SPECIFICATIONS FOR ROTARY VANE HIHG VACUUM PUMP, DIGITAL VACUUM GUAGE AND COLD TRAP INTEGRATED WITH DEWAR FLASK

S. No.	Description of item	Quantity
1	Rotary Vane High Vaccum Pump A complete set up of Rotary Vane High Vaccum Pump including Digital Vacuum Guage and Cold trap integrated with Dewar flask with the following technical specifications. 1. Rotary Vane High Vaccum Pump: General Specifications:	1 No
	High flow rates even at vacuum levels approaching ultimate vacuum High water vapor tolerance due to efficient gas ballast; very good ultimate vacuum even with gas ballast. Vacuum-tight at switch-off; external anti-suckback valve not needed Large oil volume: Long intervals between oil changes Ease of maintenance due to telescopic design	
	 Technical specifications: Number of stages: 2 Max. Pumping Speed @ 50 Hz: 5.7 m³/hr Ultimate Vacuum (abs.) without GB: 2 x 10⁻³ mbar Ultimate Vacuum (abs.) with GB: 1 x 10⁻² mbar With integrated vacuum controller. Water Vapor Tolerance with GB: 40 mbar Ambient temperature range (operation): 12 – 40 °C Oil capacity (B-Oil) min./max.: 0.5-0.73 litres Rated Motor Power: 0.18 kW Rated Motor Speed 50 – 60 Hz: 1500 – 1800 rpm Degree of Protection: IP 40 Voltage: 230 V Warranty min 3 Years 	
	2. Digital Vacuum Guage	1 No
	 General specifications: Precision and chemical resistance in an exceptionally wide range from atmosphere down to 10⁻³ mbar, one gauge only for both rough and fine vacuum Compact design with integrated sensors for useful setup in laboratory and process 	

- Chemical resistant combination of ceramic diaphragm sensor and ceramic jacketed Pirani sensor ensuring long product life even with aggressive chemicals
- Illuminated display, easy to read
- Display with user friendly handling

Technical Specifications for Digital Vacuum Guage

- Vacuum sensor: Integrated
- ATEX-approval: II 3/- G Ex h IIC T4 Gc X Internal Atm. Only
- Upper measuring limit: 1100 mbar
- Lower measuring limit: 1 x 10⁻³ mbar
- Measurement principle: Ceramic diaphragm sensor + ceramic jacketed Pirani sensor
- Accuracy of measurement: ±10% of indicated value in the range 0.01-5 mbar
- Ambient temperature range (operation): 10 40 °C
- Material of outer housing: Robust plastic housing with good chemical resistance
- Interface: RS232C
- Protection class: should be IP 54

3. Cold trap integrated with Dewar flask:

1 No

- Dewar flasks according to DIN 12492
- Glass material borosilicate glass 3.3 ISO 3585 (DURAN)
- Protective casing of Dewar flask made of blue coated metal or aluminum
- For liquid cooling agents, e.g. LN2 (-196°C)
- For solid cooling agents CO2 (-77°C) with solvent (CO2-wire basket necessary)
- Pressure-free coolant sphere inside the Dewar flask
- Reliable and easy handling
- Should occupy minimum bench space

^{*}Any deviations from the specified specifications will not be entertained.