



CAR - CENTRAL INLAND FISHERIES RESEARCH INSTITUTE
AN ISO 9000 : 2008 Certified Organization
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GST Identification No. (GSTIN) 19AAAGC0090D1ZX

No.1/1/2017-18/S/Equip/NMCG Ganga Project/

Speed Post
Dated : 13.02.2018

Sub : Quotation for purchase of 2 Nos. of Probe Based Water Quality Analyzer and one Spectrophotometer with Elisa Reader under NMCG Ganga Project – Reg.

Sir,

The Director, ICAR-CIFRI invites Quotation from the Manufactures/Authorized Dealers/ reputed firms for purchase of indented Instruments/Equipments as mentioned below.

Sl. No.	Name of the equipment	Quantity	Amount of EMD	Place where to be Delivered*
1	Probe Based Water Quality Analyzer	2 Nos.	Rs.1,00,000/-	H.Q. & Allahabad (one each)
2	Spectrophotometer with Elisa Reader	1 No.	Rs.35,000/-	H.Q., Barrackpore

Detailed Specifications attached in Annexure-I

Therefore, you are requested to submit your Quotation in **Two Bid System (Technical/Commercial Bid and Financial/Price Bid)** in sealed cover to this office on or before **06.03.2018** up to 14.00 hrs.

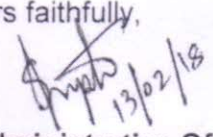
Terms & Condition :

1. The quotation in sealed cover should have the following superscription on the left corner of the envelope "**Quotation for purchase of Instruments under NMCG Ganga Project.**"
2. The last date of submission of quotation is up to **14.00 hrs. on 06.03.2018.**
3. The quotation may be submitted in the stores section of this Institute (**TENDER BOX**) or it may be sent through post addressed to the **Assistant Administrative Officer (Stores), ICAR-CIFRI, Barrackpore, Kolkata-700 120.**
4. The rate quoted should indicate clearly including Transportation charges up to the installation site, Taxes & Duties or any other charges.
5. This Institute will not be responsible for any loss or damage during transit.

Contd.....2

6. Payment will be made through e-transfer after satisfactorily supply and installation of ordered items at H.Q., Barrackpore and Allahabad Centre of this Institute. Pre-receipted bill in triplicate along with Challan etc. will be submitted duly signed by the indenter for making payment. Please furnish your Bank Details along with the Bill duly signed by the Bank Authority (Mandate Form) for making payment through e-transfer (RTGS).
7. **Liquidity Damages :**
An amount at the rate of 0.5% per week or part thereof subject to a maximum of 10% of the cost will be collected from you for delayed supply/delivery.
8. Validity of quotation, payment terms, delivery period etc. may be mentioned clearly in the quotation.
9. Please furnish the copy of PAN No., copy of GST Registration/copy of valid dealership/ authorization Certificate from the manufacturer of your firm along with the Quotation, otherwise the quotation will not be accepted..
10. Make/Brand of quoted item must be indicated by the bidders, failing which bid will be rejected
11. EMD as mentioned above in form of Demand Draft drawn in favour of ICAR Unit - CIFRI Barrackpore must be sent to the Assistant Administrative Officer (Stores), ICAR-CIFRI, Barrackpore, Kolkata – 700 120 along with the Technical Bid 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. The amount of EMD will be forfeited if supply is not effected during the given time and contract will stand cancelled.
12. Tender once submitted should remain valid for 90 (ninety) days for acceptance.
13. The schedule of supply and specifications of the items and the rate should be for F.O.R., H.Q., Barrackpore and Allahabad Centre as mentioned above.
14. Rates quoted for the items should include the taxes/duties and transportation cost/delivery cost etc. (on FOR Basis) of the items. Taxes/duties are to be included in the price and no subsequent claim for taxes/duties etc. will be entertained separately.
15. 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.

Yours faithfully,


Assistant Administrative Officer
(Stores)

Contd.....3

- Copy to : 1. The Incharge, AKMU Cell, ICAR-CIFRI, Barrackpore for uploading the Quotation to the Institute's Website for well circulation to the Bidders.
2. Mrs. K. Sucheta Majumder, Nodal Officer, e-publishing for uploading the quotation to e-publishing portal for well circulation to the Bidders.

