



Toase-e Park Sanati Gohar Ofogh  
Petrochemical Co.  
**CONCEPTUAL, BASIC and DETAIL DESIGN  
ENGINEERING OF STYRENE PARK OFFSITE**



Document Title: Inspection And Test (ITP)

Document No.: EI027-HSE-VD –QC–ITP–001- R2

Rev. R2

Page 1 of 6

# STYRENE PARK OFFSITE

**Document Title:**

**Inspection And Test (ITP)**

For Refrigeration Unit-Package

R2	07-04-2024	IFA	F.SH	M.O	A.M
R1	18-09-2023	IFA	N.B	F.SH	A.M
R0	17-09-2023	IFA	N.B	F.SH	A.M



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Rev. R2

Page 2 of 6

Rev.	Issued Date	DESCRIPTION	PREPARED	CHECKED	APPROVED
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**REVISION RECORD SHEET**

Page Page	Revisions							Page	Revisions						
	R0	R1	R2	R3	R4	R5	R6		R0	R1	R2	R3	R4	R5	R6
1	X	X	X					41							
2	X	X	X					42							
3	X	X	X					43							
4	X	X	X					44							
5	X	X	X					45							
6		X	X					46							
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 	<b>Toase-ehe Park Sanati Gohar Ofogh Petrochemical Co.</b> <b>CONCEPTUAL, BASIC and DETAIL DESIGN ENGINEERING OF STYRENE PARK OFFSITE</b>	 	
	Document Title: Inspection And Test (ITP)		
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## General

### 1.1 Introduction

This document covers Inspection & Test Plan for Refrigeration Unit.

### 1.2 Definitions

The following terms and abbreviations are used in the present document

Item	Refrigeration Unit-Package
Project	STYRENE PARK OFFSITE
Client	Pad Jam Polymer Development Company
Contractor	Petro electric Energy Development Company
Consultant	Bina Design and Construction Company
Vendor	Delta GmbH

### 2. Applicable Documents (Spec & Standards)

- ASME SEC. VIII DIV.1
- ASME SEC. V
- TEMA
- DIN
- PED
- JIS

### 3. Abbreviations

1) (H)= INSPECTION NOTIFICATION will be issued by manufacturer and inspection shall be performed at presence of notified party. Next fabrication stage is subject to acceptance of inspection. Vendor must notify parties (see inspection activity) of the defecated inspection activity at least fifteen (15) days in advance.




2) (SW)=10% OF TYPE/LOT WITNESSED. Action performed only on a certain number of pieces.




3) (W)=WITNESSING. The Supplier shall inform the NOTIFIED PARTY of the date of the activity and the NOTIFIED PARTY reserves the right to witness the test. If the test is conducted at the notified date, the Supplier may proceed with the subsequent phase, even if the NOTIFIED did not witness the test

4) (R/A) =REVIEW OF TECHNICAL DOCUMENTS BEFORE COMMENCEMENT OF CONSTRUCTION. The technical documents shall be reviewed and approved before the commencement of construction

5) (R)=REVIEW OF DOCUMENTS. Materials certificates, statement of compliance and reports of inspection and tests conducted by the Supplier shall be revised to assess their conformance with the requirements specified in the

6) (D) = Vendor Inspection




 		Toase-ehe Park Sanati Gohar Ofogh Petrochemical Co. CONCEPTUAL, BASIC and DETAIL DESIGN ENGINEERING OF STYRENE PARK OFFSITE									
Project: Refrigeration System Styrene Park Joint Facility Project (Offsite)		Document Title: Inspection And Test (ITP)			CLIENT/OWNER: PETRO ELECTRIC/GOHAR OFOGH						
VENDOR NAME: DELTA GMBH		VENDOR DOC. NO.: EI027-HSE-VD-QC-ITP-0			QUALITY CONTROL / INSPECTION & TEST PLAN (ITP) FOR REFRIGERATION UNIT						
1	SCOPE	This Inspection and Test plan covers all activities that will be carried out in design and fabrication of equipment.							DATE: 07.Apr.2024		
2	LEGEND OF THE TECHNICAL SURVEILLANCE	1) (H)= INSPECTION NOTIFICATION will be issued by manufacturer and inspection shall be performed at presence of notified party. Next fabrication stage is subject to acceptance of inspection. Vendor must notify parties (see inspection activity) of the defidcated inspection activity at least fifteen (15) days in advance.							REV.: R2		
		2) (SW)=10% OF TYPE/LOT WITNESSED. Action performed only on a certain number of pieces.							BY : AM		
		3) (W)=WITNESSING. The Supplier shall inform the NOTIFIED PARTY of the date of the activity and the NOTIFIED PARTY reserves the right to witness the test. If the test is conducted at the notified date, the Supplier may proceed with the subsequent phase, even if the NOTIFIED did not witness the test.									
		4) (R/A)=REVIEW OF TECHNICAL DOCUMENTS BEFORE COMMENCEMENT OF CONSTRUCTION. The technical documents shall be reviewed and approved before the commencement of construction									
		5) (R )=REVIEW OF DOCUMENTS. Materials certificates, statement of compliance and reports of inspection and tests conducted by the Supplier shall be revised to assess their conformance with the requirements specified in the Code and Standards, Specifications and/or Purchase Order.									
		6) (D) = Vendor Inspection									
3	Abbreviations	O = Owner (GOPC) V = Vendor SV = Sub Vendor TPI = Third Party Inspection on behalf of owner									
Item No.	Inspection Description	References / Specifications / Codes	Verifying Document	Acceptance Criteria	INSPECTION ACTIVITY					REMARKS	REV
					SUB-VENDOR(SV)	VENDOR(V)	PE	Client/TPI			
<b>A PROJECT PREPARATION (Before Manufacturing)</b>											
A1	Submission of Project documents				TYPE	H	H	R	R		
					DATE						
					SIGN						
A2	PRE INSPECTION MEETING				TYPE	H	H	H	H	-	
					DATE						
					SIGN						
A3	BASIC DESIGN DRAFT DOCUMENT LIST P&ID , LAY-OUT				TYPE	H	H	R	R	-	
					DATE						
					SIGN						
A4	KICK-OFF MEETING CUSTOMER DETAILED DESIGN				TYPE	H	H	R	R	-	
					DATE						
					SIGN						
<b>B MATERIAL SELECTION / SUBCONTRACTOR ORDERING</b>											
B0	GENERAL	ALL ITEMS SUITABLE FOR AMBIENT TEMPERATURE	MATERIAL SUPPLY FABRICATION SCHEDULE QA / QC		TYPE	H	H	R	R	-	
					DATE						
					SIGN						
B1	COMPRESSOR Block MAYEKAWA(MYCOM)	MYCOM STANDARD Procedures	TEST REPORT For Compressor: '- Noise test '- Vibration test '- Perfomance test '-Hydro test	MATERIAL CERTIFICATES	TYPE	H	R	R	R	-	
					DATE						
					SIGN						
B2	MAIN MOTOR - HELMKE/VEM GERMANY	As Per HELMKE GERMANY Test Procedures Hazardous Area Certificates Ex ec	TEST REPORT ( Manuf. Std ) - Unwitenssed routine test report		TYPE	H	H	R	R	-	
					DATE						
					SIGN						
B3	Compressor Skids including Oil pump, Oil Filter, Piping, Oil Separator, etc	MYCOM MANUFACTURER STANDARD Test Procedure and Quality Control	Dimensional Check		TYPE	H	H	R	R	-	
					DATE						
					SIGN						
B4	PUMP MOTOR-HELMKE/VEM GERMANY	MANUFACTURER STANDARD with protection class as per Exec HAZARDOUS AREA CERTIFICATE Ex ec	TEST REPORT ( Manuf. Std ) - Unwitenssed routine test report		TYPE	H	H	R	R	-	
					DATE						
					SIGN						
NOTE :		CERTIFIED COMPLETE:				ENDORSEMENTS:					

 		Toase-ehe Park Sanati Gohar Ofogh Petrochemical Co. CONCEPTUAL, BASIC and DETAIL DESIGN ENGINEERING OF STYRENE PARK OFFSITE									
		Styrene Park Joint Facility Project (Offsite)		<b>Document Title: Inspection And Test (ITP)</b>		<b>CLIENT/OWNER:          PETRO ELECTRIC/GOHAR OFOGH</b>					
VENDOR NAME: DELTA GMBH		<b>VENDOR DOC. NO.: EI027-HSE-VD-QC-ITP-001-R2</b>		<b>QUALITY CONTROL / INSPECTION &amp; TEST PLAN (ITP) FOR REFRIGERATION UNIT</b>							
1	<b>SCOPE</b>	This Inspection and Test plan covers all activities that will be carried out in design and fabrication of equipment.						DATE: 07.Apr.2024			
2	<b>LEGEND OF THE TECHNICAL SURVEILLANCE</b>	1) (H)= INSPECTION NOTIFICATION will be issued by manufacturer and inspection shall be performed at presence of notified party. Next fabrication stage is subject to acceptance of inspection. Vendor must notify parties (see inspection activity) of the dedicated inspection activity at least fifteen (15) days in advance.						REV.:R2			
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Item No.	Inspection Description	References / Specifications / Codes	Verifying Document	Acceptance Criteria	ATTENDED BY					REMARKS	
					SUB-VENDOR(SV)	VENDOR(V)	PE	Client/TPI			
<b>B MATERIAL SELECTION / SUBCONTRACTOR ORDERING (CONTINUE)</b>											
B5	PROPANE Air CONDENSOR / CHILLER	ASME Sec. VIII Div. 1 and TEMA	WFS/PQR = WELDER QUALIFICATIONS WELD - WELDING CHECK NDE REPORTS CLEANLINESS TREATMENT HYDRAULIC & PRESSURE STATIC TEST DIMENSIONAL INSPECTION RT/UT REQUIREMENT Spot (on pressure retaining parts) PAINTING INSPECTION	MANUFACTURING STANDARD & Approved Drawing	TYPE	H	W	R	R		
					DATE						
					SIGN						
B6	BASE FRAME For CHILLER Skid		PT -10 % OF MAJOR STRUCTURAL CONNECTIONS 100 % PT LIFTING LUG WELDS 100 % UT BUTT WELDS IN MAJOR SUPPORTING BEAMS	ACC. Vendor DATASHEET/DRAWING SKID CONNECTION POINTS – ANCHOR BOLT POSITIONS INSPECTION	TYPE	H	H	R	R	-	
					DATE						
					SIGN						
B7	VALVES For Chiller Skid	ASME for Chiller Skid / MYCOM STD	-MANUFACTURER INSPECTION AND TEST RECORD -Manual Valves on Compressor skid is part of MYCOM STD Skid and as per MYCOM quality control System	ACC. Vendor DATASHEET/DRAWING INSPECTION /CERTIFICATE	TYPE	H	W	R	R		Inspection will be at Vendor workshop
					DATE						
					SIGN						
B8	PIPING For Chiller Skid	ASME/MYCOM STD For Compressor skid	1) Carbon oil and refrigerant piping 10% . 2) Instrument air header 10% . Amount will be based on total amount of welded inches.	Material certificates	TYPE	H	W	R	R	-	
					DATE						
					SIGN						
B9	SAFETY VALVES	ASME/MYCOM STD For Compressor skid	MATERIAL CERTIFICATES	INSPECTION REPORT	TYPE	H	W	R	R		
					DATE						
					SIGN						
B10	Smaller components within instrumentation routing, such as TUBING and GASKETS and bolting For chiller Skid		MATERIAL CERTIFICATES 3.1 For Compressor Skid, as per MYCOM STD quality Control System	INSPECTION CERTIFICATE	TYPE	H	R	R	R		
					DATE						
					SIGN						
B11	INSTRUMENTATION	Pressure and temperature gauges are provided with 3.1 material certificates	MATERIAL CERTIFICATES 3.1 DIMENSIONAL AND CONSTRUCTION DWG HAZARDOUS AREA CERTIFICATE CALIBRATION REPORT (3.1 material certificates)		TYPE	H	R	R	R		
					DATE						
					SIGN						

NOTE :

CERTIFIED COMPLETE:

ENDORSEMENTS:

 		Toase-ehe Park Sanati Gohar Ofogh Petrochemical Co. <b>CONCEPTUAL, BASIC and DETAIL DESIGN ENGINEERING OF STYRENE PARK OFFSITE</b>									
		Project: Refrigeration System Styrene Park Joint Facility Project (Offsite)		<b>Document Title: Inspection And Test (ITP)</b>							
VENDOR NAME: DELTA GMBH		<b>VENDOR DOC. NO.: EI027-HSE-VD-QC-ITP-001- R2</b>									
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Item No.	Inspection Description	References / Specifications / Codes	Verifying Document	Acceptance Criteria	ATTENDED BY					REMARKS	
					SUB-VENDOR(SV)	VENDOR(V)	PE	Client/TPI			
<b>C INSPECTION</b>											
C1	DIMENSIONAL INSPECTION OF SKID CONNECTION POINTS				TYPE	H	SW	R	W	Timer period of PMI will be informed.No specific dates are consider to be informed in advance by Vendor	
					DATE						
					SIGN						
C2	PAINTING	Vendor STANDARD / SUPPLIER_(Painting_Standard)	THICKNESS VISUAL INSPECTION and measurement via instrument. PAINT INSPECTION REPORT		TYPE	H	W	R	R		
					DATE		-	-	-		
					SIGN						
C3	ELECTRICAL WIRING	WIRING CHECK			TYPE	H	W	R	R		
					DATE						
					SIGN						
C4	INSPECTION OF JUCTION BOX, LOCAL PANEL AND PLC	FACTORY ACCEPTANCE TEST FOR PLC 1) VISUAL INSPECTION JUNCTION BOX, LOCAL PANEL AND PLC 2) FUNCTION TEST	TEST REPORT PLC FAT TEST PROCEDURE	CONTROL NARRATIVE DRAWINGS, DATA SHEETS	TYPE	H	W	W	W		
					DATE						
					SIGN						
C5	FINAL INSPECTION		NAME PLATES CONFIRMATION	RELEASE NOTE	TYPE	H	H	W	W		
					DATE						
					SIGN						
C6	APPROVAL OF CONCESSION REQUEST AND NON-CONFORMANCE REPORTS				TYPE	H	R	R / A	R / A		
					DATE						
					SIGN						
<b>D SHIPMENT AND LOADING</b>											
D1	PACKING AND MARKING PREPARATION FOR SHIPMENT DETAILED PACKING LIST	Shrunked Packed	PACKING INSPECTION: VISUAL INSPECTION COMPLETENESS CHECK PACKING LIST		TYPE	H	R	R	R		
					DATE						
					SIGN						
D2	DOCUMENTATION	As per Agreed document List Incl. Final data book, ITP, etc.	A COMPLETE PACKAGE OF INSPECTION AND TEST RECORD/CERTIFICATE MANUFACTURED RECORD		TYPE	H	R/A	R/A	R/A		
					DATE						
					SIGN						
NOTE :											
CERTIFIED COMPLETE:				ENDORSEMENTS:							