

INDIAN INSTITUTE OF TECHNOLOGY MADRAS Chennai 600 036

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Date: 14.02.2023

The Manager (Project Purchase)

Open Tender Reference No: ME/SAMU/02/IOE23/GONIOMETER

GEM NAR ID: GEM/GARPTS/10022023/NWKB1YP75DWI Due Date/Time: 01.03.2023@ 3:00 PM

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 "Contact Angle Goniometer" 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 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.

	Pre-bid Meeting	:	NA
<u>1)</u>	Details		
<u>2)</u>	ICSR Vendor	:	<u>Vendor registration code</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	:	01.03.2023 @ 3:00 PM
Date & time of opening of tender	:	02.03.2023 @ 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.
<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 to Bidders The state of the stat	:	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
<u>E)</u>	Submission of bids	:	 for bid submission process. 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.
<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
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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 ent of **Department of Mechanical** 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. 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:** Supplier will be fully responsible for the safe carriage, Installation/Commissioning of goods up to the **Department of Mechanical 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: NA 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.

- 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.

23) Eligibility Criteria:

- > As per the Government of India Order, only "Class I Local Suppliers" and "Class II 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-F. 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 as mentioned.
- 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-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 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 "Contact Angle Goniometer" unit will alone be taken up for arrival of Lowest Bid (L1) value. 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. 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. The tenderer shall certify that 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 "Contact Angle Goniometer" Tender No. ME/SAMU/02/IOE23/GONIOMETER

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. The bidder/OEM should have supplied at least 5 similar items to IITS, NITS IISERS, CSIR Labs or other Govt. R&D organizations in the last 10 years. Purchase order copies or installation certificates with contact details of end user need to be submitted as the proof of supply. IIT Madras reserves its right to verify the claims submitted by the bidder and the feedback from the previous customers will be part of technical evaluation.
- 2. Company should be registered in India for last 3 year. Proof of company registration should be enclosed.
- 3. The bidder should have 10 lakhs turnover in any one of the last 3 Financial Year.
- 4. The service center should be within Chennai, Tamilnadu. Proof of facility location & contact details to be provided along with technical bid.

III. Technical Specification For Contact Angle Goniometer

	chinear opecification For Contact B	8		
1	Frame Type/Configuration type	Standard Frame for Fixing the Sample Stage, Light source, Sample dispenser, optics with Camera with Future upgradation provision.		
2	Contact Angle Measurement Methods	Sessile Drop with Static and dynamic measurements		
3	Contact Angle Measurement Range	0 - 180°		
4	Contact Angle Accuracy	±0.05° or Better		
5	Camera Type	High Speed C Mount CMOS		
6	Max Camera Speed and Recording capability	75 fps or Higher with static and continuous (dynamic) recording		
7	Image Resolution (In Pixel)	720×480 or Better		
8	Image Distortion	<0.1% or Better		
9	Substrate Stage Dimension	150 X 100 X 40 [(L X W X H) in mm] or better		

10	Liquid Sample Dispenser	Software controlled Automatic Liquid Dispensing with a Programmable Volume & PC- controlled Dispensing speed Range 0.038-16 microliter or better.		
11	Liquid Syringe Dispenser Volume	250 micro liter or higher.		
12	Surface Free Energy Measurement Methods	Surface Free Energy of Solid Substrates Measurement with more than 10 methods (Van Oss Acid Base, Acid-Base, Zisman, Extended Fowkes, Equation of state, Wu, Schultz 1, Schultz 2 and others) More than 100 Liquid & Solid Database		
13	Surface Tension and Interfacial Tension Measurements	Surface Tension and Interfacial Tension of Liquid Calculation by Pendant Drop Method and should be supplied with Pendent Drop Kit.		
14	Surface & Interfacial Tension measurement range	0.01 – 1000 mN/m, Surface & Interfacial Tension measurement resolution: 0.01 mN/m		
15	PC-controlled Substrate Stage Tilting	PC-controlled Substrate Stage Tilting up to 90° with Resolution of 0.1° or better along with Contact Angle Hysteresis Calculation		
16	Computer Desktop	Core i5 processor/240 GB SSD/12 GB RAM/USB 3.0 with all necessary connectivity ports to connect the goniometer and accessories		

Other Important Features:

1. User Friendly Windows°10 compatible PC Software
2. Measurement & Display of Left, Right & Average Contact Angles
3. Measurement on Flat Surface [Even, Uneven, Rough, Semi-transparent & Reflecting.
4. Auto-detection of Baseline with Fine Adjustment Provision.
5. Auto Detection of Baseline-Liquid Droplet Contact Points.
6. Both Auto & Manual Edge- Detection of with High Precision
7. Half Angle Fitting, Circle Fitting, Ellipse Fitting & Tangent Method for Contact Angle Analysis.
8. Image Saving & Loading option with Experimental Data.
9. Image Comparison Feature.
10. Original &Analyzed Image Export option.

- 11. Offline Processing & Analysis option.
- 12. Experimental Data Export Option

The system should be upgradable in future with the following add-on modules/Components

- a. XYZ Manual Stage Movement Module along X axis 80 mm, Y axis 80 mm & Z axis 40 mm or better.
- b. Stage Heating Module upto 200°C or better
- c. Zoom Lens: 10X or more
- d. Provision of Video module
- e. Advancing & Receding Angle Measurement modules
- f. Captive Bubble Measurement module for the measurement of Contact Angle for Hydrophilic samples
- g. Measurement of Contact Angle for Curve Surface

S.NO	Other Requirements
1	Quotations with the complete solution for the above requirement will only be accepted.
2	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
3	The offer/bids should be sent only for a machine that is available in the market and supplied to a number of customers. Quotations for a prototype machine will not be accepted.
4	Test certificates for all the stages confirming the specifications from OEM are required with shipping/freight documents.
5	Suppliers to provide training for programming, operation and maintenance at IIT Madras at free of cost.
6	All necessary safety regulations such as CE compliance, low voltage directive, EMC regulations compliance details, Alarms and emergency switch off in case of any malfunctioning must be provided. The system must be equipped with all the necessary safety interlocks. Provisions for safety wear are essential.
7	The complete system and its associated hardware should have a standard warranty of 1 year or more from the date of installation, commissioning and acceptance of the system at IIT madras. Suppler modification (s)/software upgrades shall be intimated and the same will be made available free of cost during the warranty period.
8	All technical literature/catalogues and drawings of various systems should accompany the quotation. All the documents should be in English.
9	Installation and commissioning should be provided by the supplier or its Indian agent. The Indian agent should have well proven service capability on similar systems with factory trained service engineers available in India. Details of their engineers expertise should be enclosed along with the offer and will be a key factor in the decision making.
10	The system should have compatibility with Indian environment conditions (for better power/energy stability)

TECHNICAL BID PROFORMA Tender No. ME/SAMU/02/IOE23/GONIOMETER

Item Name: "Contact Angle Goniometer"

Bidder Eligibility Criteria:

1.0	Bidder Eligibility Criteria-I (Public Procurement – Preference to Make in India)	Class I / Class II	Local Content value	Reference, 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 16 th September 2020 and other subsequent orders issued therein.			
2.0	Bidder Eligibility Criteria-II	Compliance (Yes/No)	Reference Page No.	Remarks, If any
1	The bidder/OEM should have supplied at least 5 similar items to IITS, NITS IISERS, CSIR Labs or other Govt. R&D organizations in the last 10 years. Purchase order copies or installation certificates with contact details of end user need to be submitted as the proof of supply. IIT Madras reserves its right to verify the claims submitted by the bidder and the feedback from the previous customers will be part of technical evaluation.			
2	Company should be registered in India for last 3 year. Proof of company registration should be enclosed.			
3	The bidder should have 10 lakhs turnover in any one of the last 3 Financial Year.			
4	The service center should be within Chennai, Tamilnadu. Proof of facility location & contact details to be provided along with technical bid.			

3.0 Technical Compliance:

S.NO	Specification			Reference Page No
1	Frame Type/Configuration type	Standard Frame for Fixing the Sample Stage, Light source, Sample dispenser, optics with Camera with Future upgradation provision.		
2	Contact Angle Measurement Methods	Sessile Drop with Static and dynamic measurements		
3	Contact Angle Measurement Range	0 - 180°		

4	Contact Angle Accuracy	±0.05° or Better	
5	Camera Type	High Speed C Mount CMOS	
6	Max Camera Speed and Recording capability	75 fps or Higher with static and continuous (dynamic) recording	
7	Image Resolution (In Pixel)	720×480 or Better	
8	Image Distortion	<0.1% or Better	
9	Substrate Stage Dimension	150 X 100 X 40 [(L X W X H) in mm] or better	
10	Liquid Sample Dispenser	Software controlled Automatic Liquid Dispensing with a Programmable Volume & PC- controlled Dispensing speed Range 0.038-16 microliter or better.	
11	Liquid Syringe Dispenser Volume	250 micro liter or higher.	
12	Surface Free Energy Measurement Methods	Surface Free Energy of Solid Substrates Measurement with more than 10 methods (Van Oss Acid Base, Acid-Base, Zisman, Extended Fowkes, Equation of state, Wu, Schultz 1, Schultz 2 and others) More than 100 Liquid & Solid Database	
13	Surface Tension and Interfacial Tension Measurements	Surface Tension and Interfacial Tension of Liquid Calculation by Pendant Drop Method and should be supplied with Pendent Drop Kit.	
14	Surface & Interfacial Tension measurement range	0.01 – 1000 mN/m, Surface & Interfacial Tension measurement resolution: 0.01 mN/m	

