



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

मानव संसाधन विकास मंत्रालय, भारत सरकार द्वारा स्थापित

सैक्टर-81, नॉलेज सिटी, प० ओ० मनोली, एस० ए० एस० नगर, मोहाली, पंजाब 140306

**INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH MOHALI**

(Established by Ministry of Human Resource Development, Govt. of India)

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

PAN No. - AAAAII781K GSTIN No:- 03AAAAII781K2ZS

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CPPP/Institute Website

IISERM (1289)19/20Pur

Dated: 19<sup>th</sup> November 2019

## **NOTICE INVITING E-TENDER**

Online tenders are invited on behalf of Director, IISER Mohali in **TWO BID SYSTEM** for the **Supply and installation Nano Particle Size & Zeta Potential Analyzer** 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](http://www.iisermohali.ac.in).

-sd-

(Mukesh Kumar)  
Assistant Registrar (P&S)



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

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## **E-TENDER NOTICE**

Tender Ref.- IISERM(1288)19/20Pur	Dated :- 19 <sup>th</sup> November 2019
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### **Critical Date Sections**

Sr.	Description	Date	Time
1.	Tender Publishing Date and time	19 <sup>th</sup> Nov 2019	6:00pm
2.	Tender Document download start Date & Time	19 <sup>th</sup> Nov 2019	6:00pm
3.	Bid Submission start Date & Time	19 <sup>th</sup> Nov 2019	6:00pm
4.	Bid Submission End date and Time	11 <sup>th</sup> Dec 2019	Upto 11:00am
5.	Tender opening Date and Time	12 <sup>th</sup> Dec 2019	At 11:30am

Online tenders are invited on behalf of Director, IISER Mohali in **TWO BID SYSTEM** {Technical and commercial separately} for the 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](http://www.iisermohali.ac.in). Tender fee in shape of DD/Banker Cheque of Rs 590/- (Non-refundable) and EMD of Rs **35,000/-** should be submitted by DD /Banker Cheque/FDR/ Bank Guarantee in favour of the Registrar, IISER Mohali payable at Mohali. However, scanned copy of the both tender fee and EMD should be upload on website along with technical bid part. The hard copy of the same in original to be send to the address mentioned below duly superscribing the supply/work name and reference/ tender ID on the envelope and same must reach before opening the bid and if not received within due date the bid will be rejected summerly.

### **The Original EMD and 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 EMD and Tender Fee will lead to rejection of tender.**

