



 Gachsaran Polymer Industries Company PIDMCO	<b>Gachsaran Polymer Industries Company</b> <b>HDPE Plant</b>  <b>Evaporator (Chiller) Drawing</b>		
			
PO No.: GPIC-PT-MA-PO-000-3029	Document Number: VD-GPIC-MA-3029-3029-0089	Rev. 00	<b>Page 1 of 3</b>

## Evaporator (Chiller) Drawing

Please specify tag number  
 Vendor Reply: Noted.  
 EIED Conclusion: Closed.

<b>Code1</b>	<input type="checkbox"/> <b>No Comment/ Approved</b> (Applicable Only for "FOR REVIEW" and "For Approval" Documents) No comment and the document are released for Manufacturing.
<b>Code2</b>	<input type="checkbox"/> <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>Code3</b>	<input checked="" type="checkbox"/> <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>	<input type="checkbox"/> <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>	<input type="checkbox"/> <b>No Code</b> ( Applicable 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.

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.

 Energy Industries Engineering & Design co.	<b>Date:</b> Sep.14, 2025
	<b>Dept.:</b> MA
	<b>Signature:</b> F.Hamooni

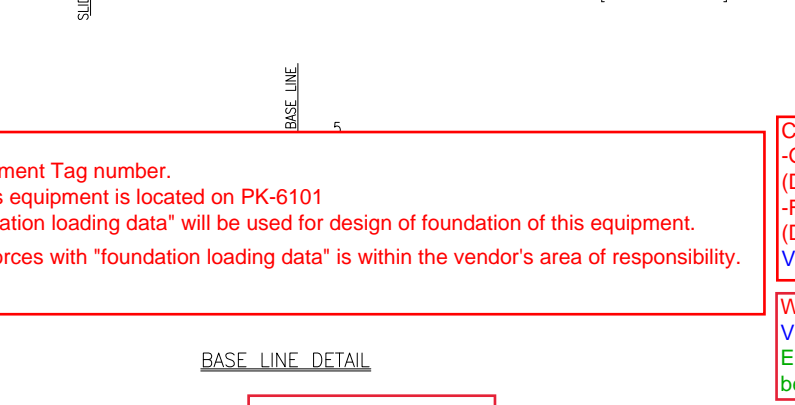
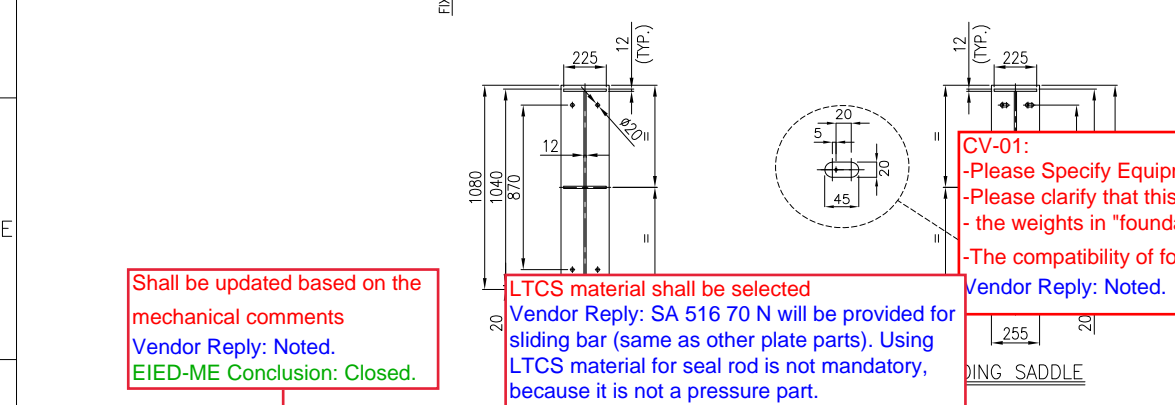
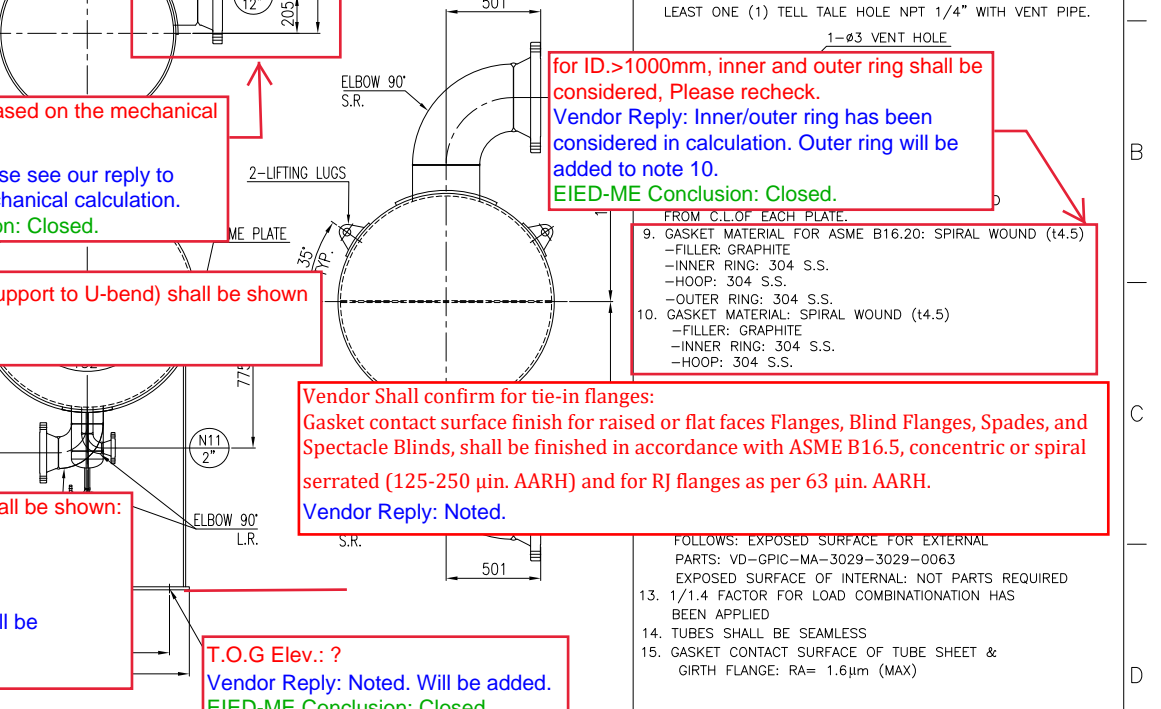
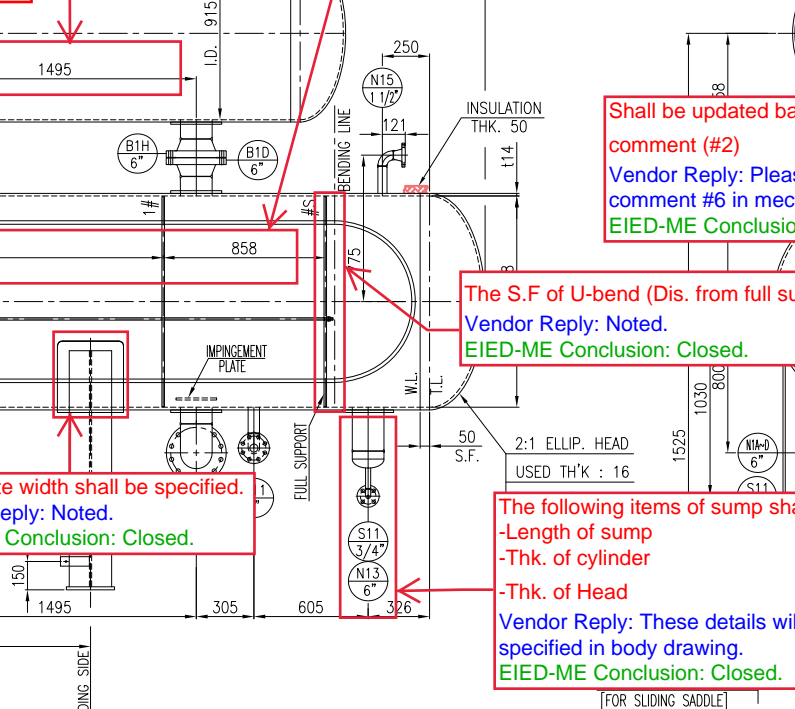
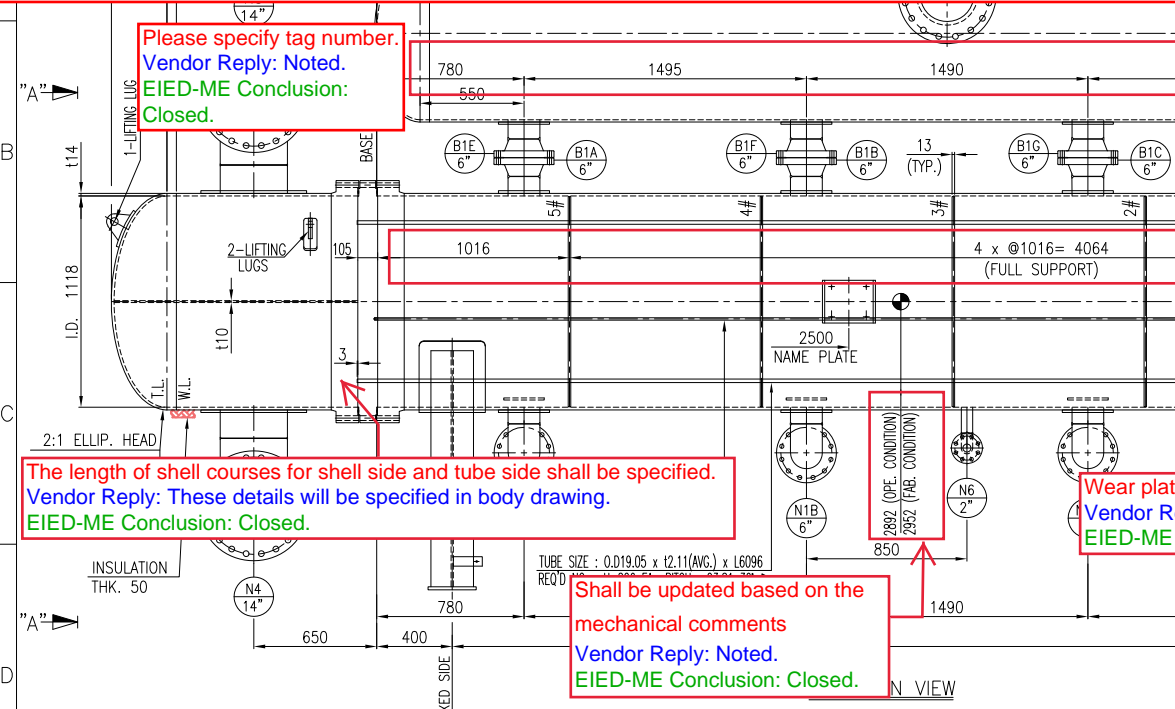
05					
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00	30-Aug-25	IFR	N.B	F.T	A.M
<b>Rev.</b>	<b>DATE</b>	<b>PURPOSE OF ISSUE</b>	<b>PREPARED</b>	<b>CHECKED</b>	<b>APPROVED</b>



**PI COMMENT:**  
 -This drawing is related to the inside of the package and the design of the equipment inside the package is outside client (EIED) scope of work and shall be handled by the vendor; therefore, the client (EIED) does not have any comment on detail drawing of equipments inside refrigerator package.  
 - The client (EIED) receive refrigerator package on skid; therefore, the size and rating and location of the lines at the Ti-in with the client will strictly be reviewed in the document of general arrangement drawing for refrigerator package.  
**Vendor Reply:** Noted.  
 -The 3D model must be prepared by vendor.  
**Vendor Reply:** Noted.  
 - There is a discrepancy between the nozzles size in this document and general arrangement drawing for refrigerator package.  
**Vendor Reply:** Will be rechecked and revised in next revision.

The following items shall be considered in Qty. and location of baffles:  
 -Baffle cut on top and bottom baffle for uniform distribution.  
**Vendor Reply:** Noted. Baffle details will be specified in body drawing.  
**EIED-ME Conclusion:** Closed.  
 -The Qty. and location of baffle is attached as a picture.  
**Vendor Reply:** Noted.  
**EIED-ME Conclusion:** Closed.

The following drawing shall be provided by Vendor:  
 -Body detail  
 -Bundle detail (including tube layout)  
**Vendor Reply:** Will be submitted in next revision.  
**EIED-ME Conclusion:** Closed.  
 Please note that, body and bundle detail drawing will not be checked by EIED (Issued for information), and the vendor shall be fully responsible for any discrepancy between Calculation, GAD and Body/Bundle detail drawing.



