

E-5

**PROCUREMENT OF GOODS
THROUGH
REQUEST FOR QUOTATION
(RFQ)/SHOPPING PROCEDURES**

*(For Contracts valued less than the
equivalent of US \$100,000 each)*

SEPTEMBER, 2023

REQUEST FOR QUOTATIONS
Procurement of Goods under RFQ/Shopping Procedures
Procurement Notice

PURCHASER : The Director (CWGS) & Nodal officer (TN IAMP), Centre for Water and Geospatial Studies, TNAU, Coimbatore - 03

CONTRACT TITLE : Procurement of Gas Chromatograph System with FID and ECD detector to estimate greenhouse gases (GHGS) in rice growing areas of different sub basins across Tamil Nadu

RFQ No : **R/22/TNIAMP/TNAU/CELL/GOODS/PHASEI/22-23**

DATE : **01.09.2023**

Applicable Procurement Regulations Date: July, 2016 revised August, 2018

1. The Government of India has received financing from the World Bank in various currencies towards the cost of the Tamil Nadu Irrigated Agriculture Modernization Project and intends to apply part of the proceeds towards eligible payments under the contract for which this request for quotations is issued. **The Director (CWGS) & Nodal officer (TN IAMP), Centre for Water and Geospatial Studies, TNAU, Coimbatore – 03** invites quotations from eligible bidders for the following goods.

Sl. No.	Brief Description of the Goods	Specifications	Unit & Quantity (No's)	Delivery Period	Place of Delivery	Installation Requirement if any
1	Gas Chromatograph System with FID and ECD detector	Annexure - I	1	30 days from the date of Supply Order	Centre for Water and Geospatial Studies, TNAU, Coimbatore -03	

2. The Bidders may submit Quotations for any items.
3. This Procurement notice includes the terms and conditions applicable to submission of quotations; criteria for qualification, evaluation, and for award of supply order(s); and relevant forms to be filled by the bidders. The Procurement notice including the terms and conditions etc. can be downloaded free of cost by logging on to the website www.tnau.ac.in. In such cases the bidder would be responsible for ensuring that any addenda available in website is also downloaded and incorporated.
4. Deleted

5. Quotations shall be submitted to **The Director (CWGS) & Nodal officer (TN IAMP), Centre for Water and Geospatial Studies, TNAU, Coimbatore - 03** on or before **3.00 PM hours on 15.09.2023 through post or courier**. The Quotations will be opened (at the same address of quotation submission) on **15.09.2023 at 3.30 PM hours**.
6. If the Purchaser's office happens to be closed on the date of opening of the Quotations as specified, the Quotations will be opened on the next working day at the same time and venue.
7. Other details can be seen in the RFQ document. The Purchaser shall not be held liable for any delays due to postal or any other reasons whatsoever. A Bidder requiring any clarification of the RFQ Document may visit the office of the Purchaser at the address given below.

Handwritten signature
11/9/23
15/9/23

Handwritten signature
11/9/23

**The Director (CWGS) & Nodal officer (TN IAMP)
Centre for Water and Geospatial Studies,
Tamil Nadu Agricultural University,
Coimbatore - 03
Phone No: 0422 6611478**

4. Quotation Prices

- a) The contract shall be for the full quantity of each item, as specified in the Price Quotation Form.
- b) All duties, taxes and other levies payable on the raw materials and components shall be included in the total price.
- c) GST and any other taxes, which will be payable on the goods at the time of invoicing in connection with the sale, shall be shown separately. If these are only stated to be extra, such quotations are liable to be rejected. Wherever these taxes are not shown, these will be assumed to have been included in the quoted price.
- d) 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.
- e) The Prices shall be quoted in Indian Rupees only (INR).

5. Conformity of Goods: Bidder shall furnish, documentary evidence that the Goods conform to the technical specifications and standards, as relevant for example catalogue, warranty / guarantee etc. of the manufacturer

6. Qualification of the Bidder:

(a) Bidder should have supplied goods of similar type (& capacity) up to at least 100% quantity in any one of last 3 years. Details of supplies made during the last 3 years shall be submitted in the specified Proforma. At least 40 % of the quantity in case of equipment offered for supply should have been in successful operation for at least one year as on date of quotation opening.

(b) Supplies for any particular item in each quotation should be from one manufacturer only. Quotations offering supplies from different manufacturers for the same item in the quotation will be treated as non-responsive.

