



DEPARTMENT OF CHEMISTRY UTKAL UNIVERSITY

VANI VIHAR, BHUBANESWAR, 751004, ODISHA, INDIA
UGC (ASIST, DSA-II), DST (PURSE, FIST) SUPPORTED Tel: 0674-2582734

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Date:.....

Tender form no:.....

Tender Call notice

Sealed tenders are invited by the undersigned from the reputed manufacturers/authorized dealers, DGS&D rate contract holders for purchase of Rotary evaporator, UV-Vis Spectrophotometer, Muffle furnace, centrifuge machine, Hot air oven, Radiometer, Autoclave, Vacuum pump and Chemicals/consumables under State Pollution Control Board (OSPCB), Bhubaneswar, sponsored project to reach the undersigned by **19/09/2026 (3 PM)** through registered/speed post. The tender will be opened on **19/09/2026 at 3.30 PM** in the presence of tenderers or their authorized representatives. All the documents such as EMD of 1% of the estimated cost of the equipment value or minimum of INR1000/-, STCC/ITCC/TIN/GST no. certificates along with literature/brochure and market standing certificates along with satisfactory certificates should be enclosed with the technical bid only, failing which the tender will be cancelled. The details of items, specifications and other terms and conditions can be obtained from the undersigned on payment of INR 200 (non-refundable) from **01/09/2026**, between 11 AM and 5 PM on or before **19/09/2026 (3 PM)** or can be downloaded from the website www.utkaluniversity.ac.in. Forms downloaded from the website must be submitted with INR 200 towards the cost of tender paper. The payment of EMD and purchase of tender paper will be through a BD drawn in favour of *Prof. Sushanta Kumar Badamali, P.I., OSPCB project*, payable at *Bhubaneswar*. The authority reserves the right to cancel the tender at any time without assigning any reason thereof.

Eligibility criteria:

1. Tenderers are to be submitted in the prescribed format (enclosed) in the tender paper along with EMD/Security amount (1%) of the approximate cost of the equipment value or minimum of Rs.1000/- (Rupees one thousand) only as mentioned in the tender paper drawn in favour of *Prof. Sushanta Kumar Badamali, P.I., OSPCB project*, payable at *Bhubaneswar*. NO cash payment will be received in this regard.
2. Tender forms are not transferable.
3. Bids have to be given in the desired format separately to supply the equipment with accessories. Bids to be submitted along with the following documents.
 - (i) Sales tax/Income tax/GST certificate or excise license etc. necessary for items.
 - (ii) Non-assessment certificate in case of dealers/Stockiest outside the state of Odisha.

- (iii) Authorization certificate from the company, otherwise, quotations will be rejected.
- (iv) **All rates in INR should be inclusive of all taxes and FOR Destination, i.e. Department of Chemistry, Utkal University, Bhubaneswar.**
- (v) Installation charges, Delivery, packing forwarding etc. if any should be included in quoted price and no extra cost will be entertained after delivery/making operational.

N.B.

1. Exemption in price (if any) under production of DSIR certificate should be indicated.
2. Last date of submission of sealed tender paper is **19/09/2026** up to **3 pm** in the Department of Chemistry, Utkal University.
3. Bank guarantee for EMD is not valid.
4. The authority may cancel the tender as a whole or a part without assigning any reason thereof.
5. All supplies have to be made within 30 days of confirmed order received by the firm otherwise the order shall be treated cancelled.
6. EMD of the parties whose tender is not accepted will be refunded on submission of a sampled receipt.
7. Filled tender paper must contain all specifications, terms and conditions in a systematic manner and should not leave anything guessing to the undersigned.

Prof. S. K. Badamali
Principal Investigator
Mob.9937086718
skbuche@utkaluniversity.ac.in

1. Chemicals/glass ware/Plastic ware

Dated:

Tender form no.

From

M/S.....
.....

To,

Prof. Sushanta K. Badamali, P.I. OSPCB Project, Bhubaneswar, Odisha

Dept. of Chemistry, Utkal University, Vani Vihar, Bhubaneswar.

Sub: Supply of

Ref. Tender advertisement _____ Dt. _____

EMD/Security amount: Rs..... (Rupees.....) only in shape of DD in favour of *Prof. Sushanta Kumar Badamali, P.I., OSPCB project*, payable at *Bhubaneswar, DD no. -----Dt.-----*.

Sl. No.	Item	Quoted price	Discount (if any)	Remark
1	Chemicals (Sigma-Aldrich, MERCK, TCI, Himedia, BLD Pharma, SRL, and Fischer make)			
2	Laboratory ware/Glassware/Plastic ware (Borosil/JSGW/MERCK/TARSON, Omsons, Tensil, and Finar)			

2. Rotary Evaporator

Dated:

Tender form no.

