



भारतीय सूचना प्रौद्योगिकी संस्थान, इलाहाबाद Indian Institute of Information Technology, Allahabad

An Institute of National Importance by Act of Parliament
Deoghat, Jhalwa, Allahabad-211015 (U.P.) INDIA

Ph.: 0532-2922025, 2922067, Fax : 0532-2430006, Web : www.iiita.ac.in, E-mail : contact@iiita.ac.in

Ref. No. : IIIT-A/ENQ/FIP/1111/ 2018

Date : 11th January 2018

Tender Notice

Sealed tenders are invited under **Two Bid Systems** for the **Purchase of Arc Melting Furnace with Additional Components** at Indian Institute of Information Technology, Allahabad. The detailed specifications and terms & conditions are given in **Annexure I, II, III, IV, V**. Tender document may be downloaded from the Institute website www.iiita.ac.in

You are requested to submit the quotation by courier/speed post with complete details of specifications, terms & conditions, warranty/guarantee etc. Quotation should be in two separate sealed envelopes "Technical and Commercial Bids" and placed in a single envelope with name of the tender, ref. number and closing date subscribed on the top of the envelope addressed to the Faculty In-charge Purchase, IIIT-Allahabad upto **13/02/2018 at 12:00 noon**. Quotations duly sealed may also be dropped in the tender box placed in the office of the Faculty In-charge Purchase, IIIT-Allahabad. Basic rate, taxes and freight charges etc. must be quoted separately, F.O.R. destination at IIIT-A, Jhalwa, Allahabad.

The technical bid received in prescribed proforma will be opened in the presence of the tenderers, or authorized representatives interested to be present, on **13/02/2018 at 03:00 P.M.** The Financial bids of only technically qualified tenderers will be opened after evaluation by the Technical Committee. Basic rate, taxes and freight charges etc. must be quoted separately.


11/12/2018
Faculty In-charge Purchase

Copy to:

➤ Hon'ble Director for kind information.

Technical Bid

(On letter head of the Firm & in a separately sealed envelope)

PROFORMA FOR APPLICATION

1. Name of the firm :-
2. Address of the firm :-
-
3. Phone Number (With Code):-
4. Proprietor's name: -
5. Address of Proprietor: -
6. Proprietor's Phone No. :-
7. Email Id:
8. Details of the firm:-
 - (a) Date from which the firm is operating: -
 - (b) Turnover of the firm during: - FY 2015-16 (₹).....
FY 2016-17 (₹).....

(Please attach documentary evidence)

- (c) PAN No. :-
 - (d) TIN No. :-
 - (e) Service Tax Registration No. (If any):-.....
9. **E.M.D.** : The tenders should be accompanied in a form of a **Demand Draft/FDR** or **Bank Guarantee** in favour of **Indian Institute of Information Technology Allahabad** payable at **Allahabad** (Any bid without EMD will not be considered). EMD should be enclosed with the Technical Bid document in a separate envelop. The EMD will be returned to the unsuccessful bidders within 15 days and to the **successful bidders have to submit bank guarantee of 10% of total value, valid beyond 2 months of warranty period.**


Amount of EMD as below:

Sl. No	Description	EMD Amount	DD No./FDR Date
1.	Arc Melting Furnace with Additional Components	₹50,000/-	


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Technical Compliance
(To be attached with technical bid)

Specifications of Arc Melting Furnace with Additional Components

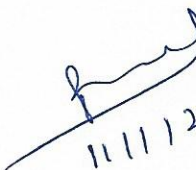
Sl. No.	Items/ Specification	Compliance	Deviation
1.	<ol style="list-style-type: none"> 1. Double walled water-cooled chamber, with volume around 1dm³ (1 lt) with maximum melting temperature around 4000 OC. Weight: Lesser than 15 Kgs. 2. Inner glass assembly: Ordinary, transparent and replaceable. 3. Outer glass assembly: Transparent along with eye protection shield for arc viewing. 4. Top flange: Should have the stinger (electrode feedthrough) assembly and ports for pump, gauges, electrode, gas etc. 5. The electrode should be freely movable and water-cooled with replaceable tungsten (high purity) tip for arcing purpose, along with, water cooled power cables to supply power to the electrode, sealed and electrically isolated from the operator. 6. The hearth (crucible) to be made out of electrolytic grade copper. The hearth should have provision to hold the sample to be melted. 7. The hearth assembly shall contain one circular groove ~25mm diameter, 2.5mm deep; one cylindrical groove ~ 10mm wide, 2.5mm deep and 27mm long; one circular groove for titanium melting. The hearth assembly can be raised or lowered by a micrometer screw arrangement from outside. 8. This furnace should be designed to operate in inert gas atmosphere. A relief valve and a gauge for measuring the gas pressure to be provided on the chamber. 9. Provision should be there for trapping the solids which come out from the melting process and to prevent them from entering into vacuum pumps. Top cover of the trap to be easily removed and reassembled. 10. The furnace should have in-built powerful arc melting generator with high-frequency ignition, which can produce a very stable arc with the following specifications. Contactless high frequency ignition of the arc Melting current: DC range (3A-180A or higher) Melting range: up to 4000° C Melting quantity: maximum 20gms Power cables to the electrode system and the crucible plate in the melting chamber, water cooled Current indicator and setting potentiometer. Required safety control. 11. Vacuum Set: Double stage rotary vane pump for achieving pressure < 60 dB. Vacuum hose, connections and other accessories need to be supplied. A pirani gauge (measuring range: 103 mbar to 5 × 10⁻⁴ mbar or better) display and Gauge controller suitable for the sensor. (Oil free dry vacuum pump which will be suitable for the system and producing the specified vacuum can also be quoted). 12. Appropriate chiller for water cooling of various parts of 		 11/11/2018

	<p>the furnace including the main chamber, power cables etc. Digital controller and display for setting and displaying water temperature. The after sale service of the water chiller will be the responsibility of the vendor offering the arc melting furnace. 13. Other accessories: i) Tungsten rod ii) Set of O-rings, bolts, nuts, washers etc. iii) Spare water cooled copper hearth</p> <p>13. Warranty: 3 years onsite comprehensive maintenance and warranty for the arc melting furnace and water chiller from date of full installation.</p>		
2.	<p>Low Speed Diamond Wheel Saw Low Speed Diamond Wheel Saw to cut a wide variety of samples with minimal subsurface damage. Specifications and other accessories: 1. Single Axis Goniometer 2. Double Clamp Holder 3. Diamond Wheel (4" diameter): quantity 6 4. Water soluble coolant, 2 quart 5. Mounting Wax Samples 6. Cutting weight, 100 grams 7. Allen wrench set 8. Plastic Splash Guard 9. Support Collars: Quantity 2 10. Required O-Ring: Quantity 2 11. Spacer, wheel, .75" 12. Lock, work table 13. Lock, blade holder 14. Warranty: Machine should come with a 1 year warranty from date of installation.</p>		
3.	<p>Analytical Weighing Balance One Analytical Weighing Balance for high precision measurement of masses in laboratory. Specifications and other accessories: 1. High contrast, large LCD Display for easy viewing 2. Weighing Capacity : 50 gm. 3. Readability : 0.1 mg 4. Repeatability : < 0.1 mg 5. Response Time : 3 sec average 6. Linearity : < + 0.2 mg 7. Pan Size: > 80 mm. 8. Weight: < 10 kg 9. Dimension: ~ 210*300*320 mm (W*D*H) 10. Fully automated internal calibration with built-in weight 11. All glass draft shield with 3 sides opening (left, right, top) 12. Filters for adapting the balance to ambient conditions. 13. Hanger for weighing below the balance 14. Warranty: Machine should come with a 1 year warranty from date of installation.</p>		
4.	<p>TEM GRID a) Copper Grid, Carbon coated, Type B 200 Mesh b) Copper Grid, Carbon Film only on 200 Mesh</p>		

Note- Vendors are required to submit technical compliance sheet as prescribed Proforma. Unfilled signed compliance sheet will not be accepted.

Signature of the tenderer

Seal of the firm


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Technical Terms and Conditions

1. **Authorization:** The tenderer should be an authorized dealer/reseller of the Equipment /Original Equipment Manufacturer (OEM) and a certificate to this effect should be enclosed with the technical bid (Enclosed Authorization certificate).
2. Bidder should quote and render all items, specifications and services required in the tender document.
3. Annual Turnover of the firm should be 50 Lakh or more for the last two financial years i.e. 2015-16 & 2016-17. (Profit and loss account duly certified by CA should be provided as attachment with each bid).
4. Bidder must submit minimum 2 copies of purchase order from Central or State Govt. Institutes/organizations for qualification in the bid.
5. The vendor should have supplied minimum one order of 24 lakh or above for high vacuum equipments in last two year i.e. financial year -2015-16 & 2016-17 (Documentary proof required).
6. **Compliance statement:** Compliance statement needs to be provided by vendors clearly specifying **COMPLIANCE/DEVIATION** with remarks of all of the points of **Annexure-II.**

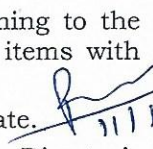
Signature of the tenderer

Seal of the firm


11/12/18

Annexure-IV

General Terms and Conditions of the Tender

1. Kindly mention enquiry number, subject, due date, contact address etc., on your quotation. Incomplete quotation will not be accepted.
2. **Bid:** The tenders are to be submitted in two part viz. "**Technical Bid**" and "**Commercial Bid**" in two separate sealed envelopes separately. The commercial bid will be opened only after acceptance of "Technically Bid".
3. Detailed specifications, catalogue/literature of all the items quoted should be supplied with the technical bid.
4. **Warranty:** Warranty periods must be three years. The supplier will maintain and repair the equipments during the warranty period free of cost at IIIT-Allahabad.
5. **SECURITY DEPOSIT:** Security deposit in the form of Bank Guarantee/ Demand Draft form Nationalized Bank to the value of 10% of the contract value shall be submitted by the (L1) bidder. Above amount shall be taken as security deposit valid beyond 2 months of warranty period. EMD will be released after receiving of Bank Guarantee/Demand Draft.
6. **Delivery Schedule:** The supply and Installation period shall commence from the date of issue of confirm purchase order and completion period may be strictly 13-15 weeks.
7. **Payment:** Payment will be made within 15 days after acceptance of delivery of material, Installation and satisfactory report.
8. **Penalty:** If the supply delayed beyond the stipulated time of completion of supply, penalty of 1% per weeks and maximum upto 10% of the total cost may be imposed at the discretion of competent authority.
9. **Exemption:** The institute is exempted from custom in terms of notification No. 51/96- custom dated 23/07/96 and is an University established under M.H.R.D. Govt. of India. Certificate to this if, required shall be provided by the Institute.
10. **Transit Permit (E way bill) :** Transit road permit in the prescribe proforma shall be made available as per rule by the Institute on the request of the supplier if, required.
11. Price Basis & applicable Tax claim: Price should be quoted by interested tenderer is inclusive of all up to F.O.R. IIITA, Allahabad basis. Vendor should clearly mention the Rate of applicable GST Tax separately, if firm will not mentioned the Taxes clearly on their Price Quotation, IIIT - Allahabad will assume that the quoted price is inclusive of all and no extra amount in later stage shall be paid by IIIT, Allahabad on account of Taxes.
12. If it is found that items are fake or of sub-standard quality and not conforming to the required specifications, the firm will have to replace the fake/ sub-standard items with genuine ones immediately but they will also be liable to be blacklisted.
13. Rate quoted by the firm should not be higher than the MRP/ prevailing market rate. 
14. Conditional quotations are liable to be rejected. In the event of acceptance, Director's decision will be final. The rates should be quoted as per our required specifications.
15. The rates should be quoted in Indian rupees. Evaluation of offers will be made on the basis of total amount of all items inclusive of all charges, taxes, duties, etc., for the indicated quantity in the attached format. Rate for all the items is to be quoted by the tenderer. In case of any item has not been quoted by any bidder that bid for such items will be loaded with the highest rate received for that item as evaluation is to be done on the total amount of all the items for the indicated quantity. However, while awarding the rate contract successful bidder has to supply all the items and for those items for which bidder has not quoted the rates will get the lowest rate received in the tender. Every bidder has to agree to this condition failing which its offer will not be considered for award of work.
16. The right to accept or reject any tender/ quotation, partially or wholly, including lowest quotation without assigning any reason whatsoever thereof or incurring any liability thereby is reserved with the Director, IIIT, Allahabad. The Director, also reserves the right to split the tender and place the orders for supply of item(s), mentioned in the enquiry letter on one or more tenderer. The decision of the Director, with regard to enforcement of these terms and conditions herein contained, as a result of breach of these conditions by successful Tenderer/s, shall be final and the Director, shall not be liable for any damage/liability put forth by the Tenderers at any stage of the transaction arising out of the enforcement of any or all herein contained terms and conditions.

17. Payment will be made within fifteen days after completion of work, satisfactory inspection & satisfactory report. No conditions/clause with regard to interest etc. shall be entertained.
18. The quantity shown in this tender is only approximate requirement and is subject to alteration at the time of placing the supply order and during the pendency of the quotation it will be binding on the part of the successful Tenderers to honour and comply with such orders placed by this Institute.
19. All the documents submitted must be legible and self attested. Otherwise it is likely to be rejected.
20. In case the firm fails to complete the job within maximum specified period, Institute reserves the right to get the job done by any other firm and the difference of cost if any, will be recovered from the defaulting firm.
21. The EMD, if applicable, shall be returned to the bidder (s) whose offer is not accepted by the Institute within 15 days after finalization and award of the contract without any interest. Unsuccessful bidders may collect the EMD (within next 10 days after finalization & award of the contract) from Store and Purchase Section, IIIT-A between 3PM to 5PM on any working day after providing a copy of any Photo Identity Card. After these 10 days EMD will be sent by registered post to the postal address provided by the firm/bidder. Representative may also collect the EMD on behalf of the bidder, after providing an authorization letter from the bidder along with a copy of his photo identity card. If the return of EMD is delayed for any reason, no interest/penalty shall be payable to the bidder.
22. Tenderers responding to this enquiry shall be deemed to be agreeable to the terms and conditions herein contained. These terms and conditions shall be binding on the part of the successful tenderer.
23. Complete Postal address of tenderer/bidder (to dispatch the EMD to unsuccessful bidder).

24. Tender must be quoted in prescribe format on the company/firm letter head.
25. If any defect is found in transit it will be the sole responsibility of the supplier to get it corrected and installed as desired by the user.
26. Quoted rate should be valid at least for 03 months.
27. The firm/company's black listed at any stage need not to apply.
28. All pages of the tender documents are to be signed and stamped by the tendering firm.
29. Director, Indian Institute of Information Technology, Allahabad reserves the right to reject or accept any tender.
30. Director, Indian Institute of Information Technology, Allahabad will be the sole arbitrator of all the dispute and his decision will be binding on both the parties.
31. Director, Indian Institute of Information Technology, Allahabad reserves the right to alter/modify any or all conditions of this tender notice.
32. Quotation should be addressed to Faculty In-charge Purchase, Indian Institute of Information Technology, Allahabad-211012 (U.P.) India.
33. All disputes are subject to Jurisdiction of Allahabad.

For any query pertaining to this bid correspondence may be addressed to

**Faculty In- Charge Purchase
IIIT-Allahabad, Deoghat
Jhalwa, Campus
Phone : +91 0532-2922051.
E-mail: info.purchase@iiita.ac.in**

Faculty In-charge Purchase


Certified that the information in the proforma is true. I/We agree to the contents of terms & condition of the quotation/tender.

Seal and Signature of the Proprietor/Authorized Representative


Financial Bid

(On letter head of the Firm & in a separately sealed envelope)

Arc Melting Furnace with Additional Components

Sl. No.	Items/ Specification	Qty.	Unit Price	Total amount in Rs.
1.	<ol style="list-style-type: none"> 1. Double walled water-cooled chamber, with volume around 1dm³ (1 lt) with maximum melting temperature around 4000 OC. Weight: Lesser than 15 Kgs. 2. Inner glass assembly: Ordinary, transparent and replaceable. 3. Outer glass assembly: Transparent along with eye protection shield for arc viewing. 4. Top flange: Should have the stinger (electrode feedthrough) assembly and ports for pump, gauges, electrode, gas etc. 5. The electrode should be freely movable and water-cooled with replaceable tungsten (high purity) tip for arcing purpose, along with, water cooled power cables to supply power to the electrode, sealed and electrically isolated from the operator. 6. The hearth (crucible) to be made out of electrolytic grade copper. The hearth should have provision to hold the sample to be melted. 7. The hearth assembly shall contain one circular groove ~25mm diameter, 2.5mm deep; one cylindrical groove ~ 10mm wide, 2.5mm deep and 27mm long; one circular groove for titanium melting. The hearth assembly can be raised or lowered by a micrometer screw arrangement from outside. 8. This furnace should be designed to operate in inert gas atmosphere. A relief valve and a gauge for measuring the gas pressure to be provided on the chamber. 9. Provision should be there for trapping the solids which come out from the melting process and to prevent them from entering into vacuum pumps. Top cover of the trap to be easily removed and reassembled. 10. The furnace should have in-built powerful arc melting generator with high-frequency ignition, which can produce a very stable arc with the following specifications. Contactless high frequency ignition of the arc Melting current: DC range (3A-180A or higher) Melting range: up to 4000° C Melting quantity: maximum 20gms Power cables to the electrode system and the crucible plate in the melting chamber, water cooled Current indicator and setting potentiometer Required safety control. 11. Vacuum Set: Double stage rotary vane pump for achieving pressure < 60 dB. Vacuum hose, connections and other accessories need to be supplied. A pirani gauge (measuring range: 103 mbar to 5 × 10⁻⁴ mbar or better) display and Gauge controller suitable for the sensor. (Oil free dry vacuum pump which will be suitable for the system and producing the specified vacuum can also be quoted). 12. Appropriate chiller for water cooling of various parts of 			<p align="right">  11/11/2018 </p>

	<p>the furnace including the main chamber, power cables etc. Digital controller and display for setting and displaying water temperature. The after sale service of the water chiller will be the responsibility of the vendor offering the arc melting furnace. 13. Other accessories: i) Tungsten rod ii) Set of O-rings, bolts, nuts, washers etc. iii) Spare water cooled copper hearth</p> <p>13. Warranty: 3 years onsite comprehensive maintenance and warranty for the arc melting furnace and water chiller from date of full installation.</p>			
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3.	<p>Analytical Weighing Balance One Analytical Weighing Balance for high precision measurement of masses in laboratory. Specifications and other accessories: 1. High contrast, large LCD Display for easy viewing 2. Weighing Capacity : 50 gm. 3. Readability : 0.1 mg 4. Repeatability : < 0.1 mg 5. Response Time : 3 sec average 6. Linearity : < + 0.2 mg 7. Pan Size: > 80 mm. 8. Weight: < 10 kg 9. Dimension: ~ 210*300*320 mm (W*D*H) 10. Fully automated internal calibration with built-in weight 11. All glass draft shield with 3 sides opening (left, right, top) 12. Filters for adapting the balance to ambient conditions. 13. Hanger for weighing below the balance 14. Warranty: Machine should come with a 1 year warranty from date of installation.</p>			
4.	<p>TEM GRID a) Copper Grid, Carbon coated, Type B 200 Mesh Copper Grid, Carbon Film only on 200 Mesh</p>			
	Total-			
	Taxes (GST) -			
	Grand Total-			


11/11/2018

Signature of the tenderer

Seal of the firm