

कृषिरसायनसंभागDIVISION OF AGRICULTURAL CHEMICALS  
भा.कृ.अनु.प.-भारतीयकृषिअनुसंधानसंस्थानICAR-INDIAN AGRICULTURAL RESEARCH INSTITUTE  
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दिनांक Dated:05/06/2021

### निविदा-सूचना

निदेशक भा0कृ0अ0प0-भारतीय कृषि अनुसंधान संस्थान नई दिल्ली द्वारा निम्नलिखित वैज्ञानिक उपकरण / वस्तु की आपूर्ति एवं कार्य हेतु प्रतिष्ठित निर्माताओं / अधिकृत डीलरों / आपूर्तिकर्ताओं से दो बोली प्रणाली (तकनीकी एवं वित्त बोली) के अन्तर्गत सील बंद ऑनलाईन क्यूटेशन **EA-LC-IRMS with ancillary items** के लिये आमंत्रित की जाती है। क्यूटेशन / निविदा प्रस्तुत करने की अंतिम तिथि 05/07/2021समय01बजे दोपहर तक। क्यूटेशन/निविदा को दिनांक 05/07/2021को समय14:30बजे निर्धारित समिति के समक्ष खोली जाएगी। प्री. बिड 15-06-2021 को सुबह 11.00 बजे कमरा न0 139 सम्मेलन हॉल कृषि रसायन विभाग आई.सी.ए.आर.-आई.ए.आर.आई नई दिल्ली में आयोजित की जाएगी।

Online Quotations are invited from reputed Manufacture/Dealer/Supplier in Two Bid system (Technical bid & Financial bid) for **EA-LC-IRMS with ancillary items** of following Scientific Equipment/Items on behalf of Director ICAR-Indian Agricultural Research Institute, New Delhi. The last date for submission of Bid 05/07/2021at1.00pm. The bid will be opened on dated 05/07/2021at 14.30hrs. By the prescribed committee. The pre-bid conference shall be held on 15.06.2021 at 11.00am in Room no-139 (Conference Hall), Div of Agricultural Chemicals, ICAR-IARI, New Delhi.

विस्तृत नियम व शर्तों को भा0कृ0अ0सं0 की वेबसाइट [www.iari.res.in](http://www.iari.res.in)पर देखे एवं ऑनलाईन के लिए [www.eprocure.gov.in](http://www.eprocure.gov.in)देखा जा सकता है। Please visit [www.iari.res.in](http://www.iari.res.in) for Details Rules and Regulation and Log on [www.eprcure.gov.in](http://www.eprcure.gov.in) for online.

क्रम संख्या Sl. No.	वैज्ञानिक उपकरण / वस्तु का नाम Name of Scientific Equipment / Item	मात्रा Quantity
1	<b>EA-LC-IRMS with ancillary items</b>	One

1	Date of start of submission of Tender Document	05.06.2021 From 16.00 pm.
2	Pre-bid conference	15.06.2021 at 11.00 A. M. in Room No. 139 (Conference Room) of Division of Agricultural Chemicals, IARI.
3	Last Date & Time of submission of Tender	05.07.2021 by 01.00 P. M.
4	Opening of time of Tender	05.07..2021 at 02.30 P. M.

<b>5</b>	<b>Place of Submission of Tender Document</b>	Online <a href="http://eprocure.gov.in">eprocure.gov.in</a> . Online through CPP Portal at <a href="https://eprocure.gov.in/cppp">https://eprocure.gov.in/cppp</a>
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**Instruction to the bidder and terms & conditions of tender:**

