

INDIAN INSTITUTE OF TECHNOLOGY MADRAS Chennai 600 036

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Date: 10.01.2024

The Senior Manager (Project Purchase)

Open Tender Reference No: GTB17/PRAS/2024/04/ELEBASESUP

GEM NAR ID: GEM/GARPTS/10012024/RENXYQ13JRDT Due Date/Time: 08.02.2024 @ 3:00 PM

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, digitally signed online bids are invited in two bid system from Class-I & Class II and Non local suppliers, for the supply of: "Electromagnet with Rotation Base and Power Supply" 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 Vendors". [Special Instructions to the Vendors / Bidders for the e-submission 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.

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

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

Last date for receipt of tender	:	08.02.2024 @ 3:00 PM
Date & time of opening of tender	••	09.02.2024 @ 3:00 PM

3. Instructions to the Bidder:

A)	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.
B)	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]
C)	Enrollment Process	:	REGISTRATION
	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".
D)	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.
E)	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 file of compliance sheet. More information useful for submitting online bids on the CPP Portal may be obtained at: https://etenders.gov.in/eprocure/app. 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.
F)	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.
G)	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 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 in net per unit (after breakup) and must include all packing, transit insurance and delivery charges to the **Department of Physics.**
- **b**) The offer/bid should be exclusive of taxes and duties. The percentage of tax & duties should be clearly indicated separately.
- c) In the case of import supply, the price should be quoted without custom duty. IIT Madras is eligible for concessional custom duty (not exceeding 5.5%) and the price should be quoted with detailed break up on EX-WORKS and CIP (stating the Cost, Insurance, Freight separately and other charges in detail etc.,) and indicating the mode of shipment. IIT M ICSR will provide all necessary documents for customs clearance of consignment including Customs Duty Exemption certificate etc.
- d) 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.
- e) The offer/bids should be submitted through online only in two bid system i.e. Technical Bid and Financial Bid separately.

6) Agency Commission:

Agency commission, if any, will be paid to the Indian agents in rupees after receipt of the equipment and its satisfactory installation. Agency Commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in the tender document even in the case of 'Nil' commission. The tenderer should indicate the percentage of agency commission to be paid to the Indian agent. The Foreign Principal should indicate the percentage of payment and it should be included in the basic price quoted originally (if any).

7) 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.

8) Terms of Delivery:

Import Purchase – Responsibility of carriage of goods will be governed by Incoterms.

Domestic Purchase –Supplier will be fully responsible for the safe carriage, Installation/Commissioning of goods up to the **Department of Physics**, 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 Exclusive Purchase 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.
9)	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.
10)	EMD: The EMD of Rs.22,000 to be transferred to the account details mentioned in Annexure I 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)
11)	Performance Security: -
	The successful bidder should submit Performance Security for an amount of 5% of the basic invoice 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.
12)	 Indian agent: If an Indian agent is involved, the following documents must be enclosed. (i) Foreign Principal's pro-forma invoice indicating the commission payable to the Indian Agent and nature of after-sales service to be rendered by the Indian Agent. (ii) A Copy of the agency agreement with the foreign principal and the precise relationship between them.
	(iii) 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.
13)	The offers/bids should be sent only for an Item/Equipment 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
14)	Original catalogue (not any photocopy) of the quoted model duly signed by the principals must accompany the quotation in the Technical bid.
15)	Compliance or Confirmation report with reference to the specifications and other terms & conditions should also be obtained from the Principal/OEM.
16)	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.
17)	Payment:
	(i) No Advance payment will be made. However, 90% Payment after supply and 10% after installation are agreed to wherever the installation is involved. In the case of import supplies, the payment will be made only through 100% Letter of Credit i.e. (90% payment will be released against shipping documents and 10% after successful installation wherever the installation is being done)
	(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.
18)	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.
19)	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 the date of Installation.
20)	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.
21)	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.
22)	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. a. The Applicable Law: The Purchase Order shall be construed, interpreted and governed by the 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.

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.

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.