From

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Sl. No.	Item	Quoted price	Discount (if any)	Remark
2	Rotary Evaporator Make: Heidolph/Buchi/IKA Technical Specifications • Type: Bench-top Digital Rotary Evaporator with Heating Bath. • Evaporating Flask Capacity: Suitable for operation with flasks ranging from 50 mL to 5 L; compatible with 5 L evaporation flask. • Evaporating Flask: 5 L Borosilicate Glass 3.3. • Receiving Flask: Minimum 1 L Borosilicate Glass 3.3. • Drive Motor: Maintenance-free brushless EC/DC motor. • Rotation Speed Range: 10–280 rpm or wider, continuously adjustable. • Rotation Direction: Clockwise and counter-clockwise preferred.			

	• Speed Control: Digital microprocessor-controlled with LCD/LED display. • Lift Mechanism: Motorized automatic lift preferred with minimum lifting stroke of 150 mm. • Automatic Lift-Out: Automatic lifting of evaporating flask during power failure preferred. • Display: Digital display for rotation speed, bath temperature and operating status. • Timer: Programmable timer with minimum range of 1–999 minutes. • USB/Data Interface: Preferred. Heating Bath • Type: Digital heating bath suitable for both water and oil operation. • Bath Capacity: Minimum 4.5 L. • Heating Power: Minimum 1300 W. • Temperature Range: ◦ Water Bath: Ambient to 100°C minimum. ◦ Oil Bath: Up to 180–210°C. • Temperature Control Accuracy: ◦ Water Bath: $\pm 1^{\circ}\text{C}$ or better. ◦ Oil Bath: $\pm 3^{\circ}\text{C}$ or better. • Temperature Control: PID microprocessor control. • Heating Bath should include safety handles and drain port for easy handling. Condenser System • Condenser Type: Vertical high-efficiency condenser. • Condensing Surface Area: Minimum 1700 cm² or better. • Cooling Surface Area: Minimum 0.20 m². • High solvent recovery efficiency suitable for low-boiling and high-boiling solvents. Construction and Glassware • All glass components shall be made of high-quality Borosilicate Glass 3.3.			
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	• Complete glass assembly including vapor tube, condenser, receiving flask, evaporating flask, sealing system, clamps and tubing shall be supplied. • Suitable for solvent evaporation, concentration, distillation, purification and solvent recovery. Safety Features • Dry-run/boil-dry protection. • Residual heat warning indication. • Over-temperature and overheating protection. • Motor over-current protection. • Earth leakage protection. • Lift overload protection. • Accidental-touch lock function to prevent unintended parameter changes. • Status indication through LED or visual indicators. • Protection class of cable and heating bath connections should be IP67 or better. Electrical Requirements • Power Supply: 220–240 V AC, 50/60 Hz, Single Phase. • Total Power Consumption: Approximately 1400 W or better. Accessories and Supply • Complete system shall be supplied with all required glassware, seals, clamps, tubing, vacuum connectors and installation accessories. Warranty • Minimum One Year Comprehensive Warranty from the date of successful installation and commissioning. • Local service support in India, preferably Eastern India/Odisha region, should be available for prompt service response			
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3. UV-Vis Spectrophotometer

Dated:

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Sl. No.	Item	Quoted price	Discount (if any)	Remark
3	UV-Vis Spectrophotometer Make: Systronics Detailed Specification - Instrument Type: UV-Visible Spectrophotometer - Operating Mode: Standalone as well as PC operating mode - Optical System: Holographic diffraction grating-based optical system - Diffraction Grating: 1200 lines/mm - Light Source: Deuterium lamp for UV region and Tungsten Halogen lamp for visible region - Lamp Selection: Automatic lamp selection - Detector: One Photodiode detector - Wavelength Range: 190 nm to 1100 nm - Spectral Bandwidth: 1.0 nm - Wavelength Resolution: 0.1 nm - Wavelength Accuracy: ± 0.5 nm			

