

ICAR-CENTRAL INSTITUTE OF FISHERIES EDUCATION

(University under Sec. 3 of UGC Act, 1956)

Indian Council of Agricultural Research

**Panch Marg, Off Yari Road, Versova, Andheri (West),
Mumbai-400061**

Tel. No. 022-26361446/7/8

Fax No. 022-26361573

Web Site: www.cife.edu.in



QUOTATION DOCUMENT



QUOTATIONS FOR EQUIPMENTS

UNDER

National Agricultural Higher Education Project



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F. No.49(18)/Master File /File/2019-20

Date: 11.11 .2019

The Director, ICAR-Central Institute of Fisheries Education, Ministry of Agriculture and Farmers' Welfare, Government of India, invites most competitive quotations in sealed envelope under National Agricultural Higher Education Project "NAHEP" for the following Equipment from the reputed Indian / Foreign manufacturers and / or their accredited /sole authorized distributors /dealers-

Item no.	Particular	QTY
01	Gas Chromatography	1
02	Solar Panel	1
03	Solar Aerator	2
04	Animal Mode Balance	1

TERMS & CONDITIONS OF QUOTATIONS

1. The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
2. Quotations must be submitted in the original prescribed form separately for each equipment with rates for delivery in the places mentioned in the document duly addressed to the Director, ICAR-CIFE, Mumbai-400061 in a sealed cover super scribing as **QUOTATION FOR EQUIPMENT FOR THE YEAR 2019-2020 UNDER NATIONAL AGRICULTURAL HIGHER EDUCATION PROJECT (NAHEP)** with the Item no. and Name of equipment.
3. All duties, taxes and other levies payable on the raw materials and components shall be included in the total price.
4. In case the date of issued/receipt of opening of quotation is declared as Holiday for unexpected reasons, the quotation will be issued /received/opened on the next working day at the same time. The quotation documents are non-transferable. Director of the institute reserves the right to accept/reject any or all the quotations without assigning any reason thereof.
5. Quotations received **after the DUE DATE and TIME** will not be accepted in any circumstances.
6. The schedule to the quotation form should be submitted in prescribed format only.
7. Only one quotation should be included in one envelope. Where more than one quotation is included in an envelope, all quotation so enclosed in one envelope will be liable to be ignored.
8. Prices for extended warranty for one year and two years should be given separately. However decision about the warranty will be taken by purchaser at later stage.
9. No EMD and Tender fee are applicable.
10. 5% of total cost of equipment has to be submitted in form of F.D./ Demand Draft as security deposit.

11. LATEST HOUR FOR RECEIPT OF QUOTATION

Unless otherwise specified in the schedule to quotation, your quotation must reach this office not later than 13.00 hrs. on the date of **02.12.2019** of the quotation. Quotation sent by hand delivery should be put in the quotation box kept in **NAHEP Office, 2nd floor, Room no. 225** located at Yari Road Campus of ICAR-CIFE, not later than 13.00 hrs. on the due date unless otherwise stipulated in the schedule to tender.

12. OPENING OF QUOTATION:

You are at liberty to be present or authorize a representative to be present at the time of opening of the quotation at the time and date as specified in the schedule. The name and address of the representative who would be attending the opening of the quotation on your behalf, should be indicated in your quotation. Please also state the name and address of your permanent representative, if any.

**For and on behalf of
ICAR-Central Institute of Fisheries
Education
Panch Marg, Off Yari Road, Versova
Andheri (West), Mumbai-400061**

Signature



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Date: 11.11.2019

1. Issue of Quotation Document on	11.11.2019
2. Last date for issue of tender document on	02.12.2019
3. Date of Pre-bid meeting at 15.00 hrs on	18.11.2019
4. Acceptance of sealed tenders till 13.00 hrs on	02.12.2019
5. Opening of tender at 15.00 hrs on	02.12.2019

Name of the equipment: _____

Item No. : _____

QUOTATIONS FORM HAS TO BE SUBMITTED SEPARATELY IN SEALED ENVELOPES

To,

M/s.

.....

Sub: Supply of Quotation Form - reg.

Dear Sir,

Please find enclosed herewith the quotation form along with detailed specifications for the supply of equipment's mentioned in Annexure – 1.

Kindly acknowledge the receipt of the same.

Yours faithfully

Senior Administrative Officer

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(To be returned by Bidders along with the quotation duly completed and signed)

Name of Equipment: _____

Item No. : _____

Sl. No.	Description of Goods	Specifications	Qty.	Unit	Quoted Unit Rate in Rs.	Total Amount	
						In Figures	In Words
	Please refer Annexure – 1	* **	*	*	*		
Total							
Sales Tax							

****Prices for extended warranty for one year and two years should be given separately**

Gross total cost _____ (in figures)
(_____

_____ (in words).

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. _____ (amount in figures) (Rs. _____ amount in words) within the period specified in the Invitation for Quotations.

We also confirm that the normal commercial warrantee/guarantee of _____ months shall apply to the offered goods.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

We also confirm that the normal commercial warranty/guarantee of _____ months shall apply to the offered goods.

Supplier Name :

Signature : _____

Date :

INVITATION FOR QUOTATIONS FOR SUPPLY OF GOODS UNDER NATIONAL SHOPPING PROCEDURES

To

Dear Sir,

Sub : INVITATION FOR QUOTATIONS FOR SUPPLY OF FOLLOWING EQUIPMENTS

1. You are invited to submit your most competitive quotation for the following goods:-

Brief description of the Goods	Specifications*	Quantity	Delivery Period	Place of Delivery	Installation Requirement if any
Gas Chromatography		1	30 days	HQ CIFE, NEW CAMPUS	Yes
Solar Panel		1	30 days	CIFE CENTRE, ROHTAK, HARYANA	Yes
Solar Aerator		2	30 days	CIFE CENTRE, ROHTAK, HARYANA	Yes
Animal Mode Balance		1	30 days	HQ CIFE, NEW CAMPUS	Yes

***Package: items to be supplied together as package**

Annexure - 1

TECHNICAL SPECIFICATION:

Item No. 1 Gas Chromatography with ECD, FID, TCD detector and methaniser (1 no.). To be delivered at HQ ICAR-CIFE, NEW CAMPUS, Mumbai

Application

Gas Chromatograph (latest model) for analysis of greenhouse gases in air samples (e.g. carbon dioxide, methane, nitrous oxide) with suitable columns and provision for both automatic and manual injecting sample having the following lower and upper detection limits

- Carbon dioxide: 1 ppm to 2%
- Methane: 1 ppm to 10%
- Nitrous oxide: 50 ppb to 100 ppm

GC OVEN

Temperature range: ambient + 4°C to 400 °C and above user selectable with faster cool down time

Oven Size: can accommodate all required columns and for easy fixing and removing different types/dimension of columns without compromising rate of heating or cooling of oven with light for easy replacement of columns

PNEUMATICS:

- Microprocessor based latest version GC (with advanced pneumatics, MSD ISO 9001 certified with large Graphical LCD display to view Chromatogram on the LCD and built in GC System check and self-diagnostic function.
- EPC/AFC/PPC for injectors with single point control via software.
- Automatic leak testing, system must have automatized pneumatic controls for all gases like carrier gas, make up gas, detector gas, etc.
- Future upgradability should be possible for other detectors and headspace sampler
- Complete system can be fully controlled by PC software
- Carrier and makeup gas must be selectable to He, N₂, H₂ and Argon/Methane.
- System must have factory fitted & tested for back flushing & column switching/changing along with the system software acquires chromatograms from all the detectors simultaneously with one injection only.

INJECTOR

- Multi port gas sampling valve with auto injector facility from tedlar bag or gas tight syringe

DETECTORS :

Electron capture Detector (ECD)-01

Temperature range: 400°C or better

FID DETECTOR - 01

Temperature range: 400°C in 1°C increments.

FID with methanizer temperature 400°C

Columns

Suitable columns 2 numbers each to analyze the greenhouse gases

Software specifications

Latest operating system compatible workstation, original licensed software from the same manufacture only which includes complete GC control, Multi channel real time chromatographic data acquisition and post-run analysis. It should also include high speed data acquisition and bulk analysis compatibility, full qualitative & quantitative processing functions, multi-function compatibility, Audit Trail, Validation Assistant, System Suitability,

QA/QC functions, All-in-one file configuration for easy data transfer, customized report generator, networking capability, data management etc.

ACCESSORIES

- Vial crimper & decapper
- A vial evacuation system to evacuate ≥ 10 sample vials at a time.

