



PETEC TRADING AND INVESTMENT CORPORATION

PROJECT

**EXPANSION OF 40,000M³ STORAGE CAPACITY
AT PETEC HAI PHONG**

PACKAGE

ENGINEERING, PROCUREMENT, CONSTRUCTION AND INSTALLATION

TECHNICAL REQUISITION DOCUMENT FOR SPECIAL ITEMS

						
C	05/01/2025	Issued for Bid	NMH	PAD	PQP	VLT
Rev.	Date	Purpose	Prepared	Checked	Reviewed	Approved

EPC CONTRACTOR



**PTSC THANH HÓA THANH HÓA - ĐẠI DŨNG III -
PHƯƠNG ANH CONSORTIUM**

Document No.:

PETEC-DD-TRD-008

	EXPANSION OF 40,000M³ STORAGE CAPACITY AT PETEC HAI PHONG	
TECHNICAL REQUISITION DOCUMENT FOR SPECIAL ITEMS		Document No.: PETEC-DD-TRD-008
		Revision: C

REVISION RECORD SHEET

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1. INTRODUCTION

1.1. PROJECT BACKGROUND

Project name: Expansion of 40,000m³ Storage Capacity at PETEC Hai Phong Petroleum Terminal Project

Client: PETEC TRADING AND INVESTMENT CORPORATION

Contractors: PTSC THANH HOA – DAI DUNG III– PHUONG ANH

The total expanded capacity is 40,000m³ as follows:

- 01 tank 10,000m³ tank (with float): containing RON95 – T33
- 03 tanks of 10,000m³: containing DO - T34, T35, T36
- 01 tanks of 1500m³ containing fire water and auxiliary items....

1.2. PURPOSE

This document outlines the minimum technical requirements for the manufacture, supply, testing, inspection, packing & transportation, commissioning activities and documentation of Special items.

The BIDDER/ MANUFACTURER shall ensure that all equipment and services supplied meet the requirements of this document, the Datasheets, Project Specifications and the Codes & Standards and Specifications referenced herein.

1.3. DEFINITIONS AND ABBREVIATIONS

PROJECT	EXPANSION OF 40,000M ³ STORAGE CAPACITY AT PETEC HAI PHONG
CLIENT	PETEC TRADING AND INVESTMENT CORPORATION
EPC CONTRACTOR	CONSORTIUM: PTSC THANH HOA – DAI DUNG III – PHUONG
SUPPLIER/ BIDDER	SUPPLIER/BIDDER SHALL CARRY OUT THE WORKS OF SUPPLY, TESTING, INSPECTION, PACKAGING AND TRANSPORTATION OF SPECIAL ITEMS
SCOPE OF WORKS	SUPPLY, TESTING, INSPECTION, PACKAGING AND TRANSPORTATION OF SPECIAL ITEMS

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2. SCOPE OF SUPPLY AND WORK

2.1. ITEMS AND QUANTITIES

The items and quantities shall be as specified in the Attachment #1 Special Items List.

2.2. SCOPE OF SUPPLY AND SERVICE

All items shall be completed in accordance with the requirements specified in this requisition such as data sheets, project specifications and other documents attached herewith.

Refer to Attachment #1 Special Items List for the detailed.

2.3. SCOPE OF WORK

The BIDDER/ MANUFACTURER will use his current, pre-engineered, or standard designs to meet the requirements specified below, as well as the data sheets, project specifications, and any attachments attached to these documents.

Design, manufacturing, testing, painting, supply, packing and delivery all items as specify in the Attachment #1 Special Items List.

The BIDDER/ MANUFACTURER shall also provide supervision of complete erection, site testing, start up and commissioning and performance guarantee testing of these items, if required.

2.4. OUT OF SCOPE

Storage items at site.

Transportation items to erection location at site.

2.5. DELIVERY TIME

The contractor shall carry out the work in accordance with the project schedule.

For more details, please refer to Attachment #5 Project Schedule.

3. TECHNICAL REQUIREMENTS

3.1. GENERAL

The Package shall be strictly in accordance with data sheets, specifications, codes, and standards specified in Attachment #2 Technical Support Document.

