

Annexure I

Sr. No	Item Name	Specifications
1	Distillation Set-Up	<p>1. Distillation Setup Distillation Column : Material Stainless Steel, Dia 110mm, Seven sieve trays. Pressure Gauge : Bourdon type, 0-2 kg/cm². Rotameter : For cooling water flow rate measurement. Steam Generator : Made of Stainless Steel, provided with Pressure Gauge & Level Indicator, Safety valve & insulated with ceramic wool and cladding with Aluminium foil. Reflux Divider : Arrangement to change R/D ratio automatically. Condenser : Shell & Tube type, made of Stainless Steel. Bottom Product Tank : Made of Stainless Steel, capacity 5 Ltrs. Distillate Tank : Made of Stainless Steel, capacity 5 Ltrs. Heaters : Nichrome wire heater. Temp. Sensors : RTD PT-100 type Control panel comprises of Digital Temp. Controller : PID Controller, 0-199.9°C, For Steam Reboiler Digital Temp. Indicator : 0-199.9°C, with multi-channel switch Reflux timer : For changing R/D ratio With Standard make on/off switch, Mains Indicator etc.</p>
2	Evaporator Set-Up	<p>Evaporator Setup; Evaporator (1st) : Shell Dia – 70 mm, Length - 500mm, Made of Stainless Steel Tubes ID 9.5 mm, OD 12.7 mm, Length - 500mm Evaporator (2nd) : Shell Dia – 70 mm, Length - 500mm, Made of Stainless Steel Tubes ID 9.5 mm, OD 12.7 mm, Length - 500mm Feed Tank : Material Stainless Steel, Capacity 30 Ltrs. Flow measurement : Rotameters (One each for feed & cold water), Steam Generator : Made of Stainless Steel provided with Pressure Gauge & Level Indicator, Safety valve and drain etc. & insulated with ceramic wool and cladding with Aluminium foil. Piping : Stainless Steel and PVC, size ½". Condenser : Shell & Tube type made of Stainless Steel. Boltom product tank : Made of Stainless Steel, capacity 10 Ltrs. Water supply tank : Made of Stainless Steel, capacity 50 Ltrs. (for condenser) Pump : FHP capacity Heaters : Nichrome wire Heater. Control panel comprises of : Digital Temp. Controller : PID Controller, 0-199.9°C. (For Steam Generator) Digital Temp. Indicator : 0-199.9°C, with multi-channel switch, Temp. Sensors : RTD PT-100 type-8Nos. With Standard make On/Off switch, Mains Indicator etc.</p>
3	Crystallizers Set-Up	<p>Batch Crystallizer Crystallizer : Jacketed Type, Material Stainless Steel, Cap. 2 Ltrs. With conical bottom Stirrer : FHP, Variable Speed. Heater : Nichrome wire heater Cooling Water Tank : Material Stainless Steel, Capacity 30 litre fitted with Pump. Flow measurement : By Rotameter for cooling water. Pump : FHP, Receiving Tank : Material Stainless Steel, Capacity 2 litre with SS sieve Temp. Sensors : RTD PT-100 type Control panel comprises of: Digital Temp. Indicator : 0-199.9°C with multi-channel switch With Standard make on/off switch, Mains Indicator etc.</p>
4	Dryers Set-Up	<p>Rotary Dryer Drying Shell : Material Stainless Steel, Length 1.5 m, Dia. 110 mm. Feed Hopper : Material Stainless Steel, Compatible Capacity Product Receiver : Material Stainless Steel, Compatible Capacity. Rotating Action : Using motor coupled with a Reduction Gear Box. Hot Air Circulation : By forced draft fan, Arrangement is done to vary the air flow rate. Heating</p>

		<p>Chamber : Compatible capacity Heater : Nichrome wire heater Temperature Sensors : RTD PT-100 type, Control panel comprises of : Digital Temp. Controller : PID Controller, 0-199.9°C (For Hot Air)</p>
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