भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

शिक्षा मंत्रालय, भारत सरकार द्वारा स्थापित

सैक्टर 81,नॉलेज सिटी,प. ओ. मनोली, एस. ए. एस. नगर, मोहाली, पंजाब 140306

INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH MOHALI

(Established by Ministry of Education, Govt. of India)

Sector-81, Knowledge city, PO-Manauli, SAS Nagar Mohali-140306, Punjab

PAN No. - AAAAI1781K GSTIN – 03AAAAI1781K2ZS

• **Phone : +91-172- 2240121** • **Fax : +91-172-2240124** • **http://www.iisermohali.ac.in** • **Email:** stores@iisermohali.ac.in

CPPP/Institute Website

IISERM (1494)21/22-Pur Dated: 11th August 2021

NOTICE INVITING E-TENDER

Online tenders are invited on behalf of the Director, IISER Mohali in **TWO BID SYSTEM** for the **Supply & Installation of Online Integrated Continuous Ambient Air Quality Station with CMC Plan** as per technical specification and details given below and BOQ list from the original manufacturer/supplier at CPPP i.e. **https://eprocure.gov.in/eprocure/app**. Tender documents may please be downloaded from the E-procurement portal website **https://eprocure.gov.in/eprocure/app** & Institute website **www.iisermohali.ac.in.**

-Sd-
Assistant Registrar (P&S)

NOTE: This is a domestic Tender according to the DPIIT Order dated 15/07/2017 and subsequent amendments to the order for Public Procurement Preference & PROVISION FOR LOCAL SUPPLIERS TOWARDS PREFERENCE TO MAKE IN INDIA. The bidder required to declare on the letter head the percentage of Local content for the quoted instrument and submit with the Technical Bid. Bidder should also give details of the location(s) at which the local value addition is made.

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E-TENDER NOTICE

Tender Ref.- IISERM(1494)21/22-Pur	Dated : 11th August 2021

Critical Date Sections

Sr.	Description	Date	Time
1.	Tender Publishing Date and time	11th August 2021	6:00pm
2.	Tender Document download start Date & Time	11th August 2021	6:00pm
3.	Bid Submission start Date &Time	11th August 2021	6:00pm
4.	Bid Submission End date and Time	31st August 2021	Upto 11:00am
5.	Tender opening Date and Time	01st September 2021	At 11:30am

Online tenders are invited on behalf of the Director, IISER Mohali in **TWO BID SYSTEM** for following item(s) from the original manufacturer/supplier at CPPP i.e. **https://eprocure.gov.in/eprocure/app**. Tender documents may please be downloaded from the E-procurement portal website **https://eprocure.gov.in/eprocure/app** & Institute website **www.iisermohali.ac.in.** Tender fee in shape of Demand Draft of Rs 590/- (Non-refundable) should be submitted by bidder in favour of the Registrar, IISER Mohali payable at Mohali or through Online mode in Institute Account (Canara Bank Saving Account Number 4790101001912 and IFSC Code CNRB0004790) However, scanned copy of the Tender fee should be uploaded on website along with technical bid. The hard copy of the same in original to be sent to the address mentioned below duly superscribing the supply/work name and reference/tender ID on the envelope and same must reach before opening of the bid and if not received before due date the bid will be summarily rejected. **Micro & MSME/NSIC and Firms registered and the firms registered with concerned Ministries/ Departments, the bidders are exempted from payment of Tender Fee/EMD as per GOI notifications/GFR (2017) and Ministry of Finance OM No. F.9/4/2020-PPD dated 12 November 2020.**

Bidders will also be required to execute bond/undertaking Bid Security Declaration Form attached as ANNEXURE-I for availing exemption to submit EMD.

The Original Tender Fee should be sent to:

Assistant Registrar (P&S)
Indian Institute of Science Education and Research Mohali
Sector-81, Knowledge City, SAS Nagar, Mohali, Punjab,
India, Pin: 140306

Non-receipt of original Tender Fee will lead to rejection of tender.