Compliance by the BIDDER/ MANUFACTURER with the provision of this specification does not relieve him of his responsibility to furnish the package/ material and accessories of a proper design to meet the specified duty and / or local codes governing health and safety.

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All applicable documents mentioned below are attached with the request for inquiry. However, if the BIDDER/ MANUFACTURER is not in possession of any of the listed or referenced PURCHASER documents, it shall be BIDDER/ MANUFACTURER's sole responsibility to obtain them from the PURCHASER. Otherwise, it shall be assumed that the BIDDER/ MANUFACTURER has received, read and understood the total contents of the documents.

All materials and parts shall be new and un-used and free from defects and imperfections that would adversely affect the life or performance of the system.

Vendor data shall include detailed design drawings and updated data sheets of each material and appurtenances.

All documentation related to facilitating design appraisal approvals and inspection from Purchaser appointed Certification Authority (CA) and QA/QC Inspector (ITP) shall also be included in Vendor's scope of supply

3.2. DESIGN LIFE, AVAILABILITY AND RELIABILITY

The design life of the facility and all associated equipment, components and systems is minimum 25 years.

All components which for practical, safety or cost-efficiency reasons are unable to meet the required design life shall be identified as soon as possible. Their expected service life shall be informed to PURCHASER and provision made in the system design for maintenance to extend component life or routine change-out.

3.3. PROTECTIVE COATING AND PAINTING

Surface preparation and coating of all exposed metal parts shall be in accordance with the Painting Specification which attached in the Attachment #2 Technical Support Document.

3.4. PREPARATION FOR SHIPMENT

Special items shall be prepared for export shipment and shall be created to provide maximum protection during shipment and extended outdoor storage.

Any special item liable to be damaged during shipment shall be disassembled, packed separately, shipped with the unit and reassembled onsite under the supervision of BIDDER/ MANUFACTURER's commissioning/start-up technician

Each crate shall be clearly identified in accordance with the customer's specification. As a minimum the crate shall be marked with the Purchase Order number, the item number, the shipping mass and the delivery address.

Flanged process connections shall be protected against damage during transportation and erection.

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The special items shall be suitably preserved to maintain in good condition throughout the phases of storage until ready to be operated.

Special items shall be protected with an easily removable rust-preventive coating.

All special items shall be suitably protected for shipment and securely anchored during transit. Separate or loose parts shall be completely boxed with identification tag.

Tools and spare parts shall be packed in metal boxes suitable for long term storage. The boxes shall be galvanized or coated in accordance with Project requirement.

3.5. GUARANTEE AND WARRANTY

The BIDDER/ MANUFACTURER shall have final and total responsibility for the design and performance of all specification for material supplied under this document.

The BIDDER/ MANUFACTURER shall replace and install without cost to the PURCHASER any materials, supplies which fails under design conditions due to defects in material or workmanship if the defect is observed and/or such failure occurs within the guarantee/warranty period. Acceptance of this order will signify acceptance of all conditions of this guarantee.

The guarantee period shall be at least 18 months from the date of delivery or 12 months from the date of operation, whichever comes first.

3.6. SPARE PARTS

3.6.1. START-UP AND COMMISSIONING SPARES

The BIDDER/ MANUFACTURER shall include, as part of his bid, a detailed, price list of start-up and commissioning spares which shall be supplied as part of the original purchase package.

3.6.2. TWO YEAR SPARES

The BIDDER/ MANUFACTURER shall include, as part of his bid, a detailed, list of recommended spare parts for two years continuous operation. These spares shall be costed for separate purchase.

3.7. CONFLICTING REQUIREMENTS

BIDDER/ MANUFACTURER shall notify PURCHASER of any conflicts between this TRD, specifications, the related data sheets, the Codes and Standards and any other specifications noted herein. Resolutions and/or interpretation precedence shall be obtained from Purchaser in writing before proceeding with the design/ manufacture.

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3.8. DEVIATION LIST

BIDDER/ MANUFACTURER's quotation shall be in full conformity with PURCHASER's requirements. Unless exceptions, deviations or alternatives are clearly defined and listed on the attached PURCHASER's form "Deviation List" and submitted with BIDDER/ MANUFACTURER 's quotation, the requirements and conditions of this Requisition shall be deemed to be accepted by the BIDDER/ MANUFACTURER.