1. The rates quoted shall be valid for a minimum period of 180 days from the last date fixed for submission of bid.
2. Only those firms should respond who are the manufacturers or authorized dealers/agents of the stores specified in the tender specifications.
3. Indian agents of foreign manufacturers/principal are allowed to participate in the tender subject to the following conditions: -
  - a) The Indian agent will submit along with the tender documents a copy of authority letter/agreement from the foreign manufacturer/principal for this particular offer.
  - b) Such agreement/authority with the foreign manufacturers/principal should be a long-term agreement and not merely for supply & Installation of the equipment.
  - c) If the agreement is only for the Supply & Installation, the offer received is liable to be rejected.
4. The rates quoted shall be free of cost delivery and installation at the Division of Agricultural Chemicals, IARI, New Delhi-110012. However, equipment quoted in foreign currency must be quoted on FOB.
5. Custom Duty Exemption Certificate (CDEC) will be issued only when the bid is quoted in foreign currency in case of foreign made items only and meant for IARI.
6. Full specifications of the item/article quoted for shall be given in the quotation.
7. If taxes duties or any other charges over and above the rates quoted leviable, actual percentage of such taxes/duties/other charges should be clearly indicated.
8. Bid Security Declaration in lieu of EMD as per Govt. Of India OM No. F.9/4/2020-PPD dated-12.11.2020 be submitted by firms other then the exepmted firms as per Govt of Indai rules to the Tender Inviting Authority along with technical bid document.
9. No interest on security deposit and earnest money deposit shall be paid by the Institute to tenderer.
10. In case of successful bidder, security deposit which is 3% of the order value in the form of D.D/Pay Order/Fixed Deposit Receipt/Bank Guarantee from commercial bank drawn in favour of Director, IARI, payable at New Delhi and shall remain valid for 60 days beyond the date of completion of all contractual obligation of supplier including warranty obligation for the equipment/goods costing Rs. 1.00 lakhs (Rs. One Lakh) or more. Here would however, be no performance security deposit for equipment/goods costing less than Rs. 1.00 lakh (One lakh).

11. One year warranty has to be invariable provided by the firm. In case, there is any variation in the warranty period given in the specification of the item/equipment, the warranty period shall be the final as given in the specification.

12. Payment mode-

**A. FOR INDIGENOUS SUPPLIES:**

Payment through e-payment mode on bill basis after supply, satisfactory installation, commissioning and performance of the equipment at New Delhi and after certification by our Scientists concerned.

**B. FOR IMPORTS:** The payment shall be made through irrevocable Letter of Credit (L.C.). LC will be opened on 100% value of the equipment/item on FOB/FCA value and 90% shall be released on presentation of complete and clear shipping documents. Rest 10% will be released only after satisfactory installation and commissioning of the equipment. This will not include commission to the Indian Agent. Payment to the Indian agent will strictly be made in Indian Rupees after satisfactorily commissioning of equipments.

All bank charges outside India will be borne by the supplier. In case the delivery date of the contract is extended to take care of delay in supply, for which the supplier is responsible, the tenure of the letter of credit is extended, the expense incurred on such extension is to be borne by the supplier.

13. Quotations not complying with the above conditions are liable to be rejected.

14. Scanned copy of TIN/VAT/PAN/C.S.T/GST Nos may be attached with the bid.

15. In case, any dispute arising out of this contract shall be subject to the jurisdiction of Indian laws & Court at New Delhi. Sole arbitrator is appointed by the Secretary, ICAR, New Delhi. His decision will be final and binding on both parties (Supplier and Purchaser).

16. The successful bidder has to execute the indented Job/Work as mentioned in the supply order place with them within the stipulated period as given in the supply order placed by this office failing with 2% per week and maximum of 10% deduction as liquidated damage charges will be made from the bill in case the job is not completed within the given stipulated period.

17. Delivery time :-

- a. For Indian manufacturer - Within 45 days from the Date of issue of award letter or as specified in the supply order.
- b. For Foreign firms – 180 days from the date of opening of letter of credit (LC)

18. Full specification of the article quoted for shall be given in the quotation along with literature/pamphlet/drawing etc. User list of the quoted document may also be additionally provided for reference.
19. In Case, LC is opened for purchase of Foreign equipment all charges outside India will be borne by the firm.
20. As per CVC's guidelines No.12-2-6CTE-SPJ(1)-2/161730 (circular No.3/1/12) dated 13/1/2012, in a tender either the Indian Agent on behalf of the Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender. Further, if an agent submits bid on behalf of the Principal/OEM the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.
21. The equipment is to purchase for Research purpose and therefore shall be purchased at concessional GST Rate of 5%. The required certificate shall be issued to the successful bidder for availing concessional GST Rate.
22. The Director IARI, New Delhi reserves the right to accept or reject any or all the quotations either in full or in parts without assigning any reason.
23. The packing and preservation of the supplied goods shall be airworthy/seaworthy /roadworthy (as the case may be) so that it may provide their safety during transit period. The seller shall guarantee that the packing is strong enough to withstand the safety of the goods during transport. The packing should satisfy the security seal in the clearing warehouse and shall carry the fragile or other markings as required.
24. The successful bidder should submit order acceptance letter within 15 days from the date of issue.
25. The successful bidder will have to provide the original proforma invoice from the foreign principal (duly signed in ink), in case of imported item/equipment, within 15 days of the date of receipt of purchase order, otherwise the purchase order will automatically stand cancelled without any further communication.
26. The following documents must be uploaded with the technical bid failing which tender will not be accepted at all.
  - a. GST Number
  - b. Pan Card
  - c. Bid-Security Declaration as per Govt. Of India OM No. F.9/4/2020-PPD dated-12.11.2020 (as per format attached in Annexure-A)
  - d. Literature/pamphlet/drawing etc. Alongwith user list if any
  - e. Technical specification of equipment/item alongwith compliance statement in accordance with the tender technical specification.
  - f. The tender documents duly signed by the concerned firm accepting the same should be attached with technical bid.