ITEM WISE DETAILS

Sr. No.	Description	Qty. (in units)
1.	**SUPPLY & INSTALLATION OF ONLINE INTEGRATED CONTINUOUS AMBIENT AIR QUALITY STATION WITH CMC PLAN.** **INSTRUMENT PARAMETER & TECHNICAL SPECIFICATIONS – AS PER ANNEXURE III**	01

A) IMORTANT NOTES:-

I. **This is a domestic Tender according to the DPIIT Order dated 15/07/2017 and subsequent amendements to the order for Public Procurement Preference & PROVISION FOR LOCAL SUPPLIERS TOWARDS PREFERENCE TO MAKE IN INDIA. Bidders should also give details of Localtions(s); at which the local value addition is made. Bidders are requested to furnish the declaration regarding local content/locations in Annexure II.**

II. **The online updated Price BOQ is in INR format. Bids are invited in INR only against domestic tender.**

III. **The Online bids should be submitted directly by the original manufacturer/supplier, If BID/quotation is submitted/filled by any representative/agent/dealer then they must upload a authority certificate from the principal company.**

IV. **All MSME/NSIC/Startup Units shall be considered as per provisions/rules prescribed by Govt of India.**

V. **Auto-extension of last date for E-Tenders has been activated by CPP Portal which has participation 2 bids or less.**

B) SUBMISSION OF TENDER

I. All bid/ tender documents are to be uploaded online at Central Public Procurement portal i.e. **https://eprocure.gov.in/eprocure/app** only and in the designated cover/ part on the website against tender ID. Tenders/ bids shall be accepted only through online mode and no manual submission of the same shall be entertained except tender fee and EMD. Late tenders will not be accepted.

II. The online bids shall be opened at the office of the Assistant Registrar (P&S), IISER Mohali, on above given date and time. If the tender opening date happens to be on a holiday or non-working day due to any other valid reason, the tender opening process will be attended on the next working day at same time and place. IISER Mohali will not be responsible for any error like missing of schedule data while downloading by the Bidder.

III. The bidder shall upload the tender documents duly filled in and stamped by the authorized signatory on each and every page. Tender not submitted/uploaded in the prescribed form and as per the tender terms and conditions shall be liable for rejection.

IV. The bidder shall upload scanned copy of the PAN Card, GST number duly signed and stamped. **Also bidders applying against 'MSME/NSIC Certificate" issued by appropriate Authority, should ensure that the certificate attached is relevant to the**

area of service/supply. For example, If the tender is for "supply & installation of Desktop" ***the certificate should be issued for activity/area of "Computer supply and services activities etc" otherwise bid will be REJECTED without notice.***

V. E-procurement system ensures locking on the scheduled date and time. The system will not accept any bid after the scheduled date and time of submission of bid.

C) INSTRUCTIONS

1. The Online bids should be submitted directly by the original manufacturer/supplier, If quotation is submitted/filled by any representative/agent/dealer then they must upload a authority certificate from the principal company for quoting the price otherwise such quotation will be rejected.

2. The quantity mentioned in this inquiry is and shall be deemed to be only approximate and will not in any manner be binding on the Institute. Before the deadline for submission of the online bid, IISER Mohali reserves the right to modify the tender document terms and conditions. Such amendment/modification will be notified on website against said tender ID.

3. The rates offered should be FOR Delhi/Mohali in case of firms situated outside Chandigarh/Mohali, and free delivery at the Institute premises in case of local firms. Conditional tenders will be summarily rejected.

4. In case of Ex-godown terms the amount of packaging forwarding freight etc. should clearly be indicated by percentage or lump sum amount. Institute has policy not to make any advance payments towards any purchase, Letter of credit can be opened if required.