24) Eligibility Criteria:

- > As per the Government of India Order, only "Class I & II" and "Non Local suppliers" can participate in this tender.
- Bidder should confirm their acceptance that they comply with the provisions with report to "Guidelines for eligibility of a bidder from a country which shares a land border with India as detailed at Annexure-E. The bidder should submit Certificate for "Bidder from/
 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 and No.F.7/10/2021-PPD(1) dated 23.02.2023.
- > Selection of Successful bidder and Award of Order Evaluation and Award of contract will be done as per GOI 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 and latest orders if any issued by Govt. of India.
- Preference to "class I Local Suppliers": preference will be given to "class 1 local suppliers" (subject 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-D 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-D per item/service/work.
 - ➤ 'Non local supplier' means a supplier or service provider whose goods, services or works offered for procurement consists of local content less than 20% as defined under the above said order.
 - ➤ '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
26)	Evaluation of Bids 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 Electromagnet with rotation base and power supply unit will alone be taken up for arrival of Lowest Bid (L1) value. Bid prices expressed in different currencies shall be converted to INR as per the prevailing Central Board of Indirect Taxes & Customs(CBIC) exchange rate on the date of opening of price bid
25)	In accordance to the Rule 173 of GFR,2017 and relevant provisions thereof in Procurement Manuals,
27)	2022,IC&SR, IITM reserves the right to carry out the negotiation process through its purchase/technical
	committee with L1/H1 (as applicable) vendor to ensure price reasonability before final recommendation
	to the Competent Authority. The negotiation details, if any, on case to case basis shall be recorded in
	minutes of meetings suitably for records.
28)	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.
29)	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.
30)	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.
31)	Clarification to the queries and doubts raised by the bidders will be issued as a corrigendum/addendum in the e-tenders portal.
32)	In the e-tender process, participation of bidders after the due date is not possible. The eligible bidders can login to the e-Procurement portal to ascertain the tender status.

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 Electromagnet with Rotation Base and Power Supply

Tender No. GTB17/PRAS/2024/04/ELEBASESUP

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.

Participation of Non-local supplier may be subject to the limitation provided in para 4 (Exemption of Small Purchases) of DPIIT circular No. P-45021/2/2017-PP(BE-II) Dt 16.Sep.2020 (ANNEXURE – D)

Bidder Eligibility Criteria – II

- 1. Vendor Registration ID/Proof.
- 2. Land Border Certificate (ANNEXURE E)
- 3. **OEM Certificate Form**-The Participating Bidder's firm shall be the Original Equipment Manufacturer (OEM) or OEM Certified authorized firm (**ANNEXURE F**)
- 4. Non- Debarment Declaration (ANNEXURE H)
- 5. Mandate Form (ANNEXURE J)
- 6. EMD as per Tender to be remitted in the Account number as given in the **ANNEXURE I** or 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).

III. Technical Specification for Electromagnet with Rotation Base and Power Supply

S. No	Specifications	Requirements
1	PART-1: Electromagnet	The price should be individually quoted.
1.1	Electromagnet Height	Should be <100 cm
1.2	Electromagnet Depth	Should be <100 cm
1.3	Electromagnet Width	Should be <100 cm
1.4	Electromagnet Frame size	Should be smaller than 100 cm X100 cm X 100 cm
1.5	Frame Material	Nonmagnetic Aluminum Profile
1.6	Total Weight including Frame	< 350 kg
1.7	Frame Wheel	Wheels should be provided for Frame motion with the electromagnet
1.8	Frame	The frame should be compatible for use along with a rotation base. The frame should be attachable (or detachable) with suitable screws on a rotation base.
1.9	Pole Pieces	2No, easily removable/replaceable Pole pieces

		(i) One Flat pole piece with >=100 mm (ii) Tapered pole piece
1.10	Coil Separation (Coil Gap)	Greater than 130 mm or adjustable
1.11	Airgap (Pole gap)	Continuously adjustable from 0 to 100 mm or higher
1.12	Yoke Construction	U-Shaped, Single-yoke electromagnet
1.13	Yoke Material	Soft Iron or high permeability alloy
1.14	Mounting	Mounted on an aluminum Profile stand.
1.15	Cooling	Water-cooled for continuous operation for more than 4 hours.
1.16	Maximum Magnetic Field Intensity	5000 Gauss for an air gap (Pole gap) of 55 mm with a flat pole
1.17	Uniformity	Magnetic Field should be uniform over 5 cm ³ or higher volume
1.18	Stability of magnetic field	<0.005%
2	PART- 2: Bipolar power supply	The price should be individually quoted.
2.1	Bipolar Power Supply should be compatible and tested with the electromagnet.	Should demonstrate compatibility during installation.
2.2	Input requirement	220 VAC, 50 Hz, single phase.
2.3	Output	Constant current Bipolar with continuous variation through zero
2.4	Output voltage	As required by the coil.
2.5	Output current	As required by coil for 0.5T at 55 mm pole gap. Output current should be continuously variable from negative max through zero (0) to positive max.
2.6	Resolution:	Less than 0.1 Amps
2.7	Stability	0.005% up to ≥8 hrs.
2.8	Over temperature protection	Coil-over temperature protection should be provided
2.9	Power failure protection	Sudden power failure protection should be provided.
2.10	Protection	1-MCB and HRC fuses in the input should be provided. 2-Output should be protected against overload and short circuits. 3-Output Over voltage/current trip protection should be provided

2.11	Metering Display	One digital voltmeter and one ammeter to monitor output voltage and current simultaneously should be provided. The display should have 3-1/2 digits or better.
2.12	Remote Monitoring	GPIB port or USB port should be available for remote monitoring
2.13	External programming	The power supply should be able to be controlled and monitored via the GPIB or USB interface. Output Polarity and current value should be controllable remotely via external programming.
2.14	Software and interface	LabVIEW driver or software should be provided for computer control
2.15	Cables and Accessories	All necessary power and interface cables and accessories should be provided
2.16	Power supply size	Should be compact. (Less than 100 cm X 100 cm X 100 cm)
2.17	Weight	Less than 125 kg
3	Part-3: Rotating base	The price should be individually quoted.
3.1	Rotating Base	A detachable rotating base with suitable mounting screws should be provided to mount the heavy electromagnet.
3.2	Rotation	360-degree rotation
3.3	Resolution	1 degree
3.4	Control	Both manual and stepper motor rotation should be possible
3.5	Stepper motor controller	A stepper motor controller should be provided for computer control of the rotation stage.
3.6	Ports for remote control	GPIB or USB port should be available for remote control and monitoring of the stepper motor controller.
3.7	Software and interface	Necessary LabView drivers and software should be provided.
3.8	Cables and Accessories	All necessary power and interface cables and accessories should be provided
	Other specification	
4	Warranty	2 years for all components and accessories
5	Installation kit	An installation kit (including wrenches and setup tools) should be provided.
6	User manuals and technical manuals	User manuals and technical manuals with detailed drawings must be provided.

OPTIONAL PARTS

	PART-4	The price should be individually quoted.
4.1	Hall probe/monitor:	220 1/4 C 70 1/4 1 1
4.1	Input requirement	220 VAC, 50 Hz, single phase.
4.2	Magnetic Field Range	Up to 5 Tesla or higher
4.3	Resolution:	1.0 gauss ac/dc or smaller
4.4	Response time:	1000 sample/sec or better
4.5	Accuracy error:	99% of reading or better
4.6	Display:	6 digits led or better
4.7	Size	Portable or Compact and rack-mountable
4.8	Hall probe	Transverse probe rectangular with fixtures
4.9	Ports for remote control	GPIB or USB port should be available for remote control and monitor
4.10	Cables and Accessories	All necessary power and interface cables and accessories should be provided
4.11	Software and interface	Necessary LabView drivers and software should be provided.
	PART-5 Water cooling (Chiller)	The price should be individually quoted.
5.1	Input requirement	220 VAC, 50 Hz, single phase.
5.2	Size	Should be compact for indoor use
5.3	Water tubing and fitting	All water tubing and fitting should be provided.
5.4	Water circulation	A suitable water pump should be provided for water circulation.
5.5	Water chiller cooling capacity	2.5 kW or higher
5.6	Water flow rate	7.6 L/min or higher
5.7	Water inlet temperature	10 °C to 15 °C

TECHNICAL BID PROFORMA Tender No. GTB17/PRAS/2024/04/ELEBASESUP

Item Name: Electromagnet with Rotation Base and Power Supply Bidder Eligibility Criteria:

1.0

I	Bidder Eligibility Criteria-I (Public Procurement – Preference to Make in India)	Class I / Class II and Non- Local Suppliers	Local Content Percentage	Ref. Page No.
I	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. Participation of Non local supplier may be subject to the limitation provided in para 4 (Exemption of Small Purchases) of DPIIT circular No.P-45021/2/2017-PP(BE-II) Dt 16.Sep.2020 (ANNEXURE – D)			

II	Bidder Eligibility Criteria-II	Complied/Not Complied	Ref. Page No.
1	Vendor Registration ID/Proof		
2	Land Border Certificate (ANNEXURE – E)		
3	OEM Certificate Form -The Participating Bidder's firm shall be the Original Equipment Manufacturer (OEM) or OEM Certified authorized firm (ANNEXURE – F)		
4	Non- Debarment Declaration (ANNEXURE – H).		
5	Mandate Form (ANNEXURE – J)		
6	EMD as per Tender to be remitted in the Account number as given in the ANNEXURE I or 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).		

3.0Technical Compliance:

S. No	Specifications	Requirements	Complied/Not Complied	Ref. Page No.
1	PART-1: Electromagnet	The price should be individually quoted.		
1.1	Electromagnet Height	Should be <100 cm		
1.2	Electromagnet Depth	Should be <100 cm		
1.3	Electromagnet Width	Should be <100 cm		
1.4	Electromagnet Frame size	Should be smaller than 100 cm X100 cm X 100 cm		
1.5	Frame Material	Nonmagnetic Aluminum Profile		
1.6	Total Weight including Frame	<350 kg		
1.7	Frame Wheel	Wheels should be provided for Frame motion with the electromagnet		
1.8	Frame	The frame should be compatible for use along with a rotation base. The frame should be attachable (or detachable) with suitable screws on a rotation base.		
1.9	Pole Pieces	2No, easily removable/replaceable Pole pieces (i) One Flat pole piece with >=100 mm (ii) Tapered pole piece		
1.10	Coil Separation (Coil Gap)	Greater than 130 mm or adjustable		
1.11		Continuously adjustable from 0 to 100 mm or higher		
1.12	Yoke Construction	U-Shaped, Single-yoke electromagnet		
1.13	Yoke Material	Soft Iron or high permeability alloy		
1.14	Mounting	Mounted on an aluminum Profile stand.		
1.15	Cooling	Water-cooled for continuous operation for more than 4 hours.		
1.16	Maximum Magnetic Field Intensity	5000 Gauss for an air gap (Pole gap) of 55 mm with a flat pole		
1.17	Uniformity	Magnetic Field should be uniform over 5 cm ³ or higher volume		

1.18	Stability of magnetic field	<0.005%	
2	PART- 2:Bipolar power supply	The price should be individually quoted.	
2.1	Bipolar Power Supply should be compatible and tested with the electromagnet.	Should demonstrate compatibility during installation.	
2.2	Input requirement	220 VAC, 50 Hz, single phase.	
2.3	Output	Constant current Bipolar with continuous variation through zero	
2.4	Output voltage	As required by the coil.	
2.5	Output current	As required by coil for 0.5T at 55 mm pole gap. Output current should be continuously variable from negative max through zero (0) to positive max.	
2.6	Resolution:	Less than 0.1 Amps	
2.7	Stability	0.005% up to ≥ 8 hrs.	
2.8	Over temperature protection	Coil-over temperature protection should be provided	
2.9	Power failure protection	Sudden power failure protection should be provided.	
2.10	Protection	1-MCB and HRC fuses in the input should be provided. 2-Output should be protected against overload and short circuits. 3-Output Over voltage/current trip protection should be provided	
2.11	Metering Display	One digital voltmeter and one ammeter to monitor output voltage and current simultaneously should be provided. The display should have 3-1/2 digits or better.	
2.12	Remote Monitoring	GPIB port or USB port should be available for remote monitoring	
2.13	External programming	The power supply should be able to be controlled and monitored via the GPIB or USB interface. Output Polarity and current value should be controllable remotely via external programming.	

2.14	Software and	LabVIEW driver or software should be	
	interface	provided for computer control	
2.15	Cables and	All necessary power and interface cables and	
2.1.5	Accessories	accessories should be provided	
2.16	Power supply size	Should be compact. (Less than 100 cm X	
		100 cm X 100 cm)	
2.17	Weight	Less than 125 kg	
3	PART-3: Rotating base	The price should be individually quoted.	
3.1	Rotating Base	A detachable rotating base with suitable	
		mounting screws should be provided to	
		mount the heavy electromagnet.	
3.2	Rotation	360-degree rotation	
3.3	Resolution	1 degree	
3.4	Control	Both manual and stepper motor rotation	
		should be possible	
3.5	Stepper motor	A stepper motor controller should be	
	controller	provided for computer control of the rotation	
		stage.	
3.6	Ports for remote	GPIB or USB port should be available for	
	control	remote control and monitoring of the stepper	
		motor controller.	
3.7	Software and	Necessary LabView drivers and software	
	interface	should be provided.	
3.8	Cables and	All necessary power and interface cables and	
	Accessories	accessories should be provided	
	Other specification		
4	Warranty	2 years for all components and accessories	
5	Installation kit	An installation kit (including wrenches and	
		setup tools) should be provided.	
		_	
6	User manuals and	User manuals and technical manuals with	
	technical manuals	detailed drawings must be provided.	
<u> </u>			

OPTIONAL PARTS

S. No	Specifications	Requirements	Complied/Not Complied	Ref. Page No.
	PART-4 Hall probe/monitor:	The price should be individually quoted.		
4.1	Input requirement	220 VAC, 50 Hz, single phase.		

4.2	Magnetic Field Range	Up to 5 Tesla or higher	
4.3	Resolution:	1.0 gauss ac/dc or smaller	
4.4	Response time:	1000 sample/sec or better	
4.5	Accuracy error:	99% of reading or better	
4.6	Display:	6 digits led or better	
4.7	Size	Portable or Compact and rack-mountable	
4.8	Hall probe	Transverse probe rectangular with fixtures	
4.9	Ports for remote control	GPIB or USB port should be available for remote control and monitor	
4.10	Cables and Accessories	All necessary power and interface cables and accessories should be provided	
4.11	Software and interface	Necessary LabView drivers and software should be provided.	
	PART-5 Water cooling (Chiller)	The price should be individually quoted.	
5.1	Water cooling (Chiller) Input	The price should be individually quoted. 220 VAC, 50 Hz, single phase.	
5.1	Water cooling (Chiller)		
	Water cooling (Chiller) Input requirement	220 VAC, 50 Hz, single phase.	
5.2	Water cooling (Chiller) Input requirement Size Water tubing	220 VAC, 50 Hz, single phase. Should be compact for indoor use	
5.2	Water cooling (Chiller) Input requirement Size Water tubing and fitting Water circulation Water chiller cooling capacity	220 VAC, 50 Hz, single phase. Should be compact for indoor use All water tubing and fitting should be provided. A suitable water pump should be provided for water circulation. 2.5 kW or higher	
5.2 5.3 5.4	Water cooling (Chiller) Input requirement Size Water tubing and fitting Water circulation Water chiller cooling	220 VAC, 50 Hz, single phase. Should be compact for indoor use All water tubing and fitting should be provided. A suitable water pump should be provided for water circulation.	

SIGNATURE OF BIDDER ALONG WITH SEAL OF THE COMPANY WITH DATE

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

Item Name: Electromagnet with Rotation Base and Power Supply Tender No. GTB17/PRAS/2024/04/ELEBASESUP

It. No	Description of work	Quantity	Currency	Unit Rate Ex-Works	CIP / GST charges in value	Total (A+B)
				(A)	(B)	
1	PART-1 Electromagnet with 2 years warranty	1 No.	INR/USD EUR/CAD /JPY/GBP			
2	PART- 2 Bipolar power supply with 2 years warranty	1 No.	INR/USD EUR/CAD /JPY/GBP			
3	PART-3 Rotating base with 2 years warranty	1 No.	INR/USD EUR/CAD /JPY/GBP			
4	PART-4 (Optional Items) Hall probe/monitor with 2 years warranty	1 No.	INR/USD EUR/CAD /JPY/GBP			
5	PART-5 (Optional Items) Water cooling (Chiller) with 2 years warranty	1 No.	INR/USD EUR/CAD /JPY/GBP			
	Grand Total					

Note:

- 1. Price bid as per this format to be uploaded only at the financial document column in CPP Portal. Price disclosure at the technical bid will result in disqualification
- 2. Technical Bid Should NOT Contain Price Bid/Financial Bid details (or) Indication. If the price Details are indicated, mentioned inside the Technical bid, then bid will be disqualified and neither the Technical Bid nor the Price Bid/Financial Bid will be considered.
- 3. The Value mentioned for Optional items, if any, will not be considered for arriving L1 vendor.

I/We the bidder accept all the terms and conditions as per tender including all technical & commercial conditions.

Date:	Authorized Signatory
Place:	
	Seal and signature

FORMAT FOR AFFIDAVIT OF SELF-CERTIFICATION UNDER PREFERENCE TO MAKE IN INDIA – PER ITEM This letter should be on the letterhead of the quoting firm and should be signed by a competent authority. Non-

submission of this will lead to Disqualification of bids.

Tender Reference Number:
Name of the item / Service:
Date: I/WeS/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.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 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.
[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.
I/We [name of the manufacturer] hereby confirm in respect of quoted items that Local Content is less than 20% come under 'Non – Local Supplier' category
The details of the location (s) at which the local value addition is made and the proportionate value of local content in percentage
Address Percentage of Local content:%
For and on behalf of(Name of firm/entity)
Authorized signatory (To be duly authorized by the Board of Directors) <insert and="" contact="" designation="" name,="" no.=""></insert>
[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.

(To be given on	the letter head of the bidder)
No	Dated:
	CERTIFICATE
(Bio	dders from India)
I have read the clause regarding restrictions of land border with India and hereby certify that	on procurement from a bidder of a country which shares a it I am not from such a country.
OR (wh	ichever is applicable)
(Bidders from Country w	which shares a land border with India)
land border with India and hereby certify the has been registered with the Competent Aut	on procurement from a bidder of a country which shares a nat I from (Name of Country) and thority. I also certify that I fulfil all the requirements in this Copy/ evidence of valid registration by the Competent
Place: Date:	Signature of the Tenderer Name & Address of the Tenderer with Office Stamp

OEM CERTIFICATION FORM (In Original Letter Head of OEM)

Tender No:						Dated:			••		
We	are Origin	al Equipment	Manufacturers	(OEM) of.					(Nan	ne of	
the o	company)	Ms	•••••			(Na	me	of the ve	ndor) is	one	
of	our	Distributors/D	ealers/Reselle	ers/Partners	S	(tick		one)	for	the	
			•••••			and	is	participa	ting in	the	
abov	ve-menti	oned	tender	by	offe	ring		our	pro	oduct	
mod	lel		(Name	of the prod	luct w	ith mo	ode	l number)			
					is	auth	oriz	ed to bid,	, sell ar	nd provid	le
		rt warranty for								•	
as m	nentioned	above.									

Name and Signature of the authorized signatory of OEM along with seal of the company with Date

<u>TENDER CHECKLIST – Mandatory to be filled and sent (inside the Main Bid Cover) along with Bidding Document.</u>

(1)	I have registered as a Vendor with IC&SR. (Proof to be enclosed) (ISO certificate, Active GSTIN certificate, valid PAN details)	
(2)	Technical bid cover and Financial Bid cover to be submitted separated.	
(3)	Completed and Signed Form of Tender . The Form of Tender document shall be signed by a person legally authorized.	
(4)	Completed Technical Compliance Statement	
(5)	Certification of Class I / Class II (As a part of technical bid) per item / service / work as per (Annexure – D)	
(6)	EMD (Ref. tender document pg.no. 6, Point no.10, Annexure – I)	
(7)	Land Border (Annexure – E)	
(8)	Authorized agent certificate from OEM is mandatory if Indian agent/Indian office of OEM is participating in this tender on behalf of OEM. (Ref. tender document pg.no. 6, Point no.11) (Annexure F)	
	he bid will be valid only if all the above documents are provided. Bidders are ked to supply and tick off the required information. Failure to provide any of	

the stated documents may result in the bid being considered as non-compliant

and rejected.

Signature of the Bidder

FORM - A NON- DEBARMENT DECLARATION

Date: XXXX

To.

The Indian Institute of Technology Madras,

Sardar Patel road,

Guindy, Chennai - 600036

Dear Sir,

- a. We are not involved in any major litigation that may have an impact of affecting or compromising the delivery of services as required under this assignment.
- b. We are not debarred by any Central/ State Government/ agency of Central/ State Government of India or any other country in the world/ Public Sector Undertaking/ any Regulatory Authorities in India or any other country in the world for any kind of fraudulent activities in last XX years.

Sincerely,

[BIDDERS NAME]

Name

Title Signature



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
Permanent Account Number	
(PAN)*	AAAAI3615G
GST REGISTERATION NO.	33AAAAI3615G1Z6
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	
IFSC CODE	CNRB0002722	
SWIFT CODE	CNRBINBBIIT	
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.

उप कुलसचित (आई.सी. एवं एस.आर.) DEPUTY RECASTRAR (IC.& SR.) आई.आइ.टी. मदास. चेन्ने I.I.T. MADRAS, CHENNAI - 600 036.

Phone: +91 (0) 44 2257 8062 / 8061 / 8060 Fax: +91 (0) 44 2257 0545 / 2257 8366

email : deanicsr@iitm.ac.in website : http://www.iitm.ac.in

MANDATE FORM

ELECTRONICS CLEARING SERVICE (CREDIT CLEARING)/REAL TIME GROSS SETTLEMENT (RTGS) FACILITY FOR RECEIVING PAYMENTS.

COMPLETE CONTACT ADDRESS	
TELEPHONE NUMBER/FAX/E MAIL	
BANK ACCOUNT DETAILS:-	
BANK NAME	
BRANCH NAME WITH COMPLETE ADDRESS, TELEPHONE NUMBER AND EMAIL	
WHETHER THE BRANCH IS COMPUTERISED?	
WHETHER THE NRANCH IS RTGS ENABLED? IF YES, THEN WHAT IS THE BRANCH IFSC CODE	
IS THE BRANCH ALSO NEFT ENABLED?	
TYPE OF BANK ACCOUNT(SB/CURRENT/CASH CREDIT)	
COMPLETE BANK ACCOUNT NUMBER(LATEST)	
MICR CODE OF BANK	
I hereby declare that the particulars given above are correct and comp	•
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effected at all for reasons of incomplete or incorrect information I would have read the option invitation letter and agree to discharge responsibing Scheme. Date: Certified that the particulars furnished above are correct as per our records. (Bank's Stamp)	(Signature of Custon Signature of Custon Verification obtained from the bank.

Department at earliest.

27 | Page