

Bids for Supply of Lab Equipment (ICP-MS)

Bids are invited in sealed cover for supply and installation of Integrated Inductivity-Coupled Plasma Mass Spectrometer (ICP-MS) at Basmati Export Development Foundation (BEDF) laboratory, at the premises of SVBP University of Agriculture and Technology, Modipuram, Meerut (UP) – 250 110. Offers with complete technical and financial details may be sent by June 21, 2012 (5.00 p.m.) to Director, Basmati Export Development Foundation, 4th floor, NCUI Auditorium Building, 3. Siri Institutional Area, August Kranti Marg (Opp. Asiad Village), New Delhi-110016. Bid Document is to be purchased against payment of Rs. 500/- payable by demand draft in favour of Basmati Export Development Foundation, payable at New Delhi on or before June 21, 2012 (3.00 p.m.).

B i d D o c u m e n t

for

Procurement of Integrated Inductivity-coupled Plasma Mass Spectrometer (ICP-MS)

Basmati Export Development Foundation

(founded by Agricultural & Processed Food Products
Export Development Authority (APEDA))

4th floor, NCUI Auditorium Building, 3 Siri Institutional Area
August Kranti Marg, (Opp Asiad Village)
New Delhi 110 016, India

(The bid document to be purchased against payment of Rs. 500/-.)

Basmati Export Development Foundation
Invitation for Bids

Firm offers are invited, in sealed covers, for supply and installation of ICP-MS at BEDF lab set up at the premises of Sardar Vallabhai Patel, University of Agriculture & Technology, Modipuram, Distt: Meerut, UP

1. The tentative target products are Rice, Honey, Groundnuts, Maize, Meat, and Walnuts. Target Applications would be testing, quantification and confirmation of Pesticide Residues, Antibiotics, Veterinary Drugs, Aflatoxin, Impurities Profiling and Metabolite identification. The standards and specifications followed by USA, EU, Japan and international standards formulation bodies such as Codex, OIE and IPPC in respect of these products should be taken into consideration while selecting a model for offer against this invitation for bids.
2. The reputed manufacturers and their authorized representatives in India may submit bids for supply, installation and commissioning of this equipment. Bidder would be free to bid for alternative models with varying capabilities and deliverables in the context of products and specifications mentioned above. The deliverables should be clearly spelt out in the offer along with firm prices.
3. The bids should provide operating conditions & installation requirements for the model offered, together with manufacturer's brochure supporting the Specifications offered.

4. Bid documents in English may be purchased by parties interested to participate in the bid process on the submission of a written application to the address below and upon payment of a non refundable fee of Rs. 500/- in the shape of Demand Draft/Pay Order in favor of Basmati Export Development Foundation payable at **New Delhi**. The documents may be collected in person or will be sent by speed post /courier.
5. One bid document purchased can be used to submit bid for one or more Models in respect of the equipment.
6. Earnest Money Deposit (EMD) of Rs 50,000/- in respect of the equipment must accompany with the bid in the form of **Demand Draft/Pay Order in favour of Basmati Export Development Foundation, payable at New Delhi.**

Bid Document

For the Supply, Installation and Commissioning of Integrated Inductivity-coupled Plasma Mass Spectrometer (ICP-MS) at Basmati Export Development Foundation Lab at Modipuram (India).

Last Date for purchasing Bid documents: June 21, 2012 **(upto 3 p.m.)**

Last Date for Submission of Bids: June 21, 2012 (upto 5 p.m.)

Bids to be addressed to :

Director,

Basmati Export Development Foundation

4th Floor, NCUI Auditorium Building,

3, Siri Institutional Area, August Kranti Marg

Hauz Khas, New Delhi 110 075

Telefax: +91 – 11 – 2651 5929

E.mail: bedf@apeda.gov.in

Issued to: M/S _____

Payment Reference for Rs 500/-

Director

BEDF, New Delhi

Bid for ICP-MS

1. Eligibility Criteria/Pre-Qualification requirement

- 1.1 The bidder should be a manufacturer or representative specifically authorized by the manufacturers to bid on their behalf as per manufacturer authorization form and Indian agents of foreign principals, if any who must have designed, manufactured, tested and supplied the equipment. The bidder must have a minimum installation base of more than 50 instruments in India in various reputed labs and the company must be in the same field for more than 3 years.
- 1.2 The Indian Agents of foreign manufacturers/ suppliers quoting directly on behalf of their principals would be responsible to ensure that all stipulations as per Foreign Trade Policy are complied with.
- 1.3 One Indian Agent cannot represent two different foreign principals/Indian Manufacturers for the same equipment in this bid.
- 1.4 The Bidder will assume total responsibility for the fault-free operation of equipment, application software, and maintenance during the warranty period and provide necessary maintenance services for five years after end of warranty period.
- 1.5 In the case of successful Bidder not doing business in India already, the Bidder firm will appoint an Agent in India who is well equipped and able to carry out the Supplier's maintenance, repairs and stock spare parts.
- 1.6 Bidders even if they meet the criteria given above would be disqualified, if they have made untrue or false representation in the bid and/or in the statements and attachments submitted in proof of the qualification requirements or have a record of poor performance, not properly completing the contract, inordinate delays in completion or financial failure, etc. Other things being equal, preference shall be given to firms who or his principal has supplied and installed similar system at any CSIR/ ICAR/ ICMR/DAE/ DRDO/ DST/DBT/other Govt. or autonomous research Labs in India.

1.7 Bidder should have valid documentary proof of Sales Tax/VAT, Service Tax registration number and income tax registration (PAN).

2. **Earnest Money**

2.1 Bid should accompany an earnest money deposit (EMD) of Rs 50, 000/- for the equipment in the form of Bank Guarantee or a demand draft drawn in favour of BEDF on a scheduled/ nationalized bank payable at New Delhi.

Tenders not accompanied with EMD in the bid will be summarily rejected. The EMD will carry no interest. EMD received after due date shall not be accepted under any circumstances. EMD will be refunded in due course to the unsuccessful bidders. The EMD is liable to be forfeited, if the bidder withdraws or amends, impairing or derogates from the bid in any respect.

2.2 **Exemption from payment of EMD:-**

Firms registered with DGS&D and NSIC who are exempted from payment of EMD are allowed exemption from payment of EMD if the product being quoted is actually manufactured by them and the product is registered with these agencies. Firms registered with these agencies selling products of other companies and not manufacturing the products being quoted by them are not allowed exemption from payment of EMD. To avail EMD exemption, the firms should submit a legible photocopy of valid Registration Certificate of the products manufactured and registered with DGS&D and NSIC with the bid.

2.3 BEDF reserves the right to verify/seek confirmation of all original documentary evidence submitted by vendors in support of above mentioned clauses of eligibility criteria. In case any information furnished by the bidder is found to be false /incorrect at any stage, the bid would be liable to be rejected and no correspondence on the same shall be entertained.

2.4 The vendor must fulfill the above eligibility criteria/ pre-qualification conditions. Bid of vendors fulfilling the pre-qualification conditions will only be evaluated by the duly constituted evaluation committee.

2.5 Undertaking for subsequent submission of any of the above documents will not be entertained under any circumstances.

3 Formats for Bids:

- 3.1 Bidders are requested to give detailed offer in the formats mentioned in the Bid Document. The Bidder should furnish a Technical Compliance Statement for each parameter and every model in the format '**Annexure A**'.
- 3.2 If any terms and conditions of the bid are deviated by the bidder, the Deviation statement '**Annexure C**' should be enclosed. If there are no deviations then the bidder should record 'No Deviations' in the Deviation Statement.
- 3.3 The Price schedule for each and every model should be in the format enclosed as '**Annexure B**'.
- 3.4 The After Sales support details must be in the format '**Annexure D**'.
- 3.5 The list of users / firms who purchased similar equipment (CSIR/ ICAR/ ICMR/DAE/ DRDO/ DST/DBT/other Govt. or renowned private research Labs in India) must be in the format '**Annexure E**'.
- 3.6 The warranty certificate to be given by the Manufacturer / Vendor should be as per '**Annexure F**'.
- 3.7 If the Bidder is furnishing EMD by Bank guarantee then the format given in **Annexure G** is to be used.
- 3.8 The bidder should fill up the check list **Annexure H**'.
- 3.9 The bid prepared by the bidder, the technical brochures and all correspondence relating to the bid shall be written in English language only.
- 4 **Bid Submission:** - Completed bids signed by the authorized signatory of the bidder firm on each page at the bottom, super scribing "Bid for the supply of BEDF Lab Equipments" should be sent to the Director

The proof of dispatch by the closing date will not be a proof of receipt and bids received late will be summarily rejected.
- 5 **Validity of Bid:** - The bidders must ensure that bids are valid for 90 days from the last date of submission. A bid valid for a shorter period may be rejected as non responsive. In exceptional circumstances BEDF may solicit the vendor's consent to an extension of the period of validity. The EMD provided should also be suitably extended. The vendor accepting the request for extension will not be permitted to modify the bid.
- 5.1 Interim correspondence will not be entertained before placing of the order.

- 5.2 Bid documents are not transferable under any circumstances.
- 5.3 The bid should be complete in all respects otherwise liable to be rejected. **Bid should be duly signed.** Incomplete and unsigned bids will not be considered.
- 5.4 Quotations must be clearly written or typed without any overwriting. The person signing the bid must attest all corrections / over writing.
- 5.5 All rates / prices in Price bid should be given in figures and in words. If there is any discrepancy between the Prices given in figures and words the higher of the two shall be taken for our comparison.
- 5.6 BEDF reserves the right to cancel the bid in part or whole without assigning any reason what so ever.

6. Applicability of bidders Terms and Conditions

- 6.1 Terms and conditions of the bidding firms provided in printed brochures sent along with bid, if any, shall not be binding, if they are inconsistent with the terms and conditions specified in this bid document.
- 6.2 The term 'Supply' in this document includes supply, installation, commissioning and demonstration of the whole system as per the specifications ordered for.

7. Delivery: -

- 7.1 The delivery time for the equipment quoted by you should be clearly mentioned.
- 7.2 For items quoted in INR, delivery of ordered material should be made within 8 weeks from the date of placement of purchase order.
- 7.3 For Imported Items, delivery of ordered material should be made within 12 weeks from the date of opening of clear and workable LC.

8. Liability for Late Delivery and Non Delivery:-

- 8.1 If the vendor fails to deliver the goods within the time as per purchase order, a sum equivalent to 0.75 percent of the Contract Value for each week of delay or part thereof until actual delivery will be deducted from the Contract Value, as liquidated damages, subject to maximum deduction of 5 percent of the Contract Value.

- 8.2 For delay in installation beyond contract will attract penalty @ 1% per week with a maximum of 5% (beyond mutually agreed Installation & Commissioning schedule). Once the maximum is reached, BEDF may consider termination of the Contract. In case the supplier/agent defaults in the supply of goods as per the order placed by the BEDF, fails to deliver the goods within the stipulated time as indicated in the supply orders or even within the extended delivery date, the supply order lying with the supplier/agent should stand automatically cancelled and BEDF shall be at liberty to get the goods supplied from other available sources at the risk and cost of the defaulting supplier/agent. The additional expenditure so incurred for getting the goods shall be borne by the defaulting supplier/agent in addition to forfeiture of Earnest Money Deposit and if he fails to compensate the entire loss and if the Earnest Money Deposit are not sufficient, action will be taken to release the loss.
9. **Inspection:** - BEDF may decide to inspect the goods in the following modes.
- 9.1 Pre-shipment inspection may be done by the personnel of BEDF
- 9.2 Pre-shipment inspection may be done by any reputed Inspection agency. BEDF shall inspect and test and where necessary reject the goods after the goods arrival at BEDF in addition to pre-shipment inspection if any. The pre-shipment inspection shall in no way be limited or waived by reason of the goods having been inspected, tested and passed by BEDF or the inspection agency prior to shipment.
10. **Packing:** - The supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit. Suppliers will have to make good the shortages, if any, which are revealed after opening the packages. The stores which are spoiled / damaged during transit due to faulty packing will have to be replaced by the suppliers.
- 11 BEDF reserves the right to accept the delivery in part or in full. Damaged and unaccepted supply will be returned to the vendor at vendor's risk and cost.
- 12 **Force Majeure clause:** - The vendor shall not be liable for forfeiture of its

bid security, performance security, liquidated damages or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the contract is the result of an event of Force Majeure. Such events may include, but are not limited to wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes. If a Force Majeure situation arises the vendor shall forthwith notify BEDF in writing of such conditions and cause thereof. Unless otherwise directed by BEDF in writing, the vendor shall continue to perform its obligations under the contract as far as is reasonably practical, and shall seek all alternative means for performance not prevented by the Force Majeure event.

- 13 **Dimensions and weight:-** The dimensions of the equipment, the net weight and gross weight of the equipment should be clearly mentioned in the bid.
- 14 **Applicable Law:-** This bid documents and contract is subject to the Indian laws and Indian Contracts Act as amended from time to time.
- 15 **Jurisdiction:-** All disputes are subject to the courts within New Delhi, India jurisdiction only.
16. **Language of contract:-** The contract / Purchase Order and all correspondence relating to the contract / Purchase order shall be written in English language only. Full and complete set of documentation manuals, Operation manuals and Maintenance manuals to be provided in English.
- 17 **Notices and communication: -** For all purposes of all notices, the following address shall be used by the Bidder / Vendor:-
Director,
Basmati Export Development Foundation (BEDF)
3rd Floor, NCUI Auditorium Building,
3 Siri Institutional Area, August Kranti Marg
(Opp Asiad Village)
New Delhi 110 016
- 18 **Modification of contract: -** No variation or modification of the terms of the contract shall be valid unless made by written amendment.
- 19 **Subcontracts:-** The vendor shall notify BEDF in writing of all the sub contracts awarded under this contract if not already specified in the bid. Such notification either in the bid or later shall not relieve the vendor from any liability or obligation under the contract. Sub contracts can be made only for bought-out items and sub-assemblies. Sub contracts cannot be given wherein the contract warrants so or the contract is such that

personal performance by the vendor is required.

- 20 **Assignment:** - The vendor shall not assign, in whole or in part, its obligations to perform under the contract, except with BEDF's written consent.
- 21 **Termination for default:-** BEDF may, without prejudice to any other remedy for breach of contract, by written notice of default to the Vendor, terminate the contract in whole or in part:
- If the vendor fails to delivery any or all the goods mentioned in the purchase order or within any extension thereof granted by BEDF
 - If the vendor fails to perform any other obligation under the contract
- 22 **Termination for Cause:-** BEDF may at any time terminate the purchase order / contract in whole or in part by giving written notice to the vendor, without compensation to the vendor:
- If the vendor in the judgment of BEDF has engaged in corrupt or fraudulent practices in competing for or in executing the contract.
 - If the vendor is declared insolvent / bankrupt in a court of law or such proceedings are contemplated by BEDF.
 - If the vendor goes into dissolution or liquidation or transfers substantial part of its business or assets.
- 23 **Intellectual Property Rights:** - The Vendor shall indemnify BEDF against all third party claims of infringement of Patent, Trademark, Copy Rights or Industrial Design rights arising from the use of the equipment / goods or any part thereof in India.
- 24 **Training clause:** - Specific mention should be made about the Training facility available in India or abroad. Prices should be quoted inclusive of training cost.
- 25 **Pre installation requirements:** - The Bid must contain details with specification of items required for installation (Pre-Installation Requirements (Air/water) Electrical Power/Temperature & Humidity Control / Foundation/ Space and any other requirements to complete installation at BEDF, Modipuram.
- 26 **Order acknowledgment:-** Within 15 days from the date of Purchase order /

Contract the Order / Contract should be acknowledged by the Vendor (Indian OEM / Foreign Principal) failing which it will be deemed that the vendor is not interested in the contract / purchase order and the bid security will be forfeited without any further recourse.

- 27 **Performance Bank Guarantee:** - The vendor should furnish a performance bank guarantee from a nationalized bank in India. The Bank guarantee should cover the warranty period plus three months from the date of installation of the equipment. The value of the Bank guarantee is 10% of the order / contract value. This PBG must be submitted prior to opening of the Letter of Credit.
- 28 **Power supply available :**The system should be able to operate on 220/230V, 50 Hz single phase AC Power supply.
- 29 **Risk Purchase Clause:-** If the Supplier fails to deliver the goods within the maximum delivery period specified in the Purchase Order, BEDF may procure, upon such terms and in such a manner as it deems appropriate, Goods or Services similar to those undelivered and the Supplier be liable to BEDF for any excess costs incurred for such similar Goods or Services.
- 30 **Responsibility:-**The responsibility lies with the successful bidder, if any damage or loss to the property of the Institute occurs while undertaking the contract.
- 31 **Warranty, Defects & Liability Period:-** (Warranty) 5 years comprehensive warranty from the date of completion of installation and delivery at BEDF, Modipuram, demonstration as certified by BEDF. The supplier should rectify free of cost any defect that may develop in the system during the warranty period. The warranty period shall automatically stand extended by the time taken to rectify the defects. The Firm should give a warranty certificate as per the format attached in the bid Document.
32. **User List:-** A signed list of quoted equipment supplied by the bidder to the Other labs, R & D Institutions like CSIR/ ICAR/ ICMR/DAE/ DRDO/ DST/DBT/other Govt. or autonomous research Labs in India Undertakings, reputed private concerns specially working in the field of food industry, should be furnished, indicating capacity, model, type of equipment address of the parties
- 33 The acceptance of the bid will rest with the BEDF, which does not bind itself to accept the lowest bid and reserves the right to reject, or partially accept any or all the bids received, without assigning any reason. The deliverables corresponding to the price would be the main criteria in selection of an equipment and acceptance of the bid in respect of the same. The bids

are liable to be rejected, if any of the conditions are not complied with.

34 Evaluation & Comparison of Bids.

Bids in respect of models meeting technical specifications provided for the equipment which would offer higher capability of testing/cost efficiency would be evaluated as follows:

34.1 Indigenous Offer

Final Landed Cost (F.O.R. BEDF Stores) including Freight, Insurance, Taxes, Packing and Forwarding shall be the basis of Evaluation.

34.2 Imported Offer

CIF (International Airport in India) Plus 20% (Loading) to cover Custom Duty, Freight, Insurance, Bank Charges (in India), Clearing & Forwarding charges at New Delhi, and ex. rate variation thus giving the total landed cost at BEDF, Stores, New Delhi will be the basis of evaluation and price comparison. Rate conversion to INR will be at the Exchange rate (RBI ref. rate as on Bid opening date).

35 Terms and conditions for Indigenous or for Indian Rupees Offer-

35.1 Prices: - Prices in the Price Bid should be quoted either ex-works or on free delivery at the destination basis. If it is ex-works then the packing and forwarding charges, Insurance (from ware house to warehouse with all risks covered on 110% of the value) charges, Freight charges by road (any reputed transporter) / Courier (any reputed courier) on door delivery basis must be clearly mentioned. Quotations without these details will be summarily rejected.

35.2 Custom/Excise duty: - Present rate of duty applicable to be indicated clearly

35.3 Taxes: - In the case of indigenous item, the rate of Sales Tax/Value Added Tax should be clearly indicated wherever, chargeable.

35.4 Packing and Forwarding:- The packing and forwarding charges should either be included in the Unit rate or quoted as a percentage of the Purchase order or quoted as a lump sum amount.

35.5 Insurance:- Vendor to insure the goods for a value equal to one hundred and ten percent (110%) of the order value on warehouse to warehouse basis. On the basis of All Risks (Institute Cargo clauses) or on equivalent terms. With underwriter (s) or Insurance Company (s) of good repute.

- 35.6 **Freight:-** If the consignment has to be dispatched by Road transport / courier then only reputed transporters / reputed courier are to be used by the vendor and consignment to be dispatched on Freight pre paid basis and door delivery basis. If any road permit is required to, the same may be given by BEDF.
- 35.7 **Banker's address:** - Our bankers are Canara Bank, Hauz Khas Branch, New Delhi, India.
- 36 **Service and Application support:-** The post installation warranty and application support is required to be provided by your nearest service centre. Hence mention the contact address, with contact person and telephone numbers. Preference will be given to the vendors having application support in India, particularly, in or around Delhi.
- 37 **Payment terms:** - No advance payment shall be made. 90% payment will be released within 30 days after successful installation of the equipment at BEDF, Modipuram and 10% on submission of a performance Bank Guarantee valid till the expiry of the comprehensive warranty period and additional three months thereafter.
- 38 **Documents:** - The following documents are required. The invoice will not be paid until supported by all the supporting vouchers.
- 38.1 Invoice in triplicate showing the Purchase order / contract number, goods description, quantity, unit price and total amount The invoice should be duly Pre receipted on a revenue stamp (revenue stamp mandatory vide Indian Stamp Act for amount exceeding Rs. 5000/-)
- 38.2 Acknowledgement of the receipt of goods from the consignee by the transporter/courier
- 38.3 Insurance certificate / Premium Paid Voucher / Policy if any.
- 38.4 Manufacturer's warranty certificate
- 38.5 Inspection certificate issued by the nominated inspection agency, if any (nominated as per contract) or the Vendor's inspection / testing report
- 38.6 Packing list (two copies) identifying the contents of each package
- 38.7 Delivery challan / Delivery note in triplicate

- 39 **Import License:** - The ordered materials would be imported under Open General License. Hence, no license is required.
- 40 **Export License:** - If the ordered equipment are subject to Vendor procuring an export license from the designated government agency / Country from where the goods are shipped / sold , the vendor has to mention the BEDF as buying agency in India. The vendor must also mention the time period within which the license will be granted in normal course.
- 41 **Indian Agent's Commission, if any :** If you have any Agents in India, please confirm that the IAC (Indian Agency commission) is included in the Ex-Works Price. Please note that under the Government of India regulations, Commission to Indian Agents is payable only in Indian Currency after installation & commissioning is completed. The role played by the Indian Agents in rendering assistance to BEDF must also be specified and copy of authorization letter enclosed in the technical bid.
- 42 **Country of Origin:** Please specify place/Country of Origin and the Place / country from which goods will be finally shipped. These particulars are very important for establishment of L/C, arranging insurance etc.
- 43 **Inspection:-** The Indian agent / Indian branch Office will be intimated immediately after the receipt of the consignment at BEDF Stores. The consignment will be jointly inspected by the Stores personnel, Technical Personnel of BEDF and the representative of Indian agent within 24 hours after receipt. The consignment will be compared with the purchase order and packing list. Any excess supply, shortage, wrong supply and any damage will be noted immediately and intimated to the vendor. Damaged and unaccepted supply will be returned to you at your risk and cost. The vendor should ship the shortage and replace the damaged /wrong shipment at no cost to BEDF.
- 44 **Installation and Commissioning:** - BEDF requires the assistance of the Indian agent / Indian branch office during installation, commissioning of the equipment. Training for the personnel at the installation site at Modipuram is also mandatory.
- 45 **Service:-** The Indian agent / Indian branch office of the foreign principal should support the equipment fully during the warranty period. If BEDF requires AMC during the post warranty period the Indian agent / Indian branch office must fully offer full support. Support & Service must be concurrent to the Manufacturer's certified Equipment Lifetime.

- 46 **Change of Indian Agent:-** If there is any change of Indian agent during the warranty period / post warranty period the foreign principal must intimate BEDF immediately with the new company's name and address.
- 47 **Import Payment:-** Letter of Credit will be established for 100% of CIF value. Payment will be released in two parts:
- 47.1 90% after negotiation of original documents after dispatch of the item ordered and 10% after complete supply, installation and commissioning and demonstration of the item ordered and furnishing 10% performance Bank Guarantee on any Nationalized Bank in India by Foreign Principal/Indian Agent valid till the expiry of the comprehensive warranty period and additional three month thereafter. Alternatively 100% payment will be released on negotiation of shipping documents subject to submission of two performance bank guarantees each having value equivalent to 10% of the ordered value, one PBG will be valid till installation of the equipment and validity of another PBG will be till completion of warranty period + two months.
- 47.2 If the Letter of Credit is required to be extended / reinstated for reasons not attributable to BEDF, the Bank Charges thereof shall be to the Beneficiary's account.
- 48 **Documents:-** The following documents are required by us at the time of negotiation of documents for Letter of Credit within 48 hours of shipment.
1. Commercial invoice – 4 copies (original)
 2. Packing list – 2 copies
 3. Country of Origin – 1 copy
 4. Master Airway Bill – 2 copies
 5. Warranty certificate – 2 copies

**DIRECTOR,
BEDF, NEW DELHI**

Technical Specifications

Sr. No.	Description	QTY
	<p>A bench top ICP-MS system is required for elemental analysis in a range of samples. The instrument must be suitable to follow the guidelines of International Food Safety Standards and Regulatory Agencies such as Codex, USFDA, European Commission. The system should be compatible with HPLC and GC coupling. For a complete solution following modules need to be provided:</p>	01
A.	<p>ICP-MS</p> <p><u>Sample Introduction System:</u></p> <ul style="list-style-type: none"> • The sample Introduction system should have very low dead volume with low uptake rate (0.25 ml/min or better) to reduce the waste generation. • The sample Introduction system, torch & cones should be easily accessible. <p><u>Ion Source and RF Plasma:</u></p> <ul style="list-style-type: none"> • The instrument must have computer controlled 40/27MHz RF Generator operating from 500 to 1600 watts for automatic control of torch ignition, shutdown and system warm up. <p><u>Ion Extraction Interface:</u></p> <ul style="list-style-type: none"> • Standard large orifice Ni sampling and skimming cones to suit all applications, preferably with hyper skimmer cone for tightly defined ion beam. • The cones should be easily removed, cleaned and replaced. <p><u>Ion Focussing System:</u></p>	

- The ion focusing system should be capable of removing all neutrals & Photons from the ion path.
- It should be a maintenance free type.

Sensitivity:

- Sensitivity should be capable to quantify from ppt level to high ppm levels without dilution.

Cell Technology:

- System should be provided with a Cell technology to remove polyatomic & Isobaric Interferences.
- The system must have capability to use reactive gas/gases to chemically move the interference by a scanning quadrupole and also use non reactive gas/gases to collide with the interfering ions to remove them through KED. The Reaction cell System must work Low & High Mass cut off using the Quad scanner & allowing only a specific m/z ratio Ion to be ejected from the reaction cell.
- The cell should not require any regular cleaning or maintenance. A functionally equivalent system will be acceptable.

Quadrupole:

- The quadrupole mass filter should be stable and provide resolution of 0.4 amu or better.
- The analyzer quadrupole must have the ability to discretely control the resolution of selected mass regions dynamically, without affecting the overall nominal resolution of the system for non-“custom-controlled” mass region.
- The Mass range should be from 5 - 260 Amu or better to allow the analysis of radioactive elements & Actinides.
- The Dwell time should be as short as 0.1 ms for fastest settling.

Ion Detector:

- The ion detector should be simultaneous discrete dynode electron multiplier, and allow element concentration calibration over a full 9 orders magnitude of dynamic range in a single scan using both analog and pulse ion counting mode.
- The data acquisition rate should be 5000 amu/sec or more.

B. LC-ICP-MS Interface-

An Integrated HPLC-ICP-MS Interface to be provided which should include Quarternary Pump, PDA detector, degasser , flow cells, column heater, Programmable temperature control Auto sampler, Speciation column for Chromium & Arsenic all required accessories & reagents. The system must have Automatic switch valve to transfer Column elution from Column outlet to ICP-MS without any manual Intervention. It should be programmable & control from single software. The full configuration of HPLC-ICP-MS & transfer valve must be under one single software control. The vendor must demonstrate the functional operation of Speciation of any one element for performance verification at any reputed Government research Laboratory in India.

HPLC Specs

Flow rate 0.02 to 8.0 mL/min or better with a pressure of 6000 psi or better for the entire flow rate range. Photo diode array detector with diodes 512 or better. Wavelength range 200-650nm or better, Noise: $\pm 1.5 \times 10^{-5}$ AU peak to peak at 254 and / or 650 nm, 20-nm bandwidth 2 sec response time.

C. GC-ICP-MS Interface-

An Integrated ICP-MS-GC Interface consisting of GC with

	<p>Programmable Pneumatics, PTV injector. Auto-sampler for Liquids sampling, heated transfer line, Control panel to control GC program. Columns for speciation studies should be quoted. Suitable start up kits & standards for speciation studies should be provided.</p> <p><u>GC Specs</u></p> <p>Oven temp should be up to 500°C or better with 5 or more temperature ramps with temperature set point resolution 1°C or better. FID detector with min detection limit <5pg or better. TCD detector with minimum detection limit of < 5ppm with nonane. Auto-sampler with 90 positions or more.</p> <p><u>D System Controller and Operating System</u></p> <p>Suitable Data station with all required Software & free future upgrades with additional controls like Laser Ablation, HPLC Interface, GC Interface, Ultrasonic Nebulizer and Auto sampler control possible with Instrument software. The system should also be provided with heavy duty laser printer (capable of duplex printing) and thermal printer. Two independent desktop computers to be provided (i7processor, 16GB RAM, 1 TB hard disk or better) for data analysis. The supplier should provide fully integrated operating software and hardware (required for appropriate operating of the ICP-MS, HPLC and GC systems). No manual operation should be required for HPLC-ICPMS work, including the transfer of sample from LC column to ICP-MS via automatic activated switch valve.</p> <p><u>E Microwave Digestion System for preparation of samples</u></p>
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	<ul style="list-style-type: none"> • Vessel type: 8 or more Rotor Assembly Power: Un-pulsed Microwave power from 0 to 1400 W using 2 magnetrons and power increment should be with 1 Watt. • High Pressure Quartz /TFM Vessels (>200°C) to be provided. Each vessel should have ceramic liner for support. Pressure and IR Temperature sensor should be built-in for each vessel and should display the same on screen. The vessels provided should have the guarantee of safety and reliability in sample preparation.
F	<p><u>All Accessories and Standards (ICP) to be provided</u></p> <ul style="list-style-type: none"> • Installation and Operational kits for installation and demonstration • Multi element Performance Standards • Argon Gas Cylinder – 4 Nos, Nitrogen gas cylinder 1 No., Hydrogen gas cylinder -1 no., Helium gas cylinder (1 liter Ultra pure helium), Reaction gas cylinder (Minimum two reactive gases 1 liter each) along with suitable regulators. • A suitable two stage water purifier system for ICP-MS grade water to be provided along with the system • On-Line 20 KVA UPS along with 100/150 AH batteries for a minimum backup time of 3-4 hrs. • PC, Printer, Sensitive weighing balance (capable of weighing up to 0.01 mg) and Fume Hood should be quoted separately. • Also quote for spares and consumables required for all the operations for three years.
G	<p><u>Service/support by the vendor</u></p> <ul style="list-style-type: none"> • The vendor must provide complete service support right from installation stage till day to day operations, post installation for five

<p>H</p> <p>I</p>	<p>years.</p> <ul style="list-style-type: none"> • Troubleshooting services to be provided (within 48 hours) either by remote monitoring or onsite support for both hardware and software related problems. Vendor should be able to provide full training for various operations in their own lab and also at our Centre. <p><u>Warranty</u></p> <ul style="list-style-type: none"> • Comprehensive warranty for five years for complete package including spares need to provided. <p><u>General</u></p> <ul style="list-style-type: none"> • The vendor should be able to provide all the modules of ICP-MS system. • Separate technical sheet [in order of tender document, compliance certificate and detailed literature from the manufacturers, extensive user list (both India and abroad)] and price bid (in sealed envelope) should be provided. 	
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Annexure A

Format of Technical Compliance of Specifications

Name of Equipment: -----

Sl. No	Name of Specifications / Parts / Accessories of Tender Enquiry	Specifications of Quote Model / Part / Accessory	Compliance Whether Yes or No	Deviation, if any to be indicated in unambiguous terms (The compliance / Deviation should be supported by relevant Technical Literature)	Technical Justification for the Deviation, if any. If specification is superior / inferior than asked for in the enquiry, it should be clearly brought out in the justification
1	Specifications for Instrument				

Signature of Bidder

- Bidder may offer more than one model for the equipment. In such cases, the Technical Compliance Statement must be enclosed for each and every model separately.
- If the Bidder fails to enclose the compliance statement, his bid is likely to be rejected.

Annexure B (Price Schedule)

Cost of the Equipment, parts and Accessories and Other Details Offered

Separate Price Schedule to be attached for each model offered by the bidder for this equipment

1	2	3	4	5	6	7
S No	Description of Goods	Country of Origin	Delivery Schedule	Quantity and physical unit	Unit price on CIF basis	Price per line item (Col. 5x6)
1						
2						
3						
4						
Total Price						

Signature of Bidder

General Guidelines for furnishing breakup

Total Cost of the Basic Equipment / System (In case of Imports without incidence of Custom Duty.) to be indicated on CIF basis which should include :

- *Ex-Works Prices*
- *Cost of Handling, inland Transportation, insurance charges etc. (Nearest International Airport).*
- *Estimated Cost of Air / Ocean Freight, insurance, transportation etc. up to New Delhi airport / Seaport. / CIF Prices New Delhi (Shipment by air / sea to be clearly mentioned)*
- *Agency Commission payable to Indian Agent as percentage / annuity (BEDF will pay the Indian Agent in Indian Rupee only after satisfactory installation and commissioning of the Equipment – Agency commission is calculated from the Ex works Price.*

Or

Total Cost of the Basic Equipment / System (In case of Indigenous offers

- *Ex-Works Prices*
- *Cost of packing, forwarding, freight, insurance charges etc. up to New Delhi.*
- *Sales tax*

Cost of Each Spare / Part / Accessory Banking Charges (in case of Imports) In case of Letter of Credit:

- *Banking charges inside India and Outside India (To whose account to be clearly indicated for Establishing LC)*

- *Confirming Bank's Address if any, to be clearly indicated*

In Case of Telegraphic Transfer / Swift Transfer:

- *Address of Banker with Account Number and Swift Code*

Training Costs should be included in the Price

Additional Information:

S. No.	Item	Terms of Bidder
1	Payment Terms	
2	Delivery Period	
3	Installation and commissioning time	
4	Country of Origin	
5	Port of Shipment (By Air / Sea to be clearly indicated)	
6	Net Weight of The Equipment and Gross Weight after Packing	
7	Net Dimensions of the Equipment and Gross Dimensions after packing (with number of packages)	
8	Company Name and Address on whom the order has to be placed	
9	AMC Charges Per Year after Warranty Period	

Signature of Bidder

Annexure C

Deviation Statement Form

The following are the particulars of the deviations from the requirements of the Bid Document terms and conditions:

S. No.	Clause in the terms and conditions	Deviation	Justification for the deviation

Signature of Bidder

Annexure D

After Sales Service Support Details

S. No.	Local Address, telephone numbers, fax numbers and email address of the Company/agent responsible to provide after sales support	Number of engineers / service personnel who are stationed at the local address	Number of application specialists who are stationed at the local address	Any special facility available for the after sale support

Signature of Bidder

Annexure E

List of Users for a period of 3 years preceding this bid (For similar equipment, preferable similar model)

S. No.	Order for similar equipment placed by (full address of purchaser with contact person, telephone number)	Description of model	Quantity	Date of completion of delivery as per contract and Date of installation / commissioning as per contract	Reasons, for delay in delivery, installation and commissioning; if any

Signature of Bidder

Annexure F

WARRANTY CERTIFICATE

We warrant that everything to be supplied by us hereunder shall be brand new, free from all defects and faults in materials, workmanship and manufacture and shall be of the highest grade and quality and consistent with the established and generally accepted standards for material of the type ordered shall be in full conformity with the specification, drawing, or samples, and operate properly. We shall be fully responsible for its efficient operation. This Warranty shall survive inspection of any payment or and acceptance of the goods but shall expire after (except in respect of complaints of which the contractor has been notified prior to such **date**) five years after the installation, and acceptance by BEDF.

The obligations under the Warranty expressed above shall include all costs relating to labor, spares, maintenance (preventive and unscheduled) and transport charges from site to the manufacturers work and back and free repair/adjustment or replacement at site or any parts of the equipment which under normal and proper use and maintenance proves defective in design, material or workmanship or fails to conform to the specifications previously given by the BEDF to the contractor.

Signature of the Bidder

Annexure G

BID SECURITY/EARNEST MONEY DEPOSIT FORM

Whereas(insert *Name of Bidder*) (*hereinafter called “the Bidder”*) has submitted its bid dated (*date of submission of bid*) for the supply of (*name and/or description of the goods*) (*hereinafter called “the Bid”*).

KNOW ALL PEOPLE by these presents that WE..... (*name of bank*) of (*name of country*), having our registered office at(*address of bank*) (*hereinafter called “the Bank”*), are bound unto (*Name of Purchaser*) (*Hereinafter called “the Purchaser”*) in the sum of for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this...day of..... . The conditions of this obligation are:

1. If the Bidder withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form; or
2. If the Bidder, having been notified of the acceptance of its bid by the Purchaser during the period of bid validity:
 1. Fails or refuses to execute the Contract Form if required; or
 - (b) Fails or refuses to furnish the performance security, in accordance with the Instruction to Bidders.

We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee shall remain in force up to and including forty five (45) days after the period of the bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

..... (Signature of the Bank)

Annexure H
Check List to be furnished by the Bidder

1	Whether the l Bid has been signed in every page – Yes / No.	
2	Whether the printed catalogues and specification sheet, application notes, users’ list has been attached in bid- Yes / No.	
3	Whether valid documentary proof of Sales Tax/VAT, Service Tax registration number and the details of income tax registration (PAN).Yes/No	
4	If Quotation is from Indian agent / Dealer – whether letter of Authorization of Foreign principal is enclosed in the l bid – Yes / No.	
5	EMD – Whether the required EMD is Enclosed along with the bid – Yes / No.	
6	Whether Technical compliance Statement in the format given in Annexure A is enclosed in the Bid– Yes / No.	
7	Whether the Deviation Statement in the format given in Annexure C is enclosed in the Bid – Yes / No.	
8	Whether Details of after sales support is given as per format in Annexure D and is enclosed in the Bid– Yes / No.	
9	Whether the List of Users is given as per Annexure E and is enclosed in the Bid– Yes / No.	
10	Whether the warranty certificate is enclosed as per Annexure F and is enclosed in the Bid – Yes / No.	
11	Whether the Pre-installation requirements is given in the bid – Yes / No.	
12	Whether the Price schedule is as per the format given in Annexure C – Yes / No.	

Signature of Bidder