**Item Details: -**

Sr.	Description	Qty. (in units)
1.	<p data-bbox="231 226 1350 293"><b>Supply and installation Nano Particle Size &amp; Zeta Potential Analyzer with accessories</b></p> <p data-bbox="231 331 536 365"><b><u>Technical specifications</u></b></p> <ol data-bbox="296 398 1177 678" style="list-style-type: none"><li>1. <b>Parameters to be measured:</b> Computer based system for Particle Size and Zeta potential measurement. System should be comply with ISO 13321.</li><li>2. <b>Temperature control range:</b> 0°C to 90°C</li><li>3. <b>Condensation control:</b> Purge using dry air</li><li>4. <b>Laser Source:</b> Laser 600 – 660 nm or 500-540 nm; He-Ne Laser/diode laser with suitable power (10mW) or lower. Laser with power greater than 10mW power is not acceptable.</li><li>5. <b>Detector:</b> Highly sensitive photo diode /photo multiplier tube.</li><li>6. <b>Solvent compatibility:</b> Aqueous and organic.</li></ol> <p data-bbox="261 692 794 719"><b>(II) PARTICLE SIZE MEASURING RANGE</b></p> <ol data-bbox="296 723 1259 936" style="list-style-type: none"><li>1. <b>Measuring principle:</b> Dynamic Light Scattering (DLS)</li><li>2. <b>Measurement Range:</b> 0.3 nm to 10 µm (hydrodynamic diameter) or better.</li><li>3. <b>Maximum concentration:</b> 40 % w/v or better.</li><li>4. <b>Measurement angles for Size:</b> Both Fixed angles – 90° and Back Scattering angle 173°. System should have provision to select automatic &amp; manual both angles.</li><li>5. <b>Correlator:</b> Number of correlator channel should be 500 or more. System less than 500 correlator channels will not be accepted.</li></ol> <p data-bbox="261 958 1011 985"><b>(III) ZETA POTENTIAL MEASUREMENT SPECIFICATIONS</b></p> <ol data-bbox="296 992 1278 1335" style="list-style-type: none"><li>1. <b>Measuring Principle for Zeta Potential:</b> Electrophoretic Light Scattering (ELS)</li><li>2. <b>Measurement Range:</b> +/- 500 mV or better</li><li>3. <b>Measurement angle for Zeta Potential:</b> Fixed angle (any angle between 14° to 19°).</li><li>4. <b>Maximum sample conductivity:</b> 260 mS/cm.</li><li>5. <b>Zeta Potential Size range:</b> 2 nm – 80 µm or better.</li><li>6. <b>Measurement Conductivity range:</b> 0 to 20 S/m or better.</li><li>7. <b>Maximum sample concentration:</b> 40 % w/v or better.</li><li>8. <b>Minimum sample volume:</b> 150 µL or less.</li><li>9. <b>Cuvette Type:</b> Disposable, reusable and Organic solvent compatible. Zeta cuvette electrode material should be of Gold or Carbon.</li></ol> <p data-bbox="261 1344 695 1370"><b>(IV) MEASUREMENT ACCURACY</b></p> <ol data-bbox="309 1375 967 1402" style="list-style-type: none"><li>1. Within +/- 2% for NIST traceable size standard samples.</li></ol> <p data-bbox="261 1447 1134 1473"><b>(V) MOLECULAR MASS MEASUREMENT SPECIFICATIONS (optional)</b></p> <ol data-bbox="296 1478 1166 1543" style="list-style-type: none"><li>1. <b>Measuring Principle:</b> Static Light Scattering or Dynamic Light Scattering</li><li>2. <b>Molecular-mass range:</b> 1000 Da – 20 MDa or better</li></ol> <p data-bbox="245 1576 624 1603"><b>(VI) APPLICATION SUPPORT</b></p> <ol data-bbox="309 1637 1273 1700" style="list-style-type: none"><li>1. Vender should have minimum 50 or more installation of DLS system in India &amp; must have application lab for application support.</li></ol> <p data-bbox="256 1733 855 1760"><b>(VII) STANDARD SUPPLY WITH INSTRUMENT</b></p> <p data-bbox="261 1798 459 1825"><b>For Particle size:</b></p> <ol data-bbox="309 1830 1129 1895" style="list-style-type: none"><li>a. 300 or higher Number of disposable type for particle size measurement.</li><li>b. 1 number of Glass/Quartz Cuvettes.</li></ol> <p data-bbox="261 1895 483 1921"><b>For Zeta Potential:</b></p> <ol data-bbox="309 1926 1233 1991" style="list-style-type: none"><li>a. 20 or higher Nos of Re -usable or Disposable cuvettes for Aqueous base samples. (Electrode material should be made of Gold or Carbon).</li></ol>	1

NB:-

- I. The online updated Price BOQ is in INR format. If bidder want to quote other than INR please specify the quoted currency in the technical bid/part and fill the amount in same updated BOQ.
- II. Please bifurcate the price on shipping terms i.e. Ex-works -> FCA/FOB -> CIP/CIF in price BOQ and specify the same in technical bid without price.
- III. 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.
- IV. Kindly specify the weight of the product including weight of packing for assessment of Freight charges, if quoted in foreign currency. Also mention in Technical Bid/Compliance sheet the currency in which quoted.
- V. Kindly do not quote end of life model. Minimum One Year Onsite Warranty is required for the Instrument.

### **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.

### **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 Chandigarh/Mohali in case of firms situated outside Chandigarh/Mohali, and free delivery at the Institute premises in case of local firms. Supplier from outside India should mention the Ex-works/FOB/FCA/CIF/CIP price clearly. 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. Earlier delivery will be preferred.
10. The firms are requested to provide/upload detailed description and specifications together with the detailed drawings, printed leaflets and literature of the article quoted. 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.
11. Validity of offer: 90 days. 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 @ 10 % of the value of supply order as per norms may be sought from the firms.
12. The right to reject all or any of the quotation and to split up the requirements 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>
13. Disputes, if any, shall be subject to jurisdiction in the court of Mohali only.

–sd-  
(Mukesh Kumar)  
Assistant Registrar (P&S)