



**CAR - CENTRAL INLAND FISHERIES RESEARCH INSTITUTE**  
**AN ISO 9000 : 2008 Certified Organization**  
**Barrackpore, Kolkata-700 120, West Bengal**  
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**GST Identification No. (GSTIN) 19AAAGC0090D1ZX**

No.1/1/2017-18/S/Equip/Biofermenter/HQ/

**Speed Post**  
Dated : 26.02.2018

Sub : Quotation for purchase of 1 No. of **Biofermenter** under Institute Fund – 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	Biofermenter	1 No.	Rs.35,000/-	H.Q.at 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 **13.03.2018** up to 14.00 hrs. The bids will be opened on the same day at 15.00 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 Biofermenter under Institute Fund**".
2. The last date of submission of quotation is up to **14.00 hrs. on 13.03.2018**.
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.

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6. Payment will be made through e-transfer after satisfactorily supply and installation of ordered items at H.Q., Barrackpore 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)**

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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**

#### **Specification of Biofermenter**

- Compact CE certified Fermenter – working volume about 5 Litre.
- Brushless maintenance free motor, top drive, stirrer speed: 20-1000 rpm approx (accuracy  $\pm 3$ ).
- With foam sensor and control, pitched/rusthon impeller.
- Temperature: programmable from +3°C to 60°C.
- Should have pH sensor and controller (pH range 2-12, accuracy  $\pm 0.1$  ).
- Should have sterilizable DO Sensor and controller (DO range: 0- 100%, error < 0.5%).
- CO2 sensor with control range 0-50%.
- Automatic air flow control, supply 0-20 lpm approx. Aeration and exhaust lines with stainless steel filter housing and 0.2 um sterile membrane filter.
- Should have mass flow controller with 3 or 4 gas mix control and sparger.
- 4 Nos. Peristaltic pumps for control of acid, base, foam and feed.
- With color display and control of all vital parameters like agitation, temp., pH, DO, CO<sub>2</sub>, foam, pump, automated gas mixing algorithms for simplified control, initializing a batch, data acquisition, data export to convenient windows based program, audio-visual alarm for most of the set parameters, automatic shutdown in high foam condition etc.
- Suitable water chillier-circulator, Suitable online UPS with 30 minute back-up.
- Should include spares like sufficient numbers of feed bottle with disposable filter, silicone tube 50 meters, sufficient no of O-rings, septa, SS clamp, etc. for smooth running of the system for 5yrs.
- For operation at 230 Volts/ 50 Hz, AC main.