



**Gachsaran Polymer Industries Company  
HDPE Plant**



**Inspection And Test Plan (ITP) for Refrigerator Package**




P.O. No: GPIC-PT-MA-PO-000-302

VENDOR DOC. NO.: VD-GPIC-MA-3029-3029-0003

Rev.  
03

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## Inspection And Test Plan (ITP) for Refrigerator Package

<b>Code 1</b>	<b>No Comment / Approved</b> (Applicable Only for "For Review" and "For Approval" Documents) No comment and the document are released for Manufacturing.
<b>Code 2</b>	<b>No Comment/ Approved with Note(s)</b> Vendor/Sub- Contractor shall correct, revise and resubmit the document. The document is released for Manufacturing if changes incorporated.
<b>Code 3</b>	<b>Commented</b> Vendor/Sub-Contractor shall correct, revise and resubmit the document by the date specified. The document shall be revised under the Status of "R: Revised Issue". All corrected documents shall be resubmitted before starting the Manufacturing Process.
<b>Code 4</b>	<b>Not Accepted ( Rejected )</b> Vendor/Sub-Contractor shall re-work / re-design / re-specify the contents of the document according to the comments / reasons for rejection. All corrected documents shall be resubmitted before starting the manufacturing. Vendor/Sub-Contractor shall not proceed with subsequent works of Material Supply or Manufacturing until receiving Code1/Code2 or No Code from PURCHASER. Vendor/Sub-Contractor shall resubmit the document with the same revision within 6 working days after receiving comments.
<b>No Code</b>	<b>No Code</b> (Only for "For Information" Documents and "As Built DWGs") Document has been submitted for PURCHASER's Information (FI). Consistency, completeness and correctness of document content is in Vendor/Sub-Contractor's responsibility.
	<b>Date:</b>
	<b>Dept.:</b>
	<b>Signature:</b>
Above checking results by EIED shall in no way relieve Vendor of any liability, obligation and responsibility out of the purchase order and the mutual agreement in writing.	

03	05.08.2025	IFA	N.B	F.T	A.M
02	16.07.2025	IFA	A.M	F.T	A.M
01	27.05.2025	IFA	A.M	F.T	A.M
00	21.04.2025	IFA	N.B	F.T	A.M
<b>Rev.</b>	<b>Date (DD.MMM.YY)</b>	<b>Purpose OF Issue</b>	<b>Prepared</b>	<b>Checked</b>	<b>Approved</b>



**Gachsaran Polymer Industries Company  
HDPE Plant**



**Inspection And Test Plan (ITP) for Refrigerator Package**



P.O. No: GPIC-PT-MA-PO-000-3029

**VENDOR DOC. NO.: VD-GPIC-MA-3029-3029-0003**






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P.O. No: GPIC-PT-MA-PO-000-3029		<b>Inspection And Test Plan (ITP) for Refrigerator Package</b>		 		DATE: 05.08.2025
P.O.Title: Refrigeration Unit Package		<b>VENDOR DOC. NO.: VD-GPIC-MA-3029-3029-0003</b>				REV.: 03
<b>ITEM NO(S): PK6101</b>						
1	<b>SCOPE</b>	This Inspection and Test plan covers all activities that will be carried out in design and fabrication of equipment.				
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.				
		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 Code and Standards, Specifications and/or Purchase Order.				
		6) (D) = Vendor Inspection				
3	<b>Abbreviations</b>	O/MC= Owner (PIDMCO) C= Contractor (EIED) V= Vendor (HSE/RHINE) SV = Sub Vendor TPI = Third Party Inspection on behalf of owner				
<p><b>Hold (H):</b> Hold point is a designate point during or following specific activities which are defined in ITP and which inspection or examination shall not proceed unless the designate parties have witnessed the inspection or examination or test. TPA shall sign and stamp all related reports as HOLD POINT, and results all activates shall be specified clearly by term Accepted / Rejected. Vendor/Contractor shall be informed other party at least 7 working days prior to subject action.</p> <p><b>Witness (W):</b> Witness point is a designate point during or following an important activity at which inspection or examination is required in according with the relative procedures. Work may proceed through the designate witness point if the inspector is not present for the previously established activity. TPA shall sign and stamp all related reports as "Witnessed by TPA" and results all activates shall be specified clearly by term Accepted / Rejected. Vendor/Contractor shall be informed other party at least 3 working days prior to subject action.</p> <p><b>Review(R):</b> It is proceed though reviewing any result of inspection or test as a method of ensuring that the inspecting of test is performed in accordance with any approved procedure, specification or acceptance criteria. Inspection result shall review, but presence of involved party at inspection time is not mandatory, all documents shall be sign and stamp as reviewed and results all activates shall be specified clearly by term accepted / Rejected. Also, TPA shall be Reviewed document in 7 days.</p> <p><b>Review and Approved (RA):</b> RA means that documents reviewed by involved party shall be signed and stamped as reviewed and approved. Where a document is subjected to party approval, work shall not proceed until related party approved is obtained.</p> <p><b>Spot witness (SW):</b> Include a wide variety of action taken by charge person to inspect, check, control of activities and their sequence by means of observation, information collection, and verbal instruction of the activities; verify the routing and supporting documents for the purpose of proper expedition. Any non-conformity found during above mentioned inspection by TPA shall be reported to SUPPLIER and CONTRACTOR/PURCHASER and COMPANY immediately. Vendor shall send notification for SW point.</p>						
<b>NOTE :</b>		<b>CERTIFIED COMPLETE:</b>		<b>ENDORSEMENTS:</b>		

 		<b>Gachsaran Polymer Industries Company</b> <b>HDPE Plant</b>							Page : 04 Of 12		
P.O. No: GPIC-PT-MA-PO-000-3029		Inspection And Test Plan (ITP) for Refrigerator Package				 			DATE: 05.08.2025		
P.O.Title: Refrigeration Unit Package		VENDOR DOC. NO.: VD-GPIC-MA-3029-3029-0003							REV.: 03		BY : MO
<b>ITEM NO(S): PK6101</b>											
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Item No.	Inspection Description	References / Specifications / Codes	Acceptance Criteria	Verifying Document	INSPECTION ACTIVITY					REMARKS	REV
					SUB-VENDOR (SV)	VENDOR (V)	EIED (C)	TPI	OWNER/MC		
<b>A PROJECT PREPARATION</b>											
A1	DOCUMENT REVIEW ACCORDING TO APPROVED VPIS	PROJECT DOCUMENTS AS PER VPIS	-	-	H	H	R	-	R		
A2	PRE INSPECTION MEETING	INSPECTION AND TEST PLAN (ITP)	-	ITP & PIM AGENDA	H	H	H	-	H		
<b>B MATERIAL SELECTION / SUBCONTRACTOR ORDERING</b>											
B0	GENERAL	ALL ITEMS SUITABLE FOR AMBIENT TEMPERATURE / OUTDOOR ALL ITEMS TO BE CONFORM ZONE 2 GROUP IIB T3		MATERIAL SUPPLY FABRICATION SCHEDULE QA / QC	H	H	R	R	R		
B1	COMPRESSOR- MAYEKAWA (MYCOM) FACTORY	DETAILS AS PER COMPRESSOR QUALITY PLAN MYCOM STANDARD Procedures	MATERIAL CERTIFICATES	TEST REPORT : - Noise test - Vibration test - Performance test - Running test - Hydro test	H	H	R	R	R		
B2	MAIN MOTOR	AS PER MANUFACTURER'S TEST PROCEDURES HAZARDUS AREA CERTIFICATES		TEST REPORT ( Manuf. Std ) - Unwitnessed routine test report	H	H	R	R	R		
B3	OIL PUMP- MAYEKAWA FACTORY	MYCOM MANUFACTURER STANDARD Test Procedure	MATERIAL CERTIFICATES	TEST REPORT incl; Hydro test result and performance test result	H	H	R	R	R		
B4	OIL PUMP MOTOR	MANUFACTURER STANDARD HAZARDOUS AREA CERTIFICATE		TEST REPORT ( Manuf. Std ) - Unwitnessed routine test report	H	H	R	R	R		
B5	MAIN COUPLING	API671 WITH DEVIATION (FLEXIBLE DISC TYPE COUPLING)	MATERIAL CERTIFICATES	SUITABLE FOR HAZARDOUS AREA	H	H	R	R	R		
<b>NOTE :</b> <span style="margin-left: 100px;"><b>CERTIFIED COMPLETE:</b></span> <span style="margin-left: 100px;"><b>ENDORSEMENTS:</b></span>											



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P.O. No: GPIC-PT-MA-PO-000-3029

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P.O. Title: Refrigeration Unit Package

**VENDOR DOC. NO.: VD-GPIC-MA-3029-3029-0003**

BY : MO






**ITEM NO(S): PK6101**

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Item No.	Inspection Description	References / Specifications / Codes	Acceptance Criteria	Verifying Document	INSPECTION ACTIVITY					REMARKS	REV
					SUB-VENDOR (SV)	VENDOR (V)	EIED (C)	TPI	OWNER/MC		

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

Item No.	Inspection Description	References / Specifications / Codes	Acceptance Criteria	Verifying Document	SUB-VENDOR (SV)	VENDOR (V)	EIED (C)	TPI	OWNER/MC	REMARKS	REV
B6	RECEIVER	ASME VIII DIV 1 (U-STAMP NOT REQUIRED ) (Welding_Standard)	VD-GPIC-MA-3029-3029-0024	1) MATERIAL CERTIFICATES 3.1 FOR PRESSURE RETAINING PARTS 2.2 WELD FILLER AND NON PRESSURE RETAINING PARTS	H	H	W	W	R		
				WPS/PQR – WELDER QUALIFICATIONS WELDING CHECK NDE REPORTS CLEANLINESS TREATMENT RT REQUIREMENT AS PER NDT MAP (on pressure retaining parts) PWHT (If Applicable) PAINTING INSPECTION	H	H	R	R	R		
				DIMENSIONAL CHECK	H	H	W	W	R		
				HYDROSTATIC TEST	H	H	W	W	R		

 		<b>Gachsaran Polymer Industries Company</b> <b>HDPE Plant</b>				Page : 06 Of 12
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					SUB-VENDOR (SV)	VENDOR (V)	EIED (C)	TPI	OWNER/MC		

<b>B MATERIAL SELECTION / SUBCONTRACTOR ORDERING (CONTINUE)</b>											
B7	OIL SEPARATOR (WITH COALESCERS)	ASME VIII DIV 1 (U-STAMP NOT REQUIRED)	VD-GPIC-MA-3029-3029-0024	1) MATERIAL CERTIFICATES 3.1 FOR PRESSURE RETAINING PARTS 2.2 WELD FILLER AND NON PRESSURE RETAINING PARTS WPS/PQR – WELDER QUALIFICATIONS WELDING CHECK NDE REPORTS CLEANLINESS TREATMENT RT REQUIREMENT AS PER NDT MAP (on pressure retaining parts) PWHT (If Applicable) DIMENSIONAL CHECK HYDROSTATIC TEST PAINTING INSPECTION	H	W	R	R	R	Material Certificate, Dimensional Check, Hydrostatic Test, Painting (Witness for EIED and TPI)	
B8	OIL FILTER	ASME VIII DIV 1 (U-STAMP NOT REQUIRED)	VD-GPIC-MA-3029-3029-0024	1) MATERIAL CERTIFICATES 3.1 FOR PRESSURE RETAINING PARTS NDE REPORTS CLEANLINESS TREATMENT INTERNAL INSPECTION (Visual Examination) VISUAL CHECK DIMENSIONAL CHECK HYDROSTATIC TEST PAINTING INSPECTION	H	H	R	R	R		



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REV.: 03

P.O. Title: Refrigeration Unit Package

**VENDOR DOC. NO.: VD-GPIC-MA-3029-3029-0003**

BY : MO

**ITEM NO(S): PK6101**

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<b>Item No.</b>	<b>Inspection Description</b>	<b>References / Specifications / Codes</b>	<b>Acceptance Criteria</b>	<b>Verifying Document</b>	<b>INSPECTION ACTIVITY</b>					<b>REMARKS</b>	<b>REV</b>
					<b>SUB-VENDOR (SV)</b>	<b>VENDOR (V)</b>	<b>EIED (C)</b>	<b>TPI</b>	<b>OWNER/MC</b>		

<b>B MATERIAL SELECTION / SUBCONTRACTOR ORDERING (CONTINUE)</b>											
B9	HEAT EXCHANGERS 1. CONDENSER 2. OIL COOLER 3. ECONOMIZER 4. CHILLER (EVAPORATOR)	ASME VIII DIV 1 (U-STAMP NOT REQUIRED) TEMA	VD-GPIC-MA-3029-3029-0027	MATERIAL CERTIFICATES 3.1 FOR PRESSURE RETAINING PARTS 2.2 WELD FILLER AND NON PRESSURE RETAINING PARTS	H	W	W	W	R		
				WPS/PQR – WELDER QUALIFICATIONS WELDING CHECK NDE REPORTS CLEANLINESS TREATMENT RT REQUIREMENT AS PER NDT MAP (on pressure retaining parts) PWHT (If Applicable) PAINTING INSPECTION	H	H	R	R	R		
				DIMENSIONAL CHECK	H	H	W	W	R		
				HYDROSTATIC TEST	H	H	W	W	R		
B10	BASE FRAME	MANUFACTURER STANDARD Design Suitable for This Series of Compressor	ACC. Vendor DATASHEET/DRAWING SKID CONNECTION POINTS – ANCHOR BOLT POSITIONS INSPECTION /CERTIFICATE	PT -10 % OF MAJOR STRUCTURAL CONNECTIONS 100 % PT LIFTING LUG WELDS 100 % RT BUTT WELDS FOR SUPPORTING BEAMS (IF APPLICABLE)	D	R	R	R	R	DIMENSIONAL CHECK (Witness BY EIED &TPI)	



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<b>B MATERIAL SELECTION / SUBCONTRACTOR ORDERING (CONTINUE)</b>											
B11	VALVES	ASME/MFR STD For Special Valves	ACC. Vendor DATASHEET/DRAWING INSPECTION /CERTIFICATE	MATERIAL CERTIFICATES 3.1 FOR MAJOR PARTS HYDROSTATIC REPORT PAINTING INSPECTION	D	R	R	R	R		
B12	SAFETY VALVES	ASME VIII DIV 1 without U-Stamp	INSPECTION CERTIFICATE	MATERIAL CERTIFICATES 2.2 SET PRESSURE TEST REPORT CALCULATIONS TEST REPORT	D	R	R	R	R		
B13	Smaller components within instrumentation routing, such as TUBING AND GASKETS and bolting .	ASTM STANDARD	INSPECTION CERTIFICATE	MATERIAL CERTIFICATES 3.1	D	R	R	R	R		
B14	INSTRUMENTATION	Pressure, Temperature and Level Guages and Transmitters are provided with 2.2 material certificates.	INSPECTION CERTIFICATE INSTRUMENT DATA SHEET	MATERIAL CERTIFICATES 2.2 HAZARDOUS AREA CERTIFICATE	D	R	R	R	R		
				CALIBRATION REPORT							

**NOTE :**

**CERTIFIED COMPLETE:**

**ENDORSEMENTS:**





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BY : MO

**ITEM NO(S): PK6101**






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					SUB-VENDOR (SV)	VENDOR (V)	EIED (C)	TPI	OWNER/MC		
<b>D INSPECTION</b>											
D1	DIMENSIONAL INSPECTION OF SKID CONNECTION POINTS	GENERAL ARRANGMENT DRAWING	APPROVED GAD	REPORT	H	H	W	W	R		
D2	PARTS AND COMPONENT INSPECTION	PIPING AND INSTRUMENTATION DIAGRAM	APPROVED P&ID	REPORT	H	H	W	W	R		
D3	PNEUMATIC TEST OF UNITS	HYDROSTATIC TEST PROCEDURE	APPROVED HYDROSTATIC TEST PROCEDURE	REPORT	H	H	W	W	SW		

