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پتروشیمی توسعه پارک  
صنعتی گوهر افق



BINA EPC Contractor Co.  
(Executor of Oil, Gas, Petrochemical & Power Industries)

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- R1

Rev. R1

Page 1 of 6

# STYRENE PARK OFFSITE

## Document Title:

## Inspection And Test (ITP)

for Refrigeration Unit- Package

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

Page	Revisions							Page	Revisions						
	R0	R1	R2	R3	R4	R5	R6		R0	R1	R2	R3	R4	R5	R6
1	X	X						41							
2	X	X						42							
3	X	X						43							
4	X	X						44							
5	X	X						45							
6		X						46							
7								47							
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  <b>BINA EPC Contractor Co.</b> <small>(Executor of Oil, Gas, Petrochemical &amp; Power Industries)</small>	<b>Toase-eh Park Sanati Gohar Ofogh  Petrochemical Co.  CONCEPTUAL, BASIC and DETAIL DESIGN  ENGINEERING OF STYRENE PARK OFFSITE</b>		
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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) add standard and spec no

### 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-001- R1

QUALITY CONTROL / INSPECTION & TEST PLAN (ITP) FOR REFRIGERATION UNIT

1	<b>SCOPE</b>	This Inspection and Test plan covers all activities that will be carried out in design and fabrication of equipment.					DATE: 18.Sep.2023					
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.: R1					
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		6) (D) = Vendor Inspection										
3	<b>Abbreviations</b>	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	delet	INSPECTION ACTIVITY					REMARKS	REV
						SUB-VENDOR(SV)	VENDOR(V)	PE	Client/TPI			
<b>A PROJECT PREPARATION (Before Manufacturing)</b>												
A1	Submission of Project documents					H	H	R	R			
A2	PRE INSPECTION MEETING					H	H	H	H	-		
A3	BASIC DESIGN DRAFT DOCUMENT LIST P&ID , LAY-OUT					H	H	R	R	-		
A4	KICK-OFF MEETING CUSTOMER DETAILED DESIGN					H	H	R	R	-		
<b>B MATERIAL SELECTION / SUBCONTRACTOR ORDERING</b>												
B0	GENERAL	ALL ITEMS SUITABLE FOR AMBIENT TEMPERATURE	MATERIAL SUPPLY FABRICATION SCHEDULE QA / QC			H	H	R	R	-		
B1	COMPRESSOR Block MAYEKAWA(MYCOM)	MYCOM STANDARD Procedures	TEST REPORT For Compressor: '- Noise test '- Vibration test '- Performance test '- Running test '-Hydro test	MATERIAL CERTIFICATES		H	R	R	R	-		
B2	MAIN MOTOR - HELMKE/Schorch GERMANY	As Per HELMKE GERMANY Test Procedures Hazardous Area Certificates Exec	TEST REPORT ( Manuf. Std ) - Unwitnessed routine test report			H	H	R	R	-		
B3	Compressor Skids including Oil pump, Oil Filter, Piping, Oil Separator, etc	MYCOM MANUFACTURER STANDARD Test Procedure and Quality Control	TEST REPORT	MATERIAL CERTIFICATES		H	H	R	R	-		
B4	PUMP MOTOR- HELMKE/Schorch GERMANY	MANUFACTURER STANDARD with protection class as per Exec HAZARDOUS AREA CERTIFICATE Exec	TEST REPORT ( Manuf. Std ) - Unwitnessed routine test report			H	H	R	R	-		

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-R1</b>	
<b>QUALITY CONTROL / INSPECTION &amp; TEST PLAN (ITP) FOR REFRIGERATION UNIT</b>		

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					SUB-VENDOR(SV)	VENDOR(V)	PE	Client/TPI		

**B MATERIAL SELECTION / SUBCONTRACTOR ORDERING (CONTINUE)**

B5	HEAT EXCHANGERS	ASME VIII DIV 1	MATERIAL CERTIFICATES 3.1 FOR PRESSURE RETAINING PARTS 2.2 WELD FILLER AND NON PRESSURE RETAINING PARTS	MANUFACTURING STANDARD & Approved Drawing	TYPE	H	W	R	R			
	PROPANE CONDENSOR / CHILLER	ASME Sec. VIII Div. 1 and TEMA	WPS/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		DATE							
					SIGN							
B6	BASE FRAME For CHILLER		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	ASME/MYCOM STD For Compressor skid	MANUFACTURER INSPECTION AND TEST RECORD	ACC. Vendor DATASHEET/DRAWING INSPECTION /CERTIFICATE	TYPE	H	W	R	R		Inspection will be at Vendor workshop	
					DATE							
					SIGN							
B8	PIPING	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 3.1 TEST REPORT	INSPECTION REPORT	TYPE	H	W	R	R			
					DATE							
					SIGN							
B10	Smaller components within instrumentation routing, such as TUBING and GASKETS and bolting .		MATERIAL CERTIFICATES 3.1	INSPECTION CERTIFICATE	TYPE	H	R	R	R			
					DATE							
					SIGN							
B11	INSTRUMENTATION	Pressure and temperature guages are provided with 3.1 material certificates	MATERIAL CERTIFICATES 3.1 DIMENSIONAL AND CONSTRUCTION DWG HAZARDOUS AREA CERTIFICATE CALIBRATION REPORT (3.1 material certificates). 3 point calibration		TYPE	H	R	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



Project: Refrigeration System Styrene Park  
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					SUB-VENDOR(SV)	VENDOR(V)	PE	Client/TPI		

**C INSPECTION**

C1	DIMENSIONAL INSPECTION OF SKID CONNECTION POINTS					TYPE	H	SW	R	R	Time period of PIR will be informed.No specific dates are consider to be informed in advance by Vendor
						DATE					
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	RUST PREVENTION FOR STORAGE	Vendor STANDARD	NITROGEN CHARGING -0.5 BAR			TYPE	H	W	R	R	
						DATE					
						SIGN					
C6	FINAL INSPECTION		NAME PLATES CONFIRMATION		RELEASE NOTE	TYPE	H	H	W	W	
						DATE					
						SIGN					
C7	APPROVAL OF CONCESSION REQUEST AND NON-CONFORMANCE REPORTS					TYPE	H	R	R/A	R/A	
						DATE					
						SIGN					

**D SHIPMENT AND LOADING**

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					
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: