



**Karnatak University's,
KARNATAK SCIENCE COLLEGE, DHARWAD**

Accredited by NAAC

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No.: K S C D/CHEM/VGST/2022-23/GRE-1113/17/2024-25

Date: 13/7/2024

TENDER NOTIFICATION FOR SUPPLY OF SCIENTIFIC EQUIPMENTS IN ONE PACKAGE
(Through e-Procurement system only)

E-tenders are invited from reputed Manufacturing Companies/Authorized dealers for the supply of Following Scientific Equipments in one Package for the year 2024-2025 under the VGST-DST-FUNDED PROJECT, GOVT. OF KARNATAKA AT THE DEPT. OF CHEMISTRY, KARNATAK SCIENCE COLLEGE, DHARWAD (GRE-1113/17/2024-25)

EMD for the procurement of Rotary Vacuum Evaporator and chiller machine (01 unit), Microwave Synthesis System (01 unit) and Probe Sonicator (01 unit) in One Package is Rs. 30,000/-

| Unit | Name of the Equipment and minimum Technical specifications |
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| 1 | <p>ROTARY VACUUM EVAPORATOR AND CHILLER MACHINE Specifications for Rotary vacuum evaporator. (Required quantity 01) An Imported make / Manufactured Rotary Evaporator with following standard features. Manufacturer should be ISO 13485: 2003 certified and all the necessary options and peripherals should be supplied from one supplier / manufacturer:</p> <p>Drive:</p> <ul style="list-style-type: none">Continuously variable from 20 to 280 rpm with AC motor.Direction of Rotation:- Clockwise and counterclockwiseProven sealing mechanism with PTFE/GLASS.Rotation speed display LCD (speed, temperature, time). <p>Lift:</p> <ul style="list-style-type: none">Motorized lift.Automatic motor lift releases the evaporating flask to a safe position in case of power failureHeight adjustment: Approx. 150 mm. <p>Heating bath:</p> <ul style="list-style-type: none">Universal oil/water bath.Clear bottom.Overheating protection temperature at 220 °CEfficient insulation.Bath volume: 5 ltrShould accommodate evaporating flask from 50 ml to 3 ltr capacity.Built-in electronic digital temperature controller supplied as standard.Temperature range: 5° above ambient to + 180 °C.Temperature accuracy: ± 1 °C.Should be free standing and with individual power supply cord.Power: Approx. 1400 watts.Seamless round SS inside vessel outside made of MS duly powder coated or Teflon coating.Independent safety cut off. |

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| | <p>Glass set:</p> <ul style="list-style-type: none"> • Vertical condenser with nozzles for water inlet/outlet • With approx. cooling area of 1700cm. sq. • Threaded connections for utilities. • Glass feed stopcock with PTFE tube. • Plastic/SS clip for holding evaporating flask (B-29 joint). • SS clip folding Receiving flask (S-35 joint) <p>vacuum pump:</p> <ul style="list-style-type: none"> • PTFE Diaphragm vacuum pump, with ultimate vacuum of 25 mbar, and maximum air displacement of 20 ltr/min supplied standard with glass separator. • Vacuum trap. <p>Chiller machine</p> <ul style="list-style-type: none"> • Temperature:-20 degree to ambient • Bath Volume: - 5L or better. • Flow Rate: - Minimum 22L per min. • Level Indicator for Water. <p>Other specifications: Supply voltage: 220 V, 50 HZ, Single phase.</p> |
| 02 | <p>MICROWAVE SYNTHESIS SYSTEM (Required quantity 01)</p> <ul style="list-style-type: none"> • System should be Single Magnetic Stirrer/ Condenser • Capacity Should be 34 Litre • Power should be 700 Watts (2450 MHz). • Control Panel should be Automatic soft touch Electronic with 99.59-minute timer, With Power levels-10 (140W to 700W) adjustable during running • Temperature Controls should be Dip type (thermocouple) temperature sensor/ controller up to 1000C • Magnetic Stirrer should be Magnetic Stirrer with selectable speeds (1200 RPM) adjustable during running. • Ventilation should be Powerful Exhaust System • Inert gas facility should be Nitrogen purging, Under Vacuum reactions, Distillation, Partial Dehydration, & Extraction along with Temperature Monitoring & Controls. • Efficient Bubble type Reflux Condenser with Magnetic Stirrer – One No. each • Flasks – Three neck 500 ml / 250 ml / 100 ml / 50 ml / 25ml • Microwave Choke System with Triple Safety Interlocks with Heat Resistant Door. • Beam Reflector System for perfect distribution of Microwaves, enabling optimum process place utilization. |
| 03 | <p>PROBE SONICATOR (Required quantity 01)</p> <ul style="list-style-type: none"> • Capacity should be 3-120ml • Max tip dia should be 3-6mm • Ultrasonic Power should be 150W • Frequency ± 2Khz. Should be 20Khz • Timer on /off should be Cyclic • Temperature Ambient $\pm 5^\circ\text{C}$ should be to 100°C • Power supply should be 230VAC • Timer should be digital 1 min-90min adjustable power adjustable 20% • 100% impulse digital closed loop, open loop 1s,4s,8s • Piezoelectric frequency energy converter: Lead zirconatetitanate(PZT) Pyroelectric ceramics with titanium probe • Auto tuning and power control convenience |

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| | <ul style="list-style-type: none"> • Temperature control Ambient should be $\pm 5^{\circ}\text{C}$ to 100°C, Display set and Actual (Real Time) Temperature in sample . • Standard probe should be titanium alloy material diameter (Probe) • Power supply AC 230,50hz /60Hz. • Timer control should total working time from 1 min to 30min |
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Interested parties may download the tender form from the website:

<https://eproc.karnataka.gov.in> Tender should be through e-portal only. Tender processing fees as per e-portal and EMD of Rs. 30,000/- for all the equipments in one package shall be remitted through e-procurement mode. Parties must mention make and model No. with detailed specifications of the equipments offered by them. The tender document Should consist of "Technical Bid" and "Financial Bid".

