

Open Tender Ref. No: IITH/PHY/JMOHANTY/2021/T347

Date: 22/07/2021

Indian Institute of Technology Hyderabad invites online bids (e-tender) in two bids systems, from OEM/Authorized distributors/Authorized dealer of the following categories for the following item

Category of Suppliers invited for this Tender

- Class I local Supplier – has local content equal to more than 50%
- Class II local Supplier – has local content more than 20% but less than 50%

Item Description	Qty
Magnetic Thin Film deposition system with in-situ Annealing	01

The Tender Document can be downloaded from <https://mhrd.euniwizarde.com>. OR Central Public Procurement (CPP) Portal <https://eprocure.gov.in/epublish/app> OR Institute website- <https://iith.ac.in/tenders>

The bid is to be submitted online only through the E-procurement portal of <https://mhrd.euniwizarde.com> up to the last date and time of submission of tender.

Schedule of Dates

Sr.No	Particulars	Date	Time
1	Date of Online Publication/Download of Tender	22/07/2021	05:00 PM
2	Last Date for sending pre-bid queries	05/08/2021	05:00 PM
3	Upload of pre-bid clarifications/corrigendum if any	10/08/2021	02:00 PM
4	Bid Submission Start Date	10/08/2021	02:10 PM
5	Bid Submission Close Date	31/08/2021	02:00 PM
6	Opening of Technical Bids	31/08/2021	02:10 PM

**Note:** Queries/clarifications either technical, financial or commercial, if any, that may arise should be referred by the bidders by e-mail to [jmohanty@phy.iith.ac.in](mailto:jmohanty@phy.iith.ac.in) cc to : [ar.purchase@iith.ac.in](mailto:ar.purchase@iith.ac.in) , [dr.snp@iith.ac.in](mailto:dr.snp@iith.ac.in) , [office.stores@iith.ac.in](mailto:office.stores@iith.ac.in) .

No manual bids will be accepted. All quotation (both Technical and Financial) should be submitted online through E-procurement portal of <https://mhrd.euniwizarde.com>

Any queries relating to the process of online bid submission or queries relating to e-tender Portal in general may be directed to the Helpdesk Support - Phone No. 011-49606060. Mail id: - [helpdeskeuniwizarde@gmail.com](mailto:helpdeskeuniwizarde@gmail.com)

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## INSTRUCTIONS FOR ONLINE BID SUBMISSION

The Tender Document can be downloaded from <https://mhrd.euniwizarde.co>. OR Central Public Procurement (CPP) Portal <https://eprocure.gov.in/epublish/app> OR Institute website- <https://iith.ac.in/tenders>.

The bidders are required to submit soft copies of their bids electronically on the <https://mhrd.euniwizarde.com>. using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the Portal, prepare their bids in accordance with the requirements and submitting their bids online.

More information useful for submitting online bids may be obtained at: <https://mhrd.euniwizarde.com>

### GUIDELINES FOR REGISTRATION:

1. Bidders are required to enrol on the e-Procurement Portal with clicking on the link “Online Bidder Enrolment ” on the e-tender Portal by paying the Registration fee of Rs.2000/- +Applicable GST.
2. As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
3. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication with the bidders.
4. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Only Class III Certificates with signing + encryption key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile. Or bidders can contact help desk for getting the DSC.
5. Only valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC’s to others which may lead to misuse.
6. Bidder then logs in to the site through the secured log-in by entering their user ID /password and the password of the DSC / e-Token.
7. The scanned copies of all original documents should be uploaded in pdf format on portal <https://mhrd.euniwizarde.com>
8. After completion of registration payment, bidders need to send their acknowledgement copy on help desk mail id [helpdeskeuniwizarde@gmail.com](mailto:helpdeskeuniwizarde@gmail.com) for activation of their account.

## **SEARCHING FOR TENDER DOCUMENTS**

1. There are various search options built in the e-tender Portal, to facilitate bidders to search active tenders by several parameters.
2. Once the bidders have selected the tenders they are interested in, you can pay the form fee and processing fee (NOT REFUNDABLE) by net-banking / Debit / Credit card then you may download the required documents / tender schedules, Bid documents etc. Once you pay both fee tenders will be moved to the respective 'requested' Tab. This would enable the e- tender Portal to intimate the bidders through e-mail in case there is any corrigendum issued to the tender document.

## **PREPARATION OF BIDS**

1. Bidder should take into account any corrigendum published on the tender document before submitting their bids.
2. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid.
3. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF formats. Bid Original documents may be scanned with 100 dpi with Colour option which helps in reducing size of the scanned document.
4. To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, GST, Annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Documents" available to them to upload such documents.
5. These documents may be directly submitted from the "My Documents" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

## **SUBMISSION OF BIDS**

1. Bidder should log into the website well in advance for the submission of the bid so that it gets uploaded well in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
2. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document as a token of acceptance of the terms and conditions laid down by IIT Hyderabad.
3. Bidder has to select the payment option as "e-payment" to pay the tender fee / EMD as applicable and enter details of the instrument.

4. In case of Bank Guarantee (BG) bidder should prepare the BG as per the instructions specified in the tender document. The BG in original should be posted/couriered/given in person to the concerned official of IIT Hyd before the Online Opening of Technical Bid. In case of non-receipt of BG in original by the said time, the uploaded bid will be summarily rejected.
5. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BOQ file, open it and complete the white Colored (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.
6. The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
7. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
8. Upon the successful and timely submission of bid click "Complete" (i.e. after Clicking "Submit" in the portal <https://mhrd.euniwizarde.com>), the portal will give a successful Tender submission acknowledgement & a bid summary will be displayed with the unique id and date & time of submission of the bid with all other relevant details.
9. The tender summary has to be printed and kept as an acknowledgement of the submission of the tender. This acknowledgement may be used as an entry pass for any bid opening meetings.

**For any clarification in using <https://mhrd.euniwizarde.com>**

1. Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
2. Any queries relating to the process of online bid submission or queries relating to e-tender Portal in general may be directed to the Helpdesk Support.

Please feel free to contact euniwizard helpdesk (as given below) for any query related to etendering -  
Phone No. 011-49606060. Mail id: - [helpdeskeuniwizarde@gmail.com](mailto:helpdeskeuniwizarde@gmail.com)/ Mr.Vijay - 08448288989/Mr.Gagan-8448288987

## CHAPTER-1 INVITATION FOR TENDER OFFERS

Indian Institute of Technology Hyderabad invites online bids (e-tender) in two bids systems, from OEM/Authorized distributors/Authorized dealer of the following categories for the following item

Item : Supply, Installation, Commissioning & Demonstration of Magnetic Thin Film deposition system with in-situ Annealing.

### Category of Suppliers invited for this Tender

- Class I local Supplier – has local content equal to more than 50%
- Class II local Supplier – has local content more than 20% but less than 50%

1. The Bidders are requested to give detailed tender in two Bids i.e.

- Part - I: Technical Bid.
- Part - II: Commercial Bid.

### 2. Date & Time Schedule

Sr.No	Particulars	Date	Time
1	Date of Online Publication/Download of Tender	As mentioned above	
2	Bid Submission Start Date		
3	Bid Submission Close Date		
4	Opening of Technical Bids		

Supply means: “Supply, Installation, Commissioning and satisfactory demonstration of the whole system and training”. If any charges extra are payable for Installation, Commissioning and training, the same should be specified in the commercial offer.

### 3. Availability Of Tender:

The Tender Document can be downloaded from <https://mhrd.euniwizarde.co>. OR Central Public Procurement (CPP) Portal <https://eprocure.gov.in/epublish/app> OR Institute website- <https://iith.ac.in/tenders>

### 4. Envelope 1- Technical Bid:

4.1. The online envelope clearly marked as "Technical Bid - Envelope No. 1" shall contain the all scanned copies of originals documents in PDF Format.

- Compliance statement/questionnaire of tender terms and conditions as per Annexure-‘A’.
- Compliance statement of specifications as per Annexure- ‘B’.
- Bid Securing Declaration Form as per Annexure- ‘C’.
- Manufacturer authorization as per Annexure –‘D’.
- Previous Supply Order List Format as per Annexure –‘E’.

- f) Bidder Information Form as per **Annexure –‘F’**.
- g) Declaration Regarding Clean Track/No Legal Action as per **Annexure –‘G’**.
- h) Annual Maintenance Contract as per **Annexure- ‘H’**
- i) Acceptance Of Tender Terms as per **Annexure – ‘I’**
- j) Relation Certificate – as per **Annexure – ‘J’**
- k) Local Content Declaration as per **Annexure – ‘K’**
- l) Certificate as per DPIIT Order – as per **Annexure ‘L’**
- m) Solvency certificates (not older than twelve months) issued by Scheduled/Nationalized bank with which BIDDER holds the Bank account.
- o) Copy of GST/ PAN No. allotted by the concerned authorities. If registered with the National Small Industries Corporation, the registration number, purpose of registration and the validity period of registration and a copy of NISC/MSME registration wherever it is applicable should also be provided in Technical Bid.
- p) Technical literature/ leaflets and complete specifications of quoted model(s) along with commercial terms and conditions.
- q) Undertaking that the successful BIDDER agrees to give a security deposit amounting to 3% of the purchase order value by way of Demand Draft / Bank Guarantee in favor of The Director, IIT Hyd.
- r) In case of exemption from submission of Bid security, proof of registration with NSIC/MSME or appropriate authority.
- s) Details of supplies of similar Works/Supplies along with photocopies of previous Purchase orders and details of place of supply along with contact details
- t) Check List

**4.2. Earnest Money Deposit (EMD)** - The Bidders are required to sign a Bid Securing Declaration as per Annexure ‘C’ accepting that if they withdraw or modify their bids during the period of validity, or if they are awarded the contract and they fail to sign the contract or submit a Performance Security, they will be suspended for the period of 2 years.

**The firm registered with NSIC/MSME must give proof of registration along with their quotation failing which the bid will not be considered.**

Exemption from submission of Bid Securing Declaration against valid and relevant NSIC /MSME Certification is permitted, however it shall be subject to scrutiny by the IITH and if during scrutiny, it is found that the NSIC Certificate is invalid and/or irrelevant, then that bid is liable to be rejected as “not-accompanying EMD”. Therefore, Bidders claiming exemption from EMD/Bid Securing Declaration against NSIC certificate, should ensure the same carefully, while submission of their bids.



**Note to MSME/NSIC bidders:** If in the view of bidder, any exemption / relaxation is applicable to them from any of the eligibility requirements, under any Rules / Guidelines/ Directives of Government of India, bidder may submit their claim for the applicable exemption /relaxation, quoting the valid Rule/Guidelines/ Directives with a copy of such notification. In this case the bidder must submit necessary and sufficient documents along with the technical bid, in support of their claim. The relevant and valid certificates in support of claim of exemption must be submitted along with the Technical Bid.

Bids submitted without Bid Security Declaration or relevant Certificates for exemption will stand rejected.

i) The BIDDER who submits the tender on behalf of their principals should produce documentary evidence in support of their authority to quote or submit Performa invoice of their principals for this tender.

ii) The successful BIDDER, on award of contract / order, must send the contract / order acceptance in writing, within 15 days of award of contract.

iii) Bids submitted without Bid Securing Declaration / relevant MSME/NSIC Certificates will be rejected & no correspondence in this regard shall be entertained.

#### **4.3. Technical Specifications:**

It must be ensured that the offers must be strictly as per our specifications. At the same time it must be kept in mind that merely copying our specifications in the quotation shall not make the parties eligible for consideration of the quotation. A quotation has to be supported with the printed technical leaflet/literature of the quoted model of the item by the quoting party/manufacturer and the specifications mentioned in the quotation must be reflected /supported by the printed technical leaflet/literature. Therefore the model quoted invariably be highlighted in the leaflet/literature enclosed with the quotation. Non-compliance of the above shall be treated as incomplete/ambiguous and the offer can be ignored without giving an opportunity for clarification/negotiation etc. to the quoting party.

#### **4.4. Compliance Statements:**

i) Bidders must furnish a Compliance Statement of each and every required Specification of our tender in the format at ANNEXURE-‘B’. The deviations, if any, from the tendered specifications should be clearly brought out in the statement. Technical literature/leaflet showing the compliance of the specification may also be attached with the quotation.

ii) Similarly, the Compliance Statement/questionnaire for Terms & Conditions of the tender may be furnished, as per the enclosed format at Annexure –‘A’, along with quotation (with techno-commercial bid in case of two bid tender system).



iii) The firms are advised to submit both the compliance statements essentially along with their quotation failing which their offer may not be considered.

## **5. Envelope 2: “Commercial Bid” shall contain:**

i.) Cost of all the items should be mentioned clearly and individually in the Commercial Offer (Part-II) only.

ii) The BIDDERS are requested to quote for Educational Institutional Price for Equipment and software, since IITH is an educational institution of national importance and is entitled for the concessional price.

iii) The prices should be shown against each item for the purpose of Insurance claims / replacements if any.

iv) List of deliverables / Bill of materials and services.

v) Annual Maintenance Certificate as per Annexure –‘H

vi) In case of foreign quote, the address of Principal’s / Manufacturer’s and their Banker’s details should be furnished.

Note:

(i) No request for extension of due date will be considered under any circumstances.

(ii) No sub-contracting is allowed with regard to installation, commissioning, training, warranty maintenance and after sales service. This is the sole responsibility of the Principals’/their authorized agents

6 . IIT Hyd may issue corrigendum to tender documents before due date of Submission of bid. The bidder is required to read the tender documents in conjunction with the corrigendum, if any, issued by IIT Hyd.

## **7. Bid Opening And Evaluation Process:**

a. Technical Bids will be opened as per the Date Schedule & Time.

b. Financial Bids/Commercial Bids of the eligible bidders will be opened on a later date. The date and time for opening of Financial Bids /Commercial will be announced later.

c. Bids would be summarily rejected, if tender is submitted other than through online portal. The Bid is to be submitted within stipulated date / time.

## 8. Technical Committee

(i) On the due date the Technical bids will be opened and referred to a duly constituted technical committee which is duly constituted. The committee will go through the technical aspects of the tender and recommend short listed firms. The recommendation of the technical committee is the final and binding on all the parties.

(ii) The technical evaluation will be an assessment of the Technical Bid. IIT Hyd representatives will proceed through a detailed evaluation of the Technical Bids as defined in Chapter IV (Schedule of requirements, specifications and allied technical details), in order to determine whether they are substantially responsive to the requirements set forth in the tender. In order to reach such a determination, IIT Hyd will examine the information supplied by the BIDDERS, and shall evaluate the same as per the specifications mentioned in this tender.

(iii) The technical committee may formulate evaluation criteria in addition to the specifications and requirements indicated in the tender, in the interest of IIT Hyd and these criteria/recommendation will also form as a part of short-listing of the firms.

(iv) The Technical Committee will examine all the Technical aspects of the bids received. Further, the Technical Committee may seek additional information from the existing users at IIT Hyd or from other Institutes, these feedbacks will be considered for technical evaluation, the bidders will also be called for technical presentations if it is required so.

(v) The information received and the bids already submitted together will be examined with reference to the tendered specifications and evaluation is made by the Technical Committee.

(vi) After the technical evaluation is completed and approved, IIT Hyd shall inform to the BIDDERS whose bids have been rejected technically with the reasons for rejection.

(vii) The successful BIDDERS will be informed regarding the date and time of Commercial bid opening.

(viii) In the event of seeking any clarification from various BIDDERS by IIT Hyd, the BIDDERS are required to furnish only technical clarifications that are asked for. No amendment to commercial bid will be entertained at that stage. In case if a BIDDER fails to quote for a particular item it amounts to non-compliance and hence such bid will not be considered for further evaluation. Further during this process if any BIDDER indicates the price during the clarification such bids also will not be considered for further evaluation.

## 9. Commercial Bid Evaluation:

Based on results of the Technical evaluation IIT Hyd evaluates the Commercial Bid of those Bidders who qualify in the Technical evaluation.

a) IIT Hyd shall be free to correct arithmetical errors on the following basis:

(i) If there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of the Purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the line item total as quoted shall govern and the unit price shall be corrected.

(ii) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and

(iii) If there is a discrepancy between words & figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (i) and (ii) above.

b) Selling exchange rate/equivalent to Indian currency will be as on the date of bid opening in the case of single bidding and the rate on the date of opening of the Techno-Commercial bids i.e. Technical Bid in the case of two-part bidding.

c) The bids shall be evaluated on the basis of final landing cost as per format given in Price Schedule in case of import / indigenous items.

d) The comparison between the indigenous and the foreign offers shall be made on FOR destination basis and CIF/CIP basis respectively. However the CIF/CIP prices quoted by any foreign bidders shall be loaded further as under :

- Towards customs duty and other statutory levies-as per applicable rates.
- Towards custom clearance, inland transportation etc. – 2% of the CIF/CIP value.

e) Where the price quoted on FOB/FCA and CIF/CIP basis are the same, the Contract would be made on CIF/CIP basis only.

f) The Vague terms like “packing, forwarding, transportation..... etc. extra” without mentioning the specific amount/percentage of these charges will not be accepted. Such offers shall be treated as incomplete and rejected.

g) After arriving at final pricing of individual offers of all the short listed firms, the lowest firm will be awarded with Contract/Purchase Order.

