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Telephone: [044] 2257 9763 E-mail: tender@imail.iitm.ac.in

The Manager (Project Purchase)

Open Tender Reference No: EE/ANBA/22/IOE23/ELECTRONBEAM

GEM NAR ID: GEM/GARPTS/11022023/KOIF48FXAYPO

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, Tenders are invited in two bid system from Class-I local suppliers and Class II local suppliers, for the supply of "Electron Beam Evaporation System with load-lock facilities" Conforming to the specifications given in Annexure -A.

Tender Documents may be downloaded from Central Public Procurement Portal https://etenders.gov.in/eprocure/app. Aspiring Bidders who have not enrolled / registered in e-procurement should enroll / register before participating through the website https://etenders.gov.in/eprocure/app. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at "Help for contractors". [Special Instructions to the Contractors/Bidders for the esubmission of the bids online through this eProcurement Portal"]

Bidders 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 Madras tenders). Select the appropriate tender and fill them with all relevant information and submit the completed tender document online on the website https://etenders.gov.in/eprocure/app as per the schedule attached.

<u>1)</u>	Pre-bid Meeting Details	:	NA
2)	ICSR Vendor Registration	••	 <u>Vendor registration code</u>. Vendor registration with IC&SR (IITM) is mandatory for bidders to participate in tenders. ** <u>For Vendor Registration & Guidelines, Please follow the website</u> : <u>https://icandsr.iitm.ac.in/vendorportal;</u> Helpdesk: <u>vendorhelpdesk@icsrpis.iitm.ac.in</u>

No manual bids will be accepted. All tender documents including Technical and Financial bids should be submitted in the E-procurement portal.

Last date for receipt of tender	:	27.02.2023 @ 3:00 PM
Date & time of opening of tender	:	28.02.2023 @ 3:00 PM





Date: 13.02.2023

Due Date/Time: 27.02.2023@ 3:00 PM

<u>3. Instructions to the Bidder:</u>

<u>A)</u>	Searching for tender documents	:	 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. 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 Tender" folder. This would enable the CPP Portal to intimate the bidders through SMS / email in case there is any corrigendum issued to the tender document. 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
<u>B)</u>	Assistance to bidders	:	 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. 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 [0120-4200462, 0120-4001002, 0120-4001005]
<u>C)</u>	Enrollment Process to Bidders	:	 Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal URL:https://etenders.gov.in/eprocure/app by clicking on "Online Bidder Enrollment". Enrollment on the CPP Portal is free of charge. As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts. 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. 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.) 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. Bidder then may log in to the site through the secured log-in by entering their user ID / password and the password of the DSC / eToken. 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://etenders.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://etenders.gov.in/eprocure/app under the "Information about DSC".
<u>D)</u>	Preparation of bids	:	• Bidder should take into account any corrigendum published on the tender document before submitting their bids.
			• 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.
			• Bidder, in advance, should prepare the bid documents to be submitted as indicated in the tender document / schedule and generally shall be in PDF / XLS formats as the case may be. Bid documents may be scanned with 100 dpi with black and white option.
			• 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, GSTIN Details, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Documents " area available to them to upload such documents. 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.
<u>E)</u>	Submission of bids	:	• Bidder should log into the site well in advance for bid submission so that he/she can upload the bid in time i.e. on or before the bid submission date and time. Bidder will be responsible for any delay due to other issues.
			• The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
			• Bidder has to select the bid security declaration. Otherwise, the tender will be summarily rejected.
			• 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 detail with their respective financial quotes and other details (such as name of the bidder). If the BOQ file is found to be modified by the bidder, the bid will be rejected.
			• 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.
		•	The Tender Inviting Authority (TIA) will not be held responsible for any sort of delay or the difficulties faced during the submission of bids online by the bidders due to local issues.
		•	The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
		•	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.
		•	Kindly add scanned PDF of all relevant documents in a single PDF
		•	More information useful for submitting online bids on the CPP Portal may be obtained at: <u>https://etenders.gov.in/eprocure/app</u> . All tender documents including pre-qualification bid, Technical Bid &Financial Bid should be submitted separately in online CPP portal as per the specified format only. Right is reserved to ignore any tender which fails to comply with the above instructions. No manual bid submission will be entertained.
<u>F)</u>	Marking on Technical Bid	•	The bidder eligibility criteria, technical specification and supply of item for this tender is given in Annexure A.
		•	The Bidders shall go through the specification and submit the technical bid.
		•	The Technical bid should be submitted in the proforma as per Annexure-B in pdf format only through online (e-tender). No manual submission of bid will be entertained.
		•	The technical bid should have a page-wise heading as "Technical Bid" and page no. in all pages with seal and signature of authorized signatory. The total no. of pages should be mentioned at the last page of the documents.
		•	The technical bid should consist of bidder eligibility criteria details and all technical details along with catalogue/ pamphlet which will give a detailed description of product with technical data sheet so that technical compliance can be verified.
<u>G</u>)	Marking on Price Bid	•	Financial bid (BoQ) should be submitted in the prescribed proforma format as per Annexure-C in xls format through e-tender only. No manual or other form of submission of Financial Bid will not be entertained

4) **Preparation of Tender**: The bidders should submit the bids in two bid system as detailed below.

Bid I _ Technical Bid

The technical bid should consist of bidder eligibility criteria and technical specification compliance sheet as per Annexure-B.

Bid II _Price Bid

The price bid should be submitted in excel format (BoQ) as per the proforma (Annexure C) uploaded in the e-Tender web site. The Quoted price should be for supply and installation of the item and inclusive of all cost and statutory levies at IIT Madras.

5)	Price:
	a) The price should be quoted only in INR net per unit (after breakup) and must include all packing, transit insurance and delivery charges to the Department of Electrical Engineering
	b) The rate quoted shall be all inclusive of all taxes and no extra payment will be made other than statutory revisions as per the terms and conditions stipulated in this contract document.
	c) The percentage of tax & duties should be clearly indicated separately. IIT Madras is eligible for custom duty (5.5%). Relevant certificates will be issued wherever necessary.
	d) The offer/bids should be submitted through online only in two bid system i.e. Technical Bid and Financial Bid separately.
6)	Tenderer shall submit along with this tender:
	(i) Proof of having ISO or other equivalent certification given by appropriate authorities.
	(ii) Name and full address of the Banker and their swift code and PAN No. and GSTIN number.
	(iii) GST registration proof showing registration number, area of registration etc.
	(iv) All of your future correspondences including Invoices should bear the GST No. and Area Code.
7)	Terms of Delivery:
	a) Supplier will be fully responsible for the safe carriage, Installation/Commissioning of goods up to the Department of Electrical Engineering
	., IIT Madras or named place as per PO, Insurance coverage will be in the scope of the supplier.
	The tenderer should indicate clearly the time required for delivery of the item (subject to the approval of the Executive Committee-IIT-Madras). In case there is any deviation in the delivery schedule, liquidated damages clause will be enforced or penalty for the delayed supply period will be levied.
	In the event of delay or non-supply of materials/execution of Contract beyond the date of delivery/completion of job. The penalty will be levied @1% per week of delay subject to a max of 10% of the value of purchase order and if the delay is more than accepted time frame by IIT M, the PO would be partially or fully cancelled and liquidated damages will be enforced accordingly.
8)	Period for which the offer will remain open:
	The Tender shall remain open for acceptance/validity till: 120 days from the date of opening of the tender. However, the day up to which the offer is to remain open being declared closed holiday for the Indian Institute of Technology Madras, the offer shall remain open for acceptance till the next working day.
9)	 EMD: The EMD of 4,00,000 to be transferred to the account details mentioned in Annexure D and proof should be enclosed in the Technical Bid. Any offer not accompanied with the EMD shall be rejected summarily as non-responsive. The EMD of the unsuccessful bidders shall be returned within 30 days of the end of the bid validity period. The same shall be forfeited, if the tenderers withdraw their offer after the opening during the bid validity period. The Institute shall not be liable for payment of any interest on EMD.
	EMD is exempted for Micro and Small Enterprises (MSE) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) and Startups as recognized by Department of Industrial Policy & Promotion (DIPP). (MSE/MSME/DIPP PROOF should be enclosed in the cover containing technical bid).

10)	Performance Security: -
	The successful bidder should submit Performance Security for an amount of 3% of the value of the contract/supply. The Performance Security may be furnished in the form of an Account Payee DD, FD Receipt in the name of "The Registrar, IIT Madras" from any scheduled commercial bank or Bank Guarantee from any scheduled commercial bank in India. The performance security should be furnished within 14 days from the date of the purchase order.
	Performance Security in the form of Bank Guarantee: - In case the successful bidder wishes to submit Performance Security in the form of Bank Guarantee, the Bank Guarantee should be routed directly to IIT Madras from the Bank.
	The Bank Guarantee should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier including the warranty obligations.
11)	For the same tender, either the OEM or the authorized dealer/service provider can only quote. But both of them cannot quote separately for the same tender.
12)	The offers/bids should be sent only for a item/Equipments of latest version that is available in the market and supplied to a number of customers. A list of customers in India with details must accompany the quotations. Quotations for a prototype machine will not be accepted
13)	Original catalogue (not any photocopy) of the quoted model duly signed by the principals must accompany the quotation in the Technical bid.
14)	Compliance or Confirmation report with reference to the specifications and other terms & conditions should also be obtained from the principal/OEM.
15)	Risk Purchase Clause
	In the 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 other sources on the total risk of the supplier under risk purchase clause.
16)	Payment:
	(i) No Advance payment will be made. However, 90% Payment against Delivery and 10% after installation are agreed to wherever the installation is involved.
	(ii) Advance Payment: No advance payment is generally admissible. In case a specific percentage of advance payment is required, the Vendor has to submit a Bank Guarantee from a scheduled commercial bank in India equivalent to the amount of advance payment.
17)	On-site Installation:
	The equipment/item or Machinery has to be installed or commissioned by the successful bidder within the number of days (as prescribed by PI) from the date of receipt of the item at the site of IIT Madras.
18)	Warranty/Guarantee:
	The offer should clearly specify the warranty or guarantee period for the machinery/equipment. Any extended warranty offered for the same has to be mentioned separately (For more details please refer our Technical Specifications).
	** Note: PO which involves installation, warranty/guarantee shall be applicable from date of installation.
19)	Acceptance and Rejection:
	Failure to comply with any of the instructions stated in this document or offering unsatisfactory explanations for non-compliance will likely to lead to rejection of offers.
	I.I.T. Madras has the right to accept the whole or any part of the Tender or portion of the

	quantity offered or reject it in full without assigning any reason.
20)	Debarment from Bidding:
	In case of breach of Terms & Conditions, Bidder may be suspended from being eligible for bidding in any contract with the IIT Madras up to 2 Years [as per Rule 151(iii) of GFR] from the date of Tender.
21)	Disputes and Jurisdiction:
	Settlement of Disputes: Any dispute, controversy or claim arising out of or in connection with this PO including any question regarding its existence, validity, breach or termination, shall in the first instance be attempted to be resolved amicably by both the Parties. If attempts for such amicable resolution fails or no decision is reached within 30 days whichever is earlier, then such disputes shall be settled by arbitration in accordance with the Arbitration and Conciliation Act, 1996. Unless the Parties agree on a sole arbitrator, within 30 days from the receipt of a written request by one Party from the other Party to so agree, the arbitral panel shall comprise of three arbitrators. In that event, the supplier will nominate one arbitrator and the Project Coordinator of IITM shall nominate on arbitrator. The Dean IC&SR will nominate the Presiding Arbitrator of the arbitral tribunal. The arbitration proceeding shall be carried out in English language. The cost of arbitration and fees of the arbitrator(s) shall be shared equally by the Parties. The seat of arbitration shall be at IC&SR IIT Madras, Chennai.
	Laws of India. Court at Chennai shall have exclusive jurisdiction subject to the arbitration
	clause. b Any legal disputes arising out of any breach of contact pertaining to this tender shall be settled in
	the court of competent jurisdiction located within the city of Chennai in Tamil Nadu.
22)	Force Meioure: The Supplier shall not be lights for forfaiture of its performance security, liquidated
22)	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.
	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.
23)	Eligibility Criteria:
	As per the Government of India Order, only "Class - I Local Suppliers" and "Class - II Local Suppliers" <u>can participate in this tender.</u>
	Bidder should confirm their acceptance that they comply with the provisions with report to "Cuidalines for aligibility of a hidder from a country which shares a long burger with
	<u>India as detailed at Annexure-F. The bidder should submit Certificate for "Bidder from/</u>
	Not from Country sharing Land border with India & Registration of Bidder with
	Competent Authority" as per Order of DoE F.No.6/18/2019-PPD dated 23.07.2020 as mentioned.
24)	Preference to "class I Local Suppliers": preference will be given to "class 1 local suppliers" (subject
24)	to class -I local supplier's quoted price falling within the margin of purchase preference) as per public
	procurement (preference to make in India) order 2017 .O.M No P- 45021/2/2017 - pp(BE - 11) dt
	04/06/2020 subject to the conditions that the "class 1 Local Supplier" should agree to supply goods /

	provide service at L1 rate and furnish a certificate with the technical bid document that the
	goods/service provided by them consists local content equal to or more than 50%.(certificate from
	Chartered Accountant in case value of contract exceeds Rs 10 crore).
	> 'Class - I local supplier' means a supplier or service provider whose goods, services or works
	offered for procurement consists of local content equal to or more than 50% as defined under the
	above said order. Declaration to be provided as per Annexure-E per item/service/work.
	> 'Class - II local supplier' means a supplier or service provider whose goods, services or works
	offered for procurement consists of local content equal to 20% but less than 50% as defined under
	the above said order. Declaration to be provided as per Annexure-E per item/service/work.
	> 'Margin of purchase preference': - The margin of purchase preference shall be 20%. The
	Definition of the margin of purchase preference is defined in the Govt. of India Order No: P-
	45021/12/2017-PP (BE-II) Dt.4th June, 2020) Order 2017. As per the Government of India
	Order – "Margin of Purchase Preference" means the maximum extent to which the price
	quoted by a "Class-I local supplier" may be above the L1 for the purpose of purchase
	preference.
	**Note: Local content percentage to be calculated in accordance with the definition provided at
	clause 2 of revised public procurement preference to Make in India Policy vide GoI Order no. P-
	45021/2/2017-PP (B.EII) dated 15.06.2017 (subsequently revised vide orders dated 28.05.2018,
	29.05.2019and 04.06.2020) MOCI order No. 45021/2/2017-PP (BE II) Dt.16th September 2020 & P-
	45021/102/2019-BE-II-Part(1) (E-50310) Dt.4th March 2021
25)	Evaluation of Bids
25)	Bid evaluation will take place in two stages.
	Stage I Technical Bid evaluation
	All bidders who have fully complied with bidder eligibility criteria I, II and technical evaluation
	(Annexure A) will only be considered for opening of price bid.
	Stage II: Price Bid Evaluation
	The price bid evaluation will be based on price quoted by the bidder. The rate quoted for
	"Electron Beam Evaporation System with load-lock facilities" unit will alone be taken up for arrival
	of Lowest Bid (L1) value.
26)	Selection of successful bidder and Award of Order
,	The order will be directly awarded to the technically qualified bidder as per the condition in para 3A of
	DIPP, MoCI Order No. 45021/2/2017-PP (BE II) dated 16th September 2020.
27)	All information including selection and rejection of technical or financial bids of the prospective bidders
,	will be communicated through e-Tender portal. In terms of Rule 173(iv) of General Financial Rule 2017,
	the bidder shall be at liberty to question the bidding conditions, bidding process and/or rejection of bids.
28)	The tenderer shall certify that the tender document submitted by him / her are of the same replica of the
/	tender document as published by IIT Madras and no corrections, additions and alterations made to the
	same. If any deviation found in the same at any stage and date, the bid / contract will be rejected /
	terminated and actions will be initiated as per the terms and conditions of the contract.
29)	Due to Covid-19 pandemic pre-bid meeting will be conducted through online. Clarification to the queries
	and doubts raised by the bidders will be issued as a corrigendum/addendum in the e-tenders portal.
30)	Due to Covid-19 pandemic the bidders will not be entertained to participate in opening of Bids. Since the
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ACKNOWLEDGEMENT

It is hereby acknowledged that I/We have gone through all the points listed under "Specification, Guidelines, Terms and Conditions" of tender document. I/We totally understand the terms and conditions and agree to abide by the same.

SIGNATURE OF TENDERER ALONG WITH SEAL OF THE COMPANY WITH DATE

Bidder Eligibility Criteria and Technical Specification for "Electron Beam Evaporation System with loadlock facilities" Tender No. EE/ANBA/22/IOE23/ELECTRONBEAM

Bidder Eligibility Criteria – I (Public Procurement – Preference to Make in India)

Only 'Class-I local suppliers' and 'Class-II local suppliers', as defined under DIPP, MoCI Order No. P-45021/2/2017-PP (BE-II) dated 16th September 2020 and other subsequent orders issued therein.