ANNEXURE-I

I. Specification of Probe Based Water Quality Analyzer

The instrument should be able to analyze the following water parameters in field using handheld meter through probe based sensors

- | | |
|---------------------------------|---|
| 1. Temperature | 9. Salinity |
| 2. pH | 10. Fluorescent Dissolved Organic Matter (fDOM) |
| 3. ORP | 11. Chloride |
| 4. Conductivity | 12. Ammonium |
| 5. Depth | 13. Nitrate |
| 6. Dissolved Oxygen (optical) | 14. Chlorophyll |
| 7. Turbidity | 15. Freshwater Blue-Green Algae -Phycocyanin |
| 8. Total Dissolved Solids (TDS) | |

Sensor specifications

	Sensor	Range	Resolution	Accuracy / Repeatability
1.	Temperature	-5 to 50°C or more	0.1 °C or better	±0.5°C or better
2.	pH	0 to 14	0.01 or better	±0.1 or better
3.	ORP	±999 mV or more	0.1 mV or better	±20 mV or better
4.	Conductivity	0 to 200 mS/cm	Scale dependent	±1% of reading or better
5.	Depth	0 to 99.99 m or more	1 cm or better	±0.2% or better
6.	Dissolved Oxygen (Optical)	0 to 50 mg/L	0.01 mg/L	0 to 20 mg/L: ±1% of reading; 20 to 50 mg/L: ±10% of reading or better
7.	Turbidity	0 to 3000 FNU / NTU or more	Scale dependent	±5% of reading
8.	Total Dissolved Solids (TDS)	0 to 100,000 mg/L	Scale dependent	±1% of reading
9.	Salinity	0 to 70 ppt	0.01 ppt	±1.0% of reading
10.	Fluorescent Dissolved Organic Matter	0 to 300 ppb or more (Quinine Sulfate)	Scale dependent	±10% of reading or better
11.	Chloride	0 to 18000 mg/L-Cl or more	Scale dependent	±15% of reading or better
12.	Ammonium	0 to 200 mg/L or more	Scale dependent	±10% of reading or better
13.	Nitrate	0 to 200 mg/L-N or more	Scale dependent	±10% of reading or better
14.	Chlorophyll	0 to 400 µg/L Chl or more	Scale dependent	±10% of reading or better
15.	Freshwater Blue-green Algae Phycocyanin (PC)	0 to 100 RFU / 0 to 100 µg/L PC /0 to 3 lakhs cells/ml	0.01 RFU / 0.01 µg/L PC / 1 cells/ml	±10% of reading or better

Meter specification

- Handheld device for field use
- GPS linking of datasets
- Display for live data viewing and recording
- Continuous recording / saving / viewing facility in PC / laptop via USB / bluetooth

Probe

- Includes sufficient number of ports for sensors of all the above mentioned parameters
- Wiper system to keep electrodes clean

Accessories

- Cables – two lengths, 3 m and 10 m approx
- Calibration standards for all the sensors / parameters
- Anti-fouling / self cleaning components
- Rechargeable battery with charger
- Sensor guard
- One laptop and one portable printer for on-field record of data as per specification given below
- Carrying cases for all the accessories for easy carrying to the field

Specification of laptop to be supplied with the analyzer

- Ram : - 16 GB DDR4 2133 Mhz
- Hard disk : - 1TB
- Processor :- Core i7 6th Generation
- Graphics card :- 2/4 GB Nvidia/AMD Graphics card
- Screen Size : - 15.6 Inch
- B&O sound engine
- USB 3.0
- DVD drive
- Wireless mouse
- Antivirus
- Windows 10 Ultimate 64 Bit Operating system.

Specification of portable printer to be supplied with analyzer

Print	
Speed	Black (draft, A4): On AC: up to 20 ppm; On Battery: up to 18 ppm; Colour (draft, A4): On AC: up to 19 ppm; On Battery: up to 17 ppm;
First page out (A4, ready)	Black: On AC: as fast as 11 sec; On Battery: as fast as 11 sec; Colour: On AC: as fast as 13 sec; On Battery: as fast as 14 sec
Resolution	Black (best):Up to 1200 x 1200 rendered dpi (when printing from a computer); Colour (best): Up to 4800 x 1200 optimised dpi colour
Wireless capability	Yes. Wireless, wifi direct & BLE
ePrint capability	Yes
Auto wireless connect	Yes
Mobile printing capability	Yes
Energy savings technology	Auto-Off Technology
Scan	
Type	Sheet-feed
Technology	Contact Image Sensor (CIS)
Speed	Up to 8 ppm black/white or grayscale; up to 3.6 ppm colour
Resolution	Hardware: Up to 600 x 600 dpi; Optical: Up to 600 dpi;
Max scanning size	ADF: 216 x 356 mm
Input modes	Front-panel scan, copy; apps in mobile device
Grayscale levels	256
Bit depth	24-bit
File format (Scan File Type supported by Software)	Bitmap (.bmp), JPEG (.jpg), PDF (.pdf), PNG (.png), Rich Text (.rtf), Searchable PDF (.pdf), Text (.txt), TIFF (.tif)
Copy	
Speed	Black (best, A4): On AC: up to 2 ppm; On Battery: up to 2 ppm;