**10.** The Director, IIT Hyd reserves the right to accept the offer in full or in parts or reject summarily or partly and also reserves the right to cancel the tender at any stage without assigning reasons

## CHAPTER-2: INSTRUCTIONS TO BIDDERS

### 1. PREPARATION AND SUBMISSION OF OFFERS:

a) Quotation should be submitted directly by the original manufacturer/supplier or its sole authorized distributor/dealer/ Agent. In case of bid by authorized dealer/distributor/ Agent, the manufacturer authorization should be attached with the technical bid as per **Annexure-‘D’**.

**One Agent can participate in a tender on behalf of one manufacturer only. No offer will be entertained if the same Agent is representing another manufacturer for the same item.**

**Bids from only one authorized distributor/retailer/reseller will be entertained, who has authorization from the company to quote for this tender. Multiple bids from various distributors from the same manufacturer will not be entertained & the company / principle providing multiple authorizations will be rejected from the tender.**

b) The bidder shall bear all costs associated with the preparation and submission of its bid irrespective of the conduct or outcome of the bidding process.

c) The bidder should not indulge in any corrupt, fraudulent, collusive, coercive practices during the entire process of procurement and execution of contract/order.

d) Before the deadline for submission of the bid, IIT Hyd reserves the right to modify the bidding document and to extend or not to extend the date of submission. Such amendment/modification will be hosted on e-Procurement portal (<https://mhrd.euniwizarde.co>.) and on IIT Hyd website.

f) Conditional tenders will be summarily rejected.

### 2. Delivery Period / Timeliness:

The deliveries & installation must be completed within 4 to 5 months from the date of issue of Purchase Order. The time is the essence of the contract. It is mandatory for the BIDDERS who respond to this bid to meet these expectations, as are tightly linked to IIT Hyd plans of completing the project within the time frame.

### 3. Security Deposit:

a. Within fifteen (15) days of the award of contract, the vendor shall furnish a Security Deposit amounting to **3%** of the purchase order value in the form of Demand Draft/Bank Guarantee (**from scheduled Bank only**) favouring the Director, IIT Hyd.

b. The IIT Hyd will forfeit the 3% security deposit if vendor fails to execute the order as per the Purchase Order.

c. The Security Deposit should be valid for warranty period + 60 days, as the same will extend the same as Performance Bank Guarantee. Hence while preparing the BG, the time period required for delivery and installation and warranty + 60 days needs to be accounted for to cover the BG validity period.

d) This Security Deposit will be refunded to the vendor only on satisfactory completion of all contractual obligations as per this Tender and Purchase Order issued against this Tender.

e. **Bank Guarantee wherever mentioned in this document may be read as “Bank Guarantee from any Scheduled Bank” only.**

#### **4. Amalgamation/Acquisition etc.:**

In the event the Manufacturer/Supplier proposes for amalgamation, acquisition or sale of its business to any firm during the contract period, the BUYER/Successor of the Principal Company are liable for execution of the contract and also fulfilment of contractual obligations i.e. supply, installation, commissioning, warranty, maintenance/replacement of spares accessories etc. while submitting your bid, you may confirm this condition.

#### **5. Bid Validity Period:**

a. The prices must be valid at least for a period of **90 days** from the date of opening of the Tender. No changes in prices will be acceptable in any condition after opening of tender till the validity of the offer or execution of the order whichever is later

b. IIT Hyd may ask for the BIDDER's consent to extend the period of validity. Such request and the response shall be made in writing only. The BIDDER is free not to accept such request. A BIDDER agreeing to the request for extension will not be permitted to modify his bid.

c. Bid evaluation will be based on the bid prices without taking into consideration the above corrections

#### **6. AWARD OF CONTRACT:**

a. IIT Hyd, shall award the contract to the technically qualified eligible BIDDER whose bid has been determined as the lowest evaluated commercial bid.

b. If more than one BIDDER happens to quote the same lowest price, IIT Hyd reserves the right to award the contract to more than one BIDDER or any BIDDER.

## 7. IIT Hyd reserves the right to vary quantities at the time of Award:

- IIT Hyd reserves the right at the time of Contract award to increase or decrease the quantity of goods and services originally specified in the tender document without any change in unit price or other terms and conditions. Further, at the discretion of IIT Hyd, the quantities in the contract may be enhanced by 25% within the delivery period.
- Firms which have already supplied similar equipment to IIT Hyd and have not completed required installation/commissioning/after sales service/warranty replacements etc. such firms offer will not be considered for further evaluation and no enquiries thereafter will be entertained.

## 8. Cargo Consolidation and Customs Clearance:

IIT Hyd has appointed its own Freight Forwarder and Custom House Agent for all the imports. Please note that all the consignments have to be routed through their associates only. The address and contact details will be provided at the time of placing the Purchase Order.

## 9. Fraud and Corruption:

IIT Hyd requires that bidders, suppliers, contractors and consultants, if any, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy,

(a) The terms set forth below are defined as follows:

- “Corrupt practice”** means the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in contract execution;
- “Fraudulent practice”** means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract;
- “Collusive practice”** means a scheme or arrangement between two or more bidders, designed to establish bid prices at artificial, non-competitive levels; and
- “Coercive practice”** means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract

(b) IIT Hyd will reject a proposal for award if it determines that Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent collusive or coercive practices in competing for the Contract in question

## 10. Interpretation of the clauses in the Tender Document / Contract Document

In case of any ambiguity / dispute in the interpretation of any of the clauses in this Tender Document, Director, IIT Hyd's interpretation of the clauses shall be final and binding on all parties.

## CHAPTER - 3 : CONDITIONS OF CONTRACT

### 1. Prices:

Bid prices should be filled in the appropriate format as mentioned in Price Schedule. All the bidders should quote prices for each and every item/accessories separately

#### **A. Bidders Quoting in Indian Rupees ( INR) - For Goods with Local Content in the range of not less than 20 %**

(i) The price of the goods must be as per the BoQ.

(ii) The price mentioned in BoQ must be inclusive of transportation, Insurance, loading and unloading and any other local service required for delivering the goods for the desired destination as decided by IIT Hyd. Loading and unloading is strictly in vendor scope. IIT Hyd will not provide any manpower support towards the same.

(iii) The installation, commissioning and training charges (If any) must be mentioned as per the BoQ (if requested separately in BoQ) else the price quoted will be taken as inclusive of installation, commissioning and training.

(iv) The institute will not be responsible in case of the bidders failing to include any of the above mentioned prices in their bid. The price mentioned in the BoQ will be final and the bidder has to comply with that, if awarded the tender.

(v) Unloading of the goods at IIT Hyd is strictly in the scope of the bidder, no manpower will be provided by IIT Hyd.

(vi) As per Ministry of Finance Notification 45/2017 & 47/2017, concessional GST at 5% is applicable to IITH.

#### **B. Bidders Quoting in Foreign Currency - For Goods with Local Content in the range of not less than 20 %**

(i) The mode of shipment must be clearly mention in the BoQ viz Ex-works, FCA, FOB, CIP, DDP etc.

(ii) Courier mode of shipments will not be acceptable. The Shipments must be dispatched under Cargo Mode only.

(iii) The mode of shipment once mentioned cannot be changes without the consent of IIT Hyd .



(iv) Any financial implication leading to change of mode of shipment or any deviation from the bid submitted shall be borne by the bidder.

(v) The charges towards insurance and transportation of the goods and agency commission must be clearly mentioned.

(vi) The installation, commissioning and training charges (If any) must be mentioned as per the BoQ (if requested separately in BoQ) else the price quoted will be taken as inclusive of installation, commissioning and training.

(vii) The institute will not be responsible in case of the bidders failing to include any of the above mentioned prices in their bid. The price mentioned in the BoQ will be final and the bidder has to comply with that, if awarded the tender.

C. IIT Hyd is exempted from payment of Customs Duty under notification No.51/96 dated 23.07.1996. No other charges than those mentioned clearly in the quotation will be paid.

## **2. Bank Charges:**

All Bank charges inside India, including opening of LC, to IIT Hyd Account and all charges outside India to Beneficiary's Account only. In case the BIDDER seeks confirmation of LC such confirmation charges are to the Beneficiary's account.

## **3. Agency Commission & Services:**

a) The Indian Agency commission if any will be payable in Indian currency only after the receipt of consignment in good condition at our Stores and satisfactory installation and commissioning of the ordered equipment.

b) In case of foreign quote, the Principal supplier should clearly indicate the address of the Indian Agent and percentage (%) of Agency Commission and taxes if any payable to him. Such amounts will be paid in Indian Currency to the Indian Agent.

c) Details of services rendered by the Agency/Indian Agent as well as after-sales services offered are to be clearly specified in the bid.

4. **Currency of Payment** - The contract price will be paid in the currency/currencies in which the price is stated in the contract.

5. **Performance Bank Guarantee:** The 3% Security Deposit which is mentioned above (Chapter 2 Point No 3) will be extended as Performance Bank Guarantee for a period of warranty period.

**6. Pre-installation:** The BIDDER has to state in detail the Electrical Power/UPS requirements, floor Space, head room, foundation needed and also to state whether Air-conditioned environment is needed to house the system and to run the tests. i.e. pre-installation facilities required for installation may please be intimated in the technical bid. Subsequently, before the consignment lands in IIT Hyd the bidder shall confirm that the pre-installation requirements are sufficient for installation of the equipment. The BIDDER should continuously monitor the pre-installation requirements and see that everything is ready before the consignment is taken to the site for installation.

**7. Installation:**

- a) BIDDER shall be responsible for installation / demonstration wherever applicable and for after sales service during the warranty and thereafter.
- b) Installation demonstration to be arranged by the supplier free of cost and the same is to be done within 15 days of the arrival of the equipment at site, unless otherwise instructed by the Institute
- c) After successful installation what will be the minimum down time of equipment/instrument in case of breakdown. If the identified firm or person fails to put the system into working condition what is the further alternative course of action suggested to adhere to minimum down time should be covered in the Technical Bid.

**8. Inspection:**

- a) The inspection of the system will be done by our technical expert /Scientist in the presence of firm's representative.
- b) In case of receipt of the material in short supply or damaged condition the supplier will have to arrange the supplies/ replacement of goods free of cost pending the settlement of the insurance case wherever applicable on FOR at the IIT Hyd.

**9. Training:** Wherever needed, Scientist/Technical persons of the Institute should be trained by the supplier at the project site free of cost. In case the person is to be trained at supplier's site abroad or in India it should be mentioned in the quotation clearly. The supplier should bear all the expenses for such training including 'to & fro' fares and lodging & boarding charges.

**10. Warranty / Support:**

- a) The items covered by the schedule of requirement shall carry minimum One year of Comprehensive warranty from the date of acceptance of the equipment by IIT Hyd. Warranty shall include free maintenance of the whole equipment supplied including free replacement of parts. The defects, if any, shall be attended to on immediate basis but in no case any defect should prolong for more than 24 hours. The comprehensive warranty includes onsite warranty with parts.
- b) The defects, if any, during the guarantee/warranty period are to be rectified free of charge by arranging free replacement wherever necessary. This includes cost, insurance, freight, custom duty, local taxes if any should be borne by the beneficiary or his agent. No cost will be borne by IIT Hyd.
- c) The warranty on the associated software should cover providing of upgraded version/s, if any, released during the warranty period free of cost.

d) The Bidder shall assure the supply of spare parts after warranty is over for maintenance of the equipment supplied if and when required for a period of 10 years from the date of supply of equipment on payment on approved price list basis.

e) The equipment must be supported by a Service Centre in India manned by the technical support engineers.. Also it should be possible to contact the Principal's vendor support Centre on a toll free number/web/mail. The support through this Centre must be available during all working days and hours.

f) The manufacturer/OEM is should facilitate the bidder/Agent on regular basis with technology / product updates & extend support for the warranty as well.

g) The vendor will have to arrange for all the testing equipment & tools required for installation, testing & maintenance etc.

h) The principal vendor must have a local logistics support by maintaining a spares in the country of deployment of the equipment, with the Indian Agent. This is to ensure immediate delivery of spares parts from Principal Vendor of equipment to its channel partner/system integrator.

i) Details of the agency who shall maintain during warranty and undertake Annual Maintenance Contract/Comprehensive Service Maintenance Contract beyond warranty shall be given in the offer. In case of foreign quote, the Indian Agent who shall maintain during warranty and AMC beyond warranty shall be given in the Technical Offer

j) **Commencement Of Warranty Period:** The warranty period of an item shall commence from the date of successful installation, commissioning and demonstration at IIT Hyd. The warranty period and validity of Performance Guarantee shall be extended for the period of delay in satisfactory installation and delay in warranty services.

11. **Reasonability of Prices:** The prices quoted must be the prices applicable for a premiere Educational and Research Institute of national importance. The bidder must give details of identical or similar equipment, if any, supplied to other IITs/ IISERs/ CSIR lab/ CFTI's during last three years along with the final price paid and Performance certificate from them

12. **Annual Maintenance Contract:** The bidder must mention in the quotation, the rate/amount of annual maintenance charges, if we opt for maintenance contract after expiry of the warranty period. This is mandatory to mention, wherever applicable. No sub-contracting will be allowed for installation or maintaining system/ equipment / instrument during or after warranty period.

13. **Indemnity:** The vendor shall indemnify, protect and save IIT Hyd against all claims, losses, costs, damages, expenses, action suits and other proceeding, resulting from infringement of any law pertaining to patent, trademarks, copyrights etc. or such other statutory infringements in respect of all the equipment's supplied by the bidder/OEM.

#### 14. Freight & Insurance:

- a) **Imports:** In case of imports the freight & insurance will be paid by IIT Hyd , as the consignments are shipped through the IIT Hyd nominated freight forwarder (applicable only cases of FCA/FOB shipments).
- b) **Indigenous :** The equipment'/items to be supplied will be insured by the vendor against all risks of loss or damage from the date of shipment till such time it is delivered at IIT Hyd site in case of Rupee transaction.

#### 15. Payment: - No advance payments are allowed.

##### A) INDIGENIOUS

For Indigenous items, 90% payment shall be made against delivery, installation, commissioning and balance 10% on demonstration of the whole system to the satisfaction of the Institute/ Scientist/ Technologist /Indentor/Professor etc. If the PBG, submitted as per Chapter 2 Clause No 3, requires extension to cover the Warranty Period the same will be done before release of the balance 10% Payment.

##### B) IMPORT

i) **Letter of Credit** will be established for 100% order value excluding the Agency Commission due to the Indian Agents. The Letter of Credit will be established only on receipt of the Security Deposit as per Chapter 2 Clause No. 3.

90% payment shall be made against the presentation of original Shipping documents to our bankers or as per the LC terms and conditions. Balance 10% will be released after completion of satisfactory installation, commissioning, demonstration of the whole system to the satisfaction of the Institute/User Scientist Technologist/Indentor/Professor. If the PBG, submitted as per Chapter 2 Clause No 3, requires extension to cover the Warranty Period the same will be done before release of the balance 10% Payment.

OR

ii) **By Wire Transfer** - 90% payment shall be made against delivery, installation, commissioning and balance 10% on demonstration of the whole system to the satisfaction of the Institute/User Scientist /Technologist/Indentor/Professor If the PBG, submitted as per Chapter 2 Clause No 3, requires extension to cover the Warranty Period the same will be done before release of the balance 10% Payment

iii) The payment of local currency portion shall be payable in Indian Rupees, within 30 days after the receipt of the equipment in good condition and after satisfactory installation and commissioning and demonstration.

iv) The Agency Commission to the Indian Agent will be paid in INR only after successful installation, commissioning and satisfactory demonstration and acceptance of the items ordered for by the end user.

## 16. Liquidity Damage for delayed Services

i) As time is the essence of the contract, Delivery period mentioned in the Purchase Order should be strictly adhered to, failing which, IIT Hyd will forfeit SD and also LD clause will be applicable /enforced.

ii) If the supplier fails to Supply, Install and Commission the system as per specifications mentioned in the order within the due date, the Supplier is liable to pay liquidated damages of 0.5% of order value per every week of delay subject to a maximum of 10% beyond the due date. Such money will be deducted from any amount due or which may become due to the supplier.

iii) IIT Hyd reserves the right to cancel the order in case the delay is more than 10 weeks. Penalties, if any, will be deducted from the Security Deposit.

## 17. Public Procurement (Preference to Make in India), Order 2017:

a) IIT Hyd shall compare all substantially responsive bids to determine the lowest valued bid. This Institute is following and abide with the Public Procurement (Preference to Make in India), Order 2017, DIPP, MoCI Order No. P-45021/2/2017-B.E.II dated 15th June 2017 and its subsequent amendments. Accordingly preference will be given to the Make in India products while evaluating the bids, however, it is the sole responsibility of the bidder(s) to specify the product quoted by them is of Make in India product along with respective documentary evidence as stipulated in the aforesaid order in the technical bid itself.

b) As per the above order and its subsequent amendments “Local Content” means the amount of value added in India which shall be value of the item procured (excluding net domestic indirect taxes) minus the value of the imported content in the item (including all the custom duties) as a proportion of the total value, in percent. Accordingly the suppliers will be classified in following categories.

