



**Fakir Mohan University**  
Vyasavihar, Nuapadhi, Balasore, Odisha-756089  
Website: [www.fmuniversity.nic.in](http://www.fmuniversity.nic.in)

No. FMU/R&D/182/2022/ 1308

Date: 22/2/22

**Indicative Notice Inviting Tender**

Sealed quotations are invited from interested Dealers, Suppliers and Manufacturers with valid GSTIN certificate, PAN card and authorised dealer certificate for supply of **Lab Equipments/Instruments** for a BRNS, DAE, Government of India sponsored project entitled, "Mapping saline water intrusion and fluoride migration into the coastal aquifer of North Odisha with isotope and geochemical modelling techniques" operating in the PG Dept. of Environmental Science, Fakir Mohan University, Balasore. The last date for submission of quotations by Regd./Speed Post is **08.03.2022 by 04:00 PM**. For details please visit the University web site [www.fmuniversity.nic.in](http://www.fmuniversity.nic.in).

*[Signature]*  
22/2/22  
(Principal Investigator)

## GENERAL TERMS AND CONDITIONS

### **1. Submission of quotation/ tender/ bid in Two Bid System**

The Bid/ Tender/ Quotation shall be submitted in two-bid system i.e. Technical Bid & Financial Bid. Technical and Financial bid of the quotation should be separately sealed in two envelopes and it must be clearly mentioned on the top of the envelopes as Cover-A (Technical Bid) and Cover-B (Financial Bid). Both the sealed envelopes (A & B) should then be put in one outer cover indicating thereon:

- i) Reference No. of Tender (in Capital letter on the top of the envelope):
- ii) Tender regarding (in Capital letter on the top of the envelope as **Lab equipment**)
- iii) Due date for submission of Tender:
- iv) Name and Address of the firm:

The technical bids are to be opened by the Purchase Committee for evaluation. In the second stage the financial bids of only the technically acceptable offers are opened for further evaluation, scrutiny and ranking for awarding the Work Order/ Supply Order.

#### **1.1. Technical Bid Should Contain the Following Documents:**

- a) The detailed specifications of the equipment along with make and model with respect to the specification specified by the University should be submitted as per the format enclosed in **Annexure I.**
- b) Technical Literature in support of the Lab equipment
- c) Copy of Valid GSTIN Registration Certificate.
- d) Copy of PAN.
- e) Copy of Income Tax Return for last 03 years.
- f) The authorisation certificate of OEM/ authorised Manufacturer/ Distributor/ Dealership Certificate for respective Equipment/Chemical/ Glassware/ or other consumable items.
- g) **EMD @ 2%** of quoted amount in the shape of Bank Draft drawn in favour of **F.M. University Development Fund-II** payable at Balasore with three-month validity.
- h) **Non-refundable tender fee Rs. 500/-** in shape of Demand Draft in favour of **F.M. University Development Fund-II** payable at Balasore with three-month validity.

#### **1.2. Financial Bid Should Contain the Following Documents:**

- a) Break up price as per format enclosed in **Annexure-II.**
- b) Total Price must include all admissible taxes including transportation charges, delivery and installation charges at the Department of Principal Investigator i.e. PG Dept. of Environmental Science, F M university, Balasore– 756089 trial operation, comprehensive training and clearance charges. The University will make necessary payment in Indian currency only.
- c) No conditional price will be taken into consideration. No escalation of the price in later stage is acceptable.
- d) Warranty period details should be clearly mentioned

### **2. Goods Eligibility:**

ISI, CE, ISO, US FDA/ IEC 60601 or equivalent certificate

### **3. Other Terms and Conditions:**

- i) The cost of the tender is **Rs. 500/- (Non-refundable).**
- ii) Submission of quotations without tender cost, EMD along with the Technical Bid and received after due date and time will be summarily rejected.

