

Tender
for
Supply & Installation of
Evaporator with Atmosphere Chamber and Laminar Hood
at
Indian Institute of Technology Jodhpur

NIT No. : IITJ/SPS/CHM/1/1(I)/2016-17/22
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॥ त्वं ज्ञानमयो विज्ञानमयोऽसि ॥

Indian Institute of Technology Jodhpur
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Telefax: 0291- 2449011, email: sps@iitj.ac.in

Notice Inviting Tender

Indian Institute of Technology (IIT), Jodhpur, Rajasthan (hereinafter referred to as the “Institute”), an Educational Institute of National Importance, invites sealed tender(s) in two-bid format for “Supply and Installation of Evaporator with Atmosphere Chamber and Laminar Hood” at the Institute as per the specification given in the schedule attached with the tender as Annexure – I. The tender document can be downloaded from the Institute website at URL Link: <http://www.iitj.ac.in> or from Central Public Procurement Portal link: <http://www.eprocure.gov.in>.

The tenderer shall be required to submit the Earnest Money Deposit (EMD) for an amount of Rs.30,000/- (Rupees Thirty Thousand only) which is refundable and a non-refundable tender fee for an amount of Rs.500/- (Rupees Five Hundred only) by way of demand drafts only. The demand drafts shall be drawn in favour of “Director, IIT Jodhpur” payable at Jodhpur. The demand drafts for earnest money deposit & tender fee must be enclosed in the envelope containing the technical bid.

Offer in the financial bid should be written in English and price should be written in both figures and words. The offer should be typed or written in ink pen or ball pen. Use of pencil will be ignored. All the pages of the Technical / Financial Bid shall be page numbered and all the relevant supporting documents as required must be enclosed.

Envelope of technical bid & financial bid should be individually sealed and then placed in a third envelope, to be sealed and superscribed with tender number, due date of submission and address to:

“Officer-in-charge
Stores & Purchase Section
Indian Institute of Technology Jodhpur
Old Residency Road, Ratanada
Jodhpur – 342011, Rajasthan”

Sealed tender should reach the Institute, latest by August 01, 2016 by 03:00 PM. Tender(s) received beyond the last date of submission will be rejected. No tender will be entertained by E-mail or FAX.

At any time prior to the deadline of submission of bid, Institute for any reason, whether at its own initiative or in response of a clarification requested by a prospective tenderer, modify the tender by amendment and it will be published on the website.

Technical bid(s) will be opened on August 01, 2016 at 04:00 PM in the Conference Hall, Administrative Block of the Institute in the presence of the tenderer(s) or their authorized representative(s), who are present at the scheduled date and time.

Date and time of the opening of the financial bid(s) will be decided after the technical bid(s) have been evaluated by the Institute. The financial bid(s) of only those tenderer(s) will be opened, who qualifies the technical evaluation, on the specified date and time. The date, time & place of opening of the financial bid(s) will be intimated in due course of time.

In the event of the due date of receipt and opening of the tender being declared as a holiday for the Institute, then due date of receipt / opening of the tender will be the next working day at the same time.

The tenderer are requested to read the tender document carefully and ensure to compliance with all the instructions herein. Non-compliance of the instructions contained in this document may disqualify the tenderer from the tendering exercise.

The Institute reserves the right to select certain items in single or multiple units and reject the others or all as mentioned in the schedule and to revise or alter the specifications before acceptance of any tender and accept or reject any or all tenders, wholly or partly or close the tender without assigning any reason whatsoever.

INSTRUCTIONS TO TENDERER

Tender should be submitted in two parts, Part – I (Technical Bid) & Part – II (Financial Bid). Envelope of Part – I should be super-scribed as “Tender for Supply and Installation of Evaporator with Atmosphere Chamber and Laminar Hood”, Part – I Technical Bid” and Envelope of Part – II should be super-scribed as “Tender for Supply and Installation of Evaporator with Atmosphere Chamber and Laminar Hood”, Part – II Financial Bid”.

1. Pre – Qualification Criteria:

- a) Only manufacturer(s) or their sole authorized distributor / agent are eligible to bid. Authorization letter in the prescribed format (Annexure – II) from Original Equipment Manufacturer (OEM) in favor of authorized Agent to bid / negotiate / conclude the order against this tender, must be enclosed with technical bid.
- b) The tenderer shall be required to submit the Earnest Money Deposit (EMD) for an amount of Rs.30,000/-(Rupees Thirty Thousand only) which is refundable and a non-refundable tender fee for an amount of Rs.500/- (Rupees Five Hundred only) by way of demand drafts only. The demand

drafts shall be drawn in favour of “Director, IIT Jodhpur” payable at Jodhpur. The demand drafts for Earnest Money Deposit & tender fee must be enclosed in the envelope containing the technical bid.

- c) The tenderer should have a minimum 03 (three) years of experience for supply & successful installation of goods of similar specifications. At least 01 (one) latest satisfactory installation report along with its purchase order, must be enclosed with the technical bid.
- d) Signed & stamped compliance sheet of the technical specification of the goods with technical printed literature along with Bill of Material (BoM) mentioning all the terms & conditions clearly, must be enclosed with the technical bid.
- e) Signed & stamped guarantee / warranty declaration certificate must be enclosed with the technical bid in prescribed format as attached as Annexure – III.
- f) The tenderer viz. the Manufacturer / Indian Agents and / or the foreign firms should furnish a certificate that the rates quoted by the tenderer are not more than those quoted to any other Institution in India or aboard during the last one year, with supporting documents.
- g) The tenderer shall submit the copy of the tender document and addenda thereto, if any, with each page should be signed and stamped to confirm the acceptance of the entire term & conditions of the tender.

2. Earnest Money Deposit (EMD):

The tenderer shall be required to submit the Earnest Money Deposit (EMD) for an amount of Rs.30,000/- (Rupees Thirty Thousand only) which is refundable and a non-refundable tender fee for an amount of Rs.500/- (Rupees Five Hundred only) by way of demand drafts only. The demand drafts shall be drawn in favour of “Director, IIT Jodhpur”, Payable at Jodhpur”.

The firm(s) who are registered with the National Small Industries Corporation (NSIC) / or Small Scale Industries (SSI) for the subjected goods are exempted to furnishing the EMD and tender fee. Self-attested photocopy of the valid registration certificate must be enclosed with the technical bid.

The demand drafts for earnest money deposit & tender fee must be enclosed in the envelope containing the technical bid. Any technical bid is found without the demand drafts of earnest money deposit and tender fee will be rejected. The Institute will not be liable to pay any interest on such an amount. The earnest money deposit shall be forfeited, if the tenderer withdraws its bid during the period of tender validity.

The earnest money deposit of the tenderer, whose tender has been accepted, will be returned on the submission of the performance security. Earnest money deposit of the successful tenderer shall be forfeited, if it refuses or neglects to execute the order or fails to furnish the required performance security within the time frame as specified by the Institute.

After the award of the contract to the successful tenderer, the earnest money deposit of the unsuccessful tenderer(s) will be refunded within 30 days.

3. **Validity:**

Quoted rates must be valid for a period of 180 days from the date of the closing of the tender. The overall offer for the assignment and tenderer quoted price shall remain unchanged during the period of validity. If the tenderer quotes the validity shorter than the required period, the same will be treated as unresponsive and it may be rejected.

In case the tenderer withdraws, modifies or changes his offer during the validity period, the tender is liable to be rejected and the earnest money deposited shall be forfeited without assigning any reason thereof. The tenderer should also be ready to extend the validity, if required, without changing any terms, conditions etc. of their original tender.

4. **Delivery & Installation:**

All the goods ordered should be delivered within 06 weeks from the date of the receipt of the purchase order / date of opening of Letter of Credit, and satisfactory installation / commissioning and handover of the equipment will be completed within 01 week from the date of receipt of the material at the Institute premises and it will be ready to use within 07 weeks on faultless working condition from the date of the issue of the purchase order or within such time as may be extended by the Institute.

In case the tenderer need / or quoted more time for the completion of the order / project, for evaluation and comparison , Institute will convert all the proposal in single format with up-loading the LD charges of the extra time required on the quoted price.

Satisfactory Installation: Satisfactory installation / commissioning and handing over of the equipment mean the faultless functioning of the equipment for a minimum period of 30 days after satisfactory installation.

Liquidated Damages (LD): If the supplier would fail to perform the satisfactory installation / commissioning of the equipment and/ or which is not ready to use within stipulated time then penalty at the rate of 1% per week subject to maximum of 10% of the order value will be deducted.

Extension of Delivery & Installation Period: If the supplier would unable to complete the project / order within the stipulated time, for which the supplier is responsible, it is required to request for the extension of the delivery period, it may be extended with the imposing of the liquidated damages.

In case the supplier would fail to complete the order / project within the stipulated time, Institute reserves the right to cancel the contract / order and performance security / EMD may be forfeited.

5. **Guarantee / Warranty:**

Tender must be quoted with the five (05) years comprehensive on-site Warranty / Guarantee and it will commence from the date of the satisfactory installation / commissioning of equipment against the defect of any manufacturing, workmanship and poor quality of components and tenderer also give the guarantee / warranty declaration in prescribed format as attached with tender as Annexure – IV.

In addition to quoting for the Guarantee / Warranty for the equipment, tenderer(s) must quote the charges for Annual Maintenance Contract (AMC) for a period of two (2) years for maintaining the equipment at the Institute site, after the expiry of the period of warranty/guarantee. During the service contract period, the firm shall provide two preventive maintenance visits and in addition attending to all emergent and breakdown calls.

The AMC charges should be quoted for labour cost only and should not include the cost of any replacement parts/components that may be needing replacement. During the service contract period, replacement of parts / components shall be made available by the Institute to the supplier at the Institute's own expense. The charges shall be paid to the firm in half-yearly installments after satisfactory service.

In addition to quoting the charges for the AMC, the bidder must also quote the charges for Comprehensive Maintenance Contract (CMC) for a period of two (2) years after the expiry of warranty / guarantee. The CMC charges should be quoted for labour as well as cost of any replacement parts / component that may be required for keeping the equipment functional.

It is essential to quote the charges and terms & conditions for the service contract, tender not containing service contract charges shall be considered incomplete and shall be rejected.

In case, supplier would fail to repair / or rectify the equipment during the warranty / guarantee period, Institute may employ or pay other person for the repairing of the equipment, all the such damages, loss and expenses shall be recoverable from the supplier.

Downtime: During both warranty and service contract (AMC/CMC) period not more than 5% downtime will be permissible. For downtime exceeding 1%, penalty equal to 1/365 of the 5% of the order value per day may be imposed. Downtime will be counted from the date and time of the filing of complaint with in the business hours.

During the AMC the time taken by the Institute in providing the spares till the function of the of the unit will not be calculated as down time but the period of AMC will be extended equivalent to the period the unit remain out of order.

If the Institute opts to enter CMC during this period the equipment along with accessories has to be maintained for 347 days in a block of 365 days. However, 5 days time will be allowed to procure the spares in case the same has to imported and 5 days will not be counted as downtime.

6. Training of Personnel:

The supplier shall be required to undertake to provide the technical training to the personnel involved in the use of the equipment at the Institute premises, immediately after completing the installation of the equipment for a minimum period of a one week at the company cost.

7. Tender Preparation Expenses:

All costs incurred by the tenderer in the preparation of the tender, presentation and of negotiating the contract including the site visits etc. will be borne by the tenderer themselves and in no case will be reimbursable by the Institute.

8. Financial Bid:

The rates should be quoted inclusive of the essential charges on FOR at destination site basis in the prescribed format (Annexure – V) with complete description. Name of the manufacturer, model number must be indicated clearly in the proforma invoice / quotation, failing which the same shall be liable for rejection.

Where the equipment is composed of several subunits / component, the rate should be quoted for each subunit / component separately otherwise quotation is liable to be rejected. The Institute reserves the right to increase or decrease the number of subunits / components and number of equipment according to its

requirements. The words “Not Quoting” should be clearly written against any item of equipment for which the tenderer is not quoting. The AMC / CMC rates are to be quoted separately in the financial bid.

Institute is registered with DSIR, Govt. of India (Custom Duty Notification No. 51/96- Custom dt: 23 July, 1996 and Central Excise Duty Notification No. 10/97- Central Excise dt: 1 March, 1997) and is therefore, exempted from Excise Duty and partial exempted from Custom Duty (CD applicable to IIT Jodhpur is 5.15%). Exemption Certificate of the same shall be issued.

NB: If any of the conditions mentioned in the tender enquiry document are alter / changed / modified / add any new condition, which are not compliance with tender enquiry document, by tenderer in their proposal, which may be treated as unresponsive and it may be rejected.

9. **Tender Evaluation:**

The Institute will evaluate the entire tenders, strictly on the basis of the terms & conditions incorporated in the tender enquiry document and terms, conditions etc. as stipulated by the tenderer(s) in their tender to determine whether these are compliance in all respects, as specified in the tender enquiry document.

During the evaluation / scrutiny of the tenders, at any stage, if it is found that any of the tenderer(s) terms and conditions are not compliance with tender enquiry document, Institute may seek the clarification within the specified target time and if the tenderer fails to reply / or not agree / accept the terms and conditions, their tender will be treated as unresponsive and it is liable for rejection.

If the schedule of requirements contains more than one schedule, then offers for each schedule are to be evaluated and ranked separately, if it is in the benefit of the Institute, order may be awarded accordingly.

Evaluation of the proposals shall be done in two stages as:

(a) Stage – I (Technical Evaluation): Technical evaluation of the proposals shall be done in two stages as:

- Sub-Stage – A (Essential pre-qualification criteria):
 - Institute will examine all the bid(s) to determine whether they qualify the essential pre-qualification criteria, whether tenderer has submitted the EMD & Tender fee with technical bid, whether all the documents as mentioned / or required in the tender to be submitted with technical bid, has submitted, whether all the documents are in prescribed format and has been properly signed & stamped and whether the bid are completed and generally in order.

- Tender(s) which will not qualify Sub-Stage–A or conditional tender are to be treated as unresponsive and it may be rejected.
- Sub-Stage – B (Technical Specification):
- The Institute will examine the detailed technical specification of the quoted model, whether these are complying with the specification as mentioned in tender document.
 - The tender which are not compliance with the tender specifications will be summarily rejected.

After the evaluation of technical bid(s), a list of the tenderer(s) who qualify the technical evaluation (Sub – Stage – A & B) shall be made. Shortlisted tenderer(s) shall be informed for the date, time and place of opening of the financial bid(s) and they may depute their representative/s to attend the opening of the financial bid(s). The financial bid(s) of the only technically qualified tenderer(s) will be opened.

(b) Stage – II (Financial Evaluation): Financial bid(s) of the only technically qualified tenderer(s) will be opened for financial evaluation.

The financial bid(s) will be evaluated on the basis of the cost of the item with its all taxes, freight, and other charges, as quoted. AMC/CMC charges will be considered separately, and these contracts will be on the discretion of the Institute to opt for.

If there is discrepancy between the unit price and total price (which is obtained by the multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly and same is to be conveyed to the tenderer with specified target time, if the tenderer does not agree with the observation of the Institute, the tender is liable to be ignored.

10. Award of Contract:

After due evaluation of the financial bid(s), the Institute will award the contract to the lowest evaluated responsive tenderer (hereinafter referred to as the “Supplier”).

11. Performance Security:

After the award of work, the supplier shall be required to submit the performance security in the form of irrevocable bank guarantee in the prescribed format (Annexure – IV) issued by any Nationalised/Scheduled Bank / or Fixed Deposit Receipt, for an amount equal to the 10% of order value and **it will be kept valid for a period of 60 days beyond the date of completion of warranty period.**

Warranty Period will be commenced from the date of the installation of the supplied item. Hence, be careful at the time of calculation of the validity date of Performance Bank Guarantee.

On expiry of the warranty period the supplier will have to submit the fresh performance security for AMC / CMC period, if the Institute goes for maintenance contract. The fresh performance security to cover the service contract shall be submitted atleast one month before the expiry of previous performance security and it shall be 5% of the order value and it will be valid for period of maintenance contract period plus 60 days. Performance Security will be returned after completion all the contractual obligations.

12. Payment Term:

- I. 90% payment of the total order value shall be released against receipt of the goods at the Institute premises and after the successful installation / commissioning of the ordered goods against the submission of the test report.
- II. Balance 10% of the order value shall be released after the submission of the performance security.

13. Site Preparation:

The supplier shall inform to the Institute about the site preparation, if any, needed for the installation of equipment, immediately after the receipt of the purchase order. The supplier must provide complete details regarding space and all the other infrastructural requirements needed for the equipment, which the Institute should arrange before the arrival of the equipment to ensure its timely installation and smooth operation thereafter.

The supplier shall visit the Institute and see the site whether the equipment is to be installed and may offer his advice and render assistance to the Institute in the preparation of the site and other pre-installation requirements.

14. Merger / Acquisition of Foreign Principal:

In case of merger of Foreign Principal with another Firm or acquisition of Foreign Principal by another firm, it shall be obligatory for the New Entity so formed after the merger of the Acquiring Firm, as the case may be, to take over all the duties and obligations / liabilities of the Foreign Principal and the New Entity / Acquiring Firm would *ipso facto* become liable for all acts of commission or omission on the part of original Foreign Principal as well as Indian Agent.

15. Change of Indian Agent:

In case the Foreign Principal changes in Indian Agent then it shall be obligatory for Foreign Principal to automatically transfers all the duties and obligations to the New Indian Agent, failing which the Foreign Principal would *ipso facto* become liable for all acts of commission or omission on the part of New Indian Agent.

16. Force Majeure:

Any delay due to Force Majeure will not be attributable to the bidder. Force Majeure events shall mean one or more of the following acts or events: Acts of God or events beyond the reasonable control of the Affected Party which could not reasonably have been expected to occur, exceptionally adverse weather conditions, lightning, earthquake, cyclone, flood, volcanic eruption or fire or landslide; Radioactive contamination or ionizing radiation; Strikes or boycotts (other than those involving the Supplier or its employees/representatives or attributable to any act or omission of any of them) interrupting supplies and services of the Project for a period exceeding a continuous period of 7 (seven) days; An act of war (whether declared or undeclared), invasion, armed conflict or act of foreign enemy, blockade, embargo, riot, insurrection, terrorist or military action, civil commotion or politically motivated sabotage which prevents rendering of supplies or specified services by the Supplier for a period exceeding a continuous period of 7 (seven) days.

17. Arbitration and Laws:

In case of any dispute or difference arising out of or in connection with the tender conditions / order and Contract, the Institute and the Supplier will address the dispute / difference for a mutual resolution and failing which, the matter shall be referred for arbitration to a sole Arbitrator to be appointed by the Institute. The Arbitration shall be held in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and the venue of arbitration shall be at Jodhpur only. The resolution of the Arbitrator shall be final and binding on both the parties.

18. Jurisdiction:

The courts at Jodhpur alone will have the jurisdiction to try any matter, dispute or reference between parties arising out of this tender / contract. It is specifically agreed that no court outside and other than Jodhpur court shall have jurisdiction in the matter.

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ANNEXURE – I

EVAPORATOR WITH ATMOSPHERE CHAMBER AND LAMINAR HOOD

SPECIFICATIONS:

Purpose of equipment: Deposition of air sensitive high purity thin films and multilayer with controlled deposition rate having $\pm 3\%$ or better uniformity for device fabrication.

S.No.	Specification	Detail description of an item
1.	Chamber configuration	<ul style="list-style-type: none"> (a) Chamber material shall be Stainless steel 304L (Internal finish: electro polished). Supplier has to provide chamber material test certificate. (b) Supplier has to provide drawing of the chamber clearly indicating the location of all the attachments and extra blank feed through. (c) Chamber with preferable minimum dimension of 400 mm & 400 mm height. 4 inch or higher wafer along with all above fitting/attachments. (d) The proposed size should be appropriate to accommodate all the mountings, attachments, in-use and blank feed through etc. (e) Two sets of liners, made up of electro polished SS 304L with 2 mm thickness should be provided. (f) Periscope type view port should be located in the center of front door having Quarts window of 6" diameter size for direct viewing of process at sources and sample holder. (g) Each welded joint and entire empty chamber shall have less than 5×10^{-8} torr/s leak rate for Helium. Before starting the integration, supplier has to carry out MSLD test & submit test report for clearance.
2.	Atmospheric Chamber	<ul style="list-style-type: none"> (a) The chamber should have 4 glove holder ports. (b) The chamber is fitted with 4 source metal Evaporator. (c) Atmosphere chamber should be able get less than 1 ppm moisture and oxygen.
3.	Laminar	<ul style="list-style-type: none"> (a) Horizontal Laminar chambers are provided for a high degree of localized control for critical processes. The work area is continuously bathed with positive pressure HEPA-filtered air to protect the product from contamination. The Horizontal Laminar Flow workstations meet or exceed ISO 14644-1 / Federal Standard 209E for ISO 5 / Class 100 air and IES Recommended Practice for Laminar Flow Clean Air Devices. (b) Horizontal Laminar are designed for the handling of materials in a sterile working environment. The work area is continuously bathed with positive pressure ISO 5/Class 100 horizontal laminar flow air that has passed through a High Efficiency Particulate HEPA filter. This filter removes organisms and particulates 0.3 micron in size with an efficiency of 99.99%. The laminar airflow principle consists of moving individual streams of unidirectional, ultra-clean air along parallel lines with minimal turbulence. The HEPA filter is positioned in the rear of the work area and is protected by a removable, perforated metal diffuser. (c) Outer cabinet and work surface are welded stainless steel with a pharmaceutical grade finish (d) High capacity motor/blower system with speed control to extend the life of the HEPA filter. (e) Top mounted pre-filters are easily changed. 16-gauge stainless steel work deck is 36" from the floor and reinforced to support 300+ pounds. HEPA filter is full width and height (36"), ensuring unidirectional airflow and is easily changed from both sides. Separate lighted power ON/OFF indicator switches for blower and lighting. Electrical is 115 Volt, 60 Hz or 220/50-60 Hz . (f) The laminar is fitted with Evaporator and detachable when required.
4.	Wafer/Substrate	<ul style="list-style-type: none"> (a) Planetary holders with rotation facility holders for wafers should be provided. (b) A single, universal holder having capability to hold four quantity of wafers.

	holders	<p>Fixture and adaptors to be provided.</p> <p>(c) A holder capable to hold wafer Rotary system should have speed range from 0 to 20 rpm. Motors for planetary motions shall be outside the chamber and the coupling to inside the chamber shall be magnetic coupled.</p>
4.1	Basic System configuration	<p>(a) Structure: Single stand-alone unit frame enclosure with universal design, lockable type leveling jacks and lockable type castor wheels of appropriate capacity. The system design should be ergonomic and operator friendly. All the control elements should be Rack mounted.</p> <p>(b) <i>System Interlocks</i>: Manufacturer shall provide interlocks for system, human & process safety like Doors, resistive power supply, Water, Vacuum level & Resistive operation. The supplier should clearly bring out and include any other interlocks which are not covered here and which supplier feels essential for safe and secure system operation.</p> <p>(c) <i>Operations</i>: System operation shall be semi-automatic with full function manual over ride.</p> <p>(d) Computer and PLC HMI based control of all hardware modules with interlocks. The control should be programmable and automatic with full function manual over ride for process diagnostics and maintenance purpose. Note: All the components should have proper contactors, OLR, fuses and fuse terminal of reputed make only.</p> <p>(e) <i>System Status display</i>: Display for all the system parameters during setting as well as process cycle like vacuum, power, temperature, rotations etc.</p> <p>(f) Deposition Film Thickness Controller: Fully programmable for automatic sequential deposition of multilayers, with digital display for deposition rate & thickness.</p> <p>(g) <i>Mains Power Supply</i>: Operable on 1 Ø, 220-240 V, 50 Hz/3 Ø, 415-440V, 50 Hz Exact electric load for full system operation shall be provided by the supplier.</p>
4.2	Vacuum Pumping System	<p>(a) Vacuum pumps shall be of Edward /Pfeiffer/Varian/ make.</p> <p>(b) Required mist filter shall be inclusive as a part of offer. Required capacity of air/ water.</p> <p>(c) Cooled 350 lps or higher Turbo molecular pump with suitable 15 mtr cube.</p> <p>(d) Dry pump for backing/roughing to the vacuum range of 1×10^{-3}. Air cooling of the pumps shall be preferred.</p> <p>(e) Vacuum system shall be able to achieve better than 1×10^{-7} torr</p> <p>(f) One Penning gauge and Two Pirani gauges should be provided.</p>
5	Resistive Sources	<p>(a) Scalable output voltage up to 10V to provide a wide voltage range without the need to change high current cables at the transformer.</p> <p>(b) Capable of holding boats, filaments, wire baskets, crucible style boats and crucible holders.</p> <p>(c) A current regulator with display of evaporation current should be provided. It shall be SCR/IGBT based power controller.</p>
5.1	Evaporation sources	<p>(a) 03 nos. of source shall be accommodating in the system.</p> <p>(b) Thermal heating source capable of evaporating metal by heating upto 2000°C.</p> <p>(c) Evaporation source holder suitable for using resistive coil, basket or boat as an evaporation source with cover & shutter.</p> <p>(d) Ion cleaning: It comprises of an H.T. Transformers of 3.5 KV 50m A (5KV open circuit) and with H.T. cables connected to feed through in the base plate. The supply is controlled from the standard HT/LT switch fixed in the front panel.</p>
5.2	Rotating Substrate Stage	<p>(a) Tapped sample holder designed to mount 4'' size substrate also a spare substrate holder of 4'' x 4'' x 5'' with roller mechanism.</p> <p>(b) Customized sample holders available upon request.</p> <p>(c) Source to substrate distance varies with configuration</p> <p>(d) 0-50 RPM continuous rotation capability Thickness Uniformity</p> <p>(e) $\pm 3\%$ thickness uniformity across the substrate using Al with 1500Å</p>

Annexure – II

FORMAT FOR MANUFACTURER'S AUTHORISATION LETTER TO AGENT (on letter head)

Ref. No.

Date:

To,
The Director
Indian Institute of Technology Jodhpur
Old Residency Road, Ratanada, Jodhpur - 342011.

Sub.: Authorization Letter.

Dear Sir,

We, _____, who are established and reputed manufacturers of _____, having factory at _____, hereby authorize M/s. _____ (name & address of Indian distributor /agent) to bid, negotiate and conclude the order with you for the above goods manufactured by us.

We shall remain responsible for the tender / contract / agreement negotiated by the said M/s. _____, jointly and severally.

We ensure that we would also support / facilitate the M/s _____ on regular basis with technology / product updates for up-gradation / maintains / repairing / servicing of the supplied goods manufactured by us, during the warranty period.

In case duties of the Indian agent / distributor are changed or agent / distributor is changed it shall be obligatory on us to automatically transfer all the duties and obligations to the new Indian Agent failing which we will ipso-facto become liable for all acts of commission or omission on the part of new Indian Agent / distributor.

Yours faithfully,

[Name & Signature]

for and on behalf of M/s. _____ [Name of manufacturer]

Note: This letter of authorisation should be on the letterhead of the manufacturing concern and should be signed by a person competent and having the power of attorney to bind the manufacturer. A copy of notarised power of attorney should also be furnished.

Annexure – III

CERTIFICATE OF GUARANTEE/WARRANTY (on letter head)

I / We certify that the guarantee / warranty shall be given for a period of five (05) years starting from the date of the satisfactory installation, commissioning and handing over of the equipment and the work completed under the contract. During the guarantee / warranty period, I / we shall provide the “after sale service” and the replacement of defective / or any part(s) of the equipment or rectification of defects of work of the equipment will be free of cost. The replacement of the parts shall be arranged by us, at our own cost and responsibility. We undertake that the above guarantee / warranty shall begin only from the date of handing over of the equipment. The benefit of change in dates of the guarantee / warranty period shall be in the interest of the user / your organization.

During the warranty period, we shall provide atleast **2 preventive maintenance visits per year**.

Uptime Guarantee: During the guarantee / warranty period, we will be responsible to maintain the equipment including all the accessories in the satisfactory faultless working conditions for a period 347 days (i.e. 95% uptime) in a block of 365 days.

- All complaints will be attended by us within 4 working days of receipt of the complaint in our office.
- In case there is delay of more than 4 days in attending the complaint from our side then the Institute can count the number of days in excess of the permissible response time in the downtime. The above said response time of 4 days for attending to a complaint by us will not be counted in the downtime.
- Penalty: We shall pay a penalty equivalent to 0.5 % of the order value of the equipment for every week or part thereof delay in rectifying the defect.

No deduction or advantage of any kind on account of Sundays, half days or Public / Govt. holidays observed by the Institute shall be allowed from the total down time permissible as defined above. The right to accept the reason(s) for delay and consider reduction or waive off the penalty for the same shall be at the sole discretion of the Institute.

I / We shall try to repair the equipment at Institute premises. However, in case it is not possible to repair the equipment at Institute premises, we will take out the equipment to our site on our own expenses. We shall

take the entire responsibility for the safe custody and transportation of the equipment taken out for repairs till the equipment is rehabilitated to the Institute after repair. If any loss of equipment occurred during our custody, we will restore it / compensate to Institute for such losses.

I / We guarantee that in case we fail to carry out the maintenance work within the stipulated period, the Institute reserves the right to get the maintenance work carried out at our risk, cost and responsibility after informing us. All the expenses including excess payment for repairs / maintenance shall be adjusted against the Performance Bank Guarantee. In case the expenses exceed the amount of the Performance Bank Guarantee, the same shall be recoverable from us with / without interest in accordance with the circumstances.

I / We undertake to perform calibration after every major repair / breakdown / taking the equipment out for repair from the Institute premises.

I / We guarantee that we will supply spare parts, if and when required on agreed basis for an agreed price. The agreed basis could be an agreed discount on the published catalogue price.

I / We guarantee to the effect that before going out of production of the spare parts, we will give the adequate advance notice to Institute so that Institute may undertake to procure the balance of the life time requirements of the spare parts.

Authorized signatory of the company with seal

Annexure-IV

BANK GUARANTEE FORM FOR PERFORMANCE SECURITY

The Director
Indian Institute of Technology Jodhpur,
Jodhpur (India) 342011.

WHEREAS..... (Name and address of the Supplier) (hereinafter called “the Supplier”) has undertaken, in pursuance of contract no..... dated (hereinafter called “the contract”) to supply

AND WHEREAS it has been stipulated by you in the said contract that the Supplier shall furnish you with a bank guarantee by a scheduled/nationalized bank recognised by you for the sum specified therein as security for compliance with its obligations in accordance with and due performance of the contract;

AND WHEREAS we have agreed to give the Supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the Supplier, up to a total of(amount of the guarantee in words and figures), and we hereby irrevocably and absolutely undertake to pay you immediately, upon your first written demand declaring the Supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the Supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

The Bank guarantee shall be interpreted in accordance with the laws of India. The Guarantor Bank represents that this Bank Guarantee has been established in such form and with such content that is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

The Bank Guarantee shall not be affected in any manner by reason of merger, amalgamation, restructuring or any other change in the constitution of the Guarantor Bank or the Supplier. The Bank further undertakes not to revoke this Guarantee during its currency except with the previous express consent of the Buyer in writing.

The Bank declares that it has power to issue this Guarantee and discharge the obligations contemplated herein, the undersigned is duly authorized and has full power to execute this Guarantee for an on behalf of the Bank.

This guarantee shall be valid up to and including the day of, 20.....

.....
(Signature with date of the authorised officer of the Bank)

.....
Name and designation of the officer

.....
Seal, name & address of the Bank and address of the Branch

Annexure - V

Format for Financial Bid

(To be submitted on the letterhead of the company / firm)

Ref. No.

Dated:

S. No.	Description	Qty.	Unit Rate	Total Amount
1.	Basic Price of the equipment			
2.	Other charges (if any, specify in brief)			
3.	VAT / CST (As applicable)			
Total				
4.	AMC charges (After warranty for 2 years)	Charges for 1 st year		
		Charges for 2 nd year		
5.	CMC charges (After warranty for 2 years)	Charges for 1 st year		
		Charges for 2 nd year		

Note:

1. I/We have gone through the entire terms & conditions as stipulated in the tender enquiry document and confirm to accept and abide the same.
2. No other charges would be payable by the Institute.
3. Rates of AMC and CMC are to be quoted in Indian Rupees only as these shall be paid in Indian Rupees only.
4. CMC has to be for all parts and may also include consumables and reagents. The charges for the service contract will be paid half-yearly in arrears for satisfactory service or as per the mutually agreed upon schedule.

Authorized signatory of the company with seal