- i) Class I local Supplier – has local content equal to more than 50%
- ii) Class II local Supplier – has local content more than 20% but less than 50%

c) **Verification of Local Content** : The Class I Local Supplier /Class II Local Supplier at the time of bidding shall be required to indicate the percentage of local content and provide **self-certification as per Annexure K** that the items offered meet the local content requirement. The details of the location(s) at which the local value addition is made also needs to be specified.

In case of procurement in excess of Rs.10 crores , the suppliers shall be required to provide the certificate from the Statutory auditor or cost auditor of the company giving the percentage of local content.

**The bidders can be debarred for a period up to two years as , per Rule 151(iii) of GFR 2017, in case of false declaration.**

### **Complaint Redressal Mechanism:**

In case any complaint received by the procuring agency or the concerned Ministry/Department against the claim of a bidder regarding local content/domestic value addition in a product, the same shall be referred to competent authority at IITH or the relevant Ministry .

The bidder against whom the complaint is received shall be required to furnish the necessary documentation in support of the domestic value addition claimed in the product to authority. If no information is furnished by the bidder, such laboratories may take further necessary action, to establish the bonafides of the claim

A complaint fee of Rs. 2 lakh or 1% of the value of the domestically manufactured products being procured (subject to a maximum of Rs.5 lakh), whichever is higher, to be paid by Demand Draft to be deposited with Procuring Institute. In case, the complaint is found to be incorrect, the complaint fee shall be forfeited. In case, the complaint is upheld and found to be substantially correct, deposited fee of the complainant would be refunded without any interest.

False declarations will be in breach of the Code of Integrity under Rule 175 (1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

**18. Requirement of registration:** Vide Ministry of Finance OM No. 6/18/2019-PPD dated 23rd July 2020.

i. Any bidder from a country sharing a land border with India will be eligible to bid in this tender only if the bidder is registered with the Department for Promotion of Industry and Internal Trade (DPIIT).

ii. "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.

iii. "Bidder from a country which shares a land border with India" for the purpose of this Order means:

- a) An entity incorporated, established or registered in such a country; or
- b) A subsidiary of an entity incorporated, established or registered in such a country; or
- c) An entity substantially controlled through entities incorporated, established or registered in such a country; or
- d) An entity whose beneficial owner is situated in such a country; or
- e) An Indian (or other) agent of such an entity; or
- f) A natural person who is a citizen of such a country; or



g) A consortium or joint venture where any member of the consortium or joint venture falls under any of the above

For details about registration procedures please visit the above mentioned OM. Mandatory documentary evidence regarding the bidder's registration with DPIIT is to be submitted along with the tender, failing which the tender shall be liable for rejection. Bidders are also requested to submit the Model Certificates **as per Annexure 'L'** for this tender as mentioned in the Ministry of Finance OM No. 6/18/2019-PPD dated 23rd July 2020.

**19. Force Majeure :** IIT Hyd may consider relaxing the penalty and delivery requirements, as specified in this document, if and to the extent that the delay, in performance or other failure to perform its obligations under the Contract, is the result of a Force Majeure.

Force Majeure is defined as an event of effect that cannot reasonably be anticipated such as acts of God (like earthquakes, floods, storms etc.) acts of states, the direct and indirect consequences of wars (declared or undeclared) hostilities, national emergencies, civil commotion and strikes at successful Bidder's premises.

**20. Dispute Settlement:**

IIT Hyd and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

If, after twenty-one (21) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the IIT Hyd or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration.

Arbitration may be commenced prior to or after delivery of the Goods under the Contract. The dispute settlement mechanism/arbitration proceedings shall be concluded as under:

(a) In case of Dispute or difference arising between the IIT Hyd and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. The dispute shall be referred to the Director IIT Hyd, if he is unable/ unwilling to act, to the sole arbitration of some other person appointed by his willing to act as such Arbitrator. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to this order.

(b) In the case of a dispute between the Purchase and a Foreign supplier, the dispute shall be settled by arbitration in accordance with provision of sub-clause (a) above. But if this is not acceptable to the supplier then the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules. The venue of the arbitration shall be the place from where the purchase order or contract is issued.

**21. Jurisdiction:** The disputes, legal matters, court matters, if any, shall be subject to Hyderabad Jurisdiction only.

Assistant Registrar (S&P)



## CHAPTER 4 SCHEDULE OF REQUIREMENTS, SPECIFICATIONS & ALLIED TECHNICAL DETAILS

### **Technical Specification for** **Magnetic Thin Film deposition system with in-situ Annealing**

#### **I. RF & DC Magnetron Sputtering:**

A Multi-target magnetron sputtering system is required to produce high quality thin films of magnetic materials. The system includes deposition chamber, vacuum pumps, valves and gauges, magnetron sources, power supplies, substrate fixture with heating mechanism, shutters and gas flow control system, instrumentation and all necessary controls.

- i. The technical specification envisages supply, installation and commissioning of a sputtering system complete with all necessary mechanical, electrical and electronics control systems together with structural and all other accessories.
- ii. The performance of sputtering system will be demonstrated by the supplier and should conform to the specifications consisting of functional requirements, equipment features and other aspects as given in this document.
- iii. The supplier shall provide all details including necessary schematic drawings of the equipment, assemblies and layout etc. in the tender documents.
- iv. The sputtering system shall be complete in all respects and any item not covered in this specification but essential for proper operation and achieving smooth / trouble free performance of the equipment shall be included in the offer.
- v. The supplier shall study the technical specifications and satisfy himself regarding the functionality of the sputtering equipment and shall take full responsibility for the operation with regards to the performance and guarantee performance and reliability as per the quality requirements.
- vi. All components and sub-assemblies of the equipment shall be assembled and tested in accordance with the latest international standards.
- vii. The sputtering equipment must be clean room compatible.

#### **Functional requirements**

- The ultimate base pressure of  $5 \times 10^{-7}$  torr measured in normal operational conditions is required. It should be capable of pumping to a pressure of  $5 \times 10^{-6}$  torr in 30 min.

- All the individual components, as well as the entire system should be Helium mass spectrometer leak-tested with sensitivity not less than  $5 \times 10^{-9}$  atm.cc/sec.
- The system should be designed to carry out deposition in sequential fashion for growing multi-layers. The typical materials to be deposited are Fe, Co, Fe-Co, Ni, Fe-Ni, Cr, Ti, Al, Cu & rare earth metals like Tb, Dy, Nd, Sm and their alloys such as Tb-Fe, Dy-Fe, Sm-Fe, Sm-Co etc.
- Thin film will be deposited on substrates of size up to 2" dia.
- The system must be capable of depositing magnetic thin films with uniform thickness. The film thickness uniformity in 2-inch diameter substrate should be better than 3% for a thickness range of 10 – 100 Å and 5 for higher thickness range: 1000 – 10000 Å.
- The sputtering system must be capable of sputtering magnetic targets such as Fe, Co and Fe-Co with thicknesses in the range of 0.5 to 1mm thick.
- The deposition chamber should be capable of performing at varying substrate temperatures ranging from RT to 800 °C with an accuracy of  $\pm 2$  °C in both vacuum and oxygen environment.

## SPECIFICATIONS OF SUB-SYSTEMS

### (i) Sputtering Chamber:

- Non-magnetic, non-corrosive Stainless Steel 304 grade spherical chamber with quick access door and having suitable number of view ports with shutter arrangement and 4 nos Confocal ports for 2" dia magnetron guns.
- All flanges should be CF and all rotary feed through bellow sealed or magnetically coupled.
- System should be capable of pumping down the chamber pressure to  $5 \times 10^{-7}$  mbar.
- Chambers should be buffed and polished for better vacuum performance.
- Demonstrable leak rates better than  $1 \times 10^{-9}$  torr lit/sec.

### (ii) Sputter Source Specification

- Magnetron cathode (Sputter sources): Number: 4 nos., Size: 2-inch as well as 1-inch
- Magnetron cathode (Sputter sources) should have height adjustment facility to vary the distance between target and substrate and used for system integration in confocal orientation.
- Shutters for sputter guns: Flange mounted with inbuilt pneumatic shutters.
- Magnetron cathode should have indirect water-cooling facility for magnet with capability of mounting either 2-inch or 1-inch diameter target.
- All shutter feedthroughs should be magnetic sealed.
- Manual change over switch to connect 1 RF power supply to 4 guns one by one.

**(iii) Power Supply Specification**

- RF power supply (300 W, 13.56 MHz) with auto-matching network for RF sputtering: 01 nos or higher from reputed make (Coaxial power system UK, Seren, Advance Energy or equivalent)
- DC power supply (600W): 1 nos or higher from reputed make (Prevac, ADL, Advance Energy or equivalent).

**(iv) Substrate Holder Specification:**

- Substrate rotation: 0 to 8 rpm or better,
- Substrate Heater Temperature range: RT to 800°C or better
- Sample size: 2-inch diameter or higher (Provision must also be provided to accommodate irregular sized substrates.
- Shutter: Manual
- Heater should be capable of working in both oxygen environment and vacuum.
- All rotations should be bellow sealed or magnetic coupled for vacuum integrity.
- Temperature controller for substrate holder should be PID programmable along with power supply suitable for heater operation.
- Bellow sealed manual up-down movement by 25mm.
- Provision for substrate biasing using the same power supply for Ion-cleaning.

**(v) Valve Assembly:**

- Roughing valve, backing valve, vent valve, gas purging valve, plumbing line, metal hose etc. are to be provided.
- For throttling as well as isolation CF-150 motorized SS gate valve with shaft bellow sealed should be included

**(vi) Load lock:** Load lock assembly having an isolation CF gate valve (bellow sealed) between chamber and load lock chamber, vacuum valve for connecting backing pump of the main chamber to the load lock, Pirani gauge with display, magnetic transfer arm.

**(vii) Mass Flow Controller (MFC):** System should be provided with at least 2 nos. MFC (0-200 SCCM) and necessary SS pipeline, isolation valve, manifold assembly for feeding gas at the sputtering chamber (Any Make of MFC).

(viii) **Mounting platform** with control desk to house all the power supplies, drives, controls and indications. A mounting platform should be provided for mounting the system at a convenient height. The design of the overall system should be compact in nature.

(ix) **Safety Features:**

The sputtering unit should be provided with a number of safety devices and interlocks to protect the system and the operator from mal-function and possible operator's errors.

Some of them are listed below.

- Over load relay protection for electrical motors of the vacuum pump.
- Water flow switch for magnetron cathodes with indicator.
- Protection of RF power supply.
- 1 No. of pressure switches in the pneumatic line should be provided to alert the operator by an alarm in case the pneumatic supply drops below the required operating pressure.
- Arc suppression facility for DC power supply and RF power supply to be protected properly from the main system.

(x) **System Control and Software**

- PLC based Control for Thin Film Deposition System (such as thickness controller, rotation controller, sputtering power, gas pressure, pump down sequence, vent sequence, power control, shutter control, substrate heater and any required components) by human to machine interface for complete automatic user friendly operation.
- Automatic recovery in case of power loss or in case system malfunction
- Provision of graphic representation of pumping control valves, panel of Ion Source, E-beam shutter & temperature, Safety interlocks
- A manual override option should be provided
- The entire equipment must be PC controlled with the necessary database management.
- The software must be user-friendly for all types of processing.

The necessary software in the CD / pen drive form should also be provided for future use

## **II. ELECTRON BEAM & THERMAL EVAPORATION UNIT:**

The EB evaporation unit will be used for the deposition of materials such Al, Ag, Dy, TbFe<sub>2</sub>, Tantalum, Gold, Platinum, etc. on substrates

Thermal Evaporation unit for materials such Al, Ag, gold, etc. to deposit as capping layer over the magnetic thin film

### **EB & Thermal system Chamber:**

- SS 304 rectangular chamber with front opening door and view port with shutter arrangement.
- All flanges should be CF and all rotary feed through bellow sealed or magnetically coupled.
- Chambers should be buffed and electro-polished for better vacuum performance.
- System should be capable of pumping down the chamber pressure to  $5 \times 10^{-7}$  mbar.
- Demonstrable leak rates better than  $1 \times 10^{-9}$  torr lit/sec.

### Substrate Holder Specification:

- Substrate rotation: 0 to 8 rpm or better,
- Substrate Heater Temperature range: RT to 800°C or better).
- Sample size: 2-inch diameter or higher.
- Shutter: Automatic and manual
- The heater should be capable of working in both oxygen environment and vacuum.
- All rotations should be bellow sealed or magnetic coupled for vacuum integrity.
- Temperature controller for substrate holder should be PID programmable along with power supply suitable for heater operation.
- Bellow sealed manual up down movement by 25mm.
- 2% Thickness uniformity range in EB-evaporated films
- Distance between gun and substrate about 8 to 10"

### E-beam Power Supply and Source Specification:

#### Power Supply Specification (Make: Telemark??):

- Maximum power: 6kW (750mA @ 8.0kV)
- Adjustable voltage: 0 to -8kV
- Constant emission current regulation  $< \pm 0.5\%$
- Adjustable voltage with precise regulation ( $< \pm 0.25\%$ )
- 19-inch rack mountable.

#### Source Specification:

- 4 nos of 4cc volume crucibles (manual side drive)
- Beam deflection:  $270^\circ$
- Programmable XY sweep control of electron beam with adjustable and variable sweep pattern. Sweep-pattern programs to be saved and recalled for various materials.
- Integrated with a digital sweep.
- High voltage feedthroughs, manual shutter, Safety interlock with water cooling is to be provided.

### Thermal System Specification:

- 2 pair LT Source with selector switch.
- Manual shutter, boat (material and quantity), variac, transformer (10V, 200Amp) and cables, current readout etc. are to be provided.

### Thickness Monitor Specification (Make: Inficon / Prevac):

- Measurement frequency: 6 MHz
- Thickness resolution: 0.1 Å
- Rate resolution: 0.1 Å/s
- Frequency resolution: 0.1Hz
- Frequency stability: 0.5ppm
- Oscillator should be provided to measure the in-situ rate of deposition and thickness.
- For Display laptop/PC should be provided.
- 10 nos. spare crystal.

### Ion-Cleaning Set up:

- ION cleaning electrode with DC supply (same will be used for biasing). DC power supply 1000V, 1 amp.

### Valve Assembly:

- Roughing valve, backing valve, vent valve, gas purging valve, plumbing line, metal hose etc. are to be provided.
- CF-150 motorized SS gate valve with shaft bellow sealed should be included.

### High Vacuum Common Pumping System Specification:

- Turbo Molecular Pump: Pumping speed at least 650 lit /sec from reputed make (Pfeiffer, Leybold, Edward, Agilent or equivalent).
- Dry Backing Pump with accessories: Pumping speed at least 10 m<sup>3</sup>/hour from reputed make (Pfeiffer, Leybold, Edward, Agilent or equivalent).
- Vacuum measuring gauges should consist of full range gauge and Pirani gauge (measuring range atmosphere to 10<sup>-8</sup> mbar). from reputed make (Pfeiffer, Leybold, Edward, Agilent or equivalent).

### Annealing Set Up:

- SS chamber (water cooled) with molybdenum heater for RTA application of 2" sample along with PID power supply.
- Maximum Heating rate 700C in 90sec
- Magnetic transfer arm.
- High vacuum compatible (atleast 10<sup>-7</sup> mbar)

### Water Chiller Specification:

- Water chiller should be PID programmable.
- Water distribution manifold should be included.
- Flow switch and interlock assembly for safe operation

**Load lock:** Load lock assembly having an isolation CF gate valve (bellow sealed) between chamber and load lock chamber, vacuum valve for connecting backing pump of main chamber to load lock, Pirani gauge with display, magnetic transfer arm, port to connect with annealing chamber.

Arrangement in loadlock to move samples without breaking vacuum from deposition chamber to annealing chamber.

**System baking:** Baking the chamber up to 170°C complete with suitable heater option must be provided.

**Mounting platform** with control desk to house all the power supplies, drives, controls and indications. A mounting platform should be provided for mounting the system at convenient height. Design of overall system should be compact in nature.

**Schematic diagram:** The vendor should provide a schematic diagram of the whole equipment clearly showing the configuration.

**Warranty:** The complete instrument and accessories excluding consumables should be under warranty for a period of one year from the date of installation.

### Essential spares & consumables:

Necessary recommended spare supply for 1 year as free along with the cost for 2 years of trouble free operation of the system must be offered by the Vendor. Electronic spares like ICs, relays, PCBs, filament, transistors, temperature sensors, thermocouples, sample holders, relays, oven assemblies, slow / fast blow fuses, HRC fuses etc. vacuum pump spares such as O-rings, vacuum gauges, valves ETC.

### Safety features:

The equipment should be provided with the following safety devices and interlocks. (i) the electron gun should be provided with a water flow switch and indicator so that high voltage power to them will be interrupted automatically if there is insufficient flow (ii) interlock for e-beam/ thermal evaporation source power supply in case of vacuum drop (below  $10^{-3}$  Torr).



## INSTALLATION AND COMMISSIONING

- The supplier or his representative will do the installation and commissioning of the sputtering equipment as per above description at IITH and demonstrate vacuum cycle and conduct at least five successful deposition experiments before its final acceptance.
- Two Scientists / Operators should be trained for operation, maintenance and servicing of the unit at IIT Hyderabad.
- The infrastructure/ utilities required from this laboratory should be intimated with the offer.
- One time re-installation (within 3 years) within the institute must be done free of cost.

**Airway bill copy/invoice** for imported parts like pumps and gauge, E-beam power supply & source, RF & DC power supply submitted during pre-dispatch inspection.

**# Online meeting can be arranged for interested firms if required for discussing the requirements in detail and for resolving any queries before quotation.**

## TERMS AND CONDITIONS

- i. The firm must quote for a system which is complete in all respects and the manufacturer or authorized supplier must ensure complete integration of all sub-system with cables, connectors as required.
- ii. The quotes from Original Equipment Manufacturers (OEM) or authorized agencies of OEM only are acceptable. Vendor should submit authorization letter from OEM along with the quotation.
- iii. It is mandatory that Indian Representatives should be available for servicing and support after installation and commission.
- iv. It is mandatory that the OEM or their authorized representatives must have supplied at least 3 nos. of similar sputtering and e-beam equipment to any reputed academic institutes/R& D laboratories/Industries in the last five years and they should be in working condition. The particulars regarding such users and their contact details (with email ID & phone and Fax Nos.) to be furnished.
- v. The firm should have in-house design, fabrication, managerial, qualified man power and financial capability to manufacture and supply the sputtering equipment. During technical evaluation of bids, if required, a team of expert members from IITH may visit vendor/OEM site to assess the capability of the firm in design, fabrication, and integration of the equipment for supplying as per the specifications.
- vi. Warrantee/After sales service support should be provided by the OEM or its authorized service agent within 48 hours through full-fledged service center within India. Along with the offer,

manufacturer/ supplier should confirm in writing that the spares and after sales service support will be available for at least 10 years from the date of installation and commissioning of the equipment after the guarantee / warranty period under mutually agreed terms and conditions.

- vii. The supplier should undertake to provide Annual maintenance contract (AMC) beyond the warranty period at a rate based on the basic cost of the equipment. Vendor can contact/visit IITH for clarifications on technical details prior to submitting the quotation, if they require.
- viii. Failure to meet any of the above Vendor Qualification Criteria will lead to disqualification of tender at technical evaluation stage itself and vendor's quotation **will not be** considered for procurement.

#### ACCEPTANCE CRITERIA:

- (i) Demonstration of sputtering experiments in 2 inch and 1 inch diameter Fe, Co and Fe-Co alloy target with target thicknesses upto 0.5mm.
- (ii) Demonstration of sputtering experiments upto 200 W sputtering power for at least 30 minutes.
- (iii) Demonstration of uniformity in film thickness better than 3% for a thickness range of 10 – 100 Å and 2% for higher thickness range: 1000 – 10000 Å.
- (iv) Deposition of Titanium; Tb-Fe; Nickel; Fe-Ga; Platinum; Tantalum by Electron Beam Evaporation for desired size and thickness.
- (v) Deposition of Aluminum, silver (50nm) by Thermal Evaporation.

#### **For any technical query related to enquiry you may to contact**

Dr. Jyoti Ranjan Mohanty, Dept of Physics - Email: [jmohanty@phy.iith.ac.in](mailto:jmohanty@phy.iith.ac.in)

For Commercial query

Mr. Suresh Nair - Assistant Registrar Email : [ar.purchase@iith.ac.in](mailto:ar.purchase@iith.ac.in)

Mr. Jagadeesh B – Deputy Registrar Email : [dr.snp@iith.ac.in](mailto:dr.snp@iith.ac.in)

With CC: [office.stores@iith.ac.in](mailto:office.stores@iith.ac.in)

## CHAPTER-5 BILL OF MATERIALS

Name of the Bidder \_\_\_\_\_

Tender No. \_\_\_\_\_

Sr.No	Item Description	Country of Origin	Qty
1			
2			
3			
n			

ANNEXURE – A

FORMAT/QUESTIONNAIRE FOR COMPLIANCE OF TERMS AND CONDITIONS

NOTE:

1. Quotation will not be considered without submission of this form.
2. If a particular question is not at all applicable please write NA in compliance part in Col. No. 4 below.
3. Kindly see the relevant terms & conditions of the tender document in each question before replying to the questions mentioned in Col. 2 below.

S. No	Terms & condition of Tender document	Whether acceptable (say 'Yes' or 'No' (preferably use different colour ink for 'No'))	Deviation from tender terms, if any, with reasons for noncompliance or alternative condition quoted for
1	a.) Whether quotation is direct from Principal supplier/manufacturer or their own office in India		
	b) Whether quotation is being submitted by Indian Agent/authorized distributor/ dealer		
2	Whether techno-commercial Bid contains Bid Securing Declaration , technical literature/leaflets, detailed specifications & commercial terms & conditions etc. as applicable		
3	a) If the prices are on Ex-Works /FOB, FCA/ or CIF, CIP basis for foreign currency bids		
	b) Whether specific amounts or percentage of expenses like packing, forwarding, handling, freight, insurance, documentation etc. have been mentioned in quotation separately in clear terms.		
4	a) Whether prevailing rates of GST & other govt. levies (for indigenous supplies) have been given in quotation		
5	The validity period of the quotation/bid as per our requirements is specified		
6	Whether copies of previous supply orders of the same item from other customers have been attached with the quotation		



భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్  
भारतीय प्रौद्योगिकी संस्थान हैदराबाद  
Indian Institute of Technology Hyderabad

Indian Institute of Technology Hyderabad

Kandi, Sangareddy - 502 284, Telangana, India

Phone: 040-23016071:

Website: [www.iith.ac.in](http://www.iith.ac.in), Email: [office.stores@iith.ac.in](mailto:office.stores@iith.ac.in)

7	Whether rates/amount of AMC after the warranty period is over has been mentioned		
8	Whether the Make/Brand, Model number and name of manufacturer has been mentioned in the quotation and Printed technical literature/ leaflets of quoted items have been submitted		
9	Whether compliance statement of specifications has been attached with the Technical Bid.		
10	Whether the delivery period for supply of the items has been mentioned		
11	Do you agree to the submission of Security Deposit /Performance Bank Guarantee as per the terms of the Tender		
12	Do you agree about the date of commencement of warranty period & its extension is necessary.		
13	Who will install/commission and demonstrate the equipment at IIT Hyd. i.e Indian Agent or OEM		
14	Has Certificate about the availability of Spare parts submitted with the Technical Bid.		
15	b) Whether quotation has been signed and designation & name of signatory mentioned.		

Signature of the Bidder

Name

Stamp

ANNEXURE – B

**FORMAT OF COMPLIANCE STATEMENT OF SPECIFICATIONS**

1	2	3	4	5	6
S. N.	Name of specifications/part / Accessories of tender enquiry  As per Chapter 4 of the Tender Document.	Specifications of quoted Model/ Item	Compliance  Whether “YES” Or “NO”	Deviation, if any, to be indicated in unambiguous terms	Whether the compliance / deviation is clearly mentioned in technical leaflet/ literature
1					
2					
3					

Note : Bidders are required to fill this table as per the specifications given in the Chapter 4 of this Tender Document. The points needs to be reproduced in the table at Column No 2 and then fill in the relevant details for each specifications.

Signature of the Bidder

Name

Stamp

ANNEXURE – C

Bid Securing Declaration Form

Date: \_\_\_\_\_

Tender No. \_\_\_\_\_

To (insert complete name and address of the purchaser)

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of two year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or

b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: \_\_\_\_\_ (insert signature of person whose name and capacity are shown)  
in the capacity of \_\_\_\_\_ (insert legal capacity of person signing the Bid Securing Declaration)

Name: \_\_\_\_\_ (insert complete name of person signing he Bid Securing Declaration)

Duly authorized to sign the bid for an on behalf of (insert complete name of Bidder)

Dated on \_\_\_\_\_ day of \_\_\_\_\_ (insert date of signing)

Corporate Seal (where appropriate)

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid)



ANNEXURE – D

MANUFACTURER’S AUTHORIZATION FORM

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer]

Date: [Insert date (as Day, month and year) of Bid submission]

Tender No.: [Insert number from Invitation for Bids]

To: [Insert complete name and address of Purchaser]

WHEREAS

We [insert completer name of Manufacturer], who are official manufacturers of [Insert type of goods manufactured] having factories at [insert full address of Manufacturer’s factories], do hereby authorize [insert complete name of Bidder] to submit a bid the purpose of which is to provide the following goods, manufactured by us [insert name and or brief description of the goods], and to subsequently negotiate and sign the contract.

We hereby extend our full guarantee and warranty in accordance with the Terms and Conditions of Contract with respect to the Goods offered by the above firm.

Signed: [insert signature(s) of authorized representative(s) of the Manufacturer]

Name: [insert complete name(s) of authorized representative(s) of the Manufacturer]

Title: [insert title]

Duly authorized to sign this Authorization on behalf of: [insert complete name of Bidder]

Dated on \_\_\_\_\_ day of \_\_\_\_\_ [insert date of signing]

ANNEXURE – E

PREVIOUS SUPPLY ORDER LIST FORMAT

Order placed by <i>{Full address of Purchaser}</i>	Order No. and Date	Description and quantity of ordered equipment	Value of order	Date of completion of delivery as per contract	Date of actual completion of delivery	Remarks indicating reasons for late delivery, if any and justification for price difference of their supply order & those quoted to us.	Has the equipment been installed satisfactorily? <i>(Attach a certificate from the Purchaser/ Consigner)</i>	Contact Person along with Telephone no., Fax no. and e-mail address.

Signature and Seal of the Manufacturer/ bidder .....

Place:

Date:

ANNEXURE – F

BIDDER INFORMATION FORM

Company Name : \_\_\_\_\_

Registration Number : \_\_\_\_\_

Registered Address : \_\_\_\_\_  
\_\_\_\_\_

Name of Partners /Director: \_\_\_\_\_  
\_\_\_\_\_

City : \_\_\_\_\_

Postal Code : \_\_\_\_\_

Company's Establishment Year : \_\_\_\_\_

Company's Nature of Business : \_\_\_\_\_

Company's Legal Status (tick on appropriate option )

- 1) Limited Company
- 2) Undertaking
- 3) Joint Venture
- 4) Partnership
- 5) Others ( In case of Others please specify)

Company Category

- 1) Micro Unit as per MSME
- 2) Small Unit as per MSME
- 3) Medium Unit as per MSME
- 4) Ancillary Unit
- 5) SSI
- 6) Others ( In case of Others please specify)

#### CONTACT DETAILS

Contact Name : \_\_\_\_\_

Email Id : \_\_\_\_\_

Designation : \_\_\_\_\_

Phone No : ( \_\_\_\_\_ ) \_\_\_\_\_

Mobile No : \_\_\_\_\_

#### BANK DETAILS

Name of Beneficiary : \_\_\_\_\_

A/c. No. CC/CD/SB/OD: \_\_\_\_\_

Name of Bank : \_\_\_\_\_

IFSC NO. (Bank) : \_\_\_\_\_

Branch Address and Branch Code: \_\_\_\_\_

\_\_\_\_\_

#### Other Details

Vendor's PAN No. \_\_\_\_\_

Vendor's GST \_\_\_\_\_

ANNEXURE – G  
DECLARATION REGARDING CLEAN TRACK/NO LEGAL ACTION

(to be provided on letter head of the firm)

I hereby certify that the above firm namely \_\_\_\_\_ is neither blacklisted by any Central/State Government/Public Undertaking/Institute nor any criminal case registered / pending against the firm or its owner / partners anywhere in India.

I also certify that the above information is true and correct in any every respect and in any case at a later date it is found that any details provided above are incorrect, any contract given to the above firm may be summarily terminated and the firm blacklisted.

Date:

Authorized Signatory

Name:

Place:

Designation:

Contact No.:

ANNEXURE – H

ANNUAL MAINTENANCE CONTRACT

We hereby certify that the Annual Maintenance Contract for the equipment, after expiry of warranty period will be charged as follows :

For Comprehensive AMC

- 1) 1<sup>st</sup> year \_\_\_\_ % of the equipment value
- 2) 2<sup>nd</sup> year \_\_\_\_% of the equipment value
- 3) 3<sup>rd</sup> year \_\_\_\_% of the equipment value.

For Non - Comprehensive AMC

- 1) 1<sup>st</sup> year \_\_\_\_ % of the equipment value
- 2) 2<sup>nd</sup> year \_\_\_\_% of the equipment value
- 3) 3<sup>rd</sup> year \_\_\_\_% of the equipment value.

We also certify that the spares for the equipment will be available for the equipment for \_\_\_\_ years.

Date:

Authorized Signatory

Name:

Place:

Designation:

Contact No.:

ANNEXURE – I

ACCEPTANCE OF TENDER TERMS  
(To be given on Company Letter Head)

Date: DD/MM/YYYY

To,

The Director  
Indian Institute of Technology Hyderabad  
Kandi – 502 285.Telangana, India

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' 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 (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 certify that all information furnished by the 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)



ANNEXURE – J

## NO RELATIONSHIP CERTIFICATE

(On Company Letterhead )

1. I/We hereby certify that I/We\* am/are\* related/not related(\*) to any officer of IIT Hyderabad. ( If Related provide the details of the employee)
2. I/We\* am/are\* aware that, if the facts subsequently proved to be false, my/our\* contract will be rescinded with forfeiture of E.M.D and security deposit and I/We\* shall be liable to make good the loss or damage resulting from such cancellation.
3. I/We also note that, non-submission of this certificate will render my / our tender liable for rejection.

Date:

Authorized Signatory

Name:

Place:

Designation:

Contact No.:

ANNEXURE – K

**Declaration for Local Content**

**(To be given on Company Letter Head - For tender value below Rs.10 Crores)  
(To be given by Statutory Auditor/Cost Auditor/Cost Accountant/CA for tender value above Rs.10 Crores)**

Date: \_\_\_\_\_

To,  
The Director,  
Indian Institute of Technology Hyderabad,  
Kandi, Sangareddy 502285

Sub: Declaration of Local content

Tender Reference No: \_\_\_\_\_

Name of Tender / Work: - \_\_\_\_\_

1. Country of Origin of Goods being offered: \_\_\_\_\_
2. We hereby declare that items offered has \_\_\_\_% local content (**Please provide exact %**).
3. Details of location at which local value addition will be made / made: (Complete address to be mentioned) \_\_\_\_\_

\_\_\_\_\_  
“**Local Content**” means the amount of value added in India which shall, be the total value of the item being offered minus the value of the imported content in the item (including all customs duties) as a proportion of the total value, in percent.

*“\*False declaration will be in breach of Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.”*

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

ANNEXURE –L

CERTIFICATE  
ON COMPANY LETTERHEAD

CERTIFICATE BY BIDDER- DPIIT REGISTRATION

“ I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, / if from such a county, has been registered with the Competent Authority (copy of the Registration Certificate enclosed) . I hereby certify that his bidder fulfils all requirements in this regard and is eligible to be considered.

Signature with Date and Stamp  
Of the Bidder

### Checklist for BIDDERS

BIDDERS to indicate whether the following are enclosed/mentioned by striking out the non-relevant option

Envelope-1(Technical-Bid)				
(Following documents to be provided as single PDF file)				
Sl. No.	Documents	Content	File Types	Document Attached
1		Format/Questionnaire for compliance as per Annexure-‘A’	.PDF	( Yes /No )
2		Format of compliance statement of specification as per Annexure-‘B’	.PDF	( Yes /No )
3		Bid Securing Declaration as per Annexure-‘C’(as applicable)	.PDF	( Yes /No )
4		Manufacturer’s Authorization Form as per Annexure-‘D’	.PDF	( Yes /No )
5		Previous supply order format as per Annexure-‘E’	.PDF	( Yes /No )
6		Bidder Information form as per Annexure-‘F’	.PDF	( Yes /No )
7		Declaration Regarding Clean Track/No Legal Action as per Annexure-‘G’	.PDF	( Yes /No )
8		AMC as per Annexure-‘H’	.PDF	( Yes /No )
9		Acceptance Of Tender Terms as per Annexure- ‘I’	.PDF	( Yes /No )
10		Relation Certificate as per Annexure- ‘J’	.PDF	( Yes /No )
11		Local Content Declaration as per Annexure ‘K’		
12		Certificate For DPIIT Registration as per Annexure – ‘L’	.PDF	( Yes /No )
13		Bill of Material as Per Chapter 5	. PDF	(Yes /No )
14		List of deliverables as per Chapter- 4, along with the Technical Brochures and Commercial Terms and Conditions	.PDF	( Yes /No )
15		All other documents as per Chapter 1 Point No - 4.1.	.PDF	( Yes /No )
Envelope-2(Financial-Bid)				
Sl. No.	Documents	Content	File Types	Document Attached
1	Financial Bid	Price bid should be submitted in excel as per BoQ	.xls	( Yes /No )