- iii) The quotations completed in all respect should reach to **Dr. Prakash Chandra Mishra, Principal Investigator, BRNS Project, PG Department of Environmental Science, Fakir Mohan University, VysaVihar, Balasore-756089 through Speed/Regd. Post (Indian Postal Service) only** on or before **08.03.2022 by 04:00 PM**. The quotations received after due date or incomplete in any respect shall summarily be rejected. The tender papers will be opened on **08.03.2022 at 04:30 PM** in the Office Chamber of the Registrar, F.M. University, Vyasa Vihar, Nuapadhi, Balasore-756089.
- iv) The supplier must be either manufacturer of the equipment or the authorised agent/ dealer of the manufacturer.
- v) The price should be quoted in the Indian currency only.
- vi) The successful bidders should supply the equipment within a period of 3-4 weeks from the issuing date of purchase order by the competent authority of Fakir Mohan University and shall be delivered to the Person concerned.
- vii) The EMD of the successful bidders will be refunded after the supply and installation of the equipment, on completion of warranty period.
- viii) The EMD of the unsuccessful bidders will be returned to the concerned quotationers immediately after finalisation of the tenders by Regd. Post.
- ix) Documents such as operation manual and other technical specifications of the equipment should be supplied by the successful bidders along with the equipment.
- x) **A warranty certificate for the period of minimum 02 years from the date of installation should be provided. Thus the basic price of all instruments should be quoted along with the warranty period covered.**
- xi) During the warranty period or later whenever the firm is called upon to attend for the rectification of the defects/ faults in the consignments, the firm shall attend to the repair of instrument within 48-96 hours. They should render timely back up service whenever called upon. A certificate to that effect should be attached along with the invoice or delivery challan
- xii) The invoices should be submitted in triplicate in the name of **“Principal Investigator, BRNS Project, PG Department of Environmental Science, Fakir Mohan University, VysaVihar, Balasore-756089”** for pass and payment. The payments will be made only after successful installation/ Training/ Demonstration of instruments supported with a certificate by the concerned PI.
- xiii) The University authority reserves the right to refuse payment in the event of unsuccessful installation and the non-submission of the installation certificates.
- xiv) **The authority of the F.M. University, Balasore reserves the right to accept/ reject any part or all quotations; and also increase or decrease the number of individual items to be procured; or cancel the entire procurement process without assigning any reason thereof.**
- xv) Once the rate is approved by the Purchase Committee and supply order is placed to the successful bidder and in the event of failure on the part of the bidder for supply of the equipment on any account, the authority reserves the right to forfeit the EMD.
- xvi) The rates/ price should be quoted in Indian currency only and payment shall be made in Indian Currency. The price shall be inclusive of all taxes (Rate & Taxes should be mentioned separately), Transportation cost and Cost of Installation and Commissioning, trial operation, comprehensive training and clearance charges.
- xvii) **The bid should remain valid for a period of 180 days from the date of opening. In case your offer has a different validity period that should be clearly mentioned in the quotation.**
- xviii) Dispute, if any, with regard to the tender/ quotation shall be settled within the jurisdiction of Balasore Court, Odisha only.



## 1. List of Equipment/Instruments

## A) Technical Specification of UV-Visible spectrophotometer

SI No	Feature	Specification
1	Instrument	Double Beam UV-VIS Spectrophotometer
2	Wavelength Range	190-1100 nm or better
3	Spectral Bandwidth	0.5nm -5nm or better
4	Wavelength Accuracy	± 0.3nm or better
5	Wavelength Repeatability	±0.1nm or better
6	Wavelength scanning speed	3000nm /min or better
7	Source	Deuterium lamp and Halogen lamp with light source auto position adjustment built in
8	Detector	Silicon Photo diode
9	Stray Light	≤ 0.05% or better
10	Photometric system	Double Beam
11	Photometric range	-3 to 3 Abs or higher
12	Photometric Accuracy	±0.002 Abs or better
13	Photometric Repeatability	± 0.001 Abs or better
14	Baseline Flatness	±0.001 Abs or better
15	Baseline Stability	≤0.0004 Abs/30min or better
16	Monochromator	Czerny-Turner mounting, Single monochromator, Double- beam system
17	Accessories and Consumables	Quartz cuvettes 10 mm path length -3 Pairs
18	Software	The software should be an original licensed copy software with specific part number mentioned in the offer with integrated database. No pirated version of the software will be allowed and if found the offer will be strictly rejected. Periodical updates of the software should be provided free of cost for a period of ten years. Instrument software must be the latest version and should have a real time reference curve capability and calculation capability Software should be compatible for windows with all required functions for Instrument control, data acquisition and analysis and necessary report utilities Operating software which allows for the instrument to be fully calibrated and verified automatically. The data file format should easily allow sharing/transfer of data files as individual electronic documents, which are readable by the same data analysis package. The software should be having options for creating user defined templates for reports in required format. Data storage facility and provision to conduct post measurement analysis and review of test results at a later date. Universal application range (ASCII files import/ export, word/ excel compatibility, pdf formats) should be available.