4. INSPECTION AND TESTS

Inspection and tests shall be made by the BIDDER/ MANUFACTURER in accordance with:

☒ Test & Inspection should be carried out acc. to the applicable codes, specification and standards.

☒ Maker's standard plan & procedure as approved by PURCHASER.

☒ Local regulation, if any.

The OWNER and/or PURCHASE inspector shall hold a right to be present at any manufacturing stage of the items and/or materials.

Refer to Attachment #4 Vendor Data Document List for the detailed.

5. VENDOR DOCUMENT REQUIREMENT

The BIDDER/ MANUFACTURER shall fill in all required technical information for the forms in "Attachment #3 – Technical Documentation Forms". In particular, the form "Attachment #3.1 – Technical Bid Requirement Forms" is mandatory. Failure to complete this form will render the bid invalid.

The CONTRACTOR must complete the forms, documents, and drawings as listed in "Attachment #4 – Vendor Data Documents List".

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6. ATTACHMENT

No.	Attachment	Document	Remark
1.	Attachment #1	Special Items List	
2.	Attachment #2	Technical Support Document	
3.	Attachment #3	Technical Bid Proposal	
4.	Attachment #4	Vendor Data Documents List	
5.	Attachment #5	Project Schedule	

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**ATTACHMENT #1
SPECIAL ITEMS LIST**



PROJECT: EXPANSION OF 40,000M³ STORAGE CAPACITY AT PETEC HAI PHONG
SPECIAL ITEM LIST FOR PIPING AND TANK SYSTEM



No.	NAME	SPECIFICATION	SIZE 1	SIZE 2	SIZE 3	DESSCRIPTION	MATERIAL	UNIT	DES. Q.TY	SPARE	TOTAL	REMARK
I. Process System												
1	FILTER	1A1	300	300	0	BASKET FILTER FLG #150 BY MFR - STANDARD: ANSI/API - CASE: CAST BASKET STRAINER, ASME SECTION VIII, DIV1 - BODY, COVER: ASTM A216 Gr. WCB - SCREEN HOLDER: 20 MESH, SS304 - END CONNECTION: ANSI #150 RF, B16.5 - PRESSURE: 10 BAR - TEMPERATURE: < 100°C	CS	Pcs	1	0%	1	Additional Screen Holder on package for Commissioning activities (40 Mesh, SS304)
2	FILTER	1A1	200	200	0	BASKET FILTER FLG #150 BY MFR - STANDARD: ANSI/API - CASE: CAST BASKET STRAINER, ASME SECTION VIII, DIV1 - BODY, COVER: ASTM A216 Gr. WCB - SCREEN HOLDER: 20 MESH, SS304 - END CONNECTION: ANSI #150 RF, B16.5 - PRESSURE: 10 BAR - TEMPERATURE: < 100°C	CS	Pcs	4	0%	4	Additional Screen Holder on package for Commissioning activities (40 Mesh, SS304)
3	QUICK COUPLING	1A1	100	100	0	QUICK COUPLING MALE FLG #150 BY MFR	CS	Pcs	4	10%	4	
4	FLEXIBLE HOSE	1A1	300	300	0	FLEXIBLE 0.5M LENGTH, FLG #150 ASME B16.5, MATERIAL: - BRAID : SS316 - CORRUGATED HOSE: ASTM A240 Gr. 316 - END SLEEVE: ASTM A312 Gr. TP316 - FLANGE: ASTM A105N		Pcs	1	0%	1	
5	FLEXIBLE HOSE	1A1	250	250	0	FLEXIBLE 0.5M LENGTH, FLG #150 ASME B16.5, MATERIAL: - BRAID : SS316 - CORRUGATED HOSE: ASTM A240 Gr. 316 - END SLEEVE: ASTM A312 Gr. TP316 - FLANGE: ASTM A105N		Pcs	4	0%	4	
6	FLEXIBLE HOSE	1A1	200	200	0	FLEXIBLE 0.5M LENGTH, FLG #150 ASME B16.5, MATERIAL: - BRAID : SS316 - CORRUGATED HOSE: ASTM A240 Gr. 316 - END SLEEVE: ASTM A312 Gr. TP316 - FLANGE: ASTM A105N		Pcs	9	0%	9	
7	FLEXIBLE HOSE	1A1	150	150	0	FLEXIBLE 0.5M LENGTH, FLG #150 ASME B16.5, MATERIAL: - BRAID : SS316 - CORRUGATED HOSE: ASTM A240 Gr. 316 - END SLEEVE: ASTM A312 Gr. TP316 - FLANGE: ASTM A105N		Pcs	4	0%	4	
8	FLEXIBLE HOSE	1A1	150	150	0	FLEXIBLE 10M LENGTH, FLG RF ASME B16.5 BOTH SIDE, MATERIAL: - CORRUGATED HOSE : ASTM A240 Gr. 316 - END SLEEVE: ASTM A312 Gr. TP316 - QUICK COUPLING: ASTM A182 Gr. F316 - FLANGE: ASTM A105N		Pcs	1	0%	1	
II. Fire Fighting System												
1	FLEXIBLE HOSE	1A2	100	100	0	FLEXIBLE 0.5M LENGTH, FLG #150 ASME B16.5, MATERIAL: - BRAID : SS316 - CORRUGATED HOSE: ASTM A240 Gr. 316 - END SLEEVE: ASTM A312 Gr. TP316 - FLANGE: ASTM A105N		Pcs	1	0%	1	
2	FLEXIBLE HOSE	1A2	200	200	0	FLEXIBLE 0.5M LENGTH, FLG #150 ASME B16.5, MATERIAL: - BRAID : SS316 - CORRUGATED HOSE: ASTM A240 Gr. 316 - END SLEEVE: ASTM A312 Gr. TP316 - FLANGE: ASTM A105N		Pcs	4	0%	4	
III. Piping for Tank												
1	EXPANSION JOINT	Tank	250	0	0	AX TYPE METAL BELLOWS EXPANSION JOINT, SINGLE AXIAL, FLANGED ENDS, 10"X240L (DN150), ANSI 150# CLASS	SS400	Pcs	4	0%	4	
2	WIRE					Wire mesh 4 SWG 23	SS304	Pcs	1	0%	1	

