

INDIAN INSTITUTE OF TECHNOLOGY MADRAS Chennai 600 036

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Date: 04.05.2023

The Manager (Project Purchase)

Open Tender Reference No: CE/MANU/11/IOE23/PHCONMETERELE

GEM NAR ID: GEM/GARPTS/04052023/8NND3ZO7H7OI Due Date/Time: 17.05.2023@ 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 "pH, Conductivity Meter, Electrodes," 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 | | |
| 2) | TOOD II | | TI I A (I I I I I I I I I I I I I I I I |
| <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 | | 17.05.2023 @ 3:00 PM |
|----------------------------------|---|----------------------|
| Date & time of opening of tender | : | 18.05.2023 @ 3:00 PM |

3. Instructions to the Bidder:

| <u>A)</u> | Searching for tender documents | bidders to searce parameters could date, value, etc. tenders, wherein parameters such | s search options built in the CPP Portal, to facilitate the active tenders by several parameters. These include Tender ID, organization name, location, There is also an option of advanced search for the bidders may combine a number of search as organization name, form of contract, location, words etc. to search for a tender published on the |
|-----------|--|--|---|
| | | they may downl These tenders can This would enab | s have selected the tenders they are interested in, load the required documents / tender schedules. In be moved to the respective "My Tender" folder. The the CPP Portal to intimate the bidders through case there is any corrigendum issued to the tender |
| | | | d make a note of the unique Tender ID assigned n case they want to obtain any clarification / help sk. |
| <u>B)</u> | Assistance to bidders | conditions conta Inviting Authori indicated in the to • Any queries relating queries relating 24x7 CPP Portal | ating to the tender document and the terms and ined therein should be addressed to the Tender ty for a tender or the relevant contact person ender. ating to the process of online bid submission or to CPP Portal in general may be directed to the Helpdesk. The contact number for the helpdesk is 0120-4001002, 0120-4001005] |
| <u>C)</u> | Enrollment to Bidders The second sec | the Ce URL:https://d "Online Bidd free of charg As part of the choose a un accounts. Bidders are mobile numb be used for a Upon enroln valid Digita Certificates Authority rec eMudhra etc. Only one va note that the lend their DS Bidder then r entering their eToken. Possession o (DSC) in the | e enrolment process, the bidders will be required to ique username and assign a password for their advised to register their valid email address and bers as part of the registration process. These would my communication from the CPP Portal. Then, the bidders will be required to register their l Signature Certificate (Class II or Class III with signing key usage) issued by any Certifying cognized by CCA India (e.g. Sify / TCS / nCode / |

| | | | 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 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 |

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 Civil 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:

Supplier will be fully responsible for the safe carriage, Installation/Commissioning of goods up to the Department of Civil 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-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 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-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.
 - ➢ '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 | | | | |
| | 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 pH , Conductivity Meter, Electrodes , unit will alone be taken up for arrival of Lowest Bid (L1) value. | | | |
| 26) | Selection of successful bidder and Award of Order | | | |
| 20) | 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 tender is e-tender, the opening of the bids may be checked using the respective logins of the bidders. | | | |

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 pH, Conductivity Meter, Electrodes,

Tender No. CE/MANU/11/IOE23/PHCONMETERELE

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 supplier/vendor must be an original equipment manufacturer or an authorized agent/dealer/seller of the item. The vendor should have supplied at least 3 similar units at other IITs or NITs, or national laboratories and research centres (DRDO/CSIR/BARC/IGCAR), or R&D centres of reputed multinational companies, or globally recognized universities, in the last 5 years. PO copy, or performance certificate, along with contact details (name of the person incharge, email, and phone number) is to be provided.

III. Technical Specification For pH, Conductivity Meter, Electrodes,

(TWO Multiparameter metres, TWO pH electrodes, and FIVE Chloride electrodes)

| Sl.No. | Specifications |
|-----------|---|
| General | |
| 1 | Each piece of the instrument should have the capability of measuring pH, mV, temperature, ISE, conductivity, salinity, resistivity, and TDS. The equipment should have the following characteristics or better and should satisfy and demonstrate the performance criteria given in Section 2 |
| 2.1Hardw | vare, electrodes, solutions |
| 2.1.1 | Meter should be a benchtop type with a backlit LCD display |
| 2.1.2 | Two Meters with two pH electrodes, two conductivity/temperature probes and two electrode stands |
| 2.1.3 | Five chloride electrodes (9617BNWP Orion Ionplus Chloride combination Ion Selective electrode or equivalent) and filling solutions |
| 2.1.4 | Ionic Strength Adjustor solution (500 ml) for chloride electrodes |
| 2.1.5 | 1000 ppm chloride standard/calibration solution (1000 ml) |
| 2.1.6 | Connections: pH terminal – BNC; Temperature terminal - 2.5 mm diameter jack; must be compatible with the pH and chloride electrodes supplied |
| 2.1.7 | The meter should have a facility for storing at least 500 data sets |
| 2.1.8 | The meter should have a user-selectable visual and audio alarm |
| 2.1.9 | The meter should have pH measurement with a calibration facility with automatic buffer recognition options |
| 2.1.10 | The meter should be able to store and retrieve from memory previous calibration points, electrode slope and offset, and conductivity/TDS cell constants |
| 2.1.11 | The meter should have the facility to export data to a PC via RS-232 or USB |
| 2.1.12 | Operating power range: 220 V AC, 50 Hz |
| 2.2 Equip | ment Range |
| 2.2.1 | pH: 0 to 14 |
| 2.2.2 | mV: ±2000 mV |
| 2.2.3 | Ion: 0.001 to 20000 ppm |
| 2.2.4 | Conductivity: 0.05 to 500 mS |

| 2.2.5 | Temperature: 0 to 100°C | | | |
|----------------|---|---|--|--|
| 2.2.6 | TDS: 0.050 ppm to 500 ppt | | | |
| 2.2.6 | Resistivity: 2 Ω | to 20 MΩ | | |
| | iipment Resolutio | | | |
| 2.3.1 | pH: 0.1 pH or smaller | | | |
| 2.3.2 | mV: 1 mV or si | | | |
| 2.3.3 | Ion: 2- or 3-dig | it options | | |
| 2.3.4 | | 0.01 mS or smaller | | |
| 2.3.5 | Temperature: 0 | .1°C or smaller | | |
| 2.3.6 | TDS: 0.01ppt o | r smaller | | |
| 2.3.7 | Resistivity: 0.1 | $k\Omega$ or smaller | | |
| 2.4 Equ | iipment Accuracy | | | |
| 2.4.1 | pH: ±0.002 pH | | | |
| 2.4.2 | mV: ±0.2 mV | | | |
| 2.4.3 | | cale (monovalent) or 1% full scale (divalent) | | |
| 2.4.4 | · · | -1% of the measurement | | |
| 2.4.5 | Temperature: ± | | | |
| 2.4.6 | | ne measurement | | |
| 2.4.5 | Resistivity: ±1 | % of the measurement | | |
| | iipment type and | | | |
| 2.5.1 | Both the instrum | nents must be identical | | |
| 2.5.2 | NIST - Traceab | le calibration certificate must be provided for both the instruments | | |
| | - | | | |
| | | 3 Years | | |
| | | Optional Quote-1: Additional 2 years warranty may be quoted separately. | | |
| | Wamanty | Optional Quote-1. Additional 2 years warranty may be quoted separately. | | |
| | Warranty | Optional Quote-2: AMC beyond 3 Years Warranty period | | |
| | (Optional quote | s will not be taken up for price comparison) | | |
| Terms a | and Conditions | | | |
| | The system sho | uld be delivered within 14-16 weeks from the opening of the letter of credit or | | |
| 1. | | chase order, whichever is later. | | |
| 2. | Costs and relate | d information should be given only in the financial bid. | | |
| 3. | The cost should | include all delivery costs up to IIT Madras. | | |
| 4. | The warranty sh | nall commence only from the date of equipment installation at IITM. | | |
| 5. | IIT Madras rese | rves the right to exclude some items from the purchase. | | |
| | As part of ten | der technical evaluation, IIT Madras will approach the past end users for | | |
| 6. | feedback and in case of any adverse feedback the bidder will be technically disqualified. | | | |
| 7. | The system should be installed and commissioned with no additional cost. | | | |
| | Training at IIT Madras should be provided with no additional cost. | | | |
| 8. | | | | |
| | Services and spa | ares should be necessarily available within India. | | |
| 9. | | | | |

| 10. | Detailed Technical brochure |
|-----|---|
| 11. | Detailed technical write up explaining how each of the Technical Specifications are complied with, indicating the location in the brochure |
| 12. | The vendor should guarantee round the clock technical support not only during the warranty period but even beyond through an annual maintenance contract. Demonstration of having provided such satisfactory technical support to customers shall be enclosed with the technical bid. |
| 13. | The manufacturer must have a well-qualified technical support team |

TECHNICAL BID PROFORMA

Tender No. CE/MANU/11/IOE23/PHCONMETERELE

Item Name: PH, CONDUCTIVITY METER, ELECTRODES,

1.0 Bidder Eligibility Criteria:

| I | 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 | Complied/Not Complied | Reference Page No. | Remarks, If any |
| 1 | The supplier/vendor must be an original equipment manufacturer or an authorized agent/dealer/seller of the item. The vendor should have supplied at least 3 similar units at other IITs or NITs, or national laboratories and research centres (DRDO/CSIR/BARC/IGCAR), or R&D centres of reputed multinational companies, or globally recognized universities, in the last 5 years. PO copy, or performance certificate, along with contact details (name of the person in-charge, email, and phone number) is to be provided. | | | |

3.0 Technical Compliance:

(TWO Multiparameter metres, TWO pH electrodes, and FIVE Chloride electrodes)

| Sl.No | Specifications | Complied/Not Complied | Reference Page No. |
|-------|---|--------------------------|--------------------|
| Gener | al | | |
| 1 | Each piece of the instrument should have the capability of measuring pH, mV, temperature, ISE, conductivity, salinity, resistivity, and TDS. The equipment should have the following characteristics or better and should satisfy and demonstrate the performance criteria given in Section 2 | | |
| 2.1Ha | rdware, electrodes, solutions | | |
| 2.1.1 | Meter should be a benchtop type with a backlit LCD display | | |
| 2.1.2 | Two Meters with two pH electrodes, two conductivity/temperature probes and two electrode stands | | |
| 2.1.3 | Five chloride electrodes (9617BNWP Orion Ionplus Chloride combination Ion Selective electrode or equivalent) and filling solutions | | |

| | Ionic Strength Adjustor so | olution (500 ml) for chloride | | |
|---------|--|--|--|--|
| 2.1.4 | electrodes | | | |
| 2.1.5 | 1000 ppm chloride standa | rd/calibration solution (1000 ml) | | |
| | | l – BNC; Temperature terminal - 2.5 | | |
| 216 | 3 | be compatible with the pH and | | |
| 2.1.6 | chloride electrodes suppl | | | |
| 2.1.7 | | Cacility for storing at least 500 data | | |
| 2.1.7 | Sets The meter should have a set of the meter should have a set of the set of | ser-selectable visual and audio alarm | | |
| 2.1.0 | | I measurement with a calibration | | |
| 2.1.9 | facility with automatic bu | | | |
| | | to store and retrieve from memory | | |
| | | ts, electrode slope and offset, and | | |
| 2.1.10 | conductivity/TDS cell co | | | |
| 2 1 11 | | e facility to export data to a PC via | | |
| 2.1.11 | RS-232 or USB | 20 11 A.C. 70 11 | | |
| 2.1.12 | Operating power range: 2 | 20 V AC, 50 Hz | | |
| | ipment Range | | | |
| 2.2.1 | pH: 0 to 14 | | | |
| 2.2.2 | mV: ±2000 mV | | | |
| 2.2.3 | Ion: 0.001 to 20000 ppm | | | |
| 2.2.4 | Conductivity: 0.05 to 500 | mS | | |
| 2.2.5 | Temperature: 0 to 100°C | | | |
| 2.2.6 | TDS: 0.050 ppm to 500 p | pt | | |
| 2.2.6 | Resistivity: 2Ω to $20 M\Omega$ | 2 | | |
| 2.3 Equ | ipment Resolution | | | |
| 2.3.1 | pH: 0.1 pH or smaller | | | |
| 2.3.2 | mV: 1 mV or smaller | | | |
| 2.3.3 | Ion: 2- or 3-digit options | | | |
| 2.3.4 | Conductivity: 0.01 mS or | smaller | | |
| 2.3.5 | Temperature: 0.1°C or sm | aller | | |
| 2.3.6 | TDS: 0.01ppt or smaller | | | |
| 2.3.7 | Resistivity: $0.1 \text{ k}\Omega$ or sm | aller | | |
| 2.4 Equ | ipment Accuracy | | | |
| 2.4.1 | pH: ±0.002 pH | | | |
| 2.4.2 | mV: ±0.2 mV | | | |
| 2.4.3 | Ion: 0.5% full scale (mone | ovalent) or 1% full scale (divalent) | | |
| 2.4.4 | Conductivity: ±1% of the measurement | | | |
| 2.4.5 | Temperature: ±0.1°C | | | |
| 2.4.6 | TDS: ±1% of the measurement | | | |
| 2.4.5 | Resistivity: ±1% of the measurement | | | |
| 2.5 Equ | ipment type and calibr | ation | | |
| 2.5.1 | Both the instruments must | | | |
| | NIST - Traceable calibration certificate must be provided for | | | |
| 2.5.2 | both the instruments | | | |
| | | 3 Years | | |
| | | | | |
| | | Optional Quote-1: Additional 2 years | | |
| | | warranty may be quoted separately. | | |

