



KARNATAK UNIVERSITY, DHARWAD

DEPARTMENT OF STUDIES IN PHYSICS

Pavate Nagar, Dharwad-580 003 (Karnataka)

NAAC Accredited
with "A" Grade 2022

Ref. No.: KAU/2023-24/IND0013

Date: 25-01-2024

Tender Notification for Supply and Installation of Laboratory Equipments and Accessories

(Through e-Procurement System only)

Karnatak University, Dharwad invites e-Tender in two bid system (Technical and Financial) from reputed manufacturers/authorized dealers/vendors for supply and installation of **Equipments and Accessories for M.Sc. Physics Laboratories** as per the specifications to **The Chairman, Department of Physics, Karnatak University, Dharwad-580 003**. (Contact No.: 9448623319)
For more details visit the websites: <https://kppp.karnataka.gov.in> and <https://www.kud.ac.in>.

The Schedule of e-Tender

1.	Last Date and Time for Tender Queries/Clarifications	10-02-2024 13:00:00
2.	Last Date and Time of Receipt of Tenders	12-02-2024 13:00:00
3.	Date and Time for Opening of Technical Bid	13-02-2024 13:05:00
4.	Date and Time for Opening of Financial Bid	15-02-2024 13:00:00

Sd/-
CHAIRMAN

Sd/-
REGISTRAR



Karnatak University, Dharwad

Department of Studies in Physics



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“A” Grade 2022”

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ಭೌತಶಾಸ್ತ್ರ ಅಧ್ಯಯನ ವಿಭಾಗ

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Ref. No.: KAU/2023-24/IND0013

Date: 25-01-2024

TENDER NOTIFICATION

(Through e-Procurement System Only)

Karnatak University, Dharwad invites e-Tenders in two bid systems (Technical and Financial) from reputed, resourceful and eligible manufacturers/authorized dealers/vendors for supply, installation, testing, commissioning and maintenance of **Equipments and Accessories for M.Sc. Physics Laboratories** as per the specifications to **The Chairman, Department of Physics, Karnatak University, Dharwad – 580 003.**

Sl. No.	Name of the Items	EMD Amount
1	Equipments and Accessories for M.Sc. Physics Laboratories	Rs. 24,000/-

Interested and reputed manufacturers or their authorized agents/dealers/distributors/channel partners are requested to send their offer online in two bid systems (Technical & Financial) through e-procurement portal: <https://kppp.karnataka.gov.in>. The tenders should be addressed to **The Chairman, Department of Physics, Karnatak University, Dharwad – 580 003** (Contact No.: 9448623319).

Tender processing fees as per e-portal and EMD amount is to be remitted through e-procurement mode. For more details visit the websites: <https://kppp.karnataka.gov.in> and <https://www.kud.ac.in>. Bidders must mention the make & model number with detailed technical specifications of the equipments offered by them. Otherwise their tender will not be accepted. Non-compliance with specifications and instructions in this document may disqualify the bidders from tender exercise.

The Registrar, Karnatak University, Dharwad reserves the right to accept or reject any offer in full or in part or accept any offer other than the lowest offer without assigning any reason thereof. Any offer containing incorrect and incomplete information shall be liable for rejection. Incomplete tenders, amendments and additions to tender after opening or late tenders are liable to be ignored and rejected. The University reserves the right to cancel or reduce the quantity included in the schedule of requirements at any time after acceptance of the tender with a notice. The performance security of 5% of the contract value in terms of Bank Guarantee by scheduled banks shall be given by the successful bidder for the total

period of Warranty. In the case of import, Indian Agent has to submit a performance guarantee in INR. The security deposit shall be returned to the Supplier after its expiration. Failure of the successful Bidder to comply with the requirements shall constitute sufficient grounds for the annulment of the award and forfeiture of the Security deposit, in which event the Purchaser may make the award to the next lowest evaluated bid submitted by a qualified Bidder or call for new bids.

