D	DEVIATION / EXCEPTION													
1	Deviations/Exceptions	Technical Exceptions / Deviations List proposed by Bidder.	A/NA/AWC	No information provided or provided but did not meet the minimum technical requirement.	Proposed technical exceptions / deviations and it meets the minimum technical requirement.	Proposed technical exceptions / deviations and it is better than the minimum technical requirement.								
E	CONCLUSION						TECHNICALLY ACCEPTED OR NOT ACCEPTED		TECHNICALLY ACCEPTED OR NOT ACCEPTED		TECHNICALLY ACCEPTED OR NOT ACCEPTED			

NOTES:
 Technical Criteria shall be based on Bidder's Compliance to be evaluated and applied "ACCEPTABLE", "ACCEPTABLE WITH CONCERN" or "NOT ACCEPTABLE".
 The Bid shall be technically evaluated based on each item. The Bid that is considered "Technically Accepted" if no criteria is marked "NOT ACCEPTABLE"
A: ACCEPTABLE
AWC: ACCEPTABLE WITH CONCERN
NA: NOT ACCEPTABLE