



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

मानव संसाधन विकास 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 Human Resource Development, Govt. of India)

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

PAN No. - AAAAI1781K TAN NO. PTLI10692D

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*CPPP/Institute Website*

IISERM(906)17/18Pur

Dated- 22<sup>nd</sup> November 2017

## **E-TENDER NOTICE**

Online tenders are invited on behalf of Director, IISER Mohali in **TWO BID SYSTEM** {Technical and Commercial} for the supply & installation of **High Resolution Spectrograph/Scientific grade CCD detector/Software** as per technical specification given below and BOQ list 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 (S&P)



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

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### E-TENDER NOTICE

Tender Ref.- IISERM(906)17/18 Pur	Dated :- 22 <sup>nd</sup> November 2017
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#### Critical Date Sections

Sr.	Description	Date	Time
1.	Tender Publishing Date and time	22 <sup>nd</sup> November 2017	6:00pm
2.	Tender Document download start Date & Time	22 <sup>nd</sup> November 2017	6:00pm
3.	Bid Submission start Date & Time	22 <sup>nd</sup> November 2017	6:00pm
4.	Bid Submission End date and Time	18 <sup>th</sup> December 2017	Upto 11:00am
5.	Tender opening Date and Time	19 <sup>th</sup> December 2017	At 11.30 am

Online tenders are invited on behalf of Director, IISER Mohali in **TWO BID SYSTEM** {Technical and Commercial separately} 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](http://www.iisermohali.ac.in). Tender fee in shape of DD/Banker Cheque of Rs 500/- (Non-refundable) and EMD of Rs. 80,000/- 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 summarily.

#### **The Original EMD and tender fee should be sent to:**

Assistant Registrar (S&P)

Indian Institute of Science Education and Research,  
Mohali Sector 81, SAS Nagar, Mohali, Punjab, India,  
Pin: 140306

**Non-receipt of original EMD and tender fee will lead to rejection of tender.**

**Item Details:-**

Sr.	Details of Specifications	Qty.
1	<p><b><u>High Resolution Spectrograph/ Scientific grade CCD detector/Software Specification</u></b></p> <p><b>I. High resolution spectrograph</b></p> <ol style="list-style-type: none"> <li>1. Aperture Ratio: f/3.9</li> <li>2. CCD spectral resolution: 0.08 nm, with 20 um pixel, or smaller</li> <li>3. Drive step size: at least 0.002 nm/step</li> <li>4. Automatic detection of installed turret and gratings</li> <li>5. Operates in any orientation</li> <li>6. Enhanced Spectral uniformity via 1D spectral deconvolution software</li> <li>7. Calibrated Light source for fully automated wavelength calibration</li> <li>8. NIST Traceable Light source for intensity calibration to remove instrument response and provide absolute sample response</li> <li>9. Toroidal mirror for Astigmatism correction</li> <li>10. Wavelength accuracy: upto +/- 0.02 nm with wavelength calibration</li> <li>11. Wavelength reproducibility: Within 0.004 nm (both scan directions)</li> <li>12. Focal plane size: around 15 mm x 30 mm</li> <li>13. Turret: Triple-grating interchangeable CTS-Turrets self-align to system when installed</li> </ol> <p><b>II. Scientific grade CCD detector</b></p> <ol style="list-style-type: none"> <li>1. CCD format:1340 x 100, 20 <math>\mu\text{m}</math> x 20 <math>\mu\text{m}</math> pixels with 100% fill factor</li> <li>2. Imaging area: 26 x 2.0 mm (optically centered)</li> <li>3. Cryogenic cooling (using liquid nitrogen) down to -120°C <b>without any external chiller.</b></li> <li>4. Dark current @ -120°C (e- /pixel/<b>hour</b>): <math>\leq 0.3</math></li> <li>5. ADC rates: at least 50, 100, 200, 500 kHz and 1, 2, 4 MHz</li> <li>6. Kinetics Sensor Mode: To enable microsecond-resolved kinetic spectral acquisition.</li> <li>7. Custom Sensor mode</li> <li>8. Data interface: GigE data interface Reliable data transmission over 50 m for remote operation</li> <li>9. Gigabit Ethernet data and control protocol</li> <li>10. Operating environment: +5°C to <b>+30°C</b></li> </ol> <p><b>III. Software</b></p> <ol style="list-style-type: none"> <li>1. It should automatically export data into your favorite file format as you acquire it... TIFF, FITS, ASCII, AVI, IGOR, and Origin, just to name a few.</li> <li>2. It must includes a powerful built-in math engine to analyze image and spectral data in realtime.</li> <li>3. It should provides an easy "experiment setup" save/ load function that quickly loads your experiment settings for you.</li> <li>4. Utilizing NIST-traceable light sources, it should provide very accurate wavelength and intensity calibration, free of instrument/optics bias.</li> <li>5. It must allows seamless integration of hardware controls and direct data acquisition into National Instruments' LabVIEW and MathWorks' MATLAB.</li> <li>6