• Photometric Absorbance Range: Up to +4.0 Abs • Absorbance Resolution: 0.001 Abs • Absorbance Accuracy: ± 0.005 Abs • Transmittance Range: 0–100 %T • Transmittance Resolution: 0.1 %T • Transmittance Accuracy: ± 0.5 %T • Measurement Modes: % Transmittance (%T), Absorbance (Abs), Concentration by K-factor, Concentration by Standard, Concentration by Saved Standard, DNA and Protein Analysis, Multicomponent Analysis, Fluoride Analysis, Nitrate Analysis and Time Scan • Special Analysis Facility: Dedicated provision for Nitrate and Fluoride analysis • Sample Holder: Five-position automatic sample holder/cuvette selector • Standard Cuvette Path Length: 10 mm • Optional/Compatible Path Lengths: 20 mm, 40 mm, 50 mm and 100 mm • Automatic Cuvette Selection: Five-position automatic sample selection • Automatic Wavelength Selection: Available • Automatic Filter Selection: Available • Automatic Dark Correction: Available • Automatic Stray Light Correction: Available • Automatic Order Cut-off Filter Selection: Available • Display: In-built 10.1-inch Multi-touch LCD touchscreen • Display Resolution: 1200 × 800 pixels • In-built Smart Station: Available • Operating System: Windows 10 or higher version • Internal Memory: 128 GB, expandable • PC Connectivity: USB connectivity • Wireless Connectivity: Wi-Fi and Bluetooth • Printer Compatibility: External printer support for printers compatible with Windows 10 or higher version • User Management: Separate Administrator and User login facility • Number of Users: Supports up to five different user logins • Password Protection: Available • Audit Trail Function: Available			
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	• Data Identification: Provision for Organization Name, Chemist Name and Instrument ID • In-built Debug Software: Available • Operating Temperature: 8–48 °C • Operating Humidity: 40–85% • Power Supply: 230 V $\pm$ 20 V, 50 Hz • Standard Accessories: 2 Nos. cuvettes, Pen Drive, USB Cable and Operating Manuals • Warranty: One Year from the date of Installation			
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4. Muffle Furnace

Dated:

Tender form no.

From

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Sl. No.	Item	Quoted price	Discount (if any)	Remark
4	Muffle Furnace Make: SD Instruments & Equipments/Equivalent Specification • Type: Laboratory Horizontal Tubular Furnace • Maximum Operating Temperature: 1200 °C • Continuous Working Temperature: Up to 1100 °C • Temperature Range: Ambient to 1200 °C • Furnace Tube: High-purity Quartz/Ceramic (Alumina) tube • Tube Outer Diameter: Approximately 50–60 mm • Tube Length: Approximately 1000 mm or suitable for the furnace assembly • Temperature Controller: Digital Microprocessor-based PID Controller • Temperature Display: Digital display for			

	both Set Value (SV) and Process Value (PV) • Temperature Resolution: 1 °C or better • Temperature Accuracy: ± 2 °C or better • Temperature Uniformity: ± 5 °C or better within the effective heating zone • Temperature Sensor: K-Type/N-Type thermocouple or suitable high-temperature thermocouple • Heating Element: High-quality Kanthal A1/Fe-Cr-Al resistance heating elements or equivalent • Insulation: High-quality ceramic fibre insulation for minimum heat loss • Outer Body: Powder-coated mild steel/stainless-steel construction • Programmable Controller: Multi-step programmable temperature controller preferred • Heating Rate: Programmable/adjustable heating rate • Timer: Digital timer facility for controlled heating duration • Gas Atmosphere Facility: Provision for operation under air, inert gas or controlled gaseous atmosphere • Gas Inlet & Outlet: Suitable gas inlet and outlet connections should be provided • End Sealing: Suitable tube end flanges/sealing arrangement for controlled-atmosphere operation • Over-Temperature Protection: Independent over-temperature protection system • Safety Features: Electrical overload and thermal protection • Power Supply: 220–240 V AC, 50 Hz, Single Phase • Accessories: Furnace tube, end flanges, gas inlet/outlet fittings, required seals/O-rings, sample boat and necessary connecting accessories • Application: Suitable for calcination, annealing, heat treatment, pyrolysis, carbonization, catalyst preparation, nanomaterial synthesis, biochar			
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	preparation and thermal treatment under controlled atmosphere • Installation & Demonstration: Installation and operational demonstration at user site • Warranty: One Year from the date of Installation			
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5. Centrifuge machine

Dated:

Tender form no.

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Sl. No.	Item	Quoted price	Discount (if any)	Remark
5	Centrifuge Machine Make: Remi/D-lab/Thermo scientific Specification • Type: Bench-top Laboratory Centrifuge • Maximum Speed: 10,000 RPM or higher • Number of Ports: Minimum 8 Ports • Rotor Capacity: Minimum 8 × 15 mL • Rotor Type: Fixed Angle Rotor • Speed Control: Variable/Digital Speed Control • Timer: Digital Timer • Display: Digital display for speed and time • Safety: Lid locking and imbalance protection • Power Supply: 220–240 V AC, 50 Hz • Warranty: One Year from the date of Installation			

6. Radiometer

Dated:

Tender form no.

From

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To,

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Dept. of Chemistry, Utkal University, Vani Vihar, Bhubaneswar.

