



Indian Institute of Integrative Medicine

(Formerly known as Regional Research Laboratory)

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TENDER NO : 06(173)/19-P Date 08.01.2020

TENDER DOCUMENT

FOR

Flame Photometer for soil analysis

INVITATION TO BID

File No. 06(173)/19-P

Date 08.01.2020

Dear Sirs/Madams

Sub: Quotation for supply of "**Flame Photometer for use of soil analysis**"

Ref: Our Enquiry No. 06(173)/19-P dated: 08.01.2020

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 **21.01.2020 by 3.00 PM hrs. (IST)**.

Sr. NO.	Description of Item(S)	Quantity														
1.	<p>Flame Photometer for soil analysis</p> <p style="text-align: center;"><u>Detailed specification of Flam Photometer</u></p> <p>General specification :- Microprocessor Flame Photometers used for the determination of sodium, potassium, calcium and lithium. System use the latest microcontroller technology and advanced engineering techniques so as to give enhanced and reproducibility. System have soft touch membrane key for ease of operations. These Flame Photometers come with two filters Sodium (Na) & Potassium (K). Calcium (Ca) & Lithium (Li) Filters or Barium (Ba) are optional available at extra cost. The sample solution is aspirated through an atomizer. Sample, Air and the fuel are mixed in the mixing chamber which is then sprayed as a very fine mist into the flame. The color of the flame is changed depending upon the concentration of elements present. Radiations from the flame pass through the sensing system and specific narrow band interference filter which permits only the characteristic radiation to pass to the photo-detector. The output of the photo-detector is then processed by the microcontroller and the final results are displayed on the 128 x 64 Graphical LCD display. In both models 5-Point calibration facility and non-linearity correction is provided through automatic curve fitting software. Facility has been provided for re-standardization with a single standard, thereby, eliminating the need of the multiple standards once a calibration has been performed.</p> <p>System should have Microprocessor Based with Printer Interface, Auto Gas Cut off, Auto Flame Failure Detection, Four Measurements in Single Aspiration, Setup Storage Facility and Sample Data Storage Facility, Curve Calibration Programmability Using Maximum of 5 Standards, Multiple Calibration Curve Saving Facility, Data Processing Through Curve Fitting Techniques, Least Square, Quadratic Online Help Key, Direct Results in ppm and meq, Useful for Soil Testing</p> <p>TECHNICAL SPECIFICATIONS:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Mode</th> <th style="width: 35%;">General</th> <th style="width: 25%;">Serum</th> <th style="width: 30%;">Urine</th> </tr> </thead> <tbody> <tr> <td rowspan="3" style="text-align: center; vertical-align: middle;">RANGE</td> <td>Na: 0 - 100 ppm Upto 250 meq/l, 1:100 dil</td> <td>Na: 0 - 200 meq/l 1:100 dil</td> <td>Na: 0 - 250 meq/l 1:100 dil</td> </tr> <tr> <td>K: 0 - 100 ppm Upto 250 meq/l, 1:100 dil</td> <td>K: 0 - 10 meq/l 1:100 dil</td> <td>K: 0 - 100 meq/l 1:100 dil</td> </tr> <tr> <td>Ca: 0 - 100 ppm Upto 250 meq/l, 1:100 dil</td> <td style="text-align: center;">-</td> <td>Ca: 0 - 10 meq/l 1:2 dil</td> </tr> </tbody> </table>	Mode	General	Serum	Urine	RANGE	Na: 0 - 100 ppm Upto 250 meq/l, 1:100 dil	Na: 0 - 200 meq/l 1:100 dil	Na: 0 - 250 meq/l 1:100 dil	K: 0 - 100 ppm Upto 250 meq/l, 1:100 dil	K: 0 - 10 meq/l 1:100 dil	K: 0 - 100 meq/l 1:100 dil	Ca: 0 - 100 ppm Upto 250 meq/l, 1:100 dil	-	Ca: 0 - 10 meq/l 1:2 dil	1 No.
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	Ca: 0 - 100 ppm Upto 250 meq/l, 1:100 dil	-	Ca: 0 - 10 meq/l 1:2 dil													

	Li: 0 - 100 ppm Upto 250 meq/l, 1:100 dil Ba : 30 – 3000 ppm	Li: 0 - 2 meq/l 1:5 dil	
SENSITIVITY	General: Na: 0.5 ppm, K: 0.5 ppm, Li: 0.5 ppm, Ca: 15 ppm, Ba : 30 ppm.		
FILTERS	Na & K Filters are supplied (Ca, Li & Ba Filters are Optional at Extra Cost)		
RESOLUTION	0.1 ppm/meq		
REPRODUCIBILITY	< 1% Co-efficient of Variation For 20 Consecutive Samples Using 10 ppm Na Set as Maximum Standard		
CURVE FIT ACCURACY	< 2% Error When 3 ppm Na/K and 5 ppm Li are Set As Maximum Standards		
DISPLAY	128 x 64 Graphical LCD Display		
FLAME SYSTEM	LPG and Dry Oil Free Air		
DETECTOR	Silicon Photodiode		
CALIBRATION	Upto 5-Point Calibration With Curve Fitting Software		
GAS CONTROL	Adjustable with Knobs		
FLAME FAILURE	Auto Detection		
GAS CUT-OFF	Automatic		
IGNITION SYSTEM	Auto Ignition		
ATOMIZER	Axial Flow Type		
POWER	230 V + 10% AC, 50 HZ		
PRINTER	Provision For Attachment of Dot Matrix Printer or HP Laserjet/ Inkjet (Non-Windows) Printers With Centronics Parallel Interface (PC with Software)		
COMPRESSOR UNIT	AIR SUPPLY BY OIL FREE MINI COMPRESSOR UNIT WITH PRESSURE REGULATOR COMBUSTION GAS LPG CONTROLLED BY PRECISION REGULATOR		
STANDARD ACCESSORIES			
Instrument with Na & K Filters -1 No., Chimney – 1 No., Air & Gas Tubing – 1 Set, PC with Software. Capillary Tubes – 3 Nos., Sample Holders – 5 Nos., Mains Lead – 1 No and Operation Manual – 1 No.			

Last Date for submission : 21. 01. 2020 up to 3.00PM. hrs. (IST)

Date of Opening : 22. 01. 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