| | Warranty | Optional Quote-2: AMC beyond 3 Years Warranty period | | |
|---------|--|--|--|--|
| Genera | al Terms and Condition | S | | |
| 1. | The system should be delivered within 14-16 weeks from the opening of the letter of credit or issue of the purchase order, whichever is later. | | | |
| 2. | Costs and related information financial bid. | nation should be given only in the | | |
| 3. | The cost should include all delivery costs up to IIT Madras. | | | |
| 4. | The warranty shall commence only from the date of equipment installation at IITM. | | | |
| 5. | IIT Madras reserves the right to exclude some items from the purchase. | | | |
| 6. | the past end users for f | l evaluation, IIT Madras will approach feedback and in case of any adverse be technically disqualified. | | |
| 7. | The system should be additional cost. | nstalled and commissioned with no | | |
| 8. | Training at IIT Madras s cost. | hould be provided with no additional | | |
| 9. | Services and spares should | d be necessarily available within India. | | |
| Technic | cal Bid should comprise of | the following: | | |
| 10. | Detailed Technical brochu | ire | | |
| 11. | | e up explaining how each of the are complied with, indicating the | | |
| 12. | not only during the warra annual maintenance contr | ntee round the clock technical support nty period but even beyond through an act. Demonstration of having provided cal support to customers shall be al bid. | | |
| 13. | The manufacturer must h team | ave a well-qualified technical support | | |

(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: pH, Conductivity Meter, Electrodes, Tender No. CE/MANU/11/IOE23/PHCONMETERELE

| It. No | Description of work | Quantity | Units | Basic Rate in INR | GST in Percentage | Total Amount with taxes in INR |
|-----------|--|----------|-------|----------------------------|----------------------|---|
| 1. | pH Electrodes | 2 | Nos. | | | |
| 2. | Conductivity Multiparameter Meter | 2 | Nos | | | |
| 3. | Chloride Electrodes | 5 | Nos | | | |
| 4. | Optional Quote-1: Additional 2 years warranty to be quoted | - | - | | | |
| 5. | Optional Quote-2: AMC beyond 3 Years Warranty period | - | - | | | |
| | Grand Total | | | | | |

| Total Amount Rupees in words | |
|---------------------------------------|--|
| 1 0 tuli 1 11110 unit 1 tup 0 0 0 111 | |

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

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 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. | | | | | |
| • 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.

$\underline{Annexure - E}$

| (To be given on the letter head of the bidder) | |
|---|---|
| No Dated: | |
| <u>CERTIFICATE</u> | |
| (Bidders from India) | |
| I have read the clause regarding restrictions on procurement from a bidder of a couborder with India and hereby certify that I am not from such a country. | ntry which shares a land |
| 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 couborder with India and hereby certify that I from (Name of registered with the Competent Authority. I also certify that I fulfil all the requirement eligible to be considered. (Copy/ evidence of valid registration by the Competent Authority) | f Country) and has been ents in this regard and is |
| Date: | ignature of the Tenderer Name & Address of the nderer with Office Stamp |