- g. Certificate declaring that the firm has not been debarred/Black listed by the Govt. Deptt./Court of law for doing any business in India.
- h. Copy of supply order and performance certificate as required at point no-28 of technical specification- "Should have at least 5 IRMS installations in India. User list with minimum 3 performance certificate must be provided along with the contact details" during last 5 years.

S. No.	Technical Specifications/Requirements	Whether complied with YES/No	Page No-
1	Application: Highly sensitive EA and LC system coupled separately with two IRMS systems. Ability to carry out isotope ratio measurement from food samples with sensitivity of 1500 molecules per ion or lower in continuous mode.		
2	Source: Electron impact ion source with $\geq 3$ kV accelerating voltage		
3	Dynamic range: 0-50V or higher Automatic Ion source tuning		
4	Mass Range: 2 to $\geq 65$ amu,		
5	Sensitivity: Should be 1500 molecules per ion or lower, in continuous mode		
6	Linearity: The linearity should be $\leq 0.02$ %/ nA for CO <sub>2</sub> ; $\leq 0.02$ %/ nA for N <sub>2</sub> ; $\leq 0.04$ %/ nA for SO <sub>2</sub> ; $\leq 0.04$ %/ nA for O <sub>2</sub> ;		
7	Precision: $\leq 0.06$ ‰ for <sup>13</sup> C; $\leq 0.06$ ‰ for <sup>15</sup> N; $\leq 0.10$ ‰ for <sup>34</sup> S; $\leq 0.15$ ‰ for <sup>18</sup> O; $\leq 0.40$ ‰ for <sup>2</sup> H		
8	Analyser: Pre-mounted magnet with intrinsic alignment		
9	Filament: Preferably same filament should be used for all gas species.		
10	Collectors: System should be supplied with collectors, so that it can analyse Carbon dioxide, Hydrogen, Nitrogen, Sulphur dioxide and Oxygen (CHNSO).		
11	Vacuum options: Turbo molecular pumps for the continuous flow analyzer system. Data Acquisition: Should be software controlled		
12	Diluter: Should have automatic diluter to match reference gas and sample gas intensity.		
<b>EA Specifications</b>			
13	The system should be capable of performing C, N, S, O and H isotopic analysis		

14	<p>Should have Dual Furnace with independent temperature control mechanisms to attain &gt; 1000°C.</p> <p>Should have an autosampler for continuous injection/insertion of 100 or more samples.</p> <p>Instrument should have zero/no blank device Separation of the combustion gases should be done.</p>		
15	<p>Auto sampler technology: Should have zero/no blank auto sampler technology</p> <p>External Precision CO<sub>2</sub>, δ<sup>13</sup>C: 0.1‰ or less</p> <p>External Precision N<sub>2</sub>, δ<sup>15</sup>N: 0.15‰ or less</p> <p>External Precision SO<sub>2</sub>, δ<sup>34</sup>S: 0.2‰ or less</p>		
16	Ramped GC oven or dynamically heated separation system		
17	All furnaces and Thermal Conductivity Detector must be covered by a minimum ten years warranty		
LC Specifications			
18	HPLC integrated with the IRMS for isotopic analysis of 13C/12C in compounds that are chromatographically resolved in HPLC column.		
19	<p>It must have all necessary interfaces for the sample to convert into gaseous form with minimum maintenance and highly reliable/reproducible technique.</p> <p>CO<sub>2</sub> delivered to the IRMS must be H<sub>2</sub>O - free</p>		
20.	Additional specifications:		
21	<p>Workstation Tower (Single reputed company make of uniform standard), which must include the following: (2 No. One each with EA and LC and compatible):</p> <p>CPU Intel Xeon E-2136, 6 Core HT, 12MB Cache, 3.3Ghz, 4.5Ghz Turbo</p> <p>RAM 32GB (2x16GB) 2666MHz DDR4 UDIMM</p> <p>HDD 2TB SDD</p> <p>GPU 4GB GFX Dedicated Graphic card</p> <p>OS Windows 10 Pro for Workstations (4 Cores Plus) English</p> <p>24 inch HD LED Monitor</p> <p>DVD RW</p> <p>Optical Mouse</p> <p>Keyboard</p> <p>3 year Onsite warranty with installation support</p> <p>Antivirus for 3 year</p> <p>Printer (2 No. One each with EA and LC): B/W -</p>		