Bidder Eligibility Criteria – II

- 1. Vendor shall provide list of at least five customers (India and abroad) of similar systems along with email addresses, where the similar system has already been installed as part of the technical bid.
- 2. A similar system with all features including evaporation and transfer chamber with RF plasma cleaning facility should be available in India for on-site visit/inspection
- 3. Warranty Certificates from manufacturer for bought out items like Power Supplies, Vacuum Pumps with Serial Numbers will have to be provided along with system documentation
- 4. OEM should have authorized service Centre in India, functioning minimum for 10 years to provide repair, maintenance, calibration and upgradation facility (OEM should provide necessary service of operation certificate)

III. Technical Specification For "Electron Beam Evaporation System with load-lock facilities"

S.NO	Sub-components description
1	Vacuum chamber design
	•Fully RF shielded, High Grade Stainless Steel, electro-polished body, Main or Process Chamber should have water-cooled stainless steel 304 non-magnetic chamber with a front opened door.
	•The dimensions of the chamber must match the future upgradability needs.
	•An electrically-controlled shutter next to the substrate holder
	•A thickness-measuring device, installed next to the substrate holder but below the shutter.
	•Top and bottom view ports in such ways that substrate/shutter can be seen through the top viewport and electron beam hearth can be seen through bottom viewport.
	•At least 3Nos of spare view ports should be provided for future expansion. For example, the model offered could use one port to insert controlled amount of oxygen in the chamber through a pipe, which opens next to the substrate holder which will help to deposit a good optical quality thin-film of metals, oxide dielectrics.
	•Chamber shall have easily removable stainless-steel liners for protection of the inner chamber wall against deposition. An additional set should be provided with the system.
	•Achievable base pressure of the process chamber fitted with a load-lock should be better than 8x10-8 mbar & Load- lock pressure of better than 5x10-6 mbar should be achieved in 30 minutes after initiating the automatic pumping routine.
	•Also, the system should have provision to upgrade to make a Linear Cluster Tool with Sputtering Systems.

	•The entire fabrication must adhere to international Vacuum Welding Standards, electrochemically polished chamber inner surface for low out gassing rate. All the components, sub-assemblies and final unit must be leak tested using Helium Mass Spectrometer Leak Detector to Maximum allowable leak rate < 1 x 10 ⁻⁹ mbar Lt/sec Helium.
2	Pumping System for Process Chamber
	•System should have a roughing dry scroll pump from market established reputed manufacturers, minimum pumping speed: $10 \text{ m}^3/\text{hr.}$, ultimate pressure ~ 7.5×10^{-3} mbar.
	•All the flanges, piping connection cable, filter & any accessories required, should be quoted
	•Reputed make, Turbo molecular pump with pumping speed 400 liter/sec or better, the ultimate vacuum in the Process Chamber should be better than $6x10^{-8}$ mbar
	•Should have automated and interlocked pumping system
	•Vendor should furnish the details of the vacuum pumps, their make, pumpdown time etc., as part their technical bid
	•Pumping system should be fully automated and should be controlled via a control module
	•All necessary interlocks for water, vacuum, gate valve open / shut, linear probe in locked position, HT EB PSU covers, EB magnet should have status displayed.
	•Vacuum Gauges suitable for measuring low and High Vacuum: Wide Range gauge of reputed make should be included.
3	Electron Beam Gun
	 One Electron Beam Gun reputed make, having cross-contamination proof 8 pockets (x 4cc (preferred)) rotatable hearth. Programmable XY sweep control to pin point E-Beam source beam
	•Point patterns are programmable from the remote-control display
	•Low arcing kit for dielectric material evaporation
	•270° beam deflection
	•Motorized turret rotation to allow for multi-layer deposition should be offered as standard
	•Upgrade: Automated turret rotation to allow for automated multi-layer programming and integration to the thin film controller is necessary but should be offered as upgrade
4	EB powers supply
	•EB powers supply, reputed make 3 kW output power adjustable 10 kV constant voltage stable beam position, better than \pm 1% voltage/current regulation. Note that the specified power supply should be able to evaporate the materials most of all metals and insulating materials.
	•Safety interlocks for rear cover, water, vacuum and magnet. PSU should be operated via hand held control device that can be brought next to the deposition chamber and a simultaneous operation of the unit and viewing of the beam in the chamber should be possible in order that beam can be viewed at setup
5	Substrate Shutter

	•One pneumatically-controlled substrate shutter should be offered. There should be a provision to control & activate the shutter manually, which will override the automatic control.
6	Deposition Rate Controller
	•Quartz Crystal Deposition Controller of reputed make, on a multi-microprocessor design, which enables rapid measurement updates with superior resolution, as well as modular architecture.
	•Thickness Display: 0.000 to 999.9 KA
	•Rate Display: 0.0 to 999 A/sec
	•Controller to interface seamlessly with HMI/PLC control system for manual/automated hand over
7	Substrate heater and Rotation
	•Substrate Holder capable of holding various dimensions of substrate from 10 mm dia. to 100 mm dia. disc.
	•The system shall be delivered with 2 different substrate holders for different applications. Exact details to be agreed with the intender
	•Changing of substrate holders shall be performed by trained operator in less than 15 minutes
	• Rotation gear driven, speed control DC motor and rotary feedthrough with speed 3- 20 rpm. DC rotation stage to substrate platen, speed control and start/stop from HMI.
	•Substrate Heater, with a suitable 1000W Quartz Lamp Heater for substrate front side heating should be provided for varying substrate temperature from RT to a maximum of 500 °C with a thermocouple and proportional temperature control (PID) with accuracy of +/- 1 °C.
8	System control and software:
	•PLC-PC interfaced for thin film deposition system (such as thickness controller, rotation controller, evaporation sources, pump down sequence, vent sequence, power control, shutter control, substrate heater and anyrequired components) by HMI for complete automatic user-friendly operation with Window based software with necessary data base management.
	• The software must be user-friendly for all types of processing
	• The necessary software in the CD form should also be provided for future use
	•Software configured such that all automated processes can be manually controlled
	•Add Data Logging & Displaying provision should be given.
	•The Windows based software should be capable to generate &display pump down curve, log data, error log on a perpetual basis.
	•PC-based user interface: User operation is via an included PC integrated as part of the tool.
	•The PC is equipped with the necessary software for fully automated / manual operation of the system. This software should be intuitive and powerful and includes the following key features. Backup copies of system software should be provided.
	•Monitoring and control of the pumping system and process chamber pressure.
	•Operation of deposition hardware: Power supplies, switch, rotation and Shutters, Graphical representation of system hardware states.
	•Live data recording, including to spreadsheet-compatible file formats
	•System logs, including user inputs, System interlock statuses and diagnostics; remote diagnostics via Ethernet connection
	•Multiple user access levels (e.g., administrator, supervisor and user; password protected

9	Cabinet & Operational Power supply and Safety Features				
	•The system should be fully mounted in an all-metal cabinet / rack 19inch having removable				
	side panels and rear panels for access and maintenance.				
	•Power requirement such as voltage, Three Phase/single phase 60/50 Hz should be mentioned				
	•Earthing requirement if any should be mentioned				
	•All the electronic components should be commercially off-the-shelf type •Emergency Power Shutdown Switch on Front panel. Includes automated emergency shut off				
	backing line valves and NC turbo vent valves for power out recovery situation.				
	•Safety features of the equipment should be provided with the all safety devices and interlocks				
	•The System should be automated by means of the PLC/PC interlocked with all system sub-				
	•Should have motorized Z-shift				
	Transfer chamber facility:				
	• The transfer chamber should be connected to a main chamber.				
	• Appropriate pumping system to reach the base vacuum of $\sim 5 \times 10^{-7}$ mbar in the transfer chamber should be provided				
	 Fully automated RE plasma cleaning facility for substrates should be provided 				
	• The transfer mechanism should be canable to transfer 4 inch substrate and smaller				
	• The transfer mechanism should be capable to transfer 4 men substrate and smaller size substrates using a carrier				
10	• Should have motorized 7-shift				
10	General requirements and support structure				
	•Cleanroom compatible ISO 5 Class 1000 standard, evaporator tool and all necessary				
	supportive documents on cleanroom compatibility must be submitted along with the technical				
	bid				
	•Cross-contamination proof 4cc multi-pocket (minimum, 4 pockets) electron-beam evaporation				
	 system is required for deposition of high purity, high optical quality, and high electrical quality thin-films and multilayer with controlled and constant deposition rate. •The system should be capable to deposit thin films of various metals, dielectrics, and insulating materials of thicknesses from few nm to several up 1.4 Substrates for/ materials 				
	underneath of thin-film.				
	•The system includes deposition chamber, dry vacuum numps, valves and gauges, electron				
	gun, power supplies, substrate holder with heating & rotating mechanism, shutters,				
	instrumentation and all necessary control units.				
	• The functional requirements, specifications and details of sub-systems are as described above				
	in this document.				
	•A thickness uniformity of \pm 3% for 200 nm-thick Ti, for 250 nm-thick SiO2, and 200 nm-				
	thick TiO2 to be demonstrated on 100 mm diameter Si substrates.				
	•The system and subsystems should have on-site upgradability with two water-cooled thermal				
	sources a load-lock chamber which could handle 100 mm diameter substrates. The transfer				
	mechanism should be able to transfer one 100 mm diameter or many smaller size substrates				
	using a carrier.				
	•A load-lock chamber equipped with RF Etch Facility using appropriate RF power supply to				
12	Auto/manual thin film deposition				
	•PC interface to the PLC and PLC based vacuum controller for complete automation of				
	vacuum pumping with runy automatic and a provision for manual control. High resolution colour touchscreen HMI with purpose designed easy-to-use, powerful software to enable				
	deposition in either manual or automatic (i.e., per user-defined recipes) control modes. System				
	control via industrial-grade, high-stability PLC electronics.				

	•System should have USB and/or Ethernet connections for servicing/diagnostics and data logging/download during use from PC/laptop.
13	Safety interlocks
	•Water, low vacuum, high-vacuum, power supply connections and all necessary safety interlocks must be provided.
	•An emergency stop button should be provided to maintain the process chamber under vacuum in case of emergency and should be able to revert to safe state in event of a power cut, ready for easy power restart.
14	Operating manual
	•Both electronic and hardcopy
	•The documentation/manual shall include all drawings, schematics, spares parts catalogues and also sub-vendor's manuals.
15	a)The system shall be installed / commissioned at customer site. The quotation shall be inclusive of all charges, if any, for installation and commissioning of the equipment by the vendor.
	b)Extensive operation and maintenance training of two persons for one week at the customer site after the installation should be included.
	c)Vendor to provide complete clean room compatible documentation/manuals soft copy/ hard copy for the systems.
	d)Training at least 3 members during installation at IIT Madras
	e) system shall conform to the Indian power supply standards, i.e. $230V \pm 5\%$, 50Hz, Single Phase
16	Chiller
	A good chiller suitable for the sputter unit should be provided.
17	Optional items
	•Film Thickness Monitor
	•Film Thickness controller
	•Vendor needs to confirm the suitability of the system offered to be able to upgrade these facilities on-site.
	•Vendor needs to provide User references where such upgrades have been carried out on-site
ADDI	FIONAL TERMS AND CONDITIONS
18	Warranty
	•Standard warranty for one year and extended warranty for two years as optional. (Optional warranty will not be considered for price comparison)
	•Vendor shall commit to provide spares and support for 05 years after expiry of warranty period.

TECHNICAL BID PROFORMA

Tender No. EE/ANBA/22/IOE23/ELECTRONBEAM Item Name: "Electron Beam Evaporation System with load-lock facilities

1.0	Bidder Eligibility Criteria-I (Public Procurement – Preference to Make in India)	Class I / Class II	Local Content value	Reference, Page No.
Ι	Only 'Class-I local suppliers' and 'Class-II local suppliers', as defined under DIPP, MoCI Order No. P-45021/2/2017-PP (BE II) dated 16 th September 2020 and other subsequent orders issued therein.			

2.0 Bidder Eligibility Criteria - II

S.NO	Bidder Eligibility Criteria - II	complied/not complied	Reference pg.no	Remarks if any
1	Vendor shall provide list of at least five customers (India and abroad) of similar systems along with email addresses, where the similar system has already been installed as part of the technical bid.			
2	A similar system with all features including evaporation and transfer chamber with RF plasma cleaning facility should be available in India for on-site visit/inspection			
3	Warranty Certificates from manufacturer for bought out items like Power Supplies, Vacuum Pumps with Serial Numbers will have to be provided along with system documentation.			
4	OEM should have authorized service Centre in India, functioning minimum for 10 years to provide repair, maintenance, calibration and upgradation facility (OEM should provide necessary service of operation certificate).			

3.0 Technical specification

		complied/Not complied	Reference pg.no
S.NO	Sub-components description		
1	Vacuum chamber design		
	•Fully RF shielded, High Grade Stainless Steel, electro-polished body, Main or Process Chamber should have water-cooled stainless steel 304 non-magnetic chamber with a front opened door.		
	•The dimensions of the chamber must match the future upgradability needs.		
	•An electrically-controlled shutter next to the substrate holder		
	•A thickness-measuring device, installed next to the substrate holder but below the shutter.		

	•Top and bottom view ports in such ways that substrate/shutter can be seen through the top viewport and electron beam hearth can be seen through bottom viewport.	
	•At least 3Nos of spare view ports should be provided for future expansion. For example, the model offered could use one port to insert controlled amount of oxygen in the chamber through a pipe, which opens next to the substrate holder which will help to deposit a good optical quality thin-film of metals, oxide dielectrics.	
	•Chamber shall have easily removable stainless-steel liners for protection of the inner chamber wall against deposition. An additional set should be provided with the system.	
	•Achievable base pressure of the process chamber fitted with a load-lock should be better than 8x10-8 mbar & Load-lock pressure of better than 5x10-6 mbar should be achieved in 30 minutes after initiating the automatic pumping routine.	
	•Also, the system should have provision to upgrade to make a Linear Cluster Tool with Sputtering Systems	
	•The entire fabrication must adhere to international Vacuum Welding Standards, electrochemically polished chamber inner surface for low out gassing rate. All the components, sub- assemblies and final unit must be leak tested using Helium Mass Spectrometer Leak Detector to Maximum allowable leak rate < 1 '10-9 mbar Lt/sec Helium.	
2	Pumping System for Process Chamber	
2	Pumping System for Process Chamber•System should have a roughing dry scroll pump from market established reputed manufacturers, minimum pumping speed: 10 m³/hr., ultimate pressure ~7.5x10-3 mbar.	
2	 Pumping System for Process Chamber System should have a roughing dry scroll pump from market established reputed manufacturers, minimum pumping speed: 10 m³/hr., ultimate pressure ~7.5x10⁻³ mbar. All the flanges, piping connection cable, filter & any accessories required, should be quoted 	
	 Pumping System for Process Chamber System should have a roughing dry scroll pump from market established reputed manufacturers, minimum pumping speed: 10 m³/hr., ultimate pressure ~7.5x10⁻³ mbar. All the flanges, piping connection cable, filter & any accessories required, should be quoted Reputed make, Turbo molecular pump with pumping speed 400 liter/sec or better, the ultimate vacuum in the Process Chamber should be better than 6x10⁻⁸ mbar 	
	 Pumping System for Process Chamber System should have a roughing dry scroll pump from market established reputed manufacturers, minimum pumping speed: 10 m³/hr., ultimate pressure ~7.5x10⁻³ mbar. All the flanges, piping connection cable, filter & any accessories required, should be quoted Reputed make, Turbo molecular pump with pumping speed 400 liter/sec or better, the ultimate vacuum in the Process Chamber should be better than 6x10⁻⁸ mbar Should have automated and interlocked pumping system 	
	 Pumping System for Process Chamber System should have a roughing dry scroll pump from market established reputed manufacturers, minimum pumping speed: 10 m³/hr., ultimate pressure ~7.5x10⁻³ mbar. All the flanges, piping connection cable, filter & any accessories required, should be quoted Reputed make, Turbo molecular pump with pumping speed 400 liter/sec or better, the ultimate vacuum in the Process Chamber should be better than 6x10⁻⁸ mbar Should have automated and interlocked pumping system Vendor should furnish the details of the vacuum pumps, their make, pumpdown time etc., as part their technical bid 	
	 Pumping System for Process Chamber System should have a roughing dry scroll pump from market established reputed manufacturers, minimum pumping speed: 10 m³/hr., ultimate pressure ~7.5x10⁻³ mbar. All the flanges, piping connection cable, filter & any accessories required, should be quoted Reputed make, Turbo molecular pump with pumping speed 400 liter/sec or better, the ultimate vacuum in the Process Chamber should be better than 6x10⁻⁸ mbar Should have automated and interlocked pumping system Vendor should furnish the details of the vacuum pumps, their make, pumpdown time etc., as part their technical bid Pumping system should be fully automated and should be controlled via a control module 	

	•Vacuum Gauges suitable for measuring low and High Vacuum: Wide Range gauge of reputed make should be included.	
3	Electron Beam Gun	
	•One Electron Beam Gun reputed make, having cross- contamination proof 8 pockets (x 4cc (preferred)) rotatable hearth.	
	•Programmable XY sweep control to pin point E-Beam source beam	
	•Point patterns are programmable from the remote-control display	
	•Low arcing kit for dielectric material evaporation	
	•270° beam deflection	
	•Motorized turret rotation to allow for multi-layer deposition should be offered as standard	
	•Upgrade: Automated turret rotation to allow for automated multi-layer programming and integration to the thin film controller is necessary but should be offered as upgrade	
4	EB powers supply	
	•EB powers supply, reputed make 3 kW output power adjustable 10 kV constant voltage stable beam position, better than \pm 1% voltage/current regulation. Note that the specified power supply should be able to evaporate the materials most of all metals and insulating materials.	
	•Safety interlocks for rear cover, water, vacuum and magnet. PSU should be operated via hand held control device that can be brought next to the deposition chamber and a simultaneous operation of the unit and viewing of the beam in the chamber should be possible in order that beam can be viewed at setup	
5	Substrate Shutter	
	•One pneumatically-controlled substrate shutter should be offered. There should be a provision to control & activate the shutter manually, which will override the automatic control.	
6	Deposition Rate Controller	
	•Quartz Crystal Deposition Controller of reputed make, on a multi-microprocessor design, which enables rapid measurement updates with superior resolution, as well as modular architecture.	
	•Thickness Display: 0.000 to 999.9 KA	
	•Rate Display: 0.0 to 999 A/sec	
	•Controller to interface seamlessly with HMI/PLC control system for manual/automated hand over	
7	Substrate heater and Rotation	
	•Substrate Holder capable of holding various dimensions of substrate from 10 mm dia. to 100 mm dia. disc.	
	•The system shall be delivered with 2 different substrate holders for different applications. Exact details to be agreed with the intender	

	•Changing of substrate holders shall be performed by trained operator in less than 15 minutes	
	• Rotation gear driven, speed control DC motor and rotary feedthrough with speed 3- 20 rpm. DC rotation stage to substrate platen, speed control and start/stop from HMI.	
	•Substrate Heater, with a suitable 1000W Quartz Lamp Heater for substrate front side heating should be provided for varying substrate temperature from RT to a maximum of 500 °C with a thermocouple and proportional temperature control (PID) with accuracy of +/- 1 °C.	
8	System control and software:	
	•PLC-PC interfaced for thin film deposition system (such as thickness controller, rotation controller, evaporation sources, pump down sequence, vent sequence, power control, shutter control, substrate heater and anyrequired components) by HMI for complete automatic user-friendly operation with Window based software with necessary data base management.	
	•The software must be user-friendly for all types of processing •The necessary software in the CD form should also be provided for future use	
	•Software configured such that all automated processes can be manually controlled	
	•Add Data Logging & Displaying provision should be given.	
	•The Windows based software should be capable to generate &display pump down curve, log data, error log on a perpetual basis.	
	•PC-based user interface: User operation is via an included PC integrated as part of the tool.	
	•The PC is equipped with the necessary software for fully automated / manual operation of the system. This software should be intuitive and powerful and includes the following key features. Backup copies of system software should be provided.	
	•Monitoring and control of the pumping system and process chamber pressure.	
	•Operation of deposition hardware: Power supplies, switch, rotation and Shutters, Graphical representation of system hardware states.	
	•Live data recording, including to spreadsheet-compatible file formats	
	•System logs, including user inputs, System interlock statuses and diagnostics; remote diagnostics via Ethernet connection	
	•Multiple user access levels (e.g., administrator, supervisor and user; password protected	
9	Cabinet & Operational Power supply and Safety Features	
	•The system should be fully mounted in an all-metal cabinet / rack 19inch having removable side panels and rear panels for access and maintenance.	
	•Power requirement such as voltage, Three Phase/single phase 60/50 Hz should be mentioned	
	•Earthing requirement if any should be mentioned	

	•All the electronic components should be commercially off-the-	
	shelf type	
	•Emergency Power Shutdown Switch on Front panel. Includes	
	automated emergency shut off backing line valves and NC turbo	
	•Safety features of the equipment should be provided with the all	
	safety devices and interlocks	
	•The System should be automated by means of the PLC/PC	
	interlocked with all system sub-controller	
	•Should have motorized Z-shift	
	Transfer chamber facility:	
	• The transfer chamber should be connected to a main	
	chamber.	
	• Appropriate pumping system to reach the base vacuum $\overline{7}$	
	of $\sim 5 \times 10^{-7}$ mbar in the transfer chamber should be	
	provided.	
	• Fully automated RF plasma cleaning facility for	
	substrates should be provided.	
	• The transfer mechanism should be capable to transfer 4	
10	Should have motorized Z shift	
10	General requirements and support structure	
	•Cleanroom compatible ISO 5 Class 1000 standard evaporator	
	tool and all necessary supportive documents on cleanroom	
	compatibility must be submitted along with the technical bid	
	•Cross-contamination proof 4cc multi-pocket (minimum, 4	
	deposition of high purity, high optical quality, and high electrical	
	quality thin-films and multilayer with controlled and constant	
	deposition rate.	
	•The system should be capable to deposit thin films of various	
	metals, dielectrics, and insulating materials of thicknesses from	
	thin-film	
	•The system includes deposition chamber, dry vacuum pumps,	
	valves and gauges, electron gun, power supplies, substrate holder	
	with heating & rotating mechanism, shutters, instrumentation	
	and all necessary control units.	
	• The functional manyingments appointions and details of sub	
	systems are as described above in this document.	
	• A thickness uniformity of $\pm 3\%$ for 200 nm thick Ti for 250	
	1 nm-thick SiO2, and 200 nm-thick TiO2 to be demonstrated on	
	100 mm diameter Si substrates.	
	•The system and subsystems should have on-site upgradability	
	with two water-cooled thermal sources a load-lock chamber	
	which could handle 100 mm diameter substrates. The transfer	
	mechanism should be able to transfer one 100 mm diameter or	
	many smaller size substrates using a carrier.	
	•A load-lock chamber equipped with RF Etch Facility using	
	appropriate RF power supply to clean the substrate/s before	

	transferring to the main chamber for depos	
12	Auto/manual thin film deposition	
	•PC interface to the PLC and PLC based vacuum controller for	
	complete automation of vacuum pumping with fully automatic	
	and a provision for manual control. High resolution colour	
	touchscreen HMI with purpose-designed easy-to-use, powerful	
	software to enable deposition in either manual or automatic (i.e.,	
	per user-defined recipes) control modes. System control via	
	Industrial-grade, high-stability PLC electronics.	
	•System should have USB and/or Ethernet connections for	
	PC/lanton	
12	Safety interlocks	
15	•Water low vacuum high-vacuum nower supply connections	
	and all necessary safety interlocks must be provided.	
	•An emergency stop button should be provided to maintain the	
	process chamber under vacuum in case of emergency and should	
	be able to revert to safe state in event of a power cut, ready for	
	easy power restart.	
14	Operating manual	
	•Both electronic and hardcopy	
	•The documentation/manual shall include all drawings,	
	schematics, spares parts catalogues and also sub-vendor's	
1.5	manuals.	
15	a) The system shall be installed / commissioned at customer site.	
	installation and commissioning of the equipment by the vendor	
	The second secon	
	b)Extensive operation and maintenance training of two persons	
	included	
	c)Vendor to provide complete clean room compatible	
	documentation/manuals soft copy/ hard copy for the systems.	
	d)Training at least 3 members during installation at IIT Madras	
	e) system shall conform to the Indian power supply standards,	
	i.e. $230V \pm 5\%$, 50Hz, Single Phase	
16	Chiller	
	A good chiller suitable for the sputter unit should be provided.	
	Optional Items	
17	All the optional items should be quoted separately.	
	•One number of reputed make thickness monitor and thickness	
	controller	
	•Ion-beam assisted gun for improving the density of thin film	
	growth	
	•The system and subsystems should have on-site upgradability	
	•Film Thickness Monitor	
	•Film Thickness controller	
	•Vendor needs to confirm the suitability of the system offered to	
	be able to upgrade these facilities on-site.	

	•Vendor needs to provide User references where such upgrades have been carried out on-site	
ADDI	TIONAL TERMS AND CONDITIONS	
18	Warranty	
	•Standard warranty for one year and extended warranty for two years as optional. (Optional warranty will not be considered for	
	•Vendor shall commit to provide spares and support for 05 years after expiry of warranty period.	

(Note: It is mandatory for the bidders to provide the compliance statement in tabular column format along with catalogue page number (comply/not comply) for the above points with document proof as required. Failing which bidders will be technically disqualified)

SIGNATURE OF BIDDER ALONG WITH SEAL OF THE COMPANY WITH DATE

FINANCIAL BID (PROFORMA) - BILL OF QUANTITIES (BOQ)

Item Name: "Electron Beam Evaporation System with load-lock facilities"

Tender No. EE/ANBA/22/IOE23/ELECTRONBEAM

It. No	Description of work	Quantity	Units	Basic Rate in INR	GST in Percentage	Total Amount with taxes in INR
1	Electron Beam Evaporation System with load-lock facilities with 1 Year Warranty	1	Units			
2	Extended Warranty – 2 Years (Optional)	1	Units			
	Grand Total					

Total Amount Rupees in words _____

Note: Optional Extended Warranty will not be considered for Price Bid Evaluation.



CENTRE FOR INDUSTRIAL CONSULTANCY & SPONSORED RESEARCH (IC&SR) INDIAN INSTITUTE OF TECHNOLOGY MADRAS CHENNAI 600 036



ELECTRONIC CLEARING SERVICE (Credit Clearing)/ REAL TIME GROSS SETTLEMENT (RTGS) FACILITY FOR RECEIVING PAYMENTS A. Details of Account Holder

Name of the Institution	Indian Institute of Technology - Madras
Complete Contact Address	Industrial Consultancy and Sponsored Research Indian Institute of Technology-Madras, IIT- Madras Campus Post Office, Sardar Patel Road, Guindy, CHENNAI - 600 036
Telephone No./ Fax No.	Tel - 044-2257 8356
E- mail ID of the FO/AO/REG/DIR	dricsr@iitm.ac.in

B. Bank Account Details:

Institution Account Name (As per Bank	The Registrar, Indian Institute of
Record)	Technology - Madras
Account No.	2722101003872
Account Print Name	IIT F A/C , The Registrar IIT Madras
IFSC CODE	CNRB0002722
Bank Name (in full)	Canara Bank
Branch Name	IIT-Madras Branch
Complete Branch Address	Canara Bank,
	IIT-Madras Branch,
	IIT- Madras Campus Post Office,
	Sardar Patel Road,
	Guindy, CHENNAI - 600 036
MICR No.	600015085
Account Type	Savings Account

Certified that the Institute's account is in an RTGS enabled branch.

I hereby declare that the particulars given above are correct and complete.

Date:

Signature of the competent Authority of the Institution with seal.

FORMAT FOR AFFIDAVIT OF SELF-CERTIFICATION UNDER PREFERENCE TO MAKE IN INDIA – PER ITEM

Tender Reference Number:

Name of the item / Service:

Date: ______ I/We______S/o, D/o, W/o, ______ Resident of

Hereby solemnly affirm and declare as under:

That I will agree to abide by the terms and conditions of the Public Procurement (Preference to Make in India) Policy vide GoI Order no. P-45021/2/2017-PP (B.E.-II) dated 15.06.2017 (subsequently revised vide orders dated 28.05.2018, 29.05.2019and 04.06.2020) MOCI order No. 45021/2/2017-PP (BE II) Dt.16th September 2020 & P-45021/102/2019-BE-II-Part (1) (E-50310) Dt.4th March 2021 and any subsequent modifications/Amendments, if any and

That the local content for all inputs which constitute the said item/service/work has been verified by me and I am responsible for the correctness of the claims made therein.

Tick (🗸	() and Fill the Appropriate Category
	I/We[name of the supplier] hereby confirm in respect of quoted items
	thatLocal Content is equal to or more than 50% and come under "Class-I Local Supplier"
	category.
	I/We[name of the supplier] hereby confirm in respect of quoted items
	that Local Content is equal to 20% but less than 50% and come under "Class-II Local Supplier"
	category.
• Th	ne details of the location (s) at which the local value addition is made and the proportionate value of loc
CO	ontent in percentage

Address _____ ___

Percentage of Local content: _____%

Authorized signatory (To be duly authorized by the Board of Directors) <Insert Name, Designation and Contact No.>

[Note: In case of procurement for a value in excess of Rs. 10 Crores, the bidders shall provide this certificate from statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.]

This letter should be on the letterhead of the quoting firm and should be signed by a competent authority. Nonsubmission of this will lead to Disqualification of bids.

<u> Annexure – F</u>

(To be given on the letter head of the bidder)

No._____

Dated: _____

CERTIFICATE

(Bidders from India)

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and hereby certify that I am not from such a country.

OR (whichever is applicable)

(Bidders from Country which shares a land border with India)

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and hereby certify that I from ______ (Name of Country) and has been registered with the Competent Authority. I also certify that I fulfil all the requirements in this regard and is eligible to be considered. (Copy/ evidence of valid registration by the Competent Authority is to be attached)

Place: Date: Signature of the Tenderer Name & Address of the Tenderer with Office Stamp