19	PC and Printer (Optional)	PC should be of standard make DELL / HP / Lenovo with at least 4GB RAM and 1 TB hard disk. Windows® Latest version with Licensed Microsoft® , DVD ROM, 21" TFT/LED Color Monitor, Keys Keyboard, Optical mouse, with original operating system. HP or any standard brand Laser Jet Printer with scanner.
20	UPS(Optional)	Suitable 3KVA online UPS having at least 1 Hour battery backup should be supplied.
21	Manual	One set of manual and service manual (both hard and soft copy in English) should be supplied with the equipment.
22	Training	The manufacturer / supplier of instrument should provide two days onsite training in both hardware and software to the laboratory personnel in the installation, operation and maintenance of the instruments. The supplier or manufacturer should also provide <b>two days</b> applications training. After successful installation and application training.
23	Warranty	24 Months Comprehensive Warranty. Additional 12 months of warranty (Optional)

#### Terms and Conditions:

- i) Specification claimed must be supported by printed literature of the company.
- ii) The supplier of the instrument must confirm in writing that the spares for the entire instrument will be available for a period of at least ten years after the model of equipment supplied has been phased out. For frequently required spares, there should be adequate inventory with the Indian agency.
- iii) Any accessories must be needed for operation of the equipment, but not mentioned in this specification shall be quoted by the vendor.
- iv) The supplier must have sold at least five UV Vis Spectrometer System in India in last 5 years. The supplier should provide list of installation in India with all contact details and model details.
- v) Supplier must have proven capability and trained expert manpower to troubleshoot equipment both in the hardware and application part.
- vi) Backup software must be provided on optical media. Any further version of the software and updates must be provided free of cost for 10 years.
- vii) Suitable and essential tool kit is to be supplied with the equipment for the required maintenance.

## B. Technical Specifications of Benchtop Conductivity Meter

SI No	Feature	Specification
1	Conductivity	Range: 0.001 $\mu$ S to 3000 mS Resolution: 0.001 $\mu$ S minimum, auto ranging, up to 4 significant digits Relative Accuracy: 0.5 % of reading $\pm$ 1 digit > 3 $\mu$ S, 0.5 % of reading $\pm$ 0.01 $\mu$ S $\leq$ 3 $\mu$ S Reference Temperature: 5, 10, 15, 20, 25 $^{\circ}$ C Temperature Compensation: Linear, nonlinear nLFn&nLFu, EP (USP), off Compatible Cell Constants: 0.001 to 199.9
2	Resistivity	Range: 2 ohm to 100 meg-ohm
3	Salinity	Range: 0.06 to 80.00 psu, 0.05 to 42.00 ppt
4	TDS	Range: 0.001 to 200.0 ppt
5	Temperature	Range: -5 to 105 $^{\circ}$ C, 23 to 221 $^{\circ}$ F
6	Calibration	Calibration Points: Up to 5 Calibration Editing: Yes Temperature Offset Calibration: 1 point
7	Data logging	Memory: 2000 with time and date stamp Log Function: Manual, ready (includes AUTO-READ), timed
8	IP rating	IP54
9	Automatic Stirrer facility	Yes (Provision for connectivity of automatic stirrer probe directly controlled by meter)
10	Power supply	Universal Power adapter (220 VAC) / 4 nos. AA batteries (optional)
11	Warranty	Meter is warranted for 36 months on manufacturing defects (12 months onsite warranty only).
12	Supply includes	Benchtop Conductivity meter, Conductivity probe, Buffer & solution kit, 1413 $\mu$ S conductivity standard, Attached electrode stand and holder, Universal power adapter, Printed quick start guide and literature CD.
13	Warranty	24 Months Comprehensive Warranty. Additional 12 months of warranty (Optional)

### Terms and Conditions:

- i) Specification claimed must be supported by printed literature of the company.
- ii) The supplier of the instrument must confirm in writing that the spares for the entire instrument will be available for a period of at least ten years after the model of equipment supplied has been phased out. For frequently required spares, there should be adequate inventory with the Indian agency.
- iii) Any accessories must be needed for operation of the equipment, but not mentioned in this specification shall be quoted by the vendor.
- iv) The supplier must have sold at least five Conductivity Meter System in India in last 5 years. The supplier should provide list of installation in India with all contact details and model details.
- v) Supplier must have proven capability and trained expert manpower to troubleshoot equipment both in the hardware and application part.
- vi) Backup software must be provided on optical media. Any further version of the software and updates must be provided free of cost for 10 years.
- vii) Suitable and essential tool kit is to be supplied with the equipment for the required maintenance.