

Sr.No	Description	
A	Vacuum Pumps: Specifications: Two Stage Rotary Vacuum Pumps: i. Model: E2M 175 or Equivalent ii. Displacement: 178 m³/h, 50 Hz iii. Speed: 160m³/hr iv. No of Stages: 02 v. Ultimate Vacuum (Total Pressure): Without gas ballast: 1 x 10⁻³ mbar • With gas ballast: 7 x 10⁻³ mbar vi. Inlet Connection: ISO 63 Blank Flange With Seal (Provided along with pumps) vii. Outlet Connection: ISO 40 flange centered tapped (Provided along with pumps) viii. Max. Outlet Pressure: 0.5 bar gauge ix. 220-240/380-415V, 3-Phase, 50 Hz x. Weight: 230kg xi. Motor Protection: IP 55, Motor Power: 5.5 kw/3 hp xii. Standard oil capacity: 16-25 Liters xiii. Oil Grade: Ultra-grade 70 xiv. Noise Level: 75 dB (A) xv. Necessary Spares for 02 years xvi. Complete unit with all accessories xvii. Repair/maintenance manual should be provided in English - xviii. Make: Edwards, Pfeiffer, or Equivalent European standards	01
B	<u>Pump Oil (For above said Pump): Ultra grade 70</u>	52L
C	Vacuum Pumps: Specifications: Root Pumps: a. Model: Okta-500, PFEIFFER or Equivalent b. 230/400V, 50 Hz c. Ambient Temperature: 5-40°C d. Cooling Method, Standard: Air e. Differential Pressure at the overflow valve: 75hPa/56.25 Torr/ 75 mbar f. Sound Pressure Level: 75 dB (A) g. Flange (In): DN 100 ISO-F h. Flange (Out): DN 100 ISO-F i. Leak Rate: 1 x10⁻³ pa m³/s j. Nominal Pumping Speed at 50 Hz: 560 m³/h k. Nominal Rotation Speed at 50 Hz: 3,000 rpm l. Operating Fluid: P3 m. Rated Power 50 Hz: 1.5 KW n. Rotation Speed: 1500-4500 rpm o. Version: Standard unit with motor p. Weight with motor: 132 kg q. Make: Edwards, Pfeiffer (www.pfeiffer-vacuum.com), or Equivalent European standards r. Operational/maintenance manual should be provided in English	01

D	Pump Oil (for above root pump)	20L
E	Vacuum Pumps: Specifications: Vacuum Pump Accessories: Vacuum fittings for pump (Make: European or Equivalent)	
	1. DN ISO-F centering ring with outer ring for vacuum flanges and fore vacuum flange (PF-303-110-T) for Ohta-500 2. S.S Bellow Hose DN100 (L=1000 mm) 3. S.S Bellow Hose DN40 (L=1000 mm) 4. S.S Elbow DN100 5. S.S Reducer Flange DN 100/40 6. Clamp DN 40, 25 (Aluminum) 7. S.S Blanking flange DN 100 8. S.S Blanking flange DN 40, 25 9. Centering Ring DN40, DN25	02 Set 02 03 02 05 05 EA 03 05 EA 05 EA