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Sl. No.	Item	Quoted price	Discount (if any)	Remark
6	Digital Solar Radiometer / Pyranometer • Specification Type: Portable Digital Solar Radiometer (Pyranometer). • Measurement Range: 0–2000 W/m² or better. • Spectral Range: Approximately 300–2800 nm. • Display: LCD Digital Display. • Resolution: 0.1 W/m² or better. • Accuracy: ±5% or better. • Sensor: High-sensitivity silicon photodiode or thermopile sensor. • Response Time: ≤1 second. • Measurement Mode: Real-time irradiance measurement. • Data Hold and Peak Hold functions preferred. • Portable, battery-operated, and suitable for outdoor field			

	measurements. • Suitable for monitoring solar irradiance during photocatalytic and environmental studies. • Supplied with calibration certificate. • Warranty: Minimum 1 year.			
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7. Hot air Oven

Dated:

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Sl. No.	Item	Quoted price	Discount (if any)	Remark
7	HOT AIR OVEN Make: B.P. Lab/ThermoFisher Scientific/G-Lab/Equivalent Specifications - Capacity: Approximately 45 Litres. - Chamber Size: 350 × 350 × 350 mm (W × D × H). - Inner Chamber: Made of SS 304 stainless steel, polished and corrosion resistant. - Outer Body: Heavy-duty mild steel with durable powder-coated finish. - Insulation: High-density glass wool/mineral wool insulation to minimize heat loss. - Heating System: Kanthal/Nichrome heating elements provided on three sides for rapid and uniform heating. - Temperature Range: 50°C to 300°C. - Temperature Accuracy: ±1°C or better. - Temperature Uniformity: ±2°C or			

	better throughout the chamber. • Temperature Controller: Microprocessor-based PID digital temperature controller with separate display of set value and actual temperature. • Temperature Sensor: PT-100 RTD sensor or equivalent. • Display: Digital LED/LCD display. • Air Circulation: Forced air circulation through motorized blower for uniform temperature distribution. • Shelves: Minimum 2 adjustable stainless steel shelves. • Door: Double-walled insulated door with heat-resistant silicone gasket and locking arrangement. • Safety Features: ○ Over-temperature protection. ○ Sensor fault indication/protection. ○ Electrical leakage protection. ○ Independent safety thermostat. • Ventilation: Adjustable air vent/exhaust port. • Power Supply: 220–240 V AC, 50 Hz, Single Phase. • Application: Suitable for drying, sterilization, curing, baking, moisture determination, and general laboratory heating applications. • Accessories: Complete with stainless steel shelves, power cord, user manual, and all accessories required for operation. • Warranty: Minimum One Year Comprehensive Warranty from the date of installation.			
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8. Autoclave

Dated:

Tender form no.

From

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Dept. of Chemistry, Utkal University, Vani Vihar, Bhubaneswar.

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Sl. No.	Item	Quoted price	Discount (if any)	Remark
8	Stainless Steel Autoclave Reactor Specification • Type: Hydrothermal Autoclave Reactor • Capacity: 50, 100, 200 mL • Outer Body Material: High-grade Stainless Steel • Inner Vessel Material: PTFE (Teflon) Liner • Maximum Operating Temperature: Up to 300 °C • Maximum Working Pressure: Up to 3 MPa (30 bar) • Closure Type: Screw Cap/Threaded Type • Heating Type: Suitable for laboratory hot-air oven • High chemical and corrosion resistance • Suitable for hydrothermal and solvothermal synthesis of nanomaterials • Warranty: One Year from the date of Installation			

9. Vacuum pump

Dated:

Tender form no.

From

M/S......

To,

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Sl. No.	Item	Quoted price	Discount (if any)	Remark
9	Oil-Free Vacuum Pump for Filtration Make: Rocker / Tarsons / DLAB / Chemker / Equivalent Technical Specifications - Type: Oil-free laboratory vacuum pump suitable for vacuum filtration applications. - Pump Principle: Piston or diaphragm type. - Construction: Compact, lightweight, and corrosion-resistant housing. - Operation: Oil-free and maintenance-free operation. - Maximum Flow Rate: Minimum 12 L/min or better. - Ultimate Vacuum: Minimum -650 mmHg (≤ 150 mbar) or better. - Motor Power: ≤ 100 W. - Motor Speed: Approximately 1400			

	rpm or better. • Noise Level: ≤ 50 dB. • Vacuum Port: Suitable for standard laboratory filtration tubing. • Electrical Supply: 220–240 V AC, 50 Hz. • Continuous Duty Operation: Suitable for prolonged filtration applications. • Safety Features: ◦ Thermal overload protection. ◦ Over-current protection. ◦ Stable, vibration-free operation. • Application: Suitable for vacuum filtration, microbiological filtration, membrane filtration, solvent filtration, degassing, and general laboratory vacuum applications. • Accessories: ◦ Vacuum tubing. ◦ Moisture trap/vacuum regulator (preferred). ◦ Filtration flask connection accessories. ◦ Power cord and user manual. • Warranty: Minimum One Year Comprehensive Warranty from the date of installation.			
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