REFERENCE DOCUMENTS	DOC. NO.
13. 1/1.4 FACTOR FOR LOAD COMBINATION HAS BEEN APPLIED	
14. TUBES SHALL BE SEAMLESS	
15. GASKET CONTACT SURFACE OF TUBE SHEET & GIRTH FLANGE: RA= 1.6µm (MAX)	

SEISMIC (NOTE 13)		WIND	
SHEAR (kgf)	MOMENT (kgf-m)	SHEAR (kgf)	MOMENT (kgf-m)
4151	6330	975	1487

DESCRIPTION	DESIGNATION	REMARKS
BARREL	SA-516 70/SA-194-4	
FLANGES	SA350-LF2 CL.1N	
NOZZLE FROM PIPE	SA350-LF2 CL.1N	
NOZZLE FROM PLATE	SA350-LF2 CL.1N	
NOZZLE FLANGES/FORGED NOZZLE	SA350-LF2 CL.1N	
COUPLINGS & PLUGS	SA350-LF2 CL.1N	
NOZZLE REINF. PAD	SA-516 70N	
EXCHANGERS SUPPORT	SA-516 70N	
SUPPORT WEAR PLATE	SA-516 70N	
STIFFENING RINGS	SA-516 70N	
EXPANSION JOINT	SA-516 70N	
CHANNEL/COVER	SA-516 70N	
LINING	SA-516 70N	
BARREL COVER	SA-516 70N	
COVER	SA-516 70N	
FLANGES	SA350-LF2 CL.1N	
COVER	SA-516 70N	
FLAT COVER	SA333-6	
NOZZLE FROM PIPE	SA350-LF2 CL.1N	
NOZZLE FROM PLATE	SA350-LF2 CL.1N	
NOZZLE FLANGES/FORGED NOZZLE	SA350-LF2 CL.1N	
COUPLINGS & PLUGS	SA350-LF2 CL.1N	
NOZZLE REINF. PAD	SA-516 70N	
PARTITION PLATES	SA-516 70N	

ITEM	VALUE	REMARKS
DESIGN PRESS. (barg)	25	
DESIGN TEMP. (°C)	125	
OPER. PRESS. (barg)	1.617	
OPER. TEMP. (°C)	125	
CORROSION ALLOWANCE (mm)	1.25 / 3	
INSULATION (TYP/THK. mm)	COLD/50	
NO. OF PASS	1(ONE) 2(TOW)	
WEIGHT		
BUNDLE (KG)	6500	
ERECTOR (KG)	15400	
FABR. (KG)	11200	
OPER. (KG)	20300	
SHOP TEST (KG)	18400	
TEST (KG)	18150	
SURFACE AREA/SHELL (M²)		
VOLUME (M³)	4.8 0.9	
FLUID DENSITY (kg/m³)	579.45 698.16	
MEAN TEMP. (°C)	50 44	

ITEM	SERVICE	QTY.	SIZE	CONNECTION TYPE	RATING	NECK SCH.	THK.	DIAM.	REIN. PAD THK.	PROJ. (NOTE 2)
N1A-D	PROPYLENE INLET	1	14"	W.N.	300#	R.F.	160	14	762	14
N1B-D	PROPYLENE INTER	1	14"	W.N.	300#	R.F.	160	14	560	14
N1E-H	PROPYLENE INTER	1	14"	W.N.	300#	R.F.	160	14	560	14
N2	PROPYLENE OUTLET	1	12"	W.N.	300#	R.F.	160	14	560	14
N3	PROCESS INLET	1	14"	W.N.	300#	R.F.	160	14	560	14
N4	PROCESS OUTLET	1	14"	W.N.	300#	R.F.	160	14	560	14
N5	PROPYLENE VENT	1	2"	W.N.	300#	R.F.	160	14	560	14
N6	PROPYLENE DRAIN	1	2"	W.N.	300#	R.F.	160	14	560	14
N10	LEVEL TRANSMITTER	1	2"	W.N.	300#	R.F.	160	14	560	14
		1	2"	W.N.	300#	R.F.	160	14	560	14
		1	6"	W.N.	300#	R.F.	160	14	560	14
		1	3"	W.N.	300#	R.F.	160	14	560	14
		1	1 1/2"	W.N.	300#	R.F.	160	14	560	14
		1	3/4"	W.N.	300#	R.F.	XXS	14	560	14

NO.	DATE	PURPOSE	PREPARED	CHECKED	APPROVED
00	26.Aug.25	IFR	D.SH	F.T	A.M