



	Gachsaran Polymer Industries Company HDPE Plant			
	Electrical Load List		 	
PO No.: GPIC-PT-MA-PO-000-3029	Document Number: VD-GPIC-MA-3029-3029-0060		Rev. 01	Page 1 of 3

Electrical Load List

Code1	<input type="checkbox"/> No Comment/ Approved (Applicable Only for "FOR REVIEW" and "For Approval" Documents) No comment and the document are released for Manufacturing.
Code2	<input type="checkbox"/> No Comment/ Approved with Note(s) Vendor/Sub-Contractor shall correct, revise and resubmit the document. The document is released for Manufacturing if changes incorporated.
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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.	
	
Date: Nov. 19, 2025 Dept.: MA Signature: F.Hamooni	

05					
04					
03					
02					
01	12-Nov-25	IFR	A.M	F.T	A.M
00	2-Sep-25	IFR	A.M	F.T	A.M
Rev.	DATE	PURPOSE OF ISSUE	PREPARED	CHECKED	APPROVED



Gachsaran Polymer Industries Company
HDPE Plant



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ITEM NO.	Tag No.	Description	Voltage (V) (1)	Mechanical (Shaft) Power (kW) (2)	Rated Power (kW) (3)	Duty (C/I/S) (4)	Source Type (N/E/V) (5)	Power Factor (6)	Efficiency (%) (7)	Rated Current (A) (8)	Load Factor (9)	Sync. Speed (rpm) (10)	Absorbed Active Power (kW) (11)	Absorbed Reactive Power (kVAR) (12)	Remark
1	CM-6101A	MOTOR FOR REFRIGERANT COMPRESSOR A	6000	1089	1250	C	N	0.87	95.8	144.0	0.87	3000	1136.7	644.2	
2	CM-6101A-SH	SPACE HEATER FOR MOTOR OF REFRIGERANT COMPRESSOR A	230	-	0.8	S	N	1	100	3.48	1.00	-	0.8	0.0	
3	PM-6111A	OIL PUMP MOTOR A FOR REFRIGERANT COMPRESSOR A	400	9.3	11	C	N	0.85	90.6	20.6	0.85	1500	10.3	6.4	
4	PM-6111B	OIL PUMP MOTOR B FOR REFRIGERANT COMPRESSOR B	400	9.3	11	I	N	0.85	90.6	20.6	0.85	1500	10.3	6.4	
5	EH-6101	OIL HEATER FOR REFRIGERAN PACKAGE	400	-	9	I	N	1	100	12.99	1.00	-	9.0	0.0	
	CM-6101B	MOTOR FOR REFRIGERANT COMPRESSOR B	6000	1089	1250	C	N	0.87	95.8	144.0	0.87	3000	1136.7	644.2	
6					0.8	S	N	1	100	3.48	1.00	-	0.8	0.0	
7					0.6	C	E	0.95	100	2.75	1.00	-	0.6	0.2	
8					1	C	V	0.95	100	9.57	1.00	-	1.0	0.3	
9					1	S	V	0.95	100	9.57	1.00	-	1.0	0.3	

EL:
 Considered API factors for all motors shall be added in a column.
 And also for the oil pumps motors, rated power needs to be adequate for "BHP x API factor".

Vendor Reply: API factor is not required to add in the electrical load list. This is EIED template which we have used in previous projects. MAYEKAWA never considered this data in worldwide projects with BP, Shell, Exxon Mobile, Aramco, etc.

Please note that 9.3 kW for oil pump is shaft power at PRV set pressure and no need to be multiplied by API factor. Mechanical shaft power in worst case operating condition is 5.1 kW. We have selected rated power 11 kW considering 9.3 kW for PSV condition. If not, it was not necessary to use 11 kW for this motor and 7.5 kW was enough.

Please be informed that as we agreed before PO, oil pump is MAYEKAWA standard (It is acceptable as per API 676 requirements) and API factor is not applicable. MAYEKAWA has considered suitable factor (even more than API 676 requirements) in the rated power and this is the best design for performance of package.

DEFI

(4): C

(5): N

LOAD

ABSC

ABSC