



Project: ZANJAN PC  
REFRIGERATION PACKAGE,

Document Title: Inspection And Test (ITP)

CLIENT/OWNER:

VENDOR NAME: HAMIAN SANAT ENERGY

VENDOR DOC. NO.:

**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: 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		
		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	<b>Abbreviations</b>	O = Owner      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	<p>Note that test and inspection of electrical equipments (motors, LCP,...) should be done as per our SOI attached to the requisition. Please confirm and consider it in your offer.</p> <p>Vendor reply: Please kindly specify your comment if any as agreed with owner, test and inspection will be done as per this ITP and no further specification applies.</p>			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 '- Performance 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	TEST REPORT ( Manuf. Std ) - Unwitnessed 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 ) - Unwitnessed 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

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

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

B5	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	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 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)		TYPE	H	R	R	R		
					DATE						
					SIGN						

NOTE : CERTIFIED COMPLETE: ENDORSEMENTS:

