

REQUIREMENT OF EIA-KOLKATA , LABORATORY

Name of Equipment : Microwave Digestion System

Uses/Application : The Microwave digestion system is required for Preparation of Food sample viz Fish & Fish Products (shrimps), Tea etc. for analysis of Heavy metal by using AAS with flame and graphite furnace. The system should have following features.

Detail Specification :

- The microwave power output of atleast 1300 watts or greater, delivered with homogeneous heating.
- Microwave system should deliver unpulsed Microwave energy output over the whole power range of 1300 watts or greater for precise reaction control.
- Cavity volume should be more than 50 Liter to accommodate various accessories
- System should have built-in high performance. Cooling system for removal of gases and cooling vessel. Air flow should be variable and controlled by system Software.
- To ensure user safety during handling, vessels must be cooled inside the oven.
- System should 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. Should be quoted with Software to interface with external PC including branded printer.
- Should have possibility to store, modify and recall custom programmes including Cook Book EPA methods for process runs.

Rotor System

- System should capable of processing 12-16 or more reaction vessels simultaneously.
- Should have provision for magnetic stirrer in each vessel position.

Sensor System

- Should have single, integrated immersion sensor for both Pressure and Temperature with wireless transmission of data to system electronics and optionally temperature sensor on each vessel.

Vessel Specifications

- Volume : 50-100ml or more
- Maximum Pressure : 70 bar (1000 psi) or more
- Max Operation Temperature : 200° C or more
- Vessel material : PTFE / T FM
 - 1.All vessels should have simple hand tightening closure.
 - 2.Reaction vessel must have reliable metal safety disks for overpressure protection
 - 3.Each pressure vessels should individually tested & deliverance with pressure test certificate

Safety Features (Certified safety system)

- System must have (magnetically) resealing safety door for safe release of overpressure.
- Should have software safeguards for rotor identification and over pressure settings.

Optional Accessories

- It required for digestion of Fish (shrimps), Tea etc. and other Food samples

**LABORATORY / INSTRUMENTS / ACCESSORIES FOR EXPORT INSPECTION
AGENCY- KOLKATA LABORATORY**

TERMS & CONDITIONS AND INSTRUCTIONS TO QUOTATIONERS

1. **INVITATION**

Sealed quotations are invited for supply of Laboratory Equipments/ Instruments /Accessories for the Export Inspection Agency - Kolkata.

2. **APPLICATION REQUIREMENTS**

The details for application requirement are given under Annexure.

3. **SPECIFICATION**

- (a) The details of laboratory equipments/ instruments/ accessories/ specification requirements and technical data are provided in Annexure
- (b) If a particular instrument/equipment including accessories is available both indigenously and also imported then offers may be made for both the instrument / accessories i.e. indigenous and imported separately in Indian currency.
- (c) Equipments /Instruments with latest technology based on software and/or digital display system and /or with printout devices for test results may be given preference.
- (d) Equipments /Instrument should be provided with the required calibration certificate wherever applicable.

4. **ALTERNATIVE OFFERS**

- (a) If any deviation or substitution from the specifications of the equipments contained in Annexure to this quotation document is involved this should be clearly indicated in the quotation.
- (b) Offers with alternative/equivalent specifications made should contain sufficient details to show the alternate would equally serve the purpose.
- (c) All necessary catalogues/applications vis-a-vis configuration/technical literature/data/application notes/detection limits, etc. As are considered essential for full and correct evaluation of the offers made shall invariably accompany the offers.

5. **PRICES**

- (a) Prices must be stated for each item separately. The percentage of discount, if any, on the 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.

- (b) Price should be for delivery F.O.R Kolkata inclusive of charges such as packaging, forwarding, transit insurance, octroi where applicable . In case of local deliveries F.O.R Kolkata prices shall be deemed to include free delivery at EIA - Kolkata Laboratory.
- (c) Prices quoted must be firm and shall be in Indian currency.

6. **DUTIES & TAXES**

If it is desired to ask for excise duty 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 quotationer are inclusive of such duties, octroi, taxes and other charges and no liability for such payments will be developed upon purchaser.

7. **VALIDITY OF OFFERS**

Offers made shall remain open for acceptance for 60 days from the last date specified for receipt of offers. If the tenderers are unable to keep their offers open for 60 days , the should specifically state the period for which their offers are open. Tenderers may further note that in the absence of any indication in their tender it will be assumed that their offer will remain open for acceptance for a period of 60 days.

8. **DELIVERY PERIOD**

Delivery period for equipment/instruments/accessories **should be within 4 weeks from the date of placement of Order.** However, preference may be given to the quotationers who could supply the materials immediately or earlier than the due date which shall be specifically mentioned in the quotation /offer.

9. **INSTALLATION, COMMISSIONING AND TRAINING**

Quotationers must clearly and separately furnish in their offers the terms of installation, commissioning including training for operating the equipments and on application requirements, wherever necessary. Whether onsite training both for operational & application purpose at Export Inspection Agency-Kolkata will be offered with duration (i.e. 15 days or 1/2/3 months) may also be mentioned. For training at Quotationers Application Laboratory/site, the venue, duration and scope of such training may be indicated.

10. **INSTRUCTION MANUAL AND APPLICATION NOTES**

Instruction/operation Manual and Application notes are necessary to enable the user to put the equipment/instrument/apparatus to proper use. The successful quotationer shall furnish such Instruction/Operation manual and Application note along with the Equipments/Instruments. The quotationer shall clearly specify in the offer about his readiness to supply Instruction/Operation manual and Application notes. Cost, if any, for supply of such Instruction/Operation and Application manuals should be clearly

stated. Such, manuals may also be called for before finalising the purchase. However, preference may be given to the quotationers who submits the relevant Application notes along with the offers/quotation.

11. **GUARANTEE/WARRANTEE**

The successful quotationers shall furnish the following guarantee/ warrantee in case the contract is placed on them :

The equipments offered shall remain in good working condition for a minimum period of 12 months or more from the date of successful commissioning and within this period repair or replacement, if any, shall be provided free of cost. It shall also be guaranteed that spare parts and accessories will be supplied if and when required by the purchase after the warranty period also.

12. **AFTER SALES SERVICE**

The arrangements and charges for after sales service of the equipments should be clearly mentioned.

13. **TERMS OF PAYMENT**

- (a) For indigenous equipments Payment to the extent of 95% will be made after delivery and balance 5 % on successful commissioning, including implementation of Application as required, of the equipment in good and satisfactory conditions.
- (b) For imported equipments/instruments/accessories if Letter of Credit is opened by the local Agent/Subsidiary of the Principal, payment in Indian Rupees to the extent of 50% on production of proof of opening of LC,45% on landing and clearance of the equipments etc. From customs and balance 5% on receipt,installation and commissioning including implementation of Applications as required of the equipment in good and satisfactory conditions.

OR

- (c) In case of Rupee payment of imported instruments in stock with the Agent/Subsidiary,the terms of payment shall be as per clause 14(a) Above.

14. **CERTIFICATE ON CREDENTIALS**

Certificates and credentials of the quotationer's financial standing in support of supplies made by the quotationers to other Government departments/autonomous bodies/local bodies/undertakings etc. Shall be furnished along with the quotation.

17. **RIGHT OF ACCEPTANCE OF OFFER**

Incomplete offers specially with regard to not detailing the specifications of the equipments are liable to be rejected. The purchaser reserves the right to accept or

reject lowest or any offer in whole or in part without assigning any reasons. It would, therefore, be in the interest of the quotationers to clarify understand that the purchaser may accept offers for any part of the configuration offered of his choice and the quotationers shall supply the same at the rate quoted.

18. **JURISDICTION**

All questions ,disputes of differences arising out of contract, if concluded shall be subject to exclusive jurisdiction of Hon'ble court of Justice at Kolkata.

19. **OPENING OF QUOTATIONS**

The quotations shall be opened on the same day at 16.00 hours in the office of Export Inspection Agency-Kolkata, 'World Trade Centre', 14/1B, Ezra Street, Kolkata - 700001 in presence of such quotationers who wish to be present during the opening of the quotations.

20. **PERFORMANCE BOND**

A Performance Bond, in the form of Bank guarantee to be submitted for an amount equal to 10% of the total value of the contract, valid till expiration of the warrantee period shall be furnished, as security deposit for the satisfactory performance of the equipment / instruments/ accessories.

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