

The department of USIC of the University seeks quotations for the items as specified below on urgent basis. The interested party may submit their offer in sealed envelope to the office of The In-Charge of USIC, Burdwan University, Burdwan 713 104 on or before February 3 , 2016.

Item	Description/Specifications	Qty.
A	<p>Hot Air Oven</p> <ul style="list-style-type: none"> • The Oven should be Triple walled in construction. • The Inner chamber should be made of Stainless Steel and the Outer Chamber should be made of suitably thick Mild Steel Sheets. • Inner Chamber size : 18" x 18" x 18" • Suitable glass wool insulation should be provided on three sides as well as the door to prevent the loss of heat. Heating elements should be properly shielded for protection against sample spills. • The Oven should be used for a temperature range from ambient plus 5°C upto 280°C. • The Oven should be controlled by Microprosser based PID temperature indicator cum controller. • The Oven should be provided with a suitable capacity electrically operated maintainence free Blower, for maintaining a steady horizontal Airflow for re-circulation. • No of Shelves should be atleast 3. • Electrical operation 220 / 230 Volts AC Supply. 	1
B	<p>Hot Plate</p> <ul style="list-style-type: none"> • Temperature Range: upto 350°C which should be controlled by a Regulator. • Material: plate should be made of Mild Sheet which is machined smooth to give uniform surface all over. The body should be made of mild steel sheet duly painted. • Type: Square. • Size: 12" x 10". • Long power cord, rubber buffers. • Electrical operation 220 / 230 Volts AC Supply 	1
C	<p>Fume hood</p> <ul style="list-style-type: none"> • Design Basis: Should be International Design Standard:All tests including"Tracer gas containment test"and'Inner PlaneContainment test' passed. • Design Structure: Should be Aerodynamic, Floor mounted. • Airflow Type: Should be Low Constant Volume (for A.C. environment) • Powder coating of Body: Should be Powder coated withhighly chemical resistant epoxy colors of dry film. Passes all conformity performance tests as per IS standards. • Front Top Panel: Should be Easily openable hinged Top Panel for easy 	1

	<p>access to Flow Control Valve and Electrical Lighting fixtures for maintenance.</p> <ul style="list-style-type: none"> ● Corner Post: Should have Triangular profiled Corner Post on both Hand Side of the Fume hood and it houses the utility line fittings and electrical receptacles. ● Construction (Interior): Should be Chemical & Heat Resistant, Fire Retardant, Smooth Finish, Easily Cleanable Panels. ● Active Kinetics exhaust system: Should have Interstitial 7-point active kinetics exhausts system (for light, normal & heavy fumes) with baffle to ensure rapid exhaust of fumes. ● Sink, Water tap with drain arrangement: Worktop Should have sink sealed with silicon sealant for drainage with water tap. Sink should have a trap for waste collection. Oval shaped sink should have at least 100 mm X 200 mm dimension. ● Worktop: Should have Chemical resistant splash & spillage proof dished worktop & appropriate length of Skirting. ● Sash (Shutter): Should have Vertical rising sash counter-balanced with pulley and counter-weight system. Toughened Float Glass sash . Smooth and light sash operation. Clear openable height at least of 750 mm. ● Maintenance ports: Should have Openable top panel for easy maintenance of tube light and flow control valve. Triangular service panel for maintenance of utility valves and tubing. ● Internal nozzles: Should have Brass powder coated fittings to be staggered in the fume hood to avoid intermingling of flexible tubes. Also the taps to be tapered shaped to use with flexible tubing of sizes from ¼” to ½” in dia, to provide greater flexibility for user. Note: Scope of supply for utility lines ends at 1/4th BSP male adapter. ● Lighting: Should have Fluorescent light of at least (40 watt, 2 Nos.) with vapour-proof fitting for proper illumination. Intensity approx 400 lux at worktop level. ● Electrical Utilities: 3 nos. electrical sockets. 3 nos. 'MCBs with blower NO/NC switch with built – in starter & light switch on front fascia. Cables & wires 'Fire Retardant' grade. (All on RHS) ● Exhaust Port: Should have exhaust port design ensures that the fumes will be exhausted smoothly without any turbulence at the exhaust port. Also it ensures low noise level. ● Air Suction Capacity: Air Suction Capacity should be 480 CFM confirming to international face velocity norms and as per safe fume hood airflow pattern. ● Drive: Drive should be Direct Drive. <p>Optional items: Chemical Storage Base Cabinet (Ventilated & on castors), Air Flow Monitor, Apparatus Holding Grid & Temperature indicator.</p>	
D	<p>TEM GRID: Formvar film coated with a “heavier” layer of carbon</p> <ul style="list-style-type: none"> ● 3mm dia, 300 MESH, Carbon coated copper grid, pack of 50 ● 3mm dia, 200 MESH, carbon coated copper grid, pack of 25. ● Grid Box for 100 no.s 3mm grids. Qty -4 	1 Each
E	<p>UPS: 10KVA single phase.</p>	1

F	Tweezers: High Precision, Titanium Tweezers, Length- 120mm,Material- Titanium, points (width x thickness)- 0.25 x 0.20mm.	1
	High Precision, Titanium Tweezers, , Length- 110mm,Material- Titanium, points (width x thickness)- 0.23 x 0.127mm.	1

NB: Parties are advised to place their quotations per unit basis and quotation for each item should be sent in separate envelope.

Each item should be quoted with a compliance statement matching the technical specifications, all the specifications indicated in the tender/ compliance statement should be supported by technical brochure.