	<b>duplex - laser - Legal, A4 - 1200 dpi x 1200 dpi - up to 21 ppm – capacity with Network Card</b>		
<b>22</b>	<b>ACCESSORIES</b>		
<b>A</b>	<ul style="list-style-type: none"> <li><b>i. Five complete maintenance kits including Fittings, Frits, ferules and Tubings for the system</b></li> <li><b>ii. Solvent bottles (04 no. 1000ml capacity)</b></li> <li><b>iii. Solvent filters (Glass / SS, 20 no.)</b></li> <li><b>iv. Minimum 10 extra LC columns for sugar analysis (as per standard honey testing method)</b></li> <li><b>v. Minimum 2 extra EA (GC) columns should be quoted.</b></li> <li><b>vi. 10000 sample vial,</b></li> <li><b>vii. Two Solvent filtration kits with 2000 filters (47 mm, 0.45 μ),</b></li> <li><b>viii. Ten Sample filtration kits with 5000 filter should be included (25 mm, 0.2μ)</b></li> <li><b>ix. Automatic pipetter (2 each) 10 μL; 100 μL; 500 μL; 1000 μL with 1000 tips for each</b></li> </ul>		
<b>B</b>	<b>Extra filament: 5 No. (with Serial Number)</b>		
<b>C</b>	<b>Cold storage cabinets (&gt;500L, ambient to -20°C) for sample storage: 2 No</b>		
<b>D</b>	<b>Imported water purification system with type I and II water; 18.2MΩ resistivity</b>		
<b>E</b>	<b>Balance (Imported): 0.001 mg, Electronic with LCD display</b>		
<b>F</b>	<b>Suitable online UPS with minimum 1 hour backup for the entire system.</b>		
<b>G</b>	<b>Gas Manifold: Purifier Panel, regulator, tubing, plumbing for necessary gases should be included.</b>		
<b>H</b>	<b>Gas Cylinders: He (2 No.), O<sub>2</sub> (2 No.), CO<sub>2</sub> (2 No.), N<sub>2</sub>(1 No.), SO<sub>2</sub> (1 No.), CO (1 No.), H<sub>2</sub> (1 No.) –Must include refilling of cylinders with suitable purity for IRMS application during five year warranty period. System to detect leakage in the cylinders should be provided</b>		
	<b>General Requirements</b>		
<b>23</b>	<b>Software: Database version software with multitasking and capable of performing the following functions: Control the system, acquire, store, process and reproduce the data. It must be able to control all the devices from same software.</b>		

	Quantification software for batch process must confirm the analytes as per regulatory requirements in food and environmental sample analysis as per the applications specified. Software updates upto five years.		
24	LC Hardware options must include (Quaternary pump/temperature controlled auto sampler (4-40°C or higher)/column oven (ambient to 60°C or higher). Auto sampler capacity :> 80 x 2 ml vials or better		
25	Compatible Software to use EA in stand-alone mode must be quoted.		
26	On site IQ, OQ, PQ of instrument along with document		
27	Warranty: Complete system {IRMS with all interface and peripherals}, filament, spares, consumables and accessories, UPS including batteries etc. should have comprehensive warranty for five years from the date of satisfactory installation. All Furnaces and Detectors (Faraday Cup and Thermal Conductivity) should have minimum ten years warranty from the date of satisfactory installation. Supplier shall be responsible for providing warranty on the total system and accessories. For the downtime of the instrument, the warranty has to be extended proportionately.		
28	Should have at least 5 IRMS installations in India. User list with minimum 3 performance certificate must be provided along with the contact details		
29	Accessories/Spares/Consumables: Complete accessories/spares/consumables should be quoted for the instrument {IRMS with all interface and peripherals (EA/LC)} to run smoothly to analyze minimum 10000 samples each in EA and LC.		
30	All the calibration standards required to calibrate the IRMS, along with all the peripherals, should be included		
31	All applications details in the field of honey/allied items and food testing have to be provided during installation.		
32	Up gradation of all softwares installed along with the complete system, should be provided free of cost, as and when it is released, during the warranty period.		



33	<ul style="list-style-type: none"> <li>Granite top suitable tables for housing the complete system with 4 chairs.</li> <li>Four air acclimatizers (2 Tons each) with timer and auto cut-off for continuous operation</li> </ul>		
34	Dedicated onsite Technical person (B.Tech/M.Sc or higher), well versed with method development, maintenance, sample preparation and troubleshooting for 2 years		
35	Supplier should have service facility and trained engineers located in Delhi and application laboratory in India/abroad to support the application requirement and training needs.		
36	All technical details should be available on the principal equipment manufacturer website. URL for the same must be provided or it should be certified by the OEM		
37	Optional items (Imported)		
A	Refrigerated Centrifuge: Benchtop, Temperature range : -5 to Ambient ; Maximum speed : 12000 rpm (18000g) or better with fixed angle rotor 50 ml x 6 tubes; 2 ml x 24 tubes, LCD display		
B	Orbital shaker for 12 flasks (250 ml) with LCD display and Timer		
C	Muffle furnace with LCD display , temp. controller, 1100°C or higher		
D	Ultrasonic bath (5L) with LCD display having temperature control and timer		
E	Temperature controlled Water bath (10L) with LCD display		
F	Temperature controlled oven (250°C) with LCD display		

Other Condition		
1. Are you registered with TIN/PAN and VAT/CST/GST	Yes/No	Enclose copy of GST Certificate and PAN
2. Have you submitted Bid Security Declaration as per Govt. Of India OM No. F.9/4/2020-PPD dated-12.11.2020.	Yes/No	Page no-
3. Have you enclosed valid authorization certificate resting with sufficient validity period from manufacturer/Principal foreign firm (if any applicable)	Yes/No	Enclose copy

4. Have you ever been debarred/Black listed by the Govt. Deptt./Court of law for doing any business in India attach self-declaration certificate in the regard	Yes/No	Enclose copy
5. Have you enclosed any Literature/pamphlet/drawing etc. Along with user list if any	Yes/No	Enclose Copy
6. Have you enclosed the tender documents duly signed accepting the same with technical bid.	Yes/No	Enclose Copy
7. Have you enclosed experience in this line, proof in form of work orders as desired at point no-28 in specifications during last 05 (five) years ?	Yes/No	Enclose Copy

Asstt. Admn. Officer

**Annexure:-**

**A**

**(on letter head of the firm)**

**Bid-Security Declaration**

**To**

**Director,**

**ICAR-Indian Agricultural Research Institute,**

**Pusa Campus,**

**New Delhi-1100012**

**Reference: (1) Enquiry No. \_\_\_\_\_ of ICAR-IARI,**

**(2) Our Bid No. \_\_\_\_\_ dt.**

**I/We , ..... irrevocably declare as under:**

**I/We understand that, as per Clause .....of Tender/bid conditions, bids must be supported by a Bid Security Declaration in lieu of Earnest Money Deposit.**

**I/We hereby accept that I/We may be disqualified from bidding for any contract with you for a period of Three years from the date of disqualification as may be notified by you (without prejudice to IARI's rights to claim damages or any other legal recourse ) if,**

**1) I am /We are in a breach of any of the obligations under the bid conditions,**

**2) I/We have withdrawn or unilaterally modified/amended/revise, my/our Bid during the bid validity period specified in the form of Bid or extended period, if any.**

3) On acceptance of our bid by ICAR-IARI, I/we failed to deposit the prescribed Security Deposit or fails to execute the agreement or fails to commence the execution of the work in accordance with the terms and conditions and within the specified time.

Signature:

Name & designation of the authorized person signing the Bid-Securing Declaration Form:

Duly authorized to sign the bid for and on behalf of: \_\_\_\_\_ (complete name of Bidder)

Dated on \_\_\_\_\_ day of \_\_\_\_\_ month, \_\_\_\_\_ year.

(Note: In case of a Joint Venture, the Bid Security Declaration must be in the name of all partners to the Joint Venture that submits the bid)