15	PC-controlled Substrate Stage Tilting	PC-controlled Substrate Stage Tilting up to 90° with Resolution of 0.1° or better along with Contact Angle Hysteresis Calculation	
16	Computer Desktop	Core i5 processor/240 GB SSD/12 GB RAM/USB 3.0 with all necessary connectivity ports to connect the goniometer and accessories	

S.NO	Other Important Features:	Complied/Not Complied	Reference Page No
1.	User Friendly Windows°10 compatible PC Software		
2	Measurement & Display of Left, Right & Average Contact Angles		
3.	Measurement on Flat Surface [Even, Uneven, Rough, Semitransparent & Reflecting		
4.	Auto-detection of Baseline with Fine Adjustment Provision.		
5.	Auto Detection of Baseline-Liquid Droplet Contact Points.		
6.	Both Auto & Manual Edge- Detection of with High Precision		
7.	Half Angle Fitting, Circle Fitting, Ellipse Fitting & Tangent Method for Contact Angle Analysis.		
8.	Image Saving & Loading option with Experimental Data.		
9.	Image Comparison Feature.		
10.	Original &Analyzed Image Export option.		
11.	Offline Processing & Analysis option.		
12.	Experimental Data Export Option		

The system should be upgradable in future with the following add- on modules/Components	Complied/Not Complied	Reference Page No
a. XYZ Manual Stage Movement Module along X axis 80 mm, Y axis 80 mm & Z axis 40 mm or better.		
b. Stage Heating Module upto 200°C or better		
c. Zoom Lens: 10X or more		
d. Provision of Video module		
e. Advancing & Receding Angle Measurement modules		
f. Captive Bubble Measurement module for the measurement of Contact Angle for Hydrophilic samples		
g. Measurement of Contact Angle for Curve Surface		

S.NO	Other Requirements	Complied/N ot Complied	Reference Page No
1	Quotations with the complete solution for the above requirement will only be accepted.		
2	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.		
3	The offer/bids should be sent only for a machine that is available in the market and supplied to a number of customers. Quotations for a prototype machine will not be accepted.		
4	Test certificates for all the stages confirming the specifications from OEM are required with shipping/freight documents.		
5	Suppliers to provide training for programming, operation and maintenance at IIT Madras at free of cost.		
6	All necessary safety regulations such as CE compliance, low voltage directive, EMC regulations compliance details, Alarms and emergency switch off in case of any malfunctioning must be provided. The system must be equipped with all the necessary safety interlocks. Provisions for safety wear are essential.		
7	The complete system and its associated hardware should have a standard warranty of 1 year or more from the date of installation, commissioning and acceptance of the system at IIT madras. Suppler modification (s)/software upgrades shall be intimated and the same		

	will be made available free of cost during the warranty period.	
8	All technical literature/catalogues and drawings of various systems should accompany the quotation. All the documents should be in English.	
9	Installation and commissioning should be provided by the supplier or its Indian agent. The Indian agent should have well proven service capability on similar systems with factory trained service engineers available in India. Details of their engineers expertise should be enclosed along with the offer and will be a key factor in the decision making.	
10	The system should have compatibility with Indian environment conditions (for better power/energy stability)	

(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: Contact Angle Goniometer Tender No. ME/SAMU/02/IOE23/GONIOMETER

It. No	Description of work	Quantity	Units	Basic Rate in INR	GST in Percentage	Total Amount with taxes in INR
1	Contact Angle Goniometer	1	Nos.			
	Grand Total					

Total Amount Rupees in words	
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$\frac{FORMAT\ FOR\ AFFIDAVIT\ OF\ SELF-CERTIFICATION\ UNDER\ PREFERENCE\ TO\ MAKE\ IN}{INDIA-PER\ ITEM}$

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 that Local 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.				
• 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.]				

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.

Annexure – F

	(To be given on the letter head of the bidder)
No	Dated:
	CERTIFICATE
	(Bidders from India)
_	ng restrictions on procurement from a bidder of a country which shares a land ertify that I am not from such a country.
	OR (whichever is applicable)
(Bidde	rs from Country which shares a land border with India)
border with India and hereby registered with the Competen	ng restrictions on procurement from a bidder of a country which shares a land certify that I from (Name of Country) and has been that Authority. I also certify that I fulfil all the requirements in this regard and is a very 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