Technical Specifications of Equipments and Accessories for M.Sc. Physics Laboratories:

Sl. No.	Name of the Equipment and Technical Specifications	Qty
Nuclear and Particle Physics Laboratory		
1	USB based 8K MCA Card with Data Acquisition Anuspect Software for Nuclear Physics Laboratory Experiments.	1
2	Beta Reference Radioactive Source Set (Co-60, Sr-90, Pm-147, Tl-204 and one dummy source)	1
Atomic and Molecular Physics Laboratory		
3	Wavelength Comparator for wavelength measurements of atomic and molecular spectra. It should be analog setup with least count = 0.001mm.	2
4	Electron Spin Resonance Spectrometer with Helmholtz coils, R.F. oscillator, test sample Diphenyl Picryl Hydrazil (DPPH), a cathode ray oscilloscope (CRO) and power supply kit to determine Lande <i>g</i> factor.	1
5	Milliken's Oil-Drop Experiment Set-up with standard configuration, Atomizer; Circular/Rectangular plates; DC supply (0-500V); microscope/digital eye camera; Oil sprayer; software etc. This set-up should be useful to determine <i>e/m ratio</i> ; a fundamental atomic constant.	1
6	Micropipette in the range of 10- 200µl to measure volume of the solutions to do absorption, reflectance and fluorescence spectral measurements.	1
7	Spectrum Tubes: Nitrogen, Hydrogen, Helium, Neon, Mercury, Cadmium, Iodine: Make: WKM; Height: 26cm. Each tube should be made of high-quality glass/quartz with D.C. supply and a stand as light sources for producing spectrum.	7
8	Narrow Band Interference Filters with narrow band width (~ 10-20 nm) in wavelength range from 400 – 700 nm to isolate Sodium D1 and D2 lines. This equipemt should produce monochromatic radiation for Zeeman Effect, Franck-Hertz & other experiments.	1
Electronics and Communication Laboratory		
9	Digital Storage Oscilloscope with bandwidth of 100 MHz Channels: 2+EXT, Real time sampling rate:1GSa/s, Memory depth: 2 Mpts, should be useful to determine the output waveforms, output voltage and nature of output waveforms in electronic systems.	1
10	Function Generator with frequency range of 0.1Hz to 2MHz useful to measure the output waveforms such as sine wave, triangle wave, +ve & –ve sawtooth waves and +ve & –ve pulses with input attenuation of 20 dB.	2
11	Decade capacitance box to run the electronic circuit and it is commonly used in many of the electronics practicals. It is mainly helpful to adjust capacitor of designed value.	2

12	Regulated DC Power Supply with voltage range: +12V, -12V. This equipment is used to supply +12 and -12V simultaneously helpful for operational amplifiers.	2
13	Laboratory 8085 Microprocessor training kit for used in training the microprocessor operations and programming in digital electronics.	2
Condensed Matter Physics Laboratory		
14	Digital DC Regulated Power Supply with applied voltage range from 0-32 V and current up to 2 Amp. This equipment is essential requirement for all the experiments	5
15	Digital Panel DC Ammeter with AC powered in the range from 0-100 mA. The resolution should be better than μA , should be useful to measure the current.	15
16	Digital Panel DC Voltmeter with AC powered in the range from 0-100 V. The Resolution should be better than μV , should be useful to measure the voltage.	15
17	Hall effect samples: Germanium sample mounted with 4 probes, should be suitable to measure the Hall effect of both p-and n-type samples, should be useful to measure the carrier type, carrier concentration and charge carrier mobility.	10
18	Digital weighing balance with milligrams resolution with zero and dead weight reset. The digital balance should be useful for weighting the samples/chemicals in labs.	1
19	Dimmer Stat with input voltage of 240 V and output voltage with continues variable in the current rating of 8Amp, should be useful to control the AC voltage.	2

Installation and Commissioning:

Installation and commissioning of the equipments has to be carried out by supplier at Laboratories of Dept. of Physics, K.U. Dharwad and the performance has to be demonstrated.

Onsite training must be provided to Department of Physics, K. U. Dharwad personnel on the installed equipment for operation and data processing.

List of Previous Customers:

List of customers to whom similar units were supplied elsewhere shall be given along with the offer. End user details should include model No, year of supply, end user full contact details (Telephone/Email) to be furnished along with offer

Authorization Certificate:

Vendor shall be original manufacturer/authorized representative of the system. Vendor shall provide the authorization certificate from the principals for the offered system along with the cost quote.

Warranty: Comprehensive warranty for 3 years and AMC for 2 years after warranty should be provided. Separate quote for AMC should be included.

Terms and Conditions:

- 1) The parties are requested to make separate bid (both Technical & Financial) for each quoted equipment along with the requisite amount of EMD.
- 2) The tender should quote the cost of the equipment and all the applicable taxes separately. Transportation/Shipping/Other any Incidental Charges should be borne by the bidder/tenderer (the shipment should be FOB/CIF/CIP at Department of Physics, Karnatak University, Dharwad).
- 3) All the equipments have to be delivered by the supplier/agent to the Department of Physics, Karnatak University, Dharwad within 30-45 days after placement of the purchase order and must be installed, commissioned free of charge immediately after receipt of the equipments. The supply will be subject to comprehensive on-site warranty (as mentioned in the specifications) from the date of installation.
- 4) Interested parties may upload the tender documents through e-procurement portal <https://kppp.karnataka.gov.in> only. Tender processing fees as per e-portal and EMD amount is to be remitted through e-procurement mode. The bidder must mention make and model number with detailed specification of the equipment offered by them. Otherwise their tender will not be accepted. The tender document should consist of two parts “Technical Bid” and “Financial Bid”.