7. Validity of Quotation: Quotation shall remain valid for a period not less than 15 days after the deadline date specified for submission.

8. Signing of Quotations: The name and position held by each person signing the quotation and related documents must be typed or printed below the signature.

9. Quotation Submission: The Letter of Quotation shall be filled, signed and submitted along with the Price Schedules that shall be furnished using the Forms available in this document.

10. Opening and Evaluation of Quotations: The Quotations will be opened on the specified date, time and place.

- (a) The Purchaser shall examine the quotation to determine whether the quotation (a) has been properly signed (Clause 8); b) meets the eligibility criteria (Clause 1); (c) conforms to all terms, conditions, technical specifications, warranty/guarantee etc.; and (d) the bidder has accepted the delivery schedule (Purchaser's Requirement Form 1).

- (b) Only Quotations that are substantially responsive to the RFQ document, and meet all Qualification Criteria shall qualify.
- (c) The evaluation shall be based on the total price of Goods and Related services at project site including GST and any other taxes, which will be payable on the finished goods at the time of invoicing.

11. Award of contract: The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

- (a) Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.
- (b) The bidder whose quotation is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the supply order (sample form attached).
- (c) 100% Payment shall be made immediately after delivery of the goods. Payment of GST and other taxes payable for the goods at the time of invoicing, although already included in the total cost, will be at actuals or the rate/amount of these taxes specified in the supply order, whichever is lower.
- (d) Normal commercial warranty/ guarantee shall be applicable to the supplied goods.

Quotation Forms

Letter of Quotation

The Bidder must prepare the Letter of Quotation on stationery with its letterhead clearly showing the Bidder's complete name and address. The italicized text is for Bidder's guidance in preparing these forms and shall be deleted from the final products.

RFQ No.: *[insert identification]*

Our Reference: No..... Dated.....

To:
(Purchaser's name and address)

Subject: Supply of

Sir,

1. We, the undersigned, hereby submit our Quotation. In submitting our Quotation, we make the following declarations:

- (a) **No reservations:** We have examined and have no reservations to the RFQ Document;
- (b) **Conformity:** We offer to supply in conformity with the RFQ Document and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods and Related Services *[insert a brief description of the Goods and Related Services]*;
- (c) The total price of our Quotation, including any unconditional discounts offered is:
Total price of the Quotation *[insert the total price of the quotation including GST and any other taxes, which will be payable on the finished goods, in words and figures]*;
- (d) **Commissions, gratuities and fees:** We have paid, or will pay the following commissions, gratuities, or fees with respect to the Bidding process or execution of the Contract: *[insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity. If none has been paid or is to be paid, indicate "none."]*
- (e) **Quotation Validity Period:** Our Quotation shall be valid for the period of 15 days, from the deadline fixed for the Quotation submission;
- (f) **Eligibility:** We meet the eligibility requirements and have no conflict of interest, we are not participating in more than one quotation in this bidding process, and we have not been temporarily suspended or debarred by the World Bank.
- (e) **Fraud and Corruption:** We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in any type of corrupt, fraudulent, collusive, coercive, or obstructive practices.

Yours faithfully,

Authorized Signature

Name & Title of Signatory _____

In the capacity of *[insert legal capacity of person signing the Letter of Quotation]*

Name of Bidder _____

Address _____

Dated on _____ day of _____, _____ *[insert date of signing]*

FORMAT OF QUOTATION

Sl. No.	Description of Goods	Specifications	Qty.	Unit	Quoted Unit Rate ² at destination in Rs.	³ GST and similar other taxes applicable on finished Goods/ Services	*Total Price per line item at Destination - inclusive of discounts, all taxes and duties	
							In Figures	In Words
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
TOTAL including all taxes and duties								

² Any unconditional discounts if offered, shall be specified in this column along with the unit rates.

³ Indicate each applicable tax separately.

Note: Evaluation shall be done for *each item separately*

** Payment of GST and other taxes payable for the goods at the time of invoicing, although already included in the total cost, will be at actuals or the rate/amount of these taxes specified in the supply order, whichever is lower.*

We agree to supply the above goods in accordance with the technical specifications for a total contract price (including all taxes and duties) of Rs. (Amount in figures) (Rupees.amount in words) within the period specified in the Request for Quotations.

We also confirm that the normal commercial warranty/guarantee ofmonths 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 has engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices (as defined in the prevailing World Bank's sanctions procedures) in competing for or in performing the Contract.

Signature of Bidder

PROFORMA FOR PERFORMANCE STATEMENT*

Proforma for Performance Statement (for a period of last 3 years)

RFQ No. _____

Date of opening _____

Time _____ Hours

Name of the Bidder _____

<u>Order placed by</u> <u>(full address of</u> <u>Purchaser)</u>	<u>Order No.</u> <u>and date</u>	<u>Description and</u> <u>quantity of</u> <u>ordered Goods/</u> <u>equipment</u>	<u>Value of order</u>	<u>Date of completion of</u> <u>delivery</u>		<u>In case of Equipment, state</u> <u>if the equipment been</u> <u>satisfactorily functioning?</u> <u>(Attach a certificate from</u> <u>the Purchaser/Consignee)</u>
				As per contract	Actual	
1	2	3	4	5	6	8

Note: The above proforma should be submitted for the evaluation of goods except for Field Water Tube and Groundnut Long Hand Hoe, otherwise the quotation will not be considered for evaluation.

Signature and seal of the Bidder

Purchaser's Requirement

1. LIST OF GOODS & RELATED SERVICES AND DELIVERY PERIOD

Line Item No.	Description of Goods and Related Services	Quantity (No's)	Physical unit	Final Destination (Project site)	Desired Delivery Period for completion of supply from the date of the Contract	Bidder's offered Delivery Period <i>[to be provided by the Bidder]</i>
1	2	3	4	5	6	7
1	Gas Chromatograph System with FID and ECD detector	1	No	The Director, Centre for Water and Geospatial Studies, TNAU, Coimbatore	Within 30 days	<i>[insert the number of days from the date of the Contract]</i>

2. TECHNICAL SPECIFICATIONS

Annexure – I

Technical Specification - Gas Chromatograph System with FID and ECD detector to estimate greenhouse gases (GHGS) in rice growing areas of different sub basins across Tamil Nadu

General features of GC

1. Column Oven can accommodate two columns with maximum temperature range up to 400°C with set point resolution of 0.1°C.
2. It should support 20 ramps & maximum temperature ramp rates of 100°C /min. cool down of oven from 400°C to 50°C in less than 6 min.
3. Fully automated with programmable pneumatic control AFC / PPC / EPC (digital control) for injector gas.
4. AFC/EPC/PPC should provide optimum performance with all types of capillary columns.
5. System should have capability to install minimum three injection and four detector ports.

Column Oven-Operational Temperature Range

1. Ambient +10 to 400°C. Oven Volume 15.8 L or more.
2. Overheat protection: Programmable up to 420o C.

Injector port

1. Dual Packed column injection Port with dual flow line with AFC for digital setting and control of carrier gas flow.
2. Maximum temperature: 400 °C. Pressure setting range 0–140 psi with control set point of 0.01psi for specified pressure range.
3. Carrier gas Flow Control should have Constant flow, constant pressure modes and constant linear velocity.

Gas sampler column

1. Sampling valve with Methanizer.
2. Stainless steel packed column 2 Nos.

Sampling device

Tedlar bag – 500 ml – 20 Nos

Detectors

1. Flame Ionization Detector (FID) – 1 No.

Minimum Detectable quantity: 3 PgC/s or more.

Liner dynamic range: 1×10^7 .

Maximum acquisition rate: 4 ms (250Hz).

2. Electronic capture Detector (ECD) – 1 No.

Minimum Detectable Quantity: 0.1 Pg/s or more.

Dynamic Range: 1×10^4 .

Maximum acquisition rate: 4 ms (250Hz).

- ##### **Gas Cylinders & Fittings**
1. Zero air, H₂, N₂ Gas cylinder with 2 stage regulators.
 2. Argon Gas cylinder with 5% Methane gas mix with 2 stage regulator.
 3. Four stage gas purification panel and Gas tubing. Calibration gas standard.

PC and UPS

Branded i5PC, Laser Printer B/W, Online UPS sinewave capacity of 5 KVA with battery power backup of 1 hour should be provided by the supplier.

Accessories

Cylinder transport trolley

Gas tight syringe

Septum

Cylinder opener attached spanner

Warranty – 3 years