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ATTACHMENT #2

TECHNICAL SUPPORT DOCUMENT

- *Att #2.1 Datasheets*
- *Att #2.2 Specifications*

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ATTACHMENT #3
TECHNICAL BID PROPOSAL

- *Att #3.1 Technical Bid Requirement forms*
- *Att #3.2 Technical forms*
- *Att #3.3 Technical Bid Clarification form*

		TECHNICAL BID EVALUATION FOR TRD-008 SPECIAL ITEMS		Client:	PETEC TRADING AND INVESTMENT CORPORATION	TRD No.:	TRD-008
				Contract No:		Rev.:	A
				Document No.:		Material/Service	
				Revision:	A	Date:	5/1/2025

Item	Description	Specification requirements	[Bidder 1 name]		[Bidder 2 name]	
			Bidder Offer	TBE	Bidder Offer	TBE
I. QUOTATION DETAILS						
1	Quotation Ref No	Informative				
2	Quotation date	Informative				
3	Office location	Informative				
II. GENERAL REQUIREMENT						
1	Company profiles	For information				
2	Experience List	Experienced on design, manufacture and similar works				
III. TECHNICAL REQUIREMENT						
A. Filter 12"						
1	Origin	VTA				
2	Trademark	VTA				
3	Model	VTA				
4	Standard:					
4.1	Type					
4.2	Flange					
4.3	Standard Design					
5	Material:					
6	Delivery time	VTA				
B. Filter 8"						
1	Origin	VTA				
2	Trademark	VTA				
3	Model	VTA				
4	Standard:					
4.1	Type					
4.2	Flange					
4.3	Standard Design					
5	Material:					
6	Delivery time	VTA				

