



पादप कार्यिकी संभाग  
DIVISION OF PLANT PHYSIOLOGY  
भा.कृ.अ.प.-भारतीय कृषि अनुसंधान संस्थान  
ICAR-Indian Agricultural Research Institute  
नई दिल्ली-110012 (भारत)  
NEW DELHI - 110 012 (INDIA)



File No: 50-2/WPS/19-20/NAHEP(71-01)

Date: 05/11/2019

To

As per List Attached

Dear Sirs,

**Sub : INVITATION FOR QUOTATIONS FOR SUPPLY OF  
Water Purification System**

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
Water Purification System	Annexure - A	02	Within 90 days after issue of Purchase/Supply Order	Division of Plant Physiology, IARI, Pusa Campus, New Delhi - 110012	As per terms and conditions.

\* Where ISI certification marked goods are available in market, procurement should generally be limited to goods with those or equivalent marking only.

2. Government of India has received a financing from the World Bank towards the cost of the said Equipment/Item **under NAHEP-CAAST (71-01) Project** and intends to apply part of the proceeds of this financing to eligible payments under the contract for which this invitation for quotations is issued.

3. **Bid Price**

- The contract shall be for the full quantity as described above. Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
- All duties, taxes and other levies payable on the raw materials and components shall be included in the total price.
- Sales tax in connection with the sale shall be shown separately.
- 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.
- The Prices shall be quoted in Indian Rupees only.

4. Each bidder shall submit only one quotation. Bidder shall not contact other Bidders in matters relating to this Quotation.

5. **Validity of Quotation**

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

6. **Evaluation of Quotations**

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

- (a) are properly signed ; and
- (b) conform to the terms and conditions, and specifications.

The Quotations would be evaluated for all the item together/would be evaluated separately for each item. *[Select one of the options]*.

**Sales tax in connection with sale of goods shall not be taken into account in evaluation.**

7. **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.

7.1 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.

7.2 The bidder whose bid 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.

7.3 **Successful Bidder should submit 10% of Total Cost of Equipment as Performance Guarantee after receiving the Purchase/Supply Order.**

8. Payment shall be made immediately after delivery of the goods.

9. Normal commercial warranty/ guarantee shall be applicable to the supplied goods.

10. You are requested to provide your offer/Sealed Quotation latest by **13.00 hours on 13/11/2019**.
11. We look forward to receiving your quotations and thank you for your interest in this project.

(Purchaser)

Name: Assistant Admn. Officer.

Address: Division of Plant Physiology,  
IARI, Pusa Campus,  
New Delhi - 110012

Tel. No. 011 25842815.

Fax No. ....

## Annexure -A

### Technical Specifications

Name of the Capital item with brief description: **WATER PURIFICATION SYSTEM**

#### Detailed specifications:

**Type-I, Type-II and Type-III (all types ASTM International compliance) Grade Water in a single compact unit as per the following specifications**

1. System should have multi colored 5.7" TFT Graphic display for online monitoring of Water Resistivity/Temp/Various Modes/Configuration/ Report/ Alarms and Diagnostic features and USB interface with PC.
2. System should produce ASTM Type-I, Type-II and Type-III Grade Water separately in single compact system. Suitable for Molecular biology, microbiology, PCR, inorganic and organic trace analysis, HPLC, ICP, TOC-analysis etc.
3. Operating feed water pressure should be 1 - 6 bar min/max (.05kg-1.5Kg), Conductivity: Upto 2000  $\mu$ S/cm, Chlorine: 3 ppm, Fouling Index (SDI):up to12.
4. The system should comprises of multi stage purification as Water softening system, Pre-filtration, Reverse Osmosis, De-ionization, UV, Ultra Filtration, conductivity cell constant of 0.1 and 0.01K and 0.22 micron PVDF/PES Pharmaceutical grade filter of 260cm<sup>2</sup>.
5. The system should be synchronized with 50L/100L storage Tank of PP/HDPE/PE with recirculation loop.
6. **ASTM International Type-I (Ultra Pure Water) Water should have:**
  - i) Resistivity at 25°C: 18.2 M $\Omega$ . cm
  - ii) Flow rate: 0.5L/min to 2L or more /minute
  - iii) TOC Value: <5 ppb
  - iv) Bacterial content in CFU/ml: < 1/10ml ie<0.1/ml
  - v) Particulate :>0.22 $\mu$ m <1/ml
  - vi) Endotoxins:< 0.001 EU/ml
7. **ASTM International Type-II(Pure Water) should have:**
  - i) Resistivity at 25°C:10 to15 M $\Omega$ .cm.
  - ii) Flow rate: 0.5L/min to 2L or more /minute
  - iii) TOC Value: <20 ppb
  - iv) Bacterial count in CFU/ml: < 1/10ml
  - v) Particulate :>0.22 $\mu$ m <1/ml
  - vi) Endotoxins:< 0.001 EU/ml
8. **ASTM International Type-III Water should have**
  - i) Product Flow Rate : 5 L or more /hr
  - ii) Conductivity: <20 $\mu$ S/cm
9. Supply voltage : 230V $\pm$ 10%,AC,50Hz
10. System should have USB interface **to transfer the data to PC.**
11. System should have Cartridges Exchange Alarm/Trouble Shooting, Pin coded password protection.

12. The filters are One Touch (Quick fit Connector) type which is easy to replace the cartridges/ maintenance without wasting time and water, avoid purging air.
13. System should have Auto Sanitization facility to auto rinse and should be able to sanitized in standby mode/Flush mode program.
14. System should be able to monitor the life of UV, cartridge, Filters and membranes.
15. System must accompany four sets of cartridges for replacement when needed.
16. Warranty: Min. One year from the date of installation.

**Essential Accessories**

Water softner along with unit (25 lit per hour); All essential pre-filters; Voltage Stabilizers; One additional set of all cartridges required

**Terms & Conditions**

- Supplier need to submit the specification compliance for their product in a tabulated and point wise manner
- Authorized dealer/supplier in India should enclose authorization certificate from the Prinicpal
- On-site warranty minimum of 2 years from the date of installation
- Authorized dealer should have service centre in India
- Brochure having detailed technical specifications (to be enclosed in original with quotation)
- On-site installation, demonstration and training
- Detailed technical manual in original with instrument

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**FORMAT OF QUOTATION \***

Sl. No.	Description Goods	Specifications	Qty.	Unit	Quoted Unit Rate in Rs.	Total Amount	
						In Figures	In Words
1.							
<b>TOTAL</b>							
<b>Sales Tax</b>							

**Gross Total Cost : Rs. ....**

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 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 Supplier**

\* *Applicable while the bids are being invited for more than one item and would be evaluated for all the items together.*

Modify where evaluation would be made for each item separately.