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|  <br>Gachsaran Polymer Industries Company<br>PIDMCO | <b>Gachsaran Polymer Industries Company</b><br><b>HDPE Plant</b> |            |   |
|   | <b>Equipment List for Refrigerator Package</b>                   |            |   |
| P.O. No: GPIC-PT-MA-PO-000-3029   | VENDOR DOC. NO.: VD-GPIC-MA-3029-3029-0020                       | Rev.<br>01 | Page 1 of 3   |

## Equipment List for Refrigerator Package

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| <b>Code 1</b>  | <b>No Comment / Approved</b><br>(Applicable Only for "For Review" and "For Approval" Documents)<br>No comment and the document are released for Manufacturing.  |
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| 03   |                     |                  |          |         |          |
| 02   |                     |                  |          |         |          |
| 01   | 28.05.2025          | IFA              | N.B      | F.T     | A.M      |
| 00   | 12.05.2025          | IFA              | A.M      | F.T     | A.M      |
| Rev. | Date<br>(DD.MMM.YY) | Purpose OF Issue | Prepared | Checked | Approved |

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**Gachsaran Polymer Industries Company  
HDPE Plant**



**Equipment List for Refrigerator Package**

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**EQUIPMENT**

| ROW | TAG NO.    | DESCRIPTION             | Q,TY | TECHNICAL DATA  | MATERIAL   | DESIGN TEMPERATURE (°C)         | DESIGN PRESSURE (barg)            |
|-----|------------|-------------------------|------|---|--|---------------------------------|-----------------------------------|
| 1   | C-6101 A/B | Screw Compressor        | 2    | Type= Screw<br>Rated Flow= 27463 kg/h<br>DP= 17.64 bar, Outlet Pressure= 20.2 bara<br>BHP= 1098 kW, Power= 1250 kW          | Casing= Low Temp Cast Steel (weldable)<br>JIS G5152, SPCL1<br>Shaft= Cr-Mo Steel Forging JIS G3221,<br>SFCM 930S | -28.89/120                      | 23.8                              |
| 2   | D-6101     | Oil Separator           | 1    | OD x T.L T.L = 1371.6 x 3556.1 mm<br>Operating Condition= 77.7 °C , 20.2 bara   | Body= SA-516 GR70N   | -45/125                         | 25 + F.V                          |
| 3   | D-6102     | Liquid Receiver         | 1    | OD x T.L T.L = 914.4 x 7112 mm<br>Operating Condition= 47.63 °C , 19.68 bara  | Body= SA-516 GR70N   | -45/125                         | 25 + F.V                          |
| 4   | E-6101     | Evaporator              | 1    | Tema Type= BKU<br>ID x L= 1168/1553 x 6096 mm, Area Per Shell= 549.6 m <sup>2</sup><br>Heat Duty= 1759.3 kW, Tube No.= 541U | Shell= SA-516 GR70N<br>Tube= SA-334 GR6  | Shell= -45/125<br>Tube= -45/125 | Shell= 25 + F.V<br>Tube= 25 + F.V |
| 5   | E-6102     | Oil Cooler              | 1    | Tema Type= AEU<br>ID x L= 356 x 4387.85 mm, Area Per Shell= 36.9 m <sup>2</sup><br>Heat Duty= 366.2 kW, Tube No.= 69U       | Shell= SA-516 GR70N<br>Tube= SA-179  | Shell= -29/125<br>Tube= -29/190 | Shell= 28 + F.V<br>Tube= 28       |
| 6   | E-6103     | Economizer              | 1    | Tema Type= BEN<br>ID x L= 381 x 2438.4 mm, Area Per Shell= 25.4 m <sup>2</sup><br>Heat Duty= 394.9 kW, Tube No.= 180        | Shell= SA-516 GR70N<br>Tube= SA-334 GR6  | Shell= -45/125<br>Tube= -45/125 | Shell= 25 + F.V<br>Tube= 25 + F.V |
| 7   | E-6104     | Condenser               | 1    | Tema Type= BJM<br>ID x L= 1070 x 6000 mm, Area Per Shell= 557.3 m <sup>2</sup><br>Heat Duty= 2626.9 kW, Tube No.= 1598      | Shell= SA-516 GR70N<br>Tube= SA-334 GR6  | Shell= -45/120<br>Tube= -29/190 | Shell=25 + F.V<br>Tube= 28        |
| 8   | EH-6101    | Oil Heater              | 1    | ID x SM-SM = 1371.6 x 3332 mm<br>Operating Condition= 77.7 °C , 19 barg<br>Heating Capacity= 9 kW                           | 304 SS   | 125                             | 25 + F.V                          |
| 9   | F-6101 A/B | Oil Filter              | 2    | Type= Cartridge<br>OD x T.L T.L = 12" x 914.4 mm  | Body= ASTM A312 Gr. 304L<br>Element= Fiber / Stainless Steel   | -28.9/121.1                     | 28 + F.V                          |
| 10  | F-6102     | Ppropylene Filter/Dryer | 1    | Type= Molecular Sieve<br>OD x T.L T.L = 14" x 1016 mm   | Body= SA-516 GR70N<br>Element= Stainless Steel   | -45/125                         | 25.5 + F.V                        |
| 11  | P-6101 A/B | Oil Pump                | 2    | Type= Twin Screw<br>Rated Flow= 241 LPM<br>DP= 3.5, Outlet Pressure= 22.6 barg<br>BHP= 5.1 kW, Power= 11 kW                 | Casing= Spheroidal Graphite Iron JIS<br>G5501, FC300<br>End Plates= Spheroidal Graphite Iron JIS<br>G5501, FC300 | 125                             | 28                                |