5. THE INSTITUTE IS EXEMPTED FROM CUSTOM DUTY under notification no-TU/V/RG/-CDE(1062)/201 CUSTOM DT.30.08.2016.

6. Tax: This Institute is not exempted from the payment of GST. The current rate (i.e. percentage of GST should be clearly indicated included or excluded) wherever chargeable. Please also provide/upload the copy of PAN card, GST number duly self-attested.

7. Concessional GST is applicable for all the items purchased for Research labs vide Ministry of Finance, notification no. 45/22017 dated 14.11.2017 and 47/2017 dated 14.11.2017.

8. Bidder/s quoting in currency other than **Indian Rupee (INR**) should explicitly mention the currency in which tender quoted wherever applicable in Technical Bid along the tender documents.

9. The delivery period should be specifically stated **(Kindly refer ANNEXURE-III)**. Earlier delivery will be preferred.

10. The firms are requested to provide/upload detailed description and specifications together with the detailed drawings, printed leaflets & literature of the article quoted and also should enclose **Technical Compliance Sheet.** The name of the manufactures and country of manufacture should also invariably be stated. In the absence of these particulars, the quotation is liable for rejection. Tenders not accompanied by detailed information as required, are liable to be rejected.

11. If any information furnished by the bidder is, at any stage found to be incorrect, false or fabricated, the Institute/purchaser shall have the absolute right to forfeit E.M.D. and security deposits, in addition to cancellation of contract, forfeiting the warranty/performance Guarantees and other action in accordance with law, such as black-listing, risk & cost etc.

12. **Validity of offer: Period for which the offer will remain open: Bidders should keep their offers valid for acceptance for a period of 9 months.**

13. The warranty period after satisfactory installation should be mentioned and firm should replace all manufacturing defect parts/ whole item under warranty without any extra cost including clearance, freight, taxes. Security deposit/ Bank Performance Guarantee @ 3% of the value of supply order, in terms of *Ministry of Finance, DoE, GOI, OM. No. F.9/42020-PPD dated 12-11-2020 and* as per norms may be sought from the firms.

14. The Director, IISER Mohali reserves the right of acceptance of the whole or any part of the tender or portion of the quantity offered and the bidders shall be required to supply the same at the rate quoted. The Director, IISER Mohali also reserves the right to accept or reject any or all the tenders without assigning any reason thereof.

15. The right to reject all or any of the quotation and to split up the requirements for itemized L-1 or relax any or all the above conditions without assigning any reason is reserved by the IISER Mohali. For any corrigendum and addendum please be checked the website https://eprocure.gov.in/eprocure/app and http:/www.iisermohali.ac.in

16. Disputes, if any, shall be subject to jurisdiction in the court of Mohali only.

–Sd-
Assistant Registrar (P&S)

ANNEXURE-I

Bid Securing Declaration Form

Date:_____ E-Tender No. _____ E-Tender ID_____

To (insert complete name and address of the purchaser)
I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or
b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders. I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: (insert signature of person whose name and capacity are shown)
in the capacity of (insert legal capacity of person signing the Bid Securing Declaration)

Name: (insert complete name of person signing he Bid Securing Declaration)
Duly authorized to sign the bid for an on behalf of (insert complete name of Bidder)

Dated on _____ day of _____ (insert date of signing)
Corporate Seal (where appropriate)

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid)

PS: *Furnish the above in original stationary/letter head with signed and sealed.*

ANNEXURE-II

SELF DECLARATION
[For Local Content of Products, Services or Works]

To,

The Director
Indian Institute of Science Education and Research
(Established by Ministry of Education, Govt. of India)
Sector-81, Knowledge city, PO-Manauli,
SAS Nagar Mohali-140306, Punjab

1. With reference to Order no P.-45021/2/2017 PP (BE-II) dated 04.06.2020 and No. P-45021/2/2017-PP(BE-II) dated 16-09-2020 of DPIIT, Ministry of Commerce and Industry, Govt. of India, we fall under the following category of supplier (please tick the correct category) for the items for which this tender has been floated and being bided.

