

# SPECIFICATION SHEET

Sr. No.	Description	Quantity
1.	<p><b><u>Mono Ethylene Glycol Chiller (MEG Chiller)</u></b>            Make: Trane, Carrier, VATBUZ, York, Daikin, GONKA            Origin: USA, European Countries, turkey, Japan, Malaysia (Chinese make will not be entertained)            Cooling Capacity: 50 ton            Liquid Outlet Temperature: -35 °C            Liquid Inlet Temperature: -25 °C            Chilled Liquid Flow Rate: 35 m<sup>3</sup> / hr.            Refrigeration Circuits: Two Independent            Capacity Control: Stepless            Control: PLC Controlled            Ambient Temperature: 50 °C</p> <p><b><u>Compressor:</u></b>            Semi Hermetic Screw Type with motor winding over temperature protection, electric phase failure and off cycle crank case oil heater etc.            No. of compressors: 02            Refrigerant: R-404a</p> <p><b><u>Condenser:</u></b>            Copper tube &amp; steel shell type, equipped with safety valve, digital pressure and temperature indicators etc.            Condenser Water Circuits: Two</p> <p><b><u>Evaporator:</u></b>            Type: Double circuit with copper tube &amp; steel shell.            Fluid: 60% Mono Ethylene Glycol mixed water            Equipped with digital flow meter, temperature &amp; pressure indicators etc.            Insulation: Close Cell Foam</p> <p><b><u>Control &amp; safety Devices:</u></b></p> <ul style="list-style-type: none"> <li>▪ Over Current Protection</li> <li>▪ Low temperature protection</li> <li>▪ Over temperature protection</li> <li>▪ Low pressure protection</li> <li>▪ High pressure protection</li> <li>▪ Flow switches (-35 °C)</li> <li>▪ Low oil pressure protection</li> <li>▪ Motor thermal protection</li> <li>▪ Manual start in the event of failure/alarm</li> <li>▪ Integral control panel to IP54 or greater</li> <li>▪ Interlink two pumps control panel</li> <li>▪ Anti-vibration mounts</li> <li>▪ Oil separator with level control, filter, solenoid and shut off valves etc.</li> </ul> <p><b><u>Electrical:</u></b>            380-400 V, 3- Ph, 50 Hz, Noise level: 90 db (A)            Unit mounting: Skid</p>	01 Nos.
2.	<p><b><u>Circulation pumps for Chilled Fluid (-35 °C) for MEG Chillers at Sr. No.1</u></b>            Flow Rate: 50 m<sup>3</sup>/ hr.            Shaft Packing: Mechanical Seal            Head: 35 meters            Pump Connection: Flanged, Mounting: Horizontal            Pump materiel: SS-304 (body, rotor, shaft)            Fluid: 60 % MEG + Water mixture            Electric Motor: Air Cooled, Compatible with Pump, 380-400 V, 3- Phase and 50 Hz.</p>	04 Sets

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Sr. No.	Description	Quantity
3.	<b>Spare Mechanical Seals for Chilled Fluid Circulation Pumps at Sr. No. 2</b>	12 sets
4.	<b>Spare Refrigerant Filters</b>	10 sets
5.	<b>Spare Refrigeration Oil Filters</b>	10 sets
6.	<b>Spare Solenoid Valves used in the system</b>	10 sets
7.	<b>Refrigeration Oil for 04 Replacements</b>	04 sets
8.	<b>Spare Magnetic Coils for Solenoid Valves</b>	15 sets
9.	<b>Tool Kit for Maintenance</b>	01 Nos.
10.	<b>Technical Literature in English Language</b>	02 sets
	i. Installation Drawing	
	ii. Electrical Drawings	
	iii. Operational Manuals	
	iv. Detailed Drawing of Screw Compressor and Overhauling Procedure with Necessary Spares & Special Tools.	