1. Date of Uploading Tender : 13/07/2024
2. Last Date and Time of receipt of tender : 30/07/2024 at 13.00 hrs.
3. Opening of Technical bid : 31/07/2024 at 13.30 hrs
4. Opening of Financial bid : 01/08/2024 at 13.30 hrs.

TERMS & CONDITIONS (GENERAL)

1. Certified copy of the sales tax registration should be enclosed
2. If the Tenderer is Trader, authorization from the Manufacturer of the Equipment/ Instrument quoted should be enclosed
3. Incomplete specification offered by the Tenderer will not be considered and liable to Be rejected.
4. Tender offering other optional advanced feature facilities available in the quoted Equipment over and above to our requirement can be considered at our end.
5. Name of the Institution where the requisite equipment has been supplied may also be given along with full postal address and telephone numbers.
6. The Registrar, Karnataka University, Dharwad reserves all the rights to accept or Reject any lowest tenders in full or in parts or all Tender without assigning any Reasons.
7. No interim queries will be entertained.
8. Supply will be subject to unconditional comprehensive onsite warranty for the entire Equipment of the equipment for the period of two years form the date of satisfactory Installment.
9. The training for operating the equipment will also have to be given to the institute Employee by the Tenderer without further charges
10. The Tenderer should be quoted cost of the equipment and all the applicable taxes Separately. Institute is applicable to central government taxes against Form D
11. The Tender should quote only one rate against the tender enquiry.
12. If the equipment not supplied within specified date next lowest quoted party will get Order and all the losses incurred will be collected from your EMD
13. EMD amount will be refunded after completion of tender procedures without any Interest if tender rejected. For those which are accepted EMD will be refunded after the warranty period is over
14. Bidder should nearby 250 km for quick service of the instruments supplied as the project for which it is supplied is fast track and hence there should not be any issues associated with service.

15. Tenderer should attach copy of supply order with performance certificate from the costumer for satisfactory supply of scientific equipment's / chemicals to recognized colleges or university with minimum order for more than one lakhs rupees within Karnataka state.
16. The parties are requested to make separate bid (Technical & Financial both) for the quoted equipment(s) along with the requisite amount of EMD. Separate bid is necessary for each instrument.
17. The vendor should quote the cost of the equipment(s) and all the applicable taxes. Transportation/ Shipping/ other any incidental charges should be borne by the supplier /vendor
18. Tender form duly filled in and signed and sealed.
19. EMD received after specified due date will not be accepted under any circumstances.
20. Late Tender shall not be considered under any circumstances.
21. If tender accepted, EMD will be refunded without any interest after completion of delivery, installation and successful operation of the equipments for one year at the Institute in good condition.
22. Delivery period mentioned in the Purchase Order should be strictly adhered to; otherwise the bidder will forfeit EMD.
23. If the supplier fails to Supply, Install and Commission the equipments as per specifications mentioned in the order within the due date, the Supplier is liable to pay liquidated damages of 1% of order value per every week of delay subject to a maximum of 10% beyond the due date. Such money will be deducted from the EMD.
24. Karnatak University will not deal with any entity other than the authorized bidder, whatsoever the nature of its relationship with the bidder.

TERMS & CONDITIONS (TECHNICAL CRITERIA)

- 1 Tax Payer's Identification Number (TIN)/ Registration Certificate Number under the VAT/GST/Sales Tax Act.
- 2 Copy of the PAN card issued by I.T Department.
- 3 Full address and telephone number of the office of the Assessing Authority under the VAT/GST/Sales Tax Act.
- 4 Sales Tax/VAT Clearance Certificates of last three years i.e., 2020-21, 2021-22 and 2022-23.
- 5 Annual Turnover Certificate for the last three years as above
- 6 IT returns for the last three years as above
- 7 Name/s, contact number/s of authorized person/s of any two-government organization/s to which the bidder has supplied similar equipments.
- 8 List of documents submitted for technical bid.
- 9 The compliance sheet comparing the specifications as stated in the tender document and as offered by the bidder shall be submitted. Deviation if any along with explanation shall be clearly mentioned

SERVICE, WARRANTY AND TRAINING

- 1 The system should be accompanied with Conformity Certificate.
- 2 Tendered price should include all kinds of taxes and other charges viz delivery, installation, commissioning and training (at least 4 users) at customer's location.
- 3 On-site installation and commissioning shall be conducted by a qualified factory trained engineer

4. The equipment will have to be supplied & installed by the supplier/agent in the institute premise Within 20 days for the receipt supply order free of installation charges. All the details of the equipments quoted should be available in supplier's company's website
- 5 Vendor to provide service guarantee: should the system require service during the warranty period, vendor must guarantee or replacement of instrument for free.
- 6 Vendor to have logistic support to ensure that over at least 95% of the service parts are readily available and upkeep delivery within 24 hours.
- 7 The warranty shall commence only upon successful completion of the Acceptance, Test or Commissioning.

Sd/-
REGISTRAR,
Karnatak University, Dharwad.