   - ☐ Class I local supplier – has local content equal to more than 50%. Local contents added at _____ (name of location).
   - ☐ Class II local supplier – has local content more than 20% but less than 50%. Local contents added at _____ (name of location).
   - ☐ Non-local supplier – has local content less than or equal to 20%. Local contents added at _____ (name of location).

2. We are solely responsible for the abovementioned declaration in respect of category of supplier. False declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which we may can be debarred for up to 2 years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.

Signature & seal of the company

Name and address of the organization
…….
…….
…….

Note: In cases of procurement for a value in excess of Rs. 10 crores, the 'Class-I local supplier' / 'Class-II local supplier' shall be required to provide a certificate from the 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.

ANNEXURE – III

SUPPLY & INSTALLATION OF ONLINE INTEGRATED CONTINUOUS AMBIENT AIR QUALITY STATION WITH CMC PLAN

BIDs are invited for the supply and installation of an **online integrated** continuous ambient air quality station with air quality analysers / instruments meeting detailed technical specifications as given below and consisting of the following essential components:

(i) 42 U dual rack cabinets (specifications are: minimum 2000 mm height; minimum 600 mm width and minimum 750 mm depth) with slots for mounting atleast 8 analyzers/instruments in the racks

(ii) State of the art local Central Data acquisition, Logging and reporting system and software equipped with coloured printer with following features:

Remote access	24/7 Remote access to view system in online mode via secure internet should be possible with possibility to access data files on cloud using username and password
Softwares for data acquisition and processing	Installation licences for all software required for data acquisition, data quality control and data processing such as time series plots, including future updates of the same shall be provided by OEM/vendor for free on the supplied data acquisition computer system plus two other computers (to be specified by IISER Mohali) for period of 5 years from the date of first installation in Delhi.
NOTE	Kindly do not quote end of life system or parts. Spares should be available for a minimum period of 5 years for the quoted system/system parts.
Installation and training and warranty/CMC	**Installation and training on-site by engineer from OEM** : For 5 days at Delhi site (to be specified by IISER Mohali in purchase order) during first installation and for 2 days at Mohali where it needs to be reinstalled after 1 year of measurements by vendor and team. Vendors will be expected to demonstrate all features in compliance with specifications during installation. **NOTE: Please note instruments will have to be deployed and installed at Delhi for 1 year after which it is to be transported to IISER Mohali. Transportation logistics, insurance and costs are to be borne by vendor. Also in price bid shipping and delivery terms should be FOR.** **Scope of CMC plan:** 5-year complete system CMC plan post warranty (warranty period should also cover all consumables/parts as per CMC plan specified below). NIST-traceable Calibration mass foils for PM analyzer mass calibration over 5 year period should also be included. This has to be quoted along with Instrument cost **(mandatory to Quote)**, on yearly basis in the Price Bid with following inclusions: During 5- year CMC and warranty period, quarterly on-site preventive maintenance interventions by Service engineer and

	within 72 hours in case of breakdown after successful installation. -All consumables/costs for the interventions (preventive maintenance and otherwise) will be covered by OEM/vendor. Replacements for all parts which break down/need to be replaced within CMC period after installation to be borne by OEM/vendor. Repairs: For repairs during warranty and CMC period manufacturer/local supplier must give Bank Guarantee if some part/s is/are required to be taken out from the installed premises in India. For repairs after warranty and CMC period, local office of OEM or local supplier should give Indemnity bond to take instrument for repairs if some part/s is/are required to be taken out from the installed premises in India. Institute reserves the right to reduce CMC period coverage for L1 computation, based on the funds available and received bids. However, the yearly rates quoted for the 5- year CMC plan will be frozen and accepted by OEM/vendor in case IISER Mohali opts for additional CMC coverage in future, if additional funds become available. In case the price bid exceeds available funds, IISER Mohali reserves right to cancel the tender completely.

