



ICAR - CENTRAL INLAND FISHERIES RESEARCH INSTITUTE
AN ISO 9000 : 2008 Certified Organization
Barrackpore, Kolkata-700 120, West Bengal



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GST NO.19AAAGC0090D1ZX

F. No. 1/1/2018-19/S/Multi Parameter Water Quality Analyzer

3rd July, 2018

E-TENDER NOTICE

E-Tender ID: "2018_DARE_355782_1"

Tender No. 1/1/2018-19/S/Multi Parameter Water Quality Analyzer

The Director, ICAR-CIFRI invites online Quotation through e-procurement portal (www.eprocure.gov.in) in 2 (two) **Bid Systems** from the Manufactures/Authorized Dealers/reputed firms for the supply, installation/commissioning and training (if required) of one **Multi Parameter Water Quality Analyzer (bifurcated into two parts, i) First part Equipment is to be used for micro-organism detection as in indicated at 16 number of bullet points at Annexure-II (Specifications) of NIT document and ii) Second part Equipment is to be used for measuring the physical and chemical parameters of water as in indicated at para 1 to 21 and the sensor specifications in the tabular format at Annexure-II (Specifications) of NIT document)** at ICAR-CIFRI, Barrackpore, Kolkata-700 120, West Bengal. The tender document and specification details may be downloaded from the Institute's Website: www.cifri.res.in or e-procurement portal www.eprocure.gov.in.

No bid other than online quotation shall be entertained. However, hard copies of documents mentioned at para 2 of Terms and Conditions below duly authenticated by the Authorized personnel of the bidder should reach ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata – 700120 within the Bid submission end date and time to enable the Institute to tally the documents with hard copy at the time of opening of tender.

The tentative Schedule of processing of quotation is as follows:-

1.	Date and Time for Issue/Publishing	11.00 AM on 06.07.2018
2.	Document Download/Sale Start Date and Time	12.00 Noon on 06.07.2018
3.	Pre-Bid conference	11:00 AM on 13.07.2018
4.	Document Download/Sale End Date and Time	11.00 AM on 27.07.2018
5.	Bid Submission start Date and Time	11.00 AM on 07.07.2018
6.	Bid Submission End Date and Time	11.00 AM on 27.07.2018
7.	Date and Time for Opening of Technical Bids	11.00 AM on 28.07.2018
8.	Address for Communication	The Assistant Administrative Officer (Stores), ICAR-CIFRI, Barrackpore, Kolkata-700120

The aforementioned dates may vary and the change in date shall be suitably intimated in public domain. The venue of Pre-bid is ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata – 700120.

Assistant Administrative Officer (Stores)

TERMS AND CONDITIONS

1. Each bidder should bid **item wise** through online BOQ in two part equipments. Order for each part of equipment will be placed separately as per lowest quote respectively in each part. Price must not be quoted in Technical Bid.
2. The following documents in PDF Format are to be uploaded with the quotation through e-procurement portal www.eprocure.gov.in. As mentioned at Tender notice, the hard copies of documents mentioned at para 2 below duly authenticated by the Authorized personnel of the bidder should reach ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata – 700120 within the Bid submission end date and time to enable the Institute to tally the documents with hard copy at the time of opening of tender.
 - a) Authenticated PDF Copy of valid enlistment letter with the Government Departments, if any.
 - b) Authenticated PDF Copy Certificate showing performance of this type of supply in the past e.g. copy of Purchase Order and Challan, installation and commissioning Certificate, certificate issued by Authorized Officer of Department.
 - c) Authenticated PDF Copy of PAN & GST Certificate.
 - d) PDF Copy of Demand Drafts (EMD Rs.30,000/-).
 - e) Authenticated PDF Copy of valid Dealership/Authorization Certificate from manufacturer.
 - f) Authenticated PDF copy of Declaration as per Annexure-III in letter head of the firm.
 - g) Authenticated PDF copy of Technical Bid as per Annexure-I, attachments along with Make/Model/Brand of the quoted item must be included by the bidders, failing which Technical Bid will be rejected.
3. The schedule of supply and specification of the items are enclosed in **ANNEXURE-II**. The rate should be quoted on F.O.R. basis at **ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata - 700120** as mentioned in the Tender Notice and specification.
4. Tender documents submitted through online should accompany PDF Copies of Demand Draft of EMD of ₹30,000/-. The EMD and Tender Cost in the form of Demand Draft payable at “ICAR Unit -CIFRI” payable at SBI, Barrackpore along with the documents mentioned at para 2 above duly authenticated by the Authorized personnel of the bidder may be sent to the Assistant Administrative Officer (Stores), ICAR-CIFRI, Barrackpore, Kolkata-700120 within last date of receipt of tender. In case of non-submission of EMD within specified time, quotation will not be considered. The EMD shall be returned to the successful and un-successful bidders as per rules without any interest thereon. The amount of EMD will be forfeited if supply is not effected during the given time and contract will stand cancelled. EMD is exempted for the bidders having MSME/NSIC Certificate.
5. Tender once submitted should remain valid at least for 90 (ninety) days for acceptance.
6. (a) The online bid should contain two envelopes containing the Technical Bid and Financial bid in the form of BOQ (Item-wise).

