



Environmental Geochemistry Laboratory
Department of Civil Engineering
Indian Institute of Technology Kanpur

Inquiry no.: IITK/CE/AS/2022/01

Date: 26.09.2022

Closing date and time: : ~~07.10.2022 at 3 pm~~ (**extended 14.10.2022 at 3 pm**)

Sub: Call for quotation for supply and installation of a “Hot plate and digestion block”

Sealed quotations (**Technical and Financial bids separately**) are invited from authorized suppliers for items and their specifications given below. The quotation for supply and installation of a **Hot plate and digestion block** should be sent in two parts in sealed envelopes, clearly marked as "**Technical Bid**" and "**Financial Bid**". The Technical Bid should contain detailed technical specifications of the product being offered and **should not mention any prices**. The Financial Bid should include the detailed price quotation clearly, including the cost of the equipment, taxes, service charges, shipping and handling charges, if any. Our organization is an educational institute of repute and liable to get maximum education discount from manufacturer. Please specify it, separately.

Vendors or their authorized representatives are welcome at the time of technical bid opening, which will be held at 3:30 pm on ~~07.10.2022~~ (extended 14.10.2022) in Central Stores and Purchase at IIT Kanpur. Only the bids that are considered qualified by the technical committee will be contacted by email to be present at a designated date and time for financial bid opening.

Note: Please provide **clear and to-the-point answers to the specifications listed below, highlighting the technical parameters of your product.** If your specifications differ from the ones asked, please highlight those clearly rather than simply stating a ‘Yes’ or ‘No’ to the specifications. Also, a mere copy-paste of the technical parameters specified in the questions below, or vague or incomplete responses will be rejected. Also, along with your bids **please submit a tender acceptance letter** on your letter head as per the template attached at the end of this enquiry letter.

Targeted application

The purpose of buying hot plate specifically for trace metal analysis through acid/alkaline digestion, total nitrogen, and total phosphorus analysis. In trace metals analysis, consistency in sample treatment during sample preparation is a critical step in terms of data quality. Thus, we want to ensure that the samples must be exposed to uniform heating as far as possible. It will prevent analytical biases owing to incomplete digestion and variability in matrix removal during heating/evaporation processes when placed in a HF-resistant fume hood.



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| S. No. | Product Name & Specifications | Quantity |
|--------|--|-------------|
| 1. | <p>Hot plate</p> <ul style="list-style-type: none"> • The equipment should ensure temperature uniformity across the heating surface. • The equipment should be suitable for trace metal analysis through acid/alkaline digestion, total nitrogen and total phosphorus analysis. • The equipment should be equipped with a temperature controller. The maximum operating temperature should be equal to or greater than 200 °C, with temperature variations within ± 2 °C. • The heated working surface dimension should be approximately 292 mm x 212 mm (11.5 in x 8.4 in) to simultaneously digest at least 16 samples. • The dimensions of the heating block should be such as to easily fit within the hot plate, such as Length= 207 mm (8.2 in); Width = 99 mm (3.9 in); Height = 15 mm (0.6 in); Hole diameter = 23 mm (0.9 in) These holes should be able to take larger volume vials, if needed. • ISO-molded graphite should be used for its superior thermal conductivity, but also to enable the application of a high integrity inert PFA coating. • The heating surface of equipment should have Teflon/ epoxy paint coating to provide chemical resistance against acids and other corrosive chemicals. • Hot plate should be manufactured from low porosity graphite and then sealed with a Teflon™ PFA coating. • Teflon™ PFA coated graphite heating blocks for vials should be sold separately. • The voltage and frequency value should be 230 V AC +/- 10% and 50/60 Hz respectively. • The power value should be around 1800 W. • Plug style should be UK BS 1363A so that compatible with Indian electricity plug-boards. | 1 |
| 2. | <p>The Hot plate unit must include the following (please quote separately):</p> <ul style="list-style-type: none"> • Sample rack/ block with 16 or more positions. • PFA 5 mL vials with caps (16-24 vials; quote price per vial and cap) • IQ / OQ Documents & Operating Manual | 1 1 1 |



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Terms and Conditions:

- The vendor should supply list of installation (minimum 3, in last two years) in India of the same model quoted against this enquiry preferably at IITK.
- Manufacturer should have appropriate certification.
- If the Financial Bid is included in the Technical Bid, then the quotation will be rejected.
- **Quotation should have minimum validity of 60 days from the date of opening.**
- Delivery period should be within 60 days from the receipt of the purchase order. Shorter delivery time may be given preference.
- Taxes, packaging, forwarding freight charges, if any, should be mentioned in financial bid.
- Quotation should carry proprietary certificates and authorization letters/certificates.
- Prices should include installation and training of the equipment.
- Provide contact number/address for complaint, else quotes may be rejected.
- **The minimum warranty period for the hot plate and digestion block should be 2 years from the date of installation. Longer warranty period would be preferred.**
- The firms may also quote for optional accessories which will extend the capability or ease of use of the equipment.
- All quotations should be in the currency of the country of origin of the instrument and FOB and CIF, Delhi (if imported), and also converted to ₹.
- The Institute is exempted from customs duty and pays a nominal duty of ~5% under Govt. of India notification 51196. Custom Duty exemption certificate under notification 51196 and road permit will be provided if applicable.
- Normal payment terms for the Institute will be applicable (90% on delivery of the items and the remaining 10% after satisfactory installation/ inspection).
- The Institute reserves the right for accepting and rejecting any quotations without assigning any reason thereof. **Also, the Institute reserves the right to reject or accept all or any of the offers made above.**

Thanking you,

Sincerely,

Dr. Abhas Singh

Associate Professor, FB-306, Department of Civil Engineering,
I.I.T. Kanpur, Kanpur- 208016, Uttar Pradesh, India

TENDER ACCEPTANCE LETTER
(To be given on Company Letter Head)

Date:

To,

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No: _____

Name of Tender / Work: -

Dear Sir,

1. I / We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely:

as per your advertisement, given in the above mentioned website(s).

2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents from Page No. _____ to _____ (including all documents like annexure(s), schedule(s), etc .,), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.

3. The corrigendum(s) issued from time to time by your department/ organisation too have also been taken into consideration, while submitting this acceptance letter.

4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.

5. I / We do hereby declare that our Firm has not been blacklisted/ debarred/ terminated/ banned by any Govt. Department/Public sector undertaking.

6. I / We certify that all information furnished by our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organisation shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,
(Signature of the Bidder, with Official Seal)