

**ANNEXURE**

**Reference: Enquiry NO.02082017 Dt.02.08.2017**

**SPECIFICATIONS OF 20TR / MINUS 20°C BRINE CHILLER PACKAGE - SCREW COMPRESSOR**

BASIS OF DESIGN	
CAPACITY	20TR
MAKE	Voltas / Blue Box / Blue Star / Carrier / LG
TEMPERATURE	MINUS 20°C
LIQUID TO BE COOLED & CONCENTRATION	ETHYLENE GLYCOL 40%
LIQUID ENTERING TEMPERATURE	MINUS 15°C
LIQUID LEAVING TEMPERATURE	MINUS 20°C
FOULING FACTOR (m2K/W)	0.000018
FLOW RATE ACROSS CHILLER (CMH)	14.2
CONDENSER WATER ENTERING TEMP	31 °C
CONDENSER WATER LEAVING TEMP	35 °C
FOULING FACTOR (m2K/W)	0.000044
CONDENSER WATER FLOW RATE (CMH)	29
COMPRESSOR TYPE AND QTY	SCREW COMPR X 1
POWER CONSUMPTION AT SHAFT KW	41.5
IKW/TR	2.02
TOLERANCE	+/- 5% AS PER ARI
MOTOR RATING in KW (APPROX.)	52
REFRIGERANT	R-404a
LOCATION	KANAGALA
SHIPPING WEIGHT IN KGS	3200
OPERATING WEIGHT IN KGS	3600 Approximately
PACKAGE DIMENSIONS (APPROX. IN MM)	3200 X 2000 X 22000 Approximately

**SCOPE OF SUPPLY:**

Supply of 20TR / Minus 20°C Brine Chiller Package with Screw Compressor comprising of the following:

20 TR / Minus 20°C Brine Chiller Refrigeration Package consists of Screw Compressor -with built in Motor & Capacity Control Valves, Oil Separator, Economizer, Evaporator (Shell and Tube), Water Cooled Condenser (Shell and Tube), Interconnecting Refrigerant Piping within the Package, Expansion Valve, PLC based Control Panel and Starter Panel, Controls & Measuring Instruments, Control Cabling, Power Cabling to Motor (Comp) from Starter, First Charge of Gas (up to Positive Temp) & Oil, and Insulation of Chiller with Nitrile Rubber.

**NOTE: Quoted Price should be inclusive of the following:**

1. Supply of Gas & Commissioning for 20TR / Minus 20°C Brine Chiller.
2. Loading/ Unloading and Transit Insurance.
3. The Chiller supplied shall be connected to the existing Brine Tank, Pumps, Cooling Tower and Condensers which are minor low side works.