NOTE :

**CERTIFIED COMPLETE:**

**ENDORSEMENTS:**

 		<b>Gachsaran Polymer Industries Company HDPE Plant</b>						Page : 11 Of 12			
P.O. No: GPIC-PT-MA-PO-000-3029		Inspection And Test Plan (ITP) for Refrigerator Package				 		DATE: 05.08.2025			
P.O. Title: Refrigeration Unit Package		VENDOR DOC. NO.: VD-GPIC-MA-3029-3029-0003-02						REV.: 03			
<b>ITEM NO(S): PK6101</b>											
1	<b>SCOPE</b>	This Inspection and Test plan covers all activities that will be carried out in design and fabrication of equipment.									
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 defidcated 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 Code and Standards, Specifications and/or Purchase Order. 6) (D) = Vendor Inspection									
3	<b>Abbreviations</b>	O/MC= Owner (PIDMCO) C= Contractor (EIED) V= Vendor (HSE/RHINE) SV = Sub Vendor TPI = Third Party Inspection on behalf of owner									
Item No.	Inspection Description	References / Specifications / Codes	Acceptance Criteria	Verifying Document	INSPECTION ACTIVITY					REMARKS	REV
					SUB-VENDOR (SV)	VENDOR (V)	EIED (C)	TPI	OWNER/MC		
<b>D INSPECTION (CONTINUE)</b>											
D4	PAINTING	MYCOM STANDARD / VENDOR PAINTING PROCEDURE / PAINTING PROCEDURE AS PER VPIS	APPROVED PAINTING PROCEDURE	REPORT	H	H	W	W	R		
D5	INSTRUMENT WIRING	MANUFACTURER STANDARD	APPROVED INSTRUMENT, JUNCTION BOX, AND LOCAL CONTROL PANEL LOCATION AND CABLE ROUTING LAYOUT	REPORT	H	H	W	W	R		
D6	INSPECTION OF JUCTION BOX, LOCAL PANEL	VISUAL INSPECTION JUNCTION BOX, LOCAL PANEL	APPROVED LCP AND JUNCTION BOX LAYOUT, ARRANGMENT AND WIRING DRAWING	REPORT	H	H	W	W	R		



**Gachsaran Polymer Industries Company  
HDPE Plant**



**P.O. No:** GPIC-PT-MA-PO-000-3029

**Inspection And Test Plan (ITP) for Refrigerator Package**



REV.: 03

**P.O. Title:** Refrigeration Unit Package

**VENDOR DOC. NO.:** VD-GPIC-MA-3029-3029-0003-02

BY : MO

**ITEM NO(S).: PK6101**

1	<b>SCOPE</b>	This Inspection and Test plan covers all activities that will be carried out in design and fabrication of equipment.
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.
		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.
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Item No.	Inspection Description	References / Specifications / Codes	Acceptance Criteria	Verifying Document	INSPECTION ACTIVITY					REMARKS	REV
					SUB-VENDOR (SV)	VENDOR (V)	EIED (C)	TPI	OWNER/MC		
D7	INSPECTION OF UCP	FUNCTION TEST OF UCP	APPROVED FAT PROCEDURE FOR UCP	REPORT	H	H	W	W	R		

**E SHIPMENT AND LOADING**

E1	PACKING AND MARKING INSPECTION	PACKING PROCEDURE	APPROVED Marking & Packing Procedure	PACKING LIST	H	H	H	H	R		
E2	INSPECTION RELEASE NOTE		INSPECTION RELEASE NOTE	INSPECTION RELEASE NOTE	-	-	R	H	R		
E3	FINAL DATA BOOK	FINAL DATA BOOK INDEX	VPIS & REPORTS	FINAL DATA BOOK	-	H	R	R	-		

**NOTE :**

**CERTIFIED COMPLETE:**

**ENDORSEMENTS:**