Necessary consumables/accessories

- 20/22 ml vial with cap, septa and storage box (1000 qty), Nickel catalyst (1 qty), Liner for injector port (5 qty), Septa for Injector port (100), Vacuum Pump Oil (1 qty), Leak Test kit (1 qty), Tedlar bags (50 nos)
- Electronic vial crimper & decapper which has rechargeable battery along with accessories.
- A purging system to purge the vial/tedlar bags
- Gas Cylinders along with certificate of gas and cylinder for nitrogen, hydrogen, zero air, helium with double stage SS Regulators

Pre-installation requirements

All the necessary pre-installation requisites required for the complete installation of the system.

Note:

1. Installation and training of one or two weeks should be provided free of cost.
2. Warranty and maintenance a. The complete instrument should be under warranty at least for a period of one year from the date of installation. Additional cost, if any for extended warranty of three years may be quoted.
3. Spare parts 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.

Pre-Qualification Criteria

The vendor/manufacturer must submit their bid covering all the items.

- ✓ Supplier must attach a reference list of supplies of the same item in last 5 years with contact details (Name, Phone, email address) of at least 10 users

Item No. 2 Solar Panels, To be delivered at ICAR-CIFE Centre, Rohtak, Haryana

5 kwatt Hybrid Solar Power Plant

- Solar PV Power Panels- 320 W, 72 Cell, 5000-WATT PANEL
- Inverter (1 No)- 5kw, Solar Hybrid 1 phase with grid export feature
- Panel Mounting Structure- GI Stand, Customized solutions as per location
- Solar Cables and Wires,
Junction Boxes, SPDs, MCBs,
Connectors, screw and Bolts- IEC Tested and Certified, UV protected, AC Side,
DC Side
- Earthing Kits and Lighting
- arrestors Connectors- As per CEI and GERC regulations, Standard make
- Battery Bank- 180 Ah/12v x 4Nos.

- Design, supply, erection and commissioning of a grid tie hybrid solar PV power generation plant with standard lengths of wires. The solar power plant will consist of required no. of SPV panels, inverter and with all the electrical items suitable to designed installed capacity.
- Civil Work (Mounting, erection and commissioning)- Included
- Power Evacuation (Solar plant to the mains meter)- Included
- Farthing kits and Lighting arrestors- Included
- On site general service and maintenance for 1 year- Included
- Cost of materials including taxes, installation cost and 1-year service and preventive maintenance at ICAR-CIFE, Rohtak Centre, Haryana.

Item No. 3 Solar Aerator (2 nos.). To be delivered at ICAR-CIFE Centre, Rohtak, Haryana

S. No.	Item	Specification	Quantity
1	Solar Aerator	Module Mounting Frame 48V/2HP DC Motor 4 Paddle wheel aerator with Bevel/ worm gear box (complete set) 48V/40Amps Charge controller 12 V, 150Ah (4 nos.) with all the accessories	2 nos.

Item No. 4 Animal mode balance (1no.). To be delivered at HQ ICAR-CIFE, NEW CAMPUS, Mumbai

- Maximum Capacity $\leq 4.5\text{kg}$
- Readability - 10 mg
- Tarring range 0...4500 g
- Repeatability 8 mg
- Linearity 20 mg
- Eccentric Load 30 mg
- Adjustment with internal weights FACT, fully automatic calibration technology
- Adjustment with external weights custom weights
- Sensitivity Accuracy $\leq 1.5 \times 10^{-5} \cdot R_{nt}$

- Temperature Coefficient of \leq Sensitivity $\leq 3 \times 10^{-6} / ^\circ\text{C} \cdot \text{R}_{\text{nt}}$
- Sensitivity Stability $1.5 \times 10^{-5} / \text{a} \cdot \text{R}_{\text{nt}}$
- Settling time (typical) 1.2 s
- Update rate of the interface 23/s
- Dimensions of the balance 366 x 194 x 96 mm (W x D x H)
- Size of weighing pan 170 x 205 mm (W x D)

Address of Delivery location:

- ICAR-Central Institute of Fisheries Education (New Campus), Panch Marg, Off Yari Road, Versova, Andheri (West), Mumbai-400061
- **Centre In charge**
ICAR-CIFE, Rohtak Centre, Lahli, Via Anawal, Rohtak – 124 411, Haryana