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				Contract No:			Rev.:	A
				Document No.:			Material/ Service	
				Revision:	A		Date:	5/1/2025
Item	Description	Specification requirements	[Bidder 1 name]		[Bidder 2 name]			
			Bidder Offer	TBE	Bidder Offer	TBE		
C.	Filter 4"							
1	Origin	VTA						
2	Trademark	VTA						
3	Model	VTA						
4	Standard:							
4.1	Type							
4.2	Flange							
4.3	Standard Design							
5	Material:							
6	Delivery time	VTA						
D.	Flexible 12"							
1	Origin	VTA						
2	Trademark	VTA						
3	Model	VTA						
4	Standard:							
4.1	Type							
4.2	Working temparature							
4.3	Flange							
4.4	Standard design							
5	Material:							
6	Delivery time	VTA						
E.	Flexible 10"							
1	Origin	VTA						
2	Trademark	VTA						
3	Model	VTA						
4	Standard:							
4.1	Type							
4.2	Working temparature							
4.3	Flange							
4.4	Standard design							



TECHNICAL BID EVALUATION
FOR
TRD-008 SPECIAL ITEMS

Client:	PETEC TRADING AND INVESTMENT CORPORATION	TRD No.:	TRD-008
Contract No:		Rev.:	A
Document No.:		Material/Service	
Revision:	A	Date:	5/1/2025

Item	Description	Specification requirements	[Bidder 1 name]		[Bidder 2 name]	
			Bidder Offer	TBE	Bidder Offer	TBE
5	Material:					
6	Delivery time	VTA				
F.	Flexible 8"					
1	Origin	VTA				
2	Trademark	VTA				
3	Model	VTA				
4	Standard:					
4.1	Type					
4.2	Working temprature					
4.3	Flange					
4.4	Standard design					
5	Material:					
6	Delivery time	VTA				
G.	Flexible 6"					
1	Origin	VTA				
2	Trademark	VTA				
3	Model	VTA				
4	Standard:					
4.1	Type					
4.2	Working temprature					
4.3	Flange					
4.4	Standard design					
5	Material:					
6	Delivery time	VTA				
H.	Quick Coupling 4"					
1	Origin	VTA				
2	Trademark	VTA				
3	Model	VTA				

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		Contract No:			Rev.:	A
		Document No.:			Material/Service	
		Revision:	A		Date:	5/1/2025

Item	Description	Specification requirements	[Bidder 1 name]		[Bidder 2 name]	
			Bidder Offer	TBE	Bidder Offer	TBE
4	Standard:					
4.1	Type					
4.2	Working temparature					
4.3	Flange					
4.4	Standard design					
5	Material:					
6	Delivery time	VTA				
I.	Expansion Joint (for Tank)					
1	Origin	VTA				
2	Trademark	VTA				
3	Model	VTA				
4	Standard:					
4.1	Type					
4.2	Working temparature					
4.3	Flange					
4.4	Standard design					
5	Material:					
6	Delivery time	VTA				
VII	EVALUATION CONCLUSION					

Abbreviations:

- 1 C

:

Comply
- 2 NC

:

Not Complied
- 3 NCA

:

Not Complied but Acceptable
- 4 I

:

Information/
- 5 H

:

Hold/ to be finalized before Contract Award

Prepared by

NMH

Checked by

PAD

Reviewed by

PQP

Approved by

VLT

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ATTACHMENT #4

VENDOR DATA DOCUMENTS LIST

- *Att #4.1 Vendor Data Documents List*

VENDOR DATA DOCUMENTS LIST (VDRL)

No.	Description	With Bid	Final	Remark
1	Company Profile Brochure		x	
2	Vendor Data Index & Schedule		x	
3	Valve Data Sheet		x	
4	Fabrication Drawings		x	
5	Performance & Test Procedure		x	
6	FAT Reports		x	
7	Inspection & Test Plan		x	
8	Material Mill Test Certificate		x	follow EN10204, Type 3.1
9	Installation, Operation & Maintenance Manual		x	
10	Packing List		x	
11	Certificate of Original (CO)		x	
12	Certificate of Quality (CQ)		x	
13	Insurance Certificate		x	
14	Bill of Lading		x	

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**ATTACHMENT #5
PROJECT SCHEDULE**