



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/Biofermenter/H.Q./

Speed Post
Dated : 20.01.2018

Sub : Quotation for purchase of one Biofermenter at H.Q., Barrackpore – 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.37,500/-	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 **12.02.2018** 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 Biofermenter."**
2. The last date of submission of quotation is up to **14.00 hrs. on 12.02.2018.**
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 satisfactory supply and installation of ordered items at H.Q., Barrackpore. 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 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,

[Signature]
120/01/18

**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

Biofermenter - Technical Specification

- Compact, floor standing, CE certified fermenter having about 15 litre capacity and more than 10 litre working volume. Suitable for fermentation and cell culture. Capable of batch and continuous process.
- With double walled stainless steel culture vessel, and in-situ steam sterilizer having safety valves, auto level sensor, online steam filter etc. Auto sterilization with pressure control and measurement.
- The product should be certified SS AISI 316L, $Ra \leq 0.8 \mu m$. Housing SS AISI 304 or better.
- SS DCU controller with integrated gassing system.
- Temperature: programmable from 0-150°C (error <0.3%), measurement from 5 to 50° C or higher in culture vessel.
- Brushless maintenance free motor, top drive, stirrer speed: 20-1000 rpm approx., accuracy ± 3
- Should have pH sensor and controller (pH range 2-10, accuracy ± 0.1) via addition of acid and base, 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 μm sterile membrane filter.
- With foam sensor and control, 4-6 blade pitched/rusthon blade impeller, removable, made of SS 316 or better.
- Should have one mass flow controller with 3 or 4 gas mix control and sparger.
- Should have minimum four bi-direction peristaltic pumps operable at fixed and variable speed.
- With color display of all vital parameters like agitation, temp., pH, DO, CO₂, etc. for current and set values on touch screen or computer (i7 processor, 500 GB HDD, Windows 10 OS original, DVD RW, 4 GB RAM, TFT monitor). SCADA based software having the following facility: control and calibration of temp., pH, rotation, DO, foam, pump, automated gas mixing algorithms for simplified control, initializing a batch, data acquisition, set point control, manual data entry in batch information, output in graphics or text mode, compare data between present and old runs, recipe based algorithms, data export to convenient windows based program, audio-visual alarm for most of the set parameters, automatic shutdown in high foam condition etc.

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- Supplied with compatible air compressor
- To run at 230V, 50-60Hz, AC.
- Should include accessories/consumables 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 5-10 yrs.
- Warranty and service: Three years comprehensive warranty that includes replacement of corrupt/damaged parts and labor.
- Accessories (Optional): Water chillier-circulator (capacity >6 litre, temp. range 5-15°C, 15 lsm), Suitable online UPS with 30 minute back-up, Laser printer (B&W, print speed: up to 25 ppm, 1200 x 1200 dpi, automatic duplex printing).