(b) The envelope containing authenticated documents and DD for EMD should be superscribed as “Tender for supply of Multi Parameter Water Quality Analyzer” as detailed in Notice Inviting Tender (NIT)

7. TENTATIVE DATES OF PROCESSING OF TENDER

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8.	Address for Communication	The Assistant Administrative Officer (Stores), ICAR-CIFRI, Barrackpore, Kolkata-700120

The venue of Pre-bid is ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata – 700120.

8. Rates quoted for the item should include the taxes/duties and transportation cost/delivery cost etc. (on FOR basis) of the items at the mentioned places. Taxes/ duties are to be mentioned in the BOQ and no subsequent claim for taxes/ duties etc. will be entertained separately.
9. The PDF copies submitted as Technical Bid on e-procurement portal and the hard copies of documents sent to the Institute should be legible. The mistake should be corrected by one stroke and initialed.
10. Make/Model/Brand along with all specifications of the quoted item must be included by the bidders in their Technical Bids both online and hard copies, failing which Technical Bid will be rejected.
11. Incomplete tender and bids not in prescribed format according to the terms and conditions as mentioned hereinabove shall be rejected forthwith.
12. Tax deduction at source will be made wherever applicable.
13. Payment will be released only against the pre-receipted bill indicating the Bank details of the supplier, to be submitted in triplicate within 30 days of supply and installation/commissioning of the item in good condition. Payment will be made through e-payment. The Performance Security of 10% of the cost of the equipment shall have to be submitted by the supplier, which should be valid at least for one year.
14. **LIQUIDITY DAMAGES:-**
 - i) In all cases of delay by the supplier in delivery of the materials or any or all of the goods or to perform the services forming the subject matter of this contract beyond the periods specified in purchase order, other than a delay (Force Majure), the buyer shall have the right without prejudice in its other remedies under this contract, to claim liquidated damages amounting to 0.5% per week of the delivery price of the delayed goods or performance of services for each week/month or part thereof of delay until actual delivery or performance. However such damages shall not exceed 10 % of the delivery price of

the goods or services of which the delivery or performance has been delayed.

ii) The supplier shall remit the amounts due to Buyer under clause (i) above, within 30 days of receipt of demand from the Buyer. If the supplier fails to make the payment within the period of 30 days, the Buyer shall have the right to recover it from other payments due to the supplier.

iii) In the event the buyer terminates the Contract, the Buyer shall also have the right to procure, upon such terms and in such manner as it deems appropriate, goods or services similar to those undelivered, and the supplier shall be liable to Buyer for any excess cost incurred by the Buyer for procuring such similar goods or services. However, the supplier shall continue performance of the contract to the extent not terminated.

15. The supplier will have to arrange for Road Permit/Way Bill if required for the supply of stores. All the documents required in this regard will be supplied by the Institute.

16. Resolution of disputes:

i) All disputes, these agreements or questions arising out of or in connection with this contract or relating to its construction or performance shall be settled amicably by mutual consultation. If after 90 days the parties have failed to resolve their disputes or differences by mutual discussions, the matter shall be referred by arbitration in accordance with the Arbitration and Conciliation Act 1996. The Arbitral tribunal shall consist of an arbitrator nominated by the Buyer and another nominated by the supplier. The third arbitrator shall be chosen by the two arbitrators so appointed by the parties and shall act as the presiding arbitrator. In case of failure of two arbitrator appointed by the parties to reach a consensus about the third arbitrator (Presiding arbitrator) within a period of 90 days from the appointment of the arbitrator appointed subsequently, the presiding arbitrator shall be appointed by the Indian Council of Arbitration. The decision of the majority of the Arbitrator shall be final and binding on the parties.

ii) The Parties shall continue to perform their obligations under this Contract during the conciliation/arbitration proceedings. The cost of arbitration (including the fees and expenses of the arbitrators) shall be shared equally by the parties, unless the award specifies otherwise.

iii) This article shall survive the termination of this contract.

17. The Director, ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata- 700 120, West Bengal reserves the right to accept or reject any or all the tenders either in part or in full without assigning any reasons whatsoever.