NOTE: Part supply through quote for subset of the air quality analyzers / instruments listed below will not be acceptable as the requirement is for a fully integrated online continuous air quality station.

Detailed Technical specifications of Air quality analyzers to be supplied as part of the Online Integrated Continuous Ambient Air Quality Station

1) CARBON MONOXIDE ANALYZER

Detection Principle	Should be based on Non Dispersive Infra Red (NDIR) gas filter correlation technology
Certification	Must be USEPA approved model or equivalent approval with certification for use in India
Range	0 - 100 ppm
Lower Detectible Limit	≤ 0.04 ppm for range up to 20 ppm
Noise	≤ 0.02 ppm for range upto 10 ppm (60 s averaging time)
Sample flow rate	≤ 1 L /min
Linearity	≤ 1 % of full scale (0-50 ppm)
Precision	≤ 0.1 ppm
Weight	≤ 25 kg
Response Time	1 min
Operating Temperature Range	0 - 45 °C
Operating Power	< 500 Watts; 220 - 240 V, 50 - 60 Hz
Zero drift	< 0.1 ppm/ 24 hour
Span Drift	≤ 1%

2) $PM_{2.5}$ ANALYZER

Detection Principle	Should be based on Beta attenuation method using ^{14}C source that emits < 100 μCi
Certification	Must be USEPA approved model or equivalent approval with certification for use in India
Measurement Range	0 – 10000 μg m^{-3} $PM_{2.5}$ in ambient air
Lower Detectible Limit	≤ 10 μg m^{-3} for 1 minute data,
Accuracy	±5 % using NIST traceable mass calibration foil set
Temporal resolution for ambient measurements/ response time	1 minute or less; continuous non-stepwise measurements
Air flow rate	1 m^3 per hour or higher
$PM_{2.5}$ Inlet properties	Provision for dynamic heating with option for regulation using Temperature or Relative humidity
Non-condensing inside analyzer	At ≤ 95 % Relative humidity
Sample Flow Precision	±2 % of measured value
Weight	≤ 25 kg
Operating Temperature Range	The temperature of sampled air may vary -10° to 50°C. Analyzer inlet and overall must be weather protected accordingly
Power	1000 Watts or less for inlet and analyzer pump; 220 - 240 V, 50 - 60 Hz with electrical safety certification/compliance per BIS for India

3) PM_{10} ANALYZER

Detection Principle	Should be based on Beta attenuation method using ^{14}C source that emits < 100 μCi
Certification	Must be USEPA approved model or equivalent approval with certification for use in India
Measurement Range	0 – 10000 μg m^{-3} PM_{10} in ambient air
Lower Detectible Limit	≤ 10 μg m^{-3} for 1 minute data
Accuracy	±5 % using NIST traceable mass calibration foil set
Temporal resolution for ambient measurements/ response time	1 minute or less; continuous non-stepwise measurements
Air flow rate	1 m^3 per hour or higher
PM_{10} Inlet properties	Provision for dynamic heating with option for regulation using Temperature or Relative humidity
Non-condensing inside analyzer	At ≤ 95 % Relative humidity
Sample Flow Precision	±2 % of measured value
Weight	≤ 25 kg
Operating Temperature Range	The temperature of sampled air may vary -10° to 50°C. Analyzer inlet and overall must be weather protected accordingly

Power	1000 Watts or less for inlet and analyzer pump; 220 - 240 V, 50 - 60 Hz with electrical safety certification/compliance per BIS for India

4) <u>ZERO AIR GENERATOR</u>

Flow Range of output zero air	0-20 L/min
Zero air output pressure range	At least 1-4 bar air pressure
Air scrubber -3 stage	Must be equipped with scrubbers to remove from ambient air under Indian pollution levels NOx, NO, NO_2, SO_2, H_2S, NH_3 to less than 0.1 ppb; O_3 less than 0.5 ppb and to below 20 ppb for CO
Noise and vibration	Should come equipped with internal compressor with low noise and vibration characteristics