



## **Indian Institute of Integrative Medicine**

(Formerly known as Regional Research Laboratory)

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**TENDER NO: 06(221)/19-P Date 18.02.2020**

### **TENDER DOCUMENT**

**FOR**

**Automatic Nitrogen/ Protein Analyzer from Soil and Plant**

## INVITATION TO BID

File No. 06(221)/19-P

Date 18.02.2020

Dear Sirs/Madams

Sub: Quotation for supply of Automatic Nitrogen/ Protein Analyzer from Soil and Plant

Ref: Our Enquiry No. 06(221)/19-P dated: 18.02.2020

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Director, CSIR – Indian Institute of Integrative Medicine herein after called as the ‘**Purchaser**’ is interested in the purchase of below mentioned material (s). Kindly send your quotation so as to reach us on or before **26.02.2020 by 3.00 PM hrs. (IST)**.

Sr. NO.	Description of Item(S)	Quantity
	<p><b><u>Automatic Nitrogen/ protein Analyzer from Soil and Plant</u></b> <b>(1) Automatic Distillation System</b> <b>(2) Automatic Digestion System</b> <b>(3) Scrubber System</b></p>	1 No.
	<p style="text-align: center;"><b><u>TECHNICAL SPECIFICATIONS</u></b></p> <p style="text-align: center;"><b><u>Automatic Nitrogen/Protein Estimation System</u></b></p> <p><b><u>A. Automatic Digestion System</u></b></p> <ul style="list-style-type: none"><li>• Twelve Place 250 ml capacity PC Compatible Block Digestion System with all essential accessories</li><li>• TFT Graphic Touch Screen Display with unique wireless mouse to operate at a distance of 1-2 mtrs.</li><li>• Should have 2 Ports in the motherboard one for PC connectivity another for direct connection to Remote Mouse/Data logger/ Memory stick for data storage with separate port in mother board apart from PC Port</li><li>• Integrated auto sequencing time/temperature domain of 70 programs and 12 sequencing steps</li><li>• Inbuilt mini printer for print options to document pre-programmed settings and logged datas</li><li>• Temperature Controller should be isolated separately in a control tower to protect electronics from digestion heat zone and acid reaction zone</li><li>• Temperature Control Range: Room temperature to 450 ° C, Temperature Accuracy : ± 0.5 ° C</li><li>• PC software performs Live graphical representation of time /temperature gradient on touch screen display</li><li>• Direct USB Port for PC with live process view on touch screen display of various stages with print options,</li><li>• Remote control module for wireless data monitoring, control and transfer to PC at a distance of 5-10 feet . The Entire display screen of Controller should wirelessly appear in the PC/ Laptop of user, to monitor &amp; control from his work table.</li><li>• All essential accessories like Digestion Tubes, SS Insert Rack, Exhaust Manifold, Suction assembly for safe removal of acid fumes</li></ul>	

### **B. Scrubber System:**

- **Three stage acid neutralization scrubber.**
- Non corrosive centrifugal inbuilt magnetic suction pump for water recirculation,
- FRP Tank, Containers for Alkali and Water

### **C. Automatic Distillation System**

- Auto sequencing Programmable Microprocessor based Distillation with inbuilt software, Color Touch Screen high resolution TFT LCD Display,
- Auto Intelligent run of programmable steps, Addition of Boric Acid, Dilution, KMNO<sub>4</sub> Addition for Available Nitrogen, Alkali Addition, Steam Processing, Residue Removal, Process over indication with inbuilt delay time features, Auto Titration Connectivity feature for future up gradation, Aspiration of Receiver Residue with inbuilt mini printer for instantaneous results on input of titer value with inbuilt formula for Nitrogen, Available Nitrogen, Ammoniac Nitrogen etc. without connecting to pc. Complete Automatic safety features.
- The suction module of waste residue should be door mounted for easy serviceability.
- Facility to program and control distillate volume for determination of available nitrogen
- Auto sensing of “NO WATER” condition in condenser & steam generator with alarm & signal to alert user.
- Auto deactivation of operation after warning in case of user non availability
- Enables automatic monitoring and measuring of high temperature in distillate with sensor for auto warning signal and safety alarm to alert user to control distillate temperature. Temperature displayed digitally.
- Auto reagent Level Sensor with Alarm for Reagents, Stainless steel non corrosive steam Generator
- The control panel unit along with inbuilt temperature controller, timer, mother board and SMPS should be isolated in separate compartment to protect electronics from wet chemistry & acid/ alkali process area for longevity and safety of all electronic components.
- Nitrogen level : 0.1 to 200 mg Nitrogen (Min / Max Detection Limit)
- Nitrogen Reproducibility:  $\pm 0.1\%$  RSD , Nitrogen Recovery :  $> 99.5\%$
- Electrical Requirement: 220-230V single phase 50Hz A.C

Note: - company should provide spear parts of instrument at least 5year after installation.

**Last Date for submission : 26-02-2020 up to 3.00PM. hrs. (IST)**  
**Date of Opening : 27-02-2020 at 3.00PM hrs. (IST)**

## TERMS & CONDITIONS

1. The quotation must be in the form furnished by the Purchaser and should be free from corrections/erasures. In case there is any unavoidable correction it should be properly attested. If not the quotation will not be considered. Hand written Quotations will not be considered.
2. It may kindly be noted that your bid should
  - A) be in **Single part bidding**
  - B) accompany No Bid Security
3. Each quotation must be sent electronically in single cover through e-procurement portal (etenders.gov.in)
4. The acceptance of the quotation will rest with the competent authority of Indian Institute Of Integrative Medicine Jammu, who does not bind himself to accept the lowest quotation and reserves the right to himself to reject, or partially accept any or all the quotations received without assigning any reason.
5. Price quoted should be net and valid for a minimum period of 120 days from the date of opening of the quotation.
6. The bidder must submit the applicable Price Schedule Form as Annexed to the tender document available on the website.
7. **Complete specification with manufacturer's name and address should be given while quoting. Literature/Pamphlets should also be enclosed wherever applicable.**
8. Prices are required to be quoted in units indicated in the enquiry. When quotations are given in terms of other units, relationship between two sets of units should be furnished. Quantity discounts, if any should also be indicated. The items should be quoted indicating the serial No. of our RFQ.
10. In cases of agents quoting on behalf of their foreign manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorize only one agent/dealer. There can be only one bid from the following:
  1. The foreign manufacturer directly or through one Indian agent on his behalf; or
  2. Indian/foreign agent on behalf of only one principal.
11. Please indicate the name and address of the agents in India if any, the details of service to be rendered by them & the percentage of commission payable to them. **Agency commission payable to the Indian Agent should be clearly indicated.** The Agency commission would be payable only in Indian Rupees after acceptance.
12. This lab/Instt Is registered with Dept. of Scientific & Industrial Research, Govt. of India and concessional customs duty and GST & IGST are leviable vide notification no. 54/2002-Customs on all imports covered under notification No.51/96-Customs dated 23.07.1996, Notification No.47/2017-Integrated Tax (Rate) and Notification No.45/2017-Central Tax (Rate) both dated 14th November, 2017.

13. The mode of dispatch/transportation of the items must be by **Air/Sea/Rail/Road only.**  
**(Retain one only).**
14. In case the items in the enquiry are covered by any rate contract or running contract finalized by any other state or central Government, it should be specified in your quotation and accepted contract rates should also be mentioned.
15. Delivery period required for supplying the material should be invariably specified in the quotation. The offered delivery period shall have to be strictly adhered to in case an order is placed.
16. Liquidated Damages Clause for delays: The applicable rate is 0.5% per week and maximum deduction is 10% of the contract price.
17. If the deliveries are not maintained and due to that account the purchaser is forced to buy the material at your risk and cost from elsewhere, the loss or damage that may be sustained there by will be recovered from the defaulting supplier.
18. All supplies are subject to inspection and approval before acceptance. Manufacturer warranty certificates and manufacturer/Government approved lab test certificate shall be furnished along with the supply, wherever applicable.
19. TDS would be recovered as per rules in case of Fabrication/ Servicing/ Maintenance jobs/Installation charges etc.
20. Kindly furnish your PAN & GST Number etc. in your quotation for our records.
21. Our normal payment terms are 100% (hundred percent) within 30 (thirty) days on receipt and acceptance of material at our site in good condition. Please inform your Bank details for RTGS payment.
22. All disputes shall be settled in the courts of Jammu (J&K) Jurisdiction only.
23. Tender conditions (printed on the reverse), if any, or otherwise sent along with the tender shall not be binding on us.
24. All the above instructions and our standard terms and conditions must be complied failing which your offer may be liable for rejection.
25. As per Govt. of India procurement policies,
  - a. The purchaser intends to give purchase preference to local suppliers\* in case the cost of procurement is in the range of more than Rs 5.00 lakhs and up to Rs. 50.00 lakhs.
  - b. There is no restriction on the eligibility of the suppliers. **(retain any one only)**

- c. The procuring entity intends to give purchase preference to products/goods manufactured by micro, small and medium enterprises.

\*"Local supplier" means a supplier or service provider whose product or service offered for procurement meets the minimum local content as prescribed in DIPP Order No.P-45021/2/2017-PP (BE-II) dated 28th May, 2018 or by the competent Ministries/Departments in pursuance of this order.

'Local content' means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the items procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.

26. Instructions to Bidders, General Conditions of Contract applicable to limited tenders originating from S&P Division along with different formats can be viewed on our website <http://www.iiim.res.in> under the heading tenders.

Yours faithfully,

**Sd/-**

**Store & Purchase Officer**