

## Annexure

### Detailed Specifications

**Supply, installation, testing and commissioning of reactor tank, heat exchanger, high vacuum producing system and storage tank as per specifications**

➤ **Specifications of reactor tank:**

- (i) Reactor tank capacity 600 Ltrs, Operating Temp. 250 °C
- (ii) Material S.S-316, Thickness 5 mm, Operating Vacuum Range 670-740 mm Hg
- (iii) Vacuum Gauge, S.S Heaters 2KW 04-Nos
- (iv) Thermostat system with Control Panel
- (v) Agitator with 1 HP Motor (S.S-316 material Blades)
- (vi) Temperature Resistant Seals
- (vii) Hopper for Oil filling
- (viii) High Temperature Resistance Angle Valves 2 Pcs
- (ix) Insulation, Leak-proof Joints, Eye Piece

➤ **Specifications of heat exchanger**

- (i) Shell and tube type heat exchanger, vapor will be in shell and water cooled will be in tube
- (ii) Shell Material S.S-304, Shell thickness 5mm
- (iii) Tube material: Spiral Copper tube
- (iv) Vapor in temperature up to 250 °C, condensed liquid temperature 70 °C
- (v) Cooling capacity 50 Lit liquid per hour
- (vi) Drain Plug for Condensate
- (vii) Receiver unit for condensed liquid (100 Lit capacity), Material S.S-304, Shell thickness 5mm

➤ **Specifications of high vacuum producing system**

- (i) High vacuum producing system with Motor Capacity-5HP
- (ii) Vacuum Range 670-740 mm Hg

➤ **Specifications of Storage tank:**

- (i) Storage Tank with Capacity-1000 Ltrs, cylindrical shape
- (ii) Storage Tank Material S.S-304 grade, Thickness 3 mm
- (iii) Storage Tank inlet and out let should be Fitted with Valves

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