General Terms & Conditions:

- 1) Bidder’s information such as name, address and contact numbers, PAN No. GST No., email address, bank details etc. should be provided.
- 2) Certified copy of the sales tax registration should be enclosed
- 3) Tender forms must be duly filled in and signed and sealed.
- 4) Certified copy of latest income tax clearance certificate should be enclosed
- 5) If the Tenderer is Trader, authorization from the Manufacturer of the Equipment/Instrument quoted should be enclosed.
- 6) EMD received after specified due date will not be accepted under any circumstance.
- 7) Incomplete specification offered by Tenderer will not be considered and liable to be rejected.
- 8) Compliance Certificate must be provided indicating conformity to technical specifications.
- 9) Tender offering other optional advanced feature facilities available in the quoted equipment over and above to our requirement can be considered at our end.
- 10) Name of the Institutions/Universities where the requisite equipments have been supplied by the firm should be given along with the full postal address and telephone numbers.
- 11) No Tender is considered if sent by Fax
- 12) The Registrar, Karnatak University, Dharwad reserves all the rights to accept or reject any lowest tenders in full or in parts or all Tenders without assigning any reasons. No interim queries will be entertained.

- 13) Late Tender shall not be considered under any circumstances.
- 14) The Tenderer should quote only one rate against the tender enquiry.
- 15) If the equipment is not supplied within specified date, next lowest quoted party will get the order and all the losses incurred will be collected from your EMD.
- 16) EMD amount will be refunded after completion of tender procedures without any interest if tender is rejected.
- 17) If the tender is accepted, the EMD will be refunded without any interest after completion of the delivery, installation and successful operation of the equipment for one year at the institute in good condition.
- 18) Delivery period mentioned in the Purchase Order should be strictly adhered to; otherwise the bidder will forfeit EMD.
- 19) If the supplier fails to Supply, Install and Commission the equipment 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.
- 20) The bidder should be a licensed dealer of the product. Manufacturers' Authorization Form (MAF) should be furnished in the technical bid.
- 21) Karnatak University, Dharwad will not deal with any entity other than the authorized bidder, whatsoever the nature of its relationship with the bidder.
- 22) The bidders should not be under a declaration of ineligibility for corrupt and fraudulent practices issued by the Government of Karnataka.
- 23) The Technical Bid should be complete in all respects and contain all the information about the equipments. It should not contain any price information. However, it should confirm that all the required rates have been quoted in Financial Bid without showing the actual amounts in the Technical Bid. It is mandatory to submit all the details in the prescribed formats duly filled in, along with offer.
- 24) K.U. Dharwad at its discretion may not evaluate the technical bid in case of non-submission or partial submission of technical details. The technical bid submitted by the bidder to K.U. Dharwad through e-portal must be in an organized and structured manner.
- 25) The bidder should fill the complete details in the technical bid format and should be submitted in the company letter head with contact details.
- 26) Educational offer (if any) is to be provided.
- 27) Annual turnover, GST Registration Certificate, PAN Card, Authorization Letter of the bidder should be provided.
- 28) Incomplete specification/documents offered by the bidder will not be considered and tender is liable to be rejected. Quoted amount in tender should include all the applicable taxes, transport charges,

installation charges, and warranty. The net rate quoted per unit in respect of indigenous goods shall be for FOB Destination, which should include all taxes, GST, insurance, freight charges etc.

- 29) The custom duty as applicable after considering eligible concessions based on DSIR exemption etc will only be paid by the purchaser. The University can provide the copy of the DSIR customs and excise duty exemption certificate upon request.
- 30) If any time before the delivery of the equipment, it is found that the same equipment have been offered to another party in India at a lower rate, payment shall be restricted to the extent of such lower rate and the Supplier shall be liable to pay the Purchaser the difference in two rates i.e. excess charged over such lower rate, if payment had been made by the purchaser. The University will look into a reasonable past period to ensure this.
- 31) The bidder shall not charge extra for additional items required to meet the operational requirement at the stage of installation and commissioning.
- 32) The supplier warrants that the equipment, including all sub-assemblies and components provided, shall be free from defects in the design, engineering/manufacturing, workmanship and performance that prevent the Equipment and/or any of its sub-assemblyies and components from fulfilling the Equipment Requirements or that limit in a material fashion the operation, reliability, accuracy, sensitivity and precision of the Equipment, its sub-assemblies and components. Commercial warranty provisions of products supplied under the Contract shall apply to the extent that they do not conflict with the provisions of this Contract. Response time for attending to defects shall be 24-48 hours after they are reported to the supplier or its designated service agent.
- 33) The supplier shall inform to the University about the site preparation, if any, needed for the Installation of equipment, immediately after the receipt of the purchase order. The supplier must provide complete details regarding space and all the other infrastructural requirements needed for the equipment like ambient temperature, humidity, civil work, weather specifications, power specifications, etc., which the University shall arrange before the arrival of the equipment to ensure its timely Installation and smooth operation thereafter. The supplier shall visit the University and see the site where the equipment is to be installed and may offer his advice and render assistance to the University in the preparation of the site and other pre Installation requirements.
- 34) In case of any mishappening/damage to equipment and supplies during the carriage of supplies from the origin of equipment to the Installation site, the supplier has to replace it with new equipment/supplies immediately at his own risk. Supplier will settle his claim with the insurance company as per his convenience.
- 35) If any of the equipment supplied by the Tenderer is found to be defective, substandard, refurbished, unmerchantable or not in accordance with the description/specification or otherwise faulty, the University will have the right to reject the equipment or its part. The prices of such equipment shall

be refunded by the Tenderer with 18 % interest if such payments for such equipment have already been made. All the damaged or unapproved goods shall be returned at suppliers cost and risk and the incidental expenses incurred thereon shall be recovered from the suppliers. Defective part in equipment, if found before Installation and/or during warranty period shall be replaced within 30 days on receipt of the intimation from the University at the cost and risk of supplier including all other charges.

36) In case of any dispute arising out of this contract, the decision of the Hon'ble Vice Chancellor, K.U. Dharwad is final.

TECHNICAL CRITERIA

- 1) Copy of PAN Card issued by I.T Department and GST Certificate should be provided.
- 2) Full address and telephone number of the office of the Assessing Authority under the GST/Sales Tax Act., should be provided.
- 3) GST Clearance Certificates of last three years i.e., 2020-21, 2021-22 and 2022-23.
- 4) Annual Turnover Certificate for the last three years i.e., 2020-21, 2021-22 and 2022-23.
- 5) Income Tax Returns for the last three years i.e., 2020-21, 2021-22 and 2022-23.
- 6) Number and date of the certificate/dealership authorization letter issued by original equipment manufacturers for having bidders as the authorized seller/distributor of equipment.
- 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) A Certificate/Undertaking on the letter head of the Company to the effect that the bidder/Manufacturer had not been blacklisted or debarred anywhere in India or abroad by any organization.
- 9) List of documents submitted for technical bid.
- 10) 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.
- 11) Any legal disputes arising out of any breach of contract pertaining to the whole process of this tender shall be settled in the court of competent jurisdiction of Dharwad, Karnataka.

SERVICE, WARRANTY AND TRAINING

- 1) The system should be accompanied with Conformity Certificate.
- 2) Taxes and Duties: 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. The vendor should ensure payment of all taxes, duties, levies and charges assessed by all municipal, state or national government authorities, in connection with the Goods and Services supplied under the Contract.
- 3) On-site installation, commissioning and training shall be conducted by a qualified factory-trained engineer and the vendor must ensure complete support for the equipments for at least a period of 5 years. This shall include the following at no extra cost: Travel and Labor expenses of Customer Engineer. Service Parts used for repairs. The warranty shall commence only upon successful completion of the Acceptance, Test or Commissioning.
- 4) Vendor to provide service guarantee: should the system require service during the warranty period, vendor must guarantee or replacement of instrument for free.
- 5) 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. Support should be available from Monday to Friday, 10.30am to 5.30pm (excluding Public Holidays), local time.
- 6) Vendor to provide a copy of site-preparation checklist and the vendor should provide both on-site and operator training for users on the system start-up, usage, maintenance, quality control, trouble shooting, etc. including comprehensive classroom training.
- 7) Vendor must demonstrate that it has a proven appropriate set-up and capability to provide after-sales service efficiently and effectively. The supplier should have in his facility a similar system to that proposed in this tender for training purpose.

Sd/-
CHAIRMAN

Sd/-
REGISTRAR