18. In pursuance of Notification No. 45/2017-Central Tax (Rate), dated 14th November, 2017 issued by the Department of Revenue, Ministry of Finance, Government of India, ICAR-Central Inland Fisheries Research Institute is an Autonomous Institute under Indian Council of Agricultural Research, Department of Agricultural Research, Ministry of Agriculture and Farmers' Welfare, Government of India and is fully (100%) funded by the Government of India and hence satisfies the Explanation (a) "**Public funded research Institution**" of the said notification for the purpose of availing exemption under Section 9 of the Central Goods and Services Tax Act, 2017 (12 of 2017). This Institute is a Department as mentioned in Sl. No. 3 of the Table contained in the aforementioned Notification and for purchase of the following items, viz.

(a) Scientific and Technical instrument, apparatus, equipment, Computer

(b) Accessories, parts, consumables and live animals

(c) Computer software, CD-ROM, recorded magnetic Tape, microfilm, microfiches

(d) Prototypes, the aggregate value of the prototypes received not exceeding ₹ 50,000/- in this Financial Year

the Institute is entitled to the Goods and Services Tax at the rate CGST @ 2.5% + SGST @ 2.5% OR IGST @ 5% to be levied on the price of the item as per aforesaid notification. The Director, ICAR-Central Inland Fisheries Research Institute issues suitable Certificate for purchase of aforementioned items in each case.

DETAILS OF THE AGENCY

ANNEXURE-I

1. Name & Address of Firm :
2. Trade License No. :
(Attach photocopy of document)
3. GST Registration No. :
(Attach photocopy of document)
4. Name and address of the owner of the Firm :
5. Phone/Mobile No. :
6. TAN/PAN Number :
(Attach photocopy of document)
7. Bank details of firm/Agency for making Payment
 - a) Name of the Bank & Branch :
 - b) Account Number :
 - c) IFSC Code :
 - d) MICAR Code No. :
8. Details of EMD:
 - a) Amount :
 - b) Demand Draft No. :
 - c) Issuing Bank :
 - d) Date of issue :
9. Annual turn over of the firm
(Attach photocopy of document)
10. Balance sheet of last Three (3) years (Attach copy)
Photo copy of Annual Tax return for last Three (3)
Years may be enclosed

Certified that the terms and condition are acceptable to me/us and I/we will abide by the terms and conditions of the contract/offer.

Place:

Date:
seal

Signature of owner with

Specification Details
Multi parameter water quality analyzer
(Multi reader device for Micro organism Detection)

Specifications:

- Sample Capacity: 1 ml/1 g in 10 ml water
- Incubation: Separated control each station 30°C-37°C-44°C (25-45°C +/- 0.5°C)
- Sensitivity: 1 CFU
- Optical wavelength: 480nm- 600nm
- Optical detector: Photo transistor
- Operation: Automated Scanning
- Detecting time: Each not more than 25 S
- Interface: Serial USB to PC/note book/laptop
- Software: User friendly software included with suitable display unit
- Data output: PDF/VCMS Format report
- Power requirement: Universal 90~240V 50-60 HZ
- Case dimension: Not more than 31x17x8 cm (WxLxH) + power adapter
- Weight: Not more than 1.5 Kg+ power adapter
- Storage: Room Temp. (15-32°C- humidity 20-90%)
- Parameters can be analysed: Total viable count, Coliform, Enterobacteriaceae, *Staphylococcus aureus*, *Pseudomonas aeruginosa*, Salmonella Spp. listeria Spp., Enterococcus(streptococcus),Fungi (e.g. aspergillums spp.), Yeast (e.g. saccharomyces spp.) and E-coli
- This instrument is capable enough for running 5 number of samples at a time

(Measurement of the physical and chemical parameters of water)

1. The instrument shall be capable of working in fresh, polluted or seawater.
2. The instrument should be GLP Compliance and should store 400 detailed GLP records.
3. The instrument shall be capable of measuring Depth (10m range), Barometric Pressure, Temperature, Dissolved Oxygen, Conductivity, pH-ORP, Turbidity, freshwater cyanobacteria and Chlorophyll . The instrument shall also have the capability of providing calculated outputs for Salinity, Total Dissolved Solids, Total Suspended Solids, and Resistivity & Specific Conductance.
4. The instrument shall have connectorized field replaceable probes with 4 universal Ports for Temperature/Conductivity, Dissolved Oxygen, pH and ORP, Turbidity sensors along with Total Algae sensor.
5. Total Algae sensor should be a dual channel sensor that should measure Chlorophyll and Blue green algae that is freshwater cyanobacteria.
6. For future use, the instrument shall be capable of connecting to a user replaceable field cable, lab probe or BOD style probe.
7. All sensors should be made of Titanium material and should be Digital smart sensors, should be automatically recognized by the instrument; the calibration value should be stored in the sensors.
8. The instrument shall be supplied with a PC software program which shall provide instrument communication, configuration, data download and data processing. Data shall be presented in both report and graphical form, and data statistics will be automatically generated and displayed for Min, Max, Mean and Standard Deviation. The software program shall be capable of exporting data in csv and txt formats.
9. The handheld instrument shall be supplied with hardware for connecting the instrument to a PC USB port.
10. The instrument shall be capable of PC communication via USB.

11. The handheld instrument shall supplied with Long-life battery to power handheld and sensors
12. The handheld instrument shall carry a 3 year warranty.
13. The cable assembly shall carry a 2 year warranty.
14. The instrument shall be water proof and rated IP-67 with or without the battery covered installed.
15. The handheld instrument shall have a Color display and backlit keypad allow for sampling in all lighting conditions.
16. The handheld instrument should have an inbuilt integrated GPS for logging location data of the site.
17. The handheld instrument shall be capable of storing Large memory (> 100,000 data sets) with extensive site list and Data ID tag capabilities
18. The instrument shall have an auto stabilization feature with user-inputted criteria.
19. The instrument shall be rubber over molded for easy grip.
20. The instrument and the sensor cable shall have compatible spec connector
21. Cable length to be supplied 100 m integrated with depth sensor

Sensor specification

Detailed Specifications			
Parameters and Sensor Type	Range	Accuracy	Resolution
Dissolved Oxygen Sensor Type: Optical Luminescence - Lifetime Method	0 to 500% 0 to 50 mg/L	0 to 200% ($\pm 1\%$ of reading or 1% air saturation, whichever is greater) 200% to 500% ($\pm 8\%$ of reading) 0 to 20 mg/L (± 0.1 mg/L or 1% of reading, whichever is greater) 20 – 50 mg/L ($\pm 8\%$ of reading)	0.1% or 1% air saturation (user selectable) 0.1 or 0.01 mg/L (user selectable)
Temperature Thermistor;	-5 to 70°C	$\pm 0.2^\circ\text{C}$	0.1°C
Turbidity (FNU, NTU) Nephelometric - Optical, 90° Scatter	0 to 4000 FNU	0 to 999 (0.3 or $\pm 2\%$ of reading, whichever is greater) 1000 to 4000 ($\pm 15\%$ of reading) Should have 1 to 3 Point Calibration	0.1 FNU
Conductivity* (μS , mS) Four Nickel Electrode Cell	0 to 200 mS/cm	0 to 100 mS/cm ($\pm 0.5\%$ of reading or 0.001 mS/cm, whichever is greater) 100 to 200 mS/cm ($\pm 1\%$ of reading) Should have 1 to 3 Point Calibration	0.001, 0.01 or 0.1 $\mu\text{S}/\text{cm}$ (range dependent)
Specific Conductance (μS , mS)	0 to 200 mS/cm	$\pm 0.5\%$ of reading or 0.001 mS/cm, whichever is greater	0.001, 0.01, 0.1 mS/cm
Resistivity	0 to 2 Mohms	$\pm 0.1\%$ Full Scale	0.001, 0.01, 0.1 ohms
Salinity Calculated from Conductivity and Temperature	0 to 70 ppt	$\pm 1.0\%$ of reading or ± 0.1 ppt, whichever is greater	0.01 ppt
pH (mV, pH units)	0 to 14 units	± 0.2 units Should have 3 Point calibration	0.01 units

Glass Bulb Combination Electrode; Ag/AgCl Reference Gel			
Total Dissolved Solids (TDS) (mg/L, kg/L, g/L)	0 to 100 g/L	User-Selectable TDS Multiplier (0.30 to 1.00; 0.65 default)	0.001, 0.01, 0.1g/L
Total Suspended Solids (TSS) (mg/L)	0 to 30000 mg/L	Calculated from Turbidity and User-Entered Correlation Points	0.01, 0.1 mg/L
Depth (m, ft) Pressure Transducer	0 to 10 m	±0.004 m (±0.013 ft)	0.001 m or 0.01 ft
Barometer (mmHg, inHg, mbar, psi, kPa, ATM) Piezoresistive Sensor	375 to 825 mmHg	±1.5 mmHg from 0 to 50°C	0.1 mmHg
Chlorophyll	0 to 400 µg/L chl	$r^2 \geq 0.999$ for Rhodamine WT across full range	0.01 µg/L chl
Phycocyanin	0 to 100 µg/L PC	$r^2 \geq 0.999$ for Rhodamine WT across full range	0.01 µg/L PC

(Printed on letter head of firm duly authenticated)

TO WHOM IT MAY CONCERN

We hereby certify that our firm M/s

.....

..... has not been black listed by any Government, or semi Government Department in India and has never been declared insolvent.

(Signature of the Firm with Seal)