Notice Inviting Quotation (E-Procurement mode)

INDIAN INSTITUTE OF TECHNOLOGY DELHI HAUZ KHAS, NEW DELHI-110016

Dated: 27/02/2019

Open Tender Notice No. IITD/BEEN(SP-2228)/2019

Indian Institute of Technology Delhi is in the process of purchasing following item(s) as per details as given as under.

Details of the item	UHV Vacuum System for Pulsed Laser Deposition
Earnest Money Deposit to be submitted	Rs. NIL
Warranty	2 Years
Performance security	5% of FOB Value

Tender Documents may be downloaded from Central Public Procurement Portal http://eprocure.gov.in/eprocure/app. Aspiring Bidders who have not enrolled / registered in e-procurement should enroll / register before participating through the website http://eprocure.gov.in/eprocure/app. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at 'Instructions for online Bid Submission'.

Tenderers can access tender documents on the website (For searching in the NIC site, kindly go to Tender Search option and type 'IIT'. Thereafter, Click on "GO" button to view all IIT Delhi tenders). Select the appropriate tender and fill them with all relevant information and submit the completed tender document online on the website http://eprocure.gov.in/eprocure/app as per the schedule given in the next page.

No manual bids will be accepted. All quotation (both Technical and Financial should be submitted in the E-procurement portal).

Schedule

	Schedule
Name of Organization	Indian Institute of Technology Delhi
Tender Type (Open/Limited/EOI/Auction/Single)	Open
Tender Category (Services/Goods/works)	Goods
Type/Form of Contract (Work/Supply/ Auction/Service/Buy/Empanelment/ Sell)	Supply
Product Category (Civil Works/Electrical Works/Fleet Management/ Computer Systems)	Others
Source of Fund (Institute/Project)	Institute
Is Multi Currency Allowed	YES
Date of Issue/Publishing	27/02/2019 (15:00Hrs)
Document Download/Sale Start Date	27/02/2019 (15:00Hrs)
Document Download/Sale End Date	27/03/2019 (15:00 Hrs)
Date for Pre-Bid Conference	NA
Venue of Pre-Bid Conference	NA
Last Date and Time for Uploading of Bids	27/03/2019 (15:00 Hrs)
Date and Time of Opening of Technical Bids	28/03/2019 (15:00 Hrs)
Tender Fee	Rs. NIL/- (For Tender Fee)
EMD	Rs. NIL/-(For EMD) (To be paid through RTGS/NEFT. IIT Delhi Bank details are as under: Name of the Bank A/C : IITD Revenue Account SBI A/C No. : 10773572622 Name of the Bank : State Bank of India, IIT Delhi, HauzKhas, New Delhi-110016 IFSC Code : SBIN0001077 MICR Code : 110002156 Swift No. : SBININBB547 (This is mandatory that UTR Number is provided in the on-line quotation/bid. (Kindly refer to the UTR Column of the Declaration Sheet at Annexure-II)
No. of Covers (1/2/3/4)	02
Bid Validity days (180/120/90/60/30)	180 days (From last date of opening of tender)
Address for Communication	Dr. Anuj Dhawan, Electrical Engineering Department, Indian Institute of Technology, Hauz Khas, New Delhi-110016
Contact No.	+91-9810087814
Email Address	adhawan@ee.iitd.ac.in

Chairman Purchase Committee (Buyer Member)

Instructions for Online Bid Submission:

As per the directives of Department of Expenditure, this tender document has been published on the Central Public Procurement Portal (<u>URL:http://eprocure.gov.in/eprocure/app</u>). The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at:

http://eprocure.gov.in/eprocure/app

REGISTRATION

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: http://eprocure.gov.in/eprocure/app) by clicking on the link "Click here to Enroll". Enrolment on the CPP Portal is free of charge.
- 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 from the CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their userID / password and the password of the DSC / eToken.

SEARCHING FOR TENDER DOCUMENTS

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, organization name, location, date, value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

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. Please note the number of covers in which the

bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection 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 / XLS / RAR / DWF formats. Bid documents may be scanned with 100 dpi with black and white option.
- 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, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" area available to them to upload such documents. These documents may be directly submitted from the "My Space" 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 site well in advance for bid submission so that he/she upload the bid 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.
- 3) Bidder has to select the payment option as "on-line" to pay the tender fee / EMD as applicable and enter details of the instrument. Whenever, EMD / Tender fees is sought, bidders need to pay the tender fee and EMD separately on-line through RTGS (Refer to Schedule, Page No.2).
- 4) A standard BoQ format has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. Bidders are required to download the BoQ file, open it and complete the white coloured (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.

OR

In some cases Financial Bids can be submitted in PDF format as well (in lieu of BOQ).

- 5) 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.
- 6) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done.
- 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 bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 9) Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet.

ASSISTANCE TO BIDDERS

- 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 CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is 1800 233 7315.

General Instructions to the Bidders

- 1) The tenders will be received online through portal http://eprocure.gov.in/eprocure/app. In the Technical Bids, the bidders are required to upload all the documents in .pdf format.
- 2) Possession of a Valid Class II/III Digital Signature Certificate (DSC) in the form of smart card/e-token in the company's name is a prerequisite for registration and participating in the bid submission activities through https://eprocure.gov.in/eprocure/app . Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the web site https://eprocure.gov.in/eprocure/app under the link "Information about DSC".
- 3) Tenderer are advised to follow the instructions provided in the 'Instructions to the Tenderer for the e-submission of the bids online through the Central Public Procurement Portal for e Procurement at https://eprocure.gov.in/eprocure/app.

Electrical Engineering Department Indian Institute of Technology Hauz Khas, New Delhi-110 016

NOTICE INVITING OUOTATIONS

Dated: 27/02/2019

Subject: Purchase of Vacuum System for Pulsed Laser Deposition

Invitation for Tender Offers

Indian Institute of Technology Delhi invites online Bids (Technical bid and Commercial bid) from eligible and experienced OEM (Original Equipment Manufacturer) OR OEM Authorized Dealer for **supply, installation & integration of UHV Vacuum System for Pulsed Laser Deposition** with (warranty period as stated at page #1 of this tender) on site comprehensive warranty from the date of receipt of the material as per terms & conditions specified in the tender document, which is available on CPP Portal http://eprocure.gov.in/eprocure/app

TECHNICAL SPECIFICATIONS:

S. No	Features	Technical Specifications	
1.	UHV Vacuum Chamber	 12 inch diameter spherical electropolished 304 stainless steel chamber with the following ports. (a) Three 8" OD (CF 150) for substrate heater assembly, target flange and top view part. (b) 6" OD (CF 100) for pump port. (c) Two CF 50 for laser port. (d) Two CF 16 for gas and air inlet. (e) CF 35 for vacuum gauge, for view port for in situ optical characterization (2 nos.) and for side view parts (2 nos.). All view ports should have toughened glass windows with Aluminium covers. (f) Mounting frame for chamber. (g) Should be compatible for Pulsed Laser Deposition. (h) Ports should be provided for optional confocal mounting of upto 4 Sputter Guns UHV chamber capable of maintaining ultimate pressure ≤ 5×10-8 torr 	
2.	UHV Target Holder	Should hold multi-targets (six nos. of 1 inch or more dia.) and must be fully computer controlled. The controller should also interface with laser for multi-layer deposition. The target can be raster and rotated.	
3.	Heater, Temperature Controller	 (a) Substrate heater capable of heating up to 850 □ C or higher in vacuum as well as in oxygen atmosphere. (b) A clip mounting for substrates. (c) PID programmable temperature controller. 	

4.	Substrate Holder	Can hold 1" dia Substrate and can be rotated.
5.	Pumping System and Gauges	 (a) Turbo molecular pump (of a reputed company such as Edwards, Pfeifer, or equivalent) with pumping speed of 600 l/sec or greater; backed with a dry backing pump with a capacity 10 m3/h or higher (of a standard company such as Edwards or equivalent). (b) All necessary gauges (penning & pirani from standard companies such as Pfeifer or equivalent make) to measure pressures (from atmosphere to 1x10-8 Torr).
6.	Gas Flow Controller Assembly (Two)	Two mass flow controllers with power supply for oxygen, Nitrogen and Argon Gas (MKS or Bronkhorst or Alicat or equivalent make)
7.	Window for input of Laser Beam	Should be compatible with laser of wavelength 248 nm.
8.	Software	All necessary software to control and operate the system (target raster and rotation, substrate rotation, temperature control) including laser.
9.	Substrate Load-lock	 (a) Load-lock chamber with a transfer arm fitted with a vent-valve, and suitable ports for mounting rough vacuum and HV pressure sensors, etc. for easy transferring of the substrates. (b) The load lock chamber should be able to reach a base pressure of ≤ 1×10-6 torr. (c) VAT or equivalent make Gate valve of flange size appropriate to connect the main deposition chamber and the load lock chamber via the transfer arm (d) Turbo molecular pump (of a reputed company such as Edwards, Pfeifer, or equivalent) with a pumping speed ≥ 35 l/sec backed with a double stage rotary pump (of a standard company such as Edwards or equivalent) and a VAT make or equivalent GATE valve for the load-lock chamber.
10.	Lens Holder Attachment and Optics	X, Y, Z movement of lens with S1UV grade fused Silica 2" dia lens.
11.	Chamber venting with N2	In addition to venting by ambient air, provision must be made for manually venting the system with nitrogen gas via manual venting valve with isolation valve.
12.	Mandatory Accessories	 (a) Tool kit containing all the necessary tools (e.g., spanners, screw drivers, aligners, L-end key sets, needle file-sets, cutter, plier, stripper, etc.) necessary for PLD system should be provided with the system. Tool kits as required for the servicing of the sub-systems like pumps, gauges, power supplies, sputter guns, etc. also to be provided. (b) Copper gaskets: At least 5 sets of spare OFHC copper gaskets wherever mounted are to be provided (c) Viton gaskets for use with FC flanges: At least 5 sets of spare Viton gaskets wherever mounted are to be provided (d) A hair drier and compressed air gun nozzle (one each) be provided (e) Suitable water lines fitting from water chiller to system and power supplies. (f) Suitable gas-plumbing lines and fittings from chamber to gas cylinder (g) Heating filament to baking of the chamber from outside.

13.	Installation and Training	The bidder has to install the complete working system at IIT Delhi. The installation will be deemed complete subject to (i) achieving the ultimate pressure of $\leq 5 \times 10$ -8 Torr, In addition, the supplier has to train the lab-personnel in respect of complete operation of the UHV sputtering system	
14.	Users List	There should be installations of a minimum of 5 systems in India in the last 3 years. The vendor should provide the list of users where similar system has been supplied in the last two years in the government institutes.	
		Optional Items	
1.	Provision of baking the	chamber up to 150°C complete with suitable heater.	
2.	Additional Substrate hol (Qty.: 1 set) as per follow	ding platform, custom designed, complete with Substrate heater, Substrate rotation assembly wing details	
	circular region whi to 50×50 mm ²	ng substrates of different sizes via rigid clamps (with minimum shadowing) mounted on a sch can be heated (hot zone ≥ 60 mm dia). The substrate size may range typically from 5×5 mm ²	
		the substrate table.	
	d. PID controlled sub	rotation with maximum speed ≥ 5 rpm strate heating and temperature display and control unit: Temperature $\geq 800^{\circ}$ C with control and $\pm 1^{\circ}$ C, and uniformity $\leq \pm 5^{\circ}$ C over 30 mm dia region	
		in O ₂ environment	
		monitor close to substrate holding platform for future upgrade	
		ostrate height adjustability Transverse magnetic field on the substrate carrier with field of \(\ge 200\) Oe. (optional)	
	i Plumbing of inert a	and reactive gases: Argon (inert gas) can be admitted directly into the chamber and Reactive gen) should be admitted near the substrate holder via a gas ring around this substrate holder.	
3.	2" dia, 200 W rating UH	V compatible Sputter Magnetron Sources (Qty.: 2): having following technical specifications:	
		RF as well as DC Sputtering	
	b. NdFeB modular m	<u> </u>	
	c. Clamping ring to hd. "N" type electrical	•	
		pneumatic shutter so as to protect the target from cross-contamination	
	f. Provision of Gas ri	ng with conical chimney for uniform gas distribution	
4	<u> </u>	both magnetic and non-magnetic targets	
4.	3-way switches (Qty.:1): For connecting the RF/DC-power supplies to any of the 4 magnetron sources – one for RF generator and other for DC power supply		
5.		set): All safety interlocks with sound alarm and/or LED alarm/messages are to be provided for onents wherever required (e.g., vacuum, door, water, compressed air, electrical requirements,	
6.	Laser-Based Micropipet	te Puller (of a reputed company such a Sutter Instrument or equivalent)	
7.	Water Chiller: Closed-loop chiller with +/- 1 °C temperature stability control.		
8.	DC Power Supply (Qty.: DC supply 500W (Adva all relevant cables.	nced energy, USA, or ADL Germany or equivalent) with integrated 4-way switchbox with	
9.	Seren make or having fo	ning Network of rating ≥300 Watts @13.56 MHz (Qty.: 1): AJA or T&C Power Conversion or of online technical specifications	
	a. Air cooled compactb. RF o/p power ≥300		
	c. RF o/p power regu		
	d. Output frequency=	· 13.30 MIU	

	e. Output Frequency regulation $\leq \pm 0.005\%$			
	f.	Output Impedance=50 ohms		
	g.	Provision of safety interlocks in r/o closing of cover/enclosure, vacuum, cooling, pressure, etc.		
	h.	Harmonic Distortion ≤ -30 dB		
	i.	Both local as well as remote (RS232/USB) operation modes are required		
	j.	Both Continuous as well as pulsed modes of operations are required		
	k.	15 pin D-type I/O control connector (DC input and output for power control and its		
		monitoring)		
	1.	Front panel simultaneous display (LCD) of reflected and transmitted power for and set point power control,		
		alarms, etc.		
	m. 'N' type female electrical connector for output power			
	n.	RF Output cable (length 10 ft/3 m) appropriate to o/p connector on generator		
	о.	Compatible Matching-Network unit capable for wide range of impedance-matching appropriate to sputtering-		
		plasma applications (extra capacitors be providing to enhance the impedance –matching capability at user end)		
	p.	Interconnecting RF-cables connecting the RF-generator and Matching network		
10.	Demonstration of sputtering: The installation will be deemed complete subject to co-sputtering from the 3 dummy			
	copper targets for over 2 hours while maintaining constant power to the target of value equal to the set RF-power (in			
	case of RF Sputtering) and DC-power (in case of DC Sputtering), constant working pressure and set values of gas florates.			

A complete set of tender documents* may be Download by prospective bidder free of cost from the website http://eprocure.gov.in/eprocure/app. Bidder has to make payment of requisite fees (i.e. Tender fees (if any) and EMD) online through RTGS/NEFT only.

Terms & Conditions Details

Sl. No.	Specification
1.	Due date : The tender has to be submitted on-line before the due date. The offers received after the
	due date and time will not be considered. No manual bids will be considered.
2.	Preparation of Bids : The offer/bid should be submitted in two bid systems (i.e.) Technical bid and
	financial bid. The technical bid should consist of all technical details along with commercial terms
	and conditions. Financial bid should indicate item wise price for the items mentioned in the
	technical bid in the given format i.e Financial Bids to be submitted in PDF format.
	The Technical bid and the financial bid should be submitted Online.
3.	EMD (if applicable): The tenderer should submit an EMD amount through RTGS/NEFT. The
	Technical Bid without EMD would be considered as UNRESPONSIVE and will not be accepted.
	The EMD will be refunded without any interest to the unsuccessful bidders after the award of
	contract. Refer to Schedule (at page 1 of this document) for its actual place of submission.
4.	Refund of EMD : The EMD will be returned to unsuccessful Tenderer only after the Tenders are
	finalized. In case of successful Tenderer, it will be retained till the successful and complete
	installation of the equipment.
5.	Opening of the tender : The online bid will be opened by a committee duly constituted for this
	purpose. Online bids (complete in all respect) received along with EMD (if any) will be opened as
	mentioned at "Annexure: Schedule" in presence of bidders representative if available. Only one
	representative will be allowed to participate in the tender opening. Bid received without EMD (if
	present) will be rejected straight way. The technical bid will be opened online first and it will be
	examined by a technical committee (as per specification and requirement). The financial offer/bid
	will be opened only for the offer/bid which technically meets all requirements as per the
	specification, and will be opened in the presence of the vendor's representatives subsequently for
	further evaluation. The bidders if interested may participate on the tender opening Date and Time.
	The bidder should produce authorization letter from their company to participate in the tender
	opening.
6.	Acceptance/ Rejection of bids: The Committee reserves the right to reject any or all offers without
7	assigning any reason.
7.	Pre-qualification criteria:
	(i) Bidders should be the manufacturer / authorized dealer. Letter of Authorization from original
	equipment manufacturer (OEM) on the same and specific to the tender should be enclosed.
	(ii) An undertaking from the OEM is required stating that they would facilitate the bidder on a regular basis with technology/product updates and extend support for the warranty as well. (Ref.
	Annexure-II)
	(iii) OEM should be internationally reputed Branded Company.
	(iv) Non-compliance of tender terms, non-submission of required documents, lack of clarity of the
	specifications, contradiction between bidder specification and supporting documents etc. may lead to
	rejection of the bid.
	(v) In the tender, either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can
	bid but both cannot bid simultaneously for the same item/product in the same tender.
	(vi) If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on
	behalf of another Principal/OEM in the same tender for the same item/product.
8.	Performance Security: The supplier shall require to submit the performance security in the form of
	irrevocable bank guarantee issued by any Indian Nationalized Bank for an amount which is stated at
	page #1 of the tender document within 21 days from the date of receipt of the purchase order/LC and
	should be kept valid for a period of 60 days beyond the date of completion of warranty period.
9.	Force Majeure: The Supplier shall not be liable for forfeiture of its performance security, liquidated
	damages or termination for default, if and to the extent that, it's delay in performance or other failure
	to perform its obligations under the Contract is the result of an event of Force Majeure.
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For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes. If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event. 10. Risk Purchase Clause: In event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from the other source on the total risk of the supplier under risk purchase clause. Packing Instructions: Each package will be marked on three sides with proper paint/indelible ink, the 11. following: i. Item Nomenclature ii. Order/Contract No. iii. Country of Origin of Goods iv. Supplier's Name and Address v. Consignee details vi. Packing list reference number 12. **Delivery and Documents:** Delivery of the goods should be made within a maximum of 12 to 16 weeks from the date of the opening of LC. Within 24 hours of shipment, the supplier shall notify the purchaser and the insurance company by cable/telex/fax/e mail the full details of the shipment including contract number, railway receipt number/ AAP etc. and date, description of goods, quantity, name of the consignee, invoice etc. The supplier shall mail the following documents to the purchaser with a copy to the insurance company: 1. 4 Copies of the Supplier invoice showing contract number, goods' description, quantity 2. unit price, total amount; Insurance Certificate if applicable; Manufacturer's/Supplier's warranty certificate; 4. Inspection Certificate issued by the nominated inspection agency, if any Supplier's factory inspection report; and 7. Certificate of Origin (if possible by the beneficiary); Two copies of the packing list identifying the contents of each package. The above documents should be received by the Purchaser before arrival of the Goods (except where the Goods have been delivered directly to the Consignee with all documents) and, if not received, the Supplier will be responsible for any consequent expenses. 13. **Delayed delivery:** If the delivery is not made within the due date for any reason, the Committee will have the right to impose penalty 1% per week and the maximum deduction is 10% of the contract value / price. 14. **Prices**: The price should be quoted in net per unit (after breakup) and must include all packing and delivery charges. The offer/bid should be exclusive of taxes and duties, which will be paid by the purchaser as applicable. However the percentage of taxes & duties shall be clearly indicated. The price should be quoted without custom duty and excise duty, since IIT Delhi is exempted from payment of Excise Duty and is eligible for concessional rate of custom duty. Necessary certificate will be issued on demand. In case of imports, the price should be quoted on FOB/FCA origin Airport Basis only. Under special circumstances (eg. perishable chemicals), when the item is imported on CIF/CIP, please

indicate CIF/CIP charges separately upto IIT Delhi indicating the mode of shipment. IIT Delhi will

make necessary arrangements for the clearance of imported goods at the Airport/Seaport. Hence the price should not include the above charges. At any circumstances, it is the responsibility of the foreign supplier to handover the material to our forwarder at the origin airport after completing all the inland clearing. No Ex- Works consignment will be entertained. "In case of CIF/CIP shipments, kindly provide the shipment information at least 2 days in advance before landing the shipment along with the documents i.e. invoice, packing list, forwarder Name, address, contact No. in India to save penalty/demurrage charges (imposed by Indian Customs). Otherwise these charges will be recovered from the supplier/Indian Agent." 15. **Notices:** For the purpose of all notices, the following shall be the address of the Purchaser and Supplier. Purchaser: Dr. Anuj Dhawan, Electrical Engineering Indian Institute of Technology Hauz Khas, New Delhi - 110016. **Supplier:** (To be filled in by the supplier) (All supplier's should submit its supplies information as per Annexure-II). **Progress of Supply**: Wherever applicable, supplier shall regularly intimate progress of supply, in 16. writing, to the Purchaser as under: 1. Quantity offered for inspection and date; 2. Quantity accepted/rejected by inspecting agency and date; 3. Quantity dispatched/delivered to consignees and date; 4. Quantity where incidental services have been satisfactorily completed with date; 5. Quantity where rectification/repair/replacement effected/completed on receipt of communication from consignee/Purchaser with date; 6. Date of completion of entire Contract including incidental services, if any; and 7. Date of receipt of entire payments under the Contract (In case of stage-wise inspection, details required may also be specified). 17. **Inspection and Tests:** Inspection and tests prior to shipment of Goods and at final acceptance are as After the goods are manufactured and assembled, inspection and testing of the goods shall be carried out at the supplier's plant by the supplier, prior to shipment to check whether the goods are in conformity with the technical specifications attached to the purchase order. Manufacturer's test certificate with data sheet shall be issued to this effect and submitted along with the delivery documents. The purchaser shall be present at the supplier's premises during such inspection and testing if need is felt. The location where the inspection is required to be conducted should be clearly indicated. The supplier shall inform the purchaser about the site preparation, if any, needed for installation of the goods at the purchaser's site at the time of submission of order acceptance. The acceptance test will be conducted by the Purchaser, their consultant or other such person nominated by the Purchaser at its option after the equipment is installed at purchaser's site in the presence of supplier's representatives. The acceptance will involve trouble free operation and ascertaining conformity with the ordered specifications and quality. There shall not be any additional charges for carrying out acceptance test. No malfunction, partial or complete failure of any part of the equipment is expected to occur. The Supplier shall maintain necessary log in respect of the result of the test to establish to the entire satisfaction of the Purchaser, the successful completion of the test specified. In the event of the ordered item failing to pass the acceptance test, a period not exceeding one

weeks will be given to rectify the defects and clear the acceptance test, failing which the Purchaser reserve the right to get the equipment replaced by the Supplier at no extra cost to the Purchaser.

	• Successful conduct and conclusion of the acceptance test for the installed goods and equipment shall also be the responsibility and at the cost of the Supplier.
18.	Resolution of Disputes : The dispute resolution mechanism to be applied pursuant shall be as follows:
	• In case of Dispute or difference arising between the Purchaser 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, Indian Institute of Technology (IIT) Delhi and if he is unable
	or unwilling to act, to the sole arbitration of some other person appointed by him 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.
	• In the case of a dispute between the purchaser 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 order is issued.
19.	Applicable Law: The place of jurisdiction would be New Delhi (Delhi) INDIA.
20.	Right to Use Defective Goods
	If after delivery, acceptance and installation and within the guarantee and warranty period, the
	operation or use of the goods proves to be unsatisfactory, the Purchaser shall have the right to continue
	to operate or use such goods until rectifications of defects, errors or omissions by repair or by partial or
	complete replacement is made without interfering with the Purchaser's operation.
21.	Supplier Integrity
	The Supplier is responsible for and obliged to conduct all contracted activities in accordance with the
	Contract using state of the art methods and economic principles and exercising all means available to
	achieve the performance specified in the contract.
22.	Training
	The Supplier is required to provide training to the designated Purchaser's technical and end user
	personnel to enable them to effectively operate the total equipment.
23.	Installation & Demonstration
	The supplier is required to done the installation and demonstration of the equipment within one month
	of the arrival of materials at the IITD site of installation, otherwise the penalty clause will be the same
	as per the supply of materials.
	In case of any mishappening/damage to equipment and supplies during the carriage of supplies from
	the origin of equipment to the installation site, the supplier has to replace it with new
	equipment/supplies immediately at his own risk. Supplier will settle his claim with the insurance
2.4	company as per his convenience. IITD will not be liable to any type of losses in any form.
24.	Insurance: For delivery of goods at the purchaser's premises, the insurance shall be obtained by the
	supplier in an amount equal to 110% of the value of the goods from "warehouse to warehouse" (final
	destinations) on "All Risks" basis including War Risks and Strikes. The insurance shall be valid for a
	period of not less than 3 months after installation and commissioning. In case of orders placed on
	FOB/FCA basis, the purchaser shall arrange Insurance. If orders placed on CIF/CIP basis, the insurance should be up to IIT Delhi.
25.	Incidental services: The incidental services also include:
25.	 Furnishing of 01 set of detailed operations & maintenance manual.
	• Arranging the shifting/moving of the item to their location of final installation within IITD premises at the cost of Supplier through their Indian representatives.
26.	Warranty:
۷٠.	(i) Warranty period shall be (as stated at page #2 of this tender) from date of installation of Goods at
l	(1) Warranty period shari be (as stated at page #2 of this tender) from date of installation of Goods at

the IITD site of installation. The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the contract. If for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall at its discretion make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests. The warranty should be comprehensive on site. (ii) The Purchaser shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall immediately within in 02 days arrange to repair or replace the defective goods or parts thereof free of cost at the ultimate destination. The Supplier shall take over the replaced parts/goods at the time of their replacement. No claim whatsoever shall lie on the Purchaser for the replaced parts/goods thereafter. The period for correction of defects in the warranty period is 02 days. If the supplier having been notified fails to remedy the defects within 02 days, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expenses and without prejudice to any other rights, which the purchaser may have against the supplier under the contract. (iii) The warranty period should be clearly mentioned. The maintenance charges (AMC) under different schemes after the expiry of the warranty should also be mentioned. The comprehensive warranty will commence from the date of the installation/commissioning of the equipment against the defect of any manufacturing, workmanship and poor quality of the components. (iv) After the warranty period is over, Annual Maintenance Contract (AMC)/Comprehensive Maintenance Contract (CMC) up to next two years should be started. The AMC/CMC charges will not be included in computing the total cost of the equipment. 27. **Governing Language** The contract shall be written in English language. English language version of the Contract shall govern its interpretation. All correspondence and other documents pertaining to the Contract, which are exchanged by the parties, shall be written in the same language. 28. **Applicable Law** The Contract shall be interpreted in accordance with the laws of the Union of India and all disputes shall be subject to place of jurisdiction. 29. **Notices** • Any notice given by one party to the other pursuant to this contract/order shall be sent to the other party in writing or by cable, telex, FAX or e mail and confirmed in writing to the other party's address. • A notice shall be effective when delivered or on the notice's effective date, whichever is later. 30. **Taxes** Suppliers shall be entirely responsible for all taxes, duties, license fees, octroi, road permits, etc., incurred until delivery of the contracted Goods to the Purchaser. However, GST etc, in respect of the transaction between the Purchaser and the Supplier shall be payable extra, if so stipulated in the order. For research purpose(s) **ONLY**, 5% GST will be applicable with concessional GST Certificate. 31. **Duties** IIT Delhi is exempted from paying custom duty under notification No.51/96 (partially or full) and necessary "Custom Duty Exemption Certificate" can be issued after providing following information and Custom Duty Exemption Certificate will be issued to the shipment in the name of the Institute, (no certificate will be issued to third party): The procured product should be used for teaching, scientific and research work only. a) Shipping details i.e. Master Airway Bill No. and House Airway No. (if exists) b) Forwarder details i.e. Name, Contact No., etc. IIT Delhi is partially exempted from paying GST and necessary GST Exemption Certificate will be

	provided for which following information are required.
	b) Quotation with details of Basic Price, Rate, Tax & Amount on which ED is applicable
	c) Supply Order Copy
	d) Proforma-Invoice Copy.
32.	Agency Commission : Agency commission if any will be paid to the Indian agent in Rupees on receipt of the equipment and after satisfactory installation. Agency Commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in Tender even in case of Nil commission. The tenderer should indicate the percentage of agency commission to be paid to the Indian agent.
33.	Payment:
55.	 (i) For imported items Payment will be made through irrevocable Letter of Credit (LC) Cash Against Documents (CAD)/Against delivery/after satisfactory installation by T.T. Letter of Credit (LC) will be established in favour of foreign Supplier after the submission of performance security. The letter of credit (LC) will be established on the exchange rates as applicable on the date of establishment. For Imports, LC will be opened for 100% FOB/CIF value. 80% of the LC amount shall be released on presentation of complete and clear shipping documents and 20% of the LC amount shall be released after the installation and demonstration of the equipment at the INST site of installation in faultless working condition for period of 60 days from the date of the satisfactory installation and subject to the production of unconditional performance bank guarantee as specified in Clause 8 of tender terms and conditions. (ii) For Indigenous supplies, 100% payment shall be made by the Purchaser against delivery, inspection, successful installation, commissioning and acceptance of the equipment at IITD in good condition and to the entire satisfaction of the Purchaser and on production of unconditional performance bank guarantee as specified in Clause 9 of tender terms and conditions. (iii) Indian Agency commission (IAC), if any shall be paid after satisfactory installation & commissioning of the goods at the destination at the exchange rate prevailing on the date of negotiation of LC documents, subject to DGS&D registration for restricted items. (iv) All the bank charges within India will be borne by the Institute and outside India will be borne by the Supplier.
34.	User list: Brochure detailing technical specifications and performance, list of industrial and educational establishments where the items enquired have been supplied must be provided. (Ref. Annexure-III)
35.	Manuals and Drawings
33.	 (i) Before the goods and equipment are taken over by the Purchaser, the Supplier shall supply operation and maintenance manuals. These shall be in such details as will enable the Purchaser to operate, maintain, adjust and repair all parts of the works as stated in the specifications. (ii) The Manuals shall be in the ruling language (English) in such form and numbers as stated in the contract. (iii) Unless and otherwise agreed, the goods equipment shall not be considered to be completed for the
	purposes of taking over until such manuals and drawing have been supplied to the Purchaser.
36.	Application Specialist : The Tenderer should mention in the Techno-Commercial bid the availability and names of Application Specialist and Service Engineers in the nearest regional office. (Ref. to Annexure-III)
37.	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 where 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 preinstallation requirements.

38.	Spare Parts
	The Supplier may be required to provide any or all of the following materials, notifications, and
	information pertaining to spare parts manufactured or distributed by the Supplier:
	ii. Such spare parts as the Purchaser may elect to purchase from the Supplier, providing that this
	election shall not relieve the Supplier of any warranty obligations under the Contract; and
	iii. In the event of termination of production of the spare parts:
	iv. Advance notification to the Purchaser of the pending termination, in sufficient time to permit the
	Purchaser to procure needed requirements; and
	v. Following such termination, furnishing at no cost to the Purchaser, the blueprints, drawings and specifications of the spare parts, if requested.
	Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the
	Goods, such as gaskets, plugs, washers, belts etc. Other spare parts and components shall be supplied as promptly as possible but in any case within six months of placement of order.
39.	Defective Equipment : If any of the equipment supplied by the Tenderer is found to be substandard,
37.	refurbished, un-merchantable or not in accordance with the description/specification or otherwise
	faulty, the committee will have the right to reject the equipment or its part. The prices of such
	equipment shall be refunded by the Tenderer with 18% interest if such payments for such equipment
	have already been made. All damaged or unapproved goods shall be returned at suppliers cost and
	risk and the incidental expenses incurred thereon shall be recovered from the supplier. Defective part
	in equipment, if found before installation and/or during warranty period, shall be replaced within 45
	days on receipt of the intimation from this office at the cost and risk of supplier including all other
	charges. In case supplier fails to replace above item as per above terms & conditions, IIT Delhi may
	consider "Banning" the supplier.
40.	Termination for Default
	The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of
	default sent to the Supplier, terminate the Contract in whole or part:
	i. If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the order,
	or within any extension thereof granted by the Purchaser; or
	ii If the Supplier fails to perform any other obligation(s) under the Contract.
	iii If the Supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices
	in competing for or in executing the Contract.
	• For the purpose of this Clause:
	i. "Corrupt practice" means the offering, giving, receiving or soliciting of anything of value
	to influence the action of a public official in the procurement process or in contract execution.
	ii. "Fraudulent practice" means a misrepresentation of facts in order to influence a
	procurement process or the execution of a contract to the detriment of the Borrower,
	and includes collusive practice among Bidders (prior to or after bid submission)
	designed to establish bid prices at artificial non-competitive levels and to deprive the
	Borrower of the benefits of free and open competition;"
	• In the event the Purchaser terminates the Contract in whole or in part, the Purchaser may procure,
	upon such terms and in such manner, as it deems appropriate, Goods or Services similar to those
	undelivered, and the Supplier shall be liable to the Purchaser for any excess costs for such similar
	Goods or Services. However, the Supplier shall continue the performance of the Contract to the
	extent not terminated.
41.	Shifting: After 1-2 years once our new Academic Block will be ready, the supplier has to shift and
	reinstall the instrument free of cost (if required).
42.	Downtime: During the warranty period not more than 5% downtime will be permissible. For every
	day exceeding permissible downtime, penalty of 1/365 of the 5% FOB value will be imposed.
	Downtime will be counted from the date and time of the filing of complaint with in the business

	hours.
43.	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 one week at the supplier's cost.
44.	Disputes and Jurisdiction : Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within New Delhi.
45.	Compliancy certificate : This certificate must be provided indicating conformity to the technical specifications. (Annexure-I)

COMPLIANCE SHEET TECHNICAL SPECIFICATIONS

S. No	Features	Technical Specifications	Compliance (Y/N)
1.	UHV Vacuum Chamber	 12 inch diameter spherical electropolished 304 stainless steel chamber with the following ports. (a) Three 8" OD (CF 150) for substrate heater assembly, target flange and top view part. (b) 6" OD (CF 100) for pump port. (c) Two CF 50 for laser port. (d) Two CF 16 for gas and air inlet. (e) CF 35 for vacuum gauge, for view port for in situ optical characterization (2 nos.) and for side view parts (2 nos.). All view ports should have toughened glass windows with Aluminium covers. (f) Mounting frame for chamber. (g) Should be compatible for Pulsed Laser Deposition. (h) Ports should be provided for optional confocal mounting of upto 4 Sputter Guns UHV chamber capable of maintaining ultimate pressure ≤ 5×10-8 torr 	
2.	UHV Target Holder	Should hold multi-targets (six nos. of 1 inch or more dia.) and must be fully computer controlled. The controller should also interface with laser for multi- layer deposition. The target can be raster and rotated.	
3.	Heater, Temperature Controller	 (a) Substrate heater capable of heating up to 850 □ C or higher in vacuum as well as in oxygen atmosphere. (b) A clip mounting for substrates. (c) PID programmable temperature controller. 	
4.	Substrate Holder	Can hold 1" dia Substrate and can be rotated.	
5.	Pumping System and Gauges	 (a) Turbo molecular pump (of a reputed company such as Edwards, Pfeifer, or equivalent) with pumping speed of 600 l/sec or greater; backed with a dry backing pump with a capacity 10 m3/h or higher (of a standard company such as Edwards or equivalent). (b) All necessary gauges (penning & pirani from standard companies such as Pfeifer or equivalent make) to measure pressures (from atmosphere to 1x10-8 Torr). 	
6.	Gas Flow Controller Assembly (Two)	Two mass flow controllers with power supply for oxygen, Nitrogen and Argon Gas (MKS or Bronkhorst or Alicat or equivalent make)	

7.	Window for input of Laser Beam	Should be compatible with laser of wavelength 248 nm.	
8.	Software		
9.	Substrate Load-lock	 (a) Load-lock chamber with a transfer arm fitted with a vent-valve, and suitable ports for mounting rough vacuum and HV pressure sensors, etc. for easy transferring of the substrates. (b) The load lock chamber should be able to reach a base pressure of ≤ 1×10-6 torr. (c) VAT or equivalent make Gate valve of flange size appropriate to connect the main deposition chamber and the load lock chamber via the transfer arm (d) Turbo molecular pump (of a reputed company such as Edwards, Pfeifer, or equivalent) with a pumping speed ≥ 35 l/sec backed with a double stage rotary pump (of a standard company such as Edwards or equivalent) and a VAT make or equivalent GATE valve for the load-lock chamber. 	
10.	Lens Holder Attachment and Optics	X, Y, Z movement of lens with S1UV grade fused Silica 2" dia lens.	
11.	Chamber venting with N2	In addition to venting by ambient air, provision must be made for manually venting the system with nitrogen gas via manual venting valve with isolation valve.	
12.	Mandatory Accessories	 (a) Tool kit containing all the necessary tools (e.g., spanners, screw drivers, aligners, L-end key sets, needle file-sets, cutter, plier, stripper, etc.) necessary for PLD system should be provided with the system. Tool kits as required for the servicing of the sub-systems like pumps, gauges, power supplies, sputter guns, etc. also to be provided. (b) Copper gaskets: At least 5 sets of spare OFHC copper gaskets wherever mounted are to be provided (c) Viton gaskets for use with FC flanges: At least 5 sets of spare Viton gaskets wherever mounted are to be provided (d) A hair drier and compressed air gun nozzle (one each) be provided (e) Suitable water lines fitting from water chiller to system and power supplies. (f) Suitable gas-plumbing lines and fittings from chamber to gas cylinder (g) Heating filament to baking of the chamber from outside. 	

13.	Installation and Training	The bidder has to install the complete working system at IIT Delhi. The installation will be deemed complete subject to (i) achieving the ultimate pressure of $\leq 5 \times 10$ -8 Torr, In addition, the supplier has to train the lab-personnel in respect of complete operation of the UHV sputtering system	
14.	Users List	There should be installations of a minimum of 5 systems in India in the last 3 years. The vendor should provide the list of users where similar system has been supplied in the last two years in the government institutes.	

	Optional Items						
S. Technical Specifications No							
1.							
2.	Additional Substrate holding platform, custom designed, complete with Substrate heater, Substrate rotation assembly (Qty.: 1 set) as per following details a. Provision of holding substrates of different sizes via rigid clamps (with minimum shadowing)						
	 a. Provision of holding substrates of different sizes via rigid clamps (with minimum shadowing) mounted on a circular region which can be heated (hot zone ≥ 60 mm dia). The substrate size may range typically from 5×5 mm² to 50×50 mm² 						
	b. Separate shutter on the substrate table.						
	c. Variable substrate rotation with maximum speed ≥5 rpm						
	d. PID controlled substrate heating and temperature display and control unit: Temperature ≥ 800°C with control and display accuracy ≤ ±1°C, and uniformity ≤ ±5°C over 30 mm dia region						
	e. Capable of heating in O ₂ environment						
	f. Port for thickness monitor close to substrate holding platform for future upgrade						
	g. 2" for target-to-substrate height adjustability						
	h. Possibility to apply Transverse magnetic field on the substrate carrier with field of ≥200 Oe. (optional)						
	Plumbing of inert and reactive gases: Argon (inert gas) can be admitted directly into the chamber and Reactive process gases (oxygen) should be admitted near the substrate holder via a gas ring around this substrate holder.						
3.	2" dia, 200 W rating UHV compatible Sputter Magnetron Sources (Qty.: 2): having following technical specifications:						
	a. Compatibility with RF as well as DC Sputtering						
	b. NdFeB modular magnet array						
	c. Clamping ring to hold down target						
	d. "N" type electrical connector						
	e. Fitted with electro-pneumatic shutter so as to protect the target from cross-contamination						
	f. Provision of Gas ring with conical chimney for uniform gas distribution						
4.	 g. Compatibility with both magnetic and non-magnetic targets 3-way switches (Qty.:1): For connecting the RF/DC-power supplies to any of the 4 magnetron sources 						
	- one for RF generator and other for DC power supply						
5.	Safety interlocks (Qty.:1 set): All safety interlocks with sound alarm and/or LED alarm/messages are to be provided for all the equipment components wherever required (e.g., vacuum, door, water, compressed air, electrical requirements, etc.)						
6.							
7.	Water Chiller: Closed-loop chiller with +/- 1 °C temperature stability control.						
8.	DC Power Supply (Qty.: 1) DC supply 500W (Advanced energy, USA, or ADL Germany or equivalent) with integrated 4- way switchbox with all relevant cables.						

0	DE Concretor and Matching Naturals of rating >200 Watta @12.56 MHz (Oty + 1); AIA or T C							
9.	RF Generator and Matching Network of rating ≥300 Watts @13.56 MHz (Qty.: 1): AJA or T&C Power Conversion or Seren make or having following technical specifications							
		Air cooled compact RF generator						
	a.							
	b.	RF o/p power ≥300 W						
	c.	RF o/p power regulation $\leq \pm 3\%$						
	d.	Output frequency= 13.56 MHz						
	e.	Output Frequency regulation $\leq \pm 0.005\%$						
	f.	Output Impedance=50 ohms						
	g.	Provision of safety interlocks in r/o closing of cover/enclosure, vacuum, cooling, pressure, etc.						
	h.	Harmonic Distortion ≤ -30 dB						
	i.	Both local as well as remote (RS232/USB) operation modes are required						
	j.	Both Continuous as well as pulsed modes of operations are required						
	k.	15 pin D-type I/O control connector (DC input and output for power control and its monitoring)						
	1.	Front panel simultaneous display (LCD) of reflected and transmitted power for and set point power control, alarms, etc.						
	m.	'N' type female electrical connector for output power						
	n.	RF Output cable (length 10 ft/3 m) appropriate to o/p connector on generator						
	0.	Compatible Matching-Network unit capable for wide range of impedance-matching appropriate to sputtering-plasma applications (extra capacitors be providing to enhance the impedance – matching capability at user end)						
	p.	Interconnecting RF-cables connecting the RF-generator and Matching network						
10.		nonstration of sputtering: The installation will be deemed complete subject to co-sputtering from						
	the 3 dummy copper targets for over 2 hours while maintaining constant power to the target of value equal to the set RF-power (in case of RF Sputtering) and DC-power (in case of DC Sputtering), constant working pressure and set values of gas flow rates.							

I have also enclosed all relevant documents in support of my claims, (as above) in the following pages.

Signature o	of Bidder
Name:	
Designation:	
Organization Name:	
Contact No. :	

<< Organization Letter Head >> DECLARATION SHEET

We,	hereby certify that all the information and data furnished by
our organization with regard to this tender spec	ification are true and complete to the best of our knowledge. I have stipulations in details and agree to comply with the requirements
further certified that our organization meets	authorized (Copy attached) by the OEM to participate in Tender.We all the conditions of eligibility criteria laid down in this tender port on regular basis with technology / product updates and extend
The prices quoted in the financial bids are subsi	dized due to academic discount given to IIT Delhi.
We, further specifically certify that our organization has not been Black Listed/De Listed or put to any Holiday by any Institutional Agency/ Govt. Department/Public Sector Undertaking in the last three years.	NAME & ADDRESS OF THE Vendor/ Manufacturer / Agent
1 Phone	
2 Fax	
3 E-mail	
4 Contact Person Name	
5 Mobile Number	
6 TIN Number	
7 PAN Number	
(In case of on-line payment of Tender Fees)	
8UTR No. (For Tender Fee)	
(In case of on-line payment of EMD)	
9 UTR No. (For EMD)	
	(Signature of the Tenderer)
	Name:
	Seal of the Company

List of Govt. Organization/Deptt.

List of Government Organizations for whom the Bi	idder has undertaken such work	during last three
years (must be supported with work orders)	Name of Contact Person	Contact No.
Name of the organization	Name of Contact Person	Contact No.
	1	
N 6 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		
Name of application specialist / Service Engineer w support the quoted product during the warranty pe		cy to handle and
Name of the organization	Name of Contact Person	Contact No.
		Signature of Bidder
	Name:	
	Organization Name:	
	Contact No.	

Bid Submission

Online Bid Submission:

The Online bids (complete in all respect) must be uploaded online in two Envelops as explained below:-

Sl. No.	Sl. No. Documents Content							
1.	Technical Bid	Compliance Sheet as per Annexure - I	.PDF					
2.		Organization Declaration Sheet as per Annexure - II	.PDF					
3.	List of organizations/ clients where the same products have been supplied (in last two years) along with their contact number(s). (Annexure-III)	.PDF						
4.								
	Envelope – 2							
Sl. No.	TYPES	Content						
1.	Financial Bid	Price bid should be submitted in PDF format.	.PDF					

Electrical Engineering Department Indian Institute of Technology Delhi Hauz Khas, New Delhi-110016

Date: XX/XX/XXXX

Subject: Purchase of <Item> (Following format is used for imported items)

	G		10	TT 1.	1 .	D: .		D 1:	EOD /EO A	T .	CIED:
S.	Currency	Description and Specification of	Qty.	Unit	Agency	Discount	Ex-works	Packing +	FOB/FCA	Insurance	CIF Price
No) .	the Item	in	Price	Commission		price	Handling +	Airport	+ Freight	(f+g)
			Units		(If		(d=a+b-c)	DOC +	Price	(g)	
				(a)	applicable)	(c)		Inland	(f=d+e)		
					(b)			Freight +			
								FCA			
								Charges (e)			
1											

Note: At any circumstances, it is the responsibility of the foreign supplier to hand over the material to our forwarder at the origin airport after completing all the inland clearing. No Ex-works consignment will be entertained.

For indigenous items please quote as per following format.

	1 of margenous rems preuse quote us per rono ving rorman								
S.	Description and Specification of the	Qty. in Units	Unit Price in	GST%	Total Price in Rs.				
No.	Item		Rs.						
1.									
2.									

Note: The above financial template should be strictly followed. Any deviation from the above template (in terms of description and specification of the item) may lead to cancellation of the tender.