

EXPORT INSPECTION AGENCY-MUMBAI
(Ministry of Commerce and Industry-Govt. of India)
Aman Chambers, 4th Floor, 113 Maharishi Karve Road, Mumbai-400004

Limited Tender Enquiry No. EIA/ MUM/ TENDER/PTH /2011

To,

All Prospective Bidders

Sub: Purchase of Laboratory equipments/instruments/items under plan fund for the year 2010-11 under limited tender enquiry - Reg.

Sir,

Sealed quotations are invited for supply of following Laboratory equipment/instruments/items for Pilot Test House, Export Inspection Agency-Mumbai. The details of the requirements are as given below:

Sl. No.	Description	Quantity
01.	Microwave Digestion System	1 No.
02.	Modular work bench for chemical section	1 No.
03.	Laboratory Homogenizer	1 No.
04.	Twin cooling system Refrigerator	1 No.
05.	Electronic Balance	1 No.

The terms and conditions and Instructions to Quotationers are as follows:

A. Prices:

- i) Prices quoted must be firm and shall be in Indian currency (INR). In case the items are imported the prices quoted should be also in Indian rupees (INR).
- ii) Prices must be stated for each item separately. The percentage of discount, in any, on each item as well as on total price for the entire demand should be quoted if the order to that extent be placed with the quotationer.
- iii) Price quoted should be deemed to include free delivery at Pilot Test House-Mumbai.

B. Duties and Taxes:

If it is desired to ask for VAT or any other charges including Octroi and Sales tax to be paid extra, the same must be specifically stated with applicable rates and amount. In the absence of any such stipulation in the quotation it will be presumed that the prices quoted by the quotations are inclusive of such duties. Octroi, taxes and other charges and no liability for such payment will be developed upon purchaser.

C. Delivery Period: Delivery period shall be preferably within 45 days from the date of placement of Order. However, preference may be given to the quotationers who could supply the material immediately or earlier than the due date which shall be specifically mentioned in the quotation/offer. The delivery period mentioned in Purchase Order/Tender should be adhered to. Goods should not be dispatched until the vendor receives a firm order.

D. Terms of Payment: Payment will be done on satisfactory receipt of goods as per the requirement/ details given in Annexure I. Payment will be done after raising the BILLS/INVOICE, subject to successful installation and commissioning of instrument

E. Mode of Submission of Quotations:

- (i) All quotations shall be submitted in the letter-head/Proforma Invoice of the firm in English or in Hindi.

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- (ii) Quotations received after the last date i.e. 14th day (16.00hrs) from the date of publication on website may not be considered.
- (iii) Quotations shall be enclosed in envelope duly sealed and superscribed on the envelope in bold letters " Quotation for Laboratory equipments/instruments/items". The envelope should be addressed to the Deputy Director (A&A), Export Inspection Agency-Mumbai, Aman Chambers – (4th Floor), 113, Maharishi Karve Road, Mumbai – 400 004
- F. The details of Laboratory equipments/Instruments/Accessories with configuration/technical specifications/requirements/application area are provided in Annexure-I. The Laboratory equipments/Instruments/Accessories may be indigenous or imported in full or part. The same should be specifically mentioned including the name of the equipments/components/accessories, which are not indigenous. Laboratory equipments/Instruments/Accessories with latest technology may be given preference.
- G. All necessary catalogues/applications vis-à-vis configuration/technical literatures/ data/ application notes etc. as are considered essential for full and correct evaluation of the offers made shall invariably accompany the tender.
- H. Instruction/operation Manual and application notes as necessary to enable the user to put the equipments/ Instruments/Accessories etc. for proper use are to be provided.
- I. The supply of spare part is to be guaranteed at least for a period of 5 years after the supply of the equipment.
- J. Offers made with alternative/equivalent specifications should contain sufficient details to show the alternate would serve the purpose.
- K. Mention clearly the address and contact details of their authorized service centers for service/repair of the equipments available. Supplier having such arrangements near Mumbai would be preferred.
- L. Right of Acceptance of Offer: Incomplete offers are liable to be rejected. The purchaser reserves the right to accept or reject any offer in whole or in part without assigning any reasons. It would, therefore, be in the interest of the quotationers to clearly understand that the purchaser may accept offers for any item or quantity of the quotation offered of his choice and the quotationers shall supply the same at the rate quoted.
- M. Opening of Quotations: The quotations shall be opened on the 15th day (11.00hrs) from the date of publication on website in the office of Export Inspection Agency-Mumbai, Aman Chambers – (4th Floor), 113, Maharishi Karve Road, Mumbai – 400 004 in presence of such quotationers who wish to be present during the opening of the quotations.

Yours faithfully,

(S.V More)
Deputy Director (A&A)

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DETAILS OF LABORATORY EQUIPMENTS/INSTRUMENTS/ACCESSORIES
ETC.WITH CONFIGURATION AND TECHNICAL SPECIFICATION/REQUIREMENT

ITEM NO 1.

Microwave Digestion System: Microprocessor controlled closed vessel digestion system with temperature and pressure controlled, for digestion of heavy metals samples of various food matrix

- a) Should have installed power of upto 1700 watts and should be a dual magnetron system.
- b) Must have a microwave power output of at least 1400 watts, delivered from 2 magnetrons for homogeneous heating.
- c) Cavity should be with multi-layer PTFE coating and volume should be around 50 litres or more to easily accommodate various accessories.
- d) System must have built-in high performance vessel cooling. Airflow should be variable and controlled by system software.
- e) System must have built -in control and graphic display for all routine operations. It should have possibility of connection with an external PC to view the process.
- f) Should also have possibility to store, modify and recall custom programmes for process runs. Necessary Software to interface with external PC should be provided.
- g) Computer and printer should also be offered as per requirement to operate the system.
- h) The graphic display should show graph of Temperature, Pressure and Power against Time and also the online numerical readings of Pressure, Temperature and Power.
- i) System should be able to store around 400 methods or more and should have a comprehensive library of tested methods including EPA and ASTM methods.
- j) System must be capable of processing 16 reaction vessels
- k) All sensors should possibly have wireless data transmission to the system electronics.
- l) Should have IR temperature sensor for remote/non-invasive measurement of temperature at all the vessel positions.
- m) Should have immersion type temperature /pressure sensor for precise reaction temperature control in reference vessel with no need of connecting any cord to the chamber of oven.

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Vessel Specifications compatible for handling all Food Matrices including Fish and Meat.

- a) Volume: Max.100 ml (as per EPA 3015A)
- b) Maximum Pressure: upto 70 bar (1740 psi)
- c) Max. Operation Temperature: around 240 deg C
- d) Material Design Pressure: approximately 140 bar (2000psi)
- e) All vessels should have simple hand tightening made of chemically inert TFM for hermetic closure. No special tools must be required to close the vessels.
- f) Reaction vessel must have reliable safety disks for overpressure protection.
- g) System must have (magnetically) resealing and impact resistant safety door with interlocks for safe release of overpressure.
- h) Should have software safeguards for rotor identification and over-pressure settings.
- i) IQ, OQ, PQ should be done at the time of installation.
- j) All food related application notes should be provided including Fish and Meat matrix.

Quantity required: 1 No.

ITEM NO 2.

Modular Island work bench for Chemical section-Island work bench with reagent rack for wet chemistry analysis section

- a) Island work bench with granite top and reagent rack shall have a bench height of 900mm, Width of 1500mm, length 1800mm
- b) The Island table shall have appropriate number of shutter and drawer according to the size (Four drawers and two shutters etc).
- c) The Island table shutter and drawer should be of durable wood.
- d) The Island table doors shall have Hinges (opening type).
- e) The Island table shall have adjustable shelves
- f) The Island table shall have powder coated drawer slides.
- g) The Island table shall have locks of high quality.

Quantity required: 1 No.

ITEM NO 3.

Laboratory homogenizer- High speed bench top laboratory homogenizer for homogenization of food samples including fish and meat for pesticides, Antibiotics, TVBN etc.

- a) The homogenizer should be bench top or post mounted
- b) The homogenizer should have an inbuilt speed controller
- c) The speed shall range from 5,000-30,000rpm.
- d) The sample homogenization volume shall range from 0.03ml to 1 litre
- e) The homogenizer shall have very low noise.

Quantity required: 1 No.

ITEM NO 4.

Twin cooling system refrigerator: The twin cooling system refrigerator *i.e* separate refrigerator cum freezer independently operative for sample storage and storage of media, standard etc.

The Refrigerator should meet the following specification

- a. The refrigerator should have two separate compartments for refrigeration and freezing which are individually operated. Freezer compartment and Refrigerator compartment should be situated side by side vertically and not Top & Bottom.
- b. Capacity: Approximate 570 litres or similar
- c. Should have a digital display and control panel depicting freezer temperature and refrigerated temperature.
- d. Automatic defrosting system with multi airflow.
- e. Should have an open door alarm.
- f. Freezer temperature should be set between -15° to -25°C
- g. Refrigerator temperature should be set between 2 to 8°C

Quantity required: 1 No.

ITEM NO 5.

Electronic Analytical Balance: Electronic analytical balance is required for weighing chemicals

The balance should meet the following specification

- a. Capacity: upto 320gm
- b. Least Count: 0.1 mg
- c. Readability: 0.1 mg
- d. Calibration (Internal): Fully automatic, time/temperature controlled
Self adjustment Balance must be provided with calibration certificate having traceability to National or International standard. Calibration shall also be done on site after installation.
- e. Calibration (external): Adjustable with external weight.
- f. Four digits digital display.
- g. Vibration adaptor for damps influence due to vibration and minor shocks.
- h. Operation manual and maintenance manual free of cost.
- i. Service manual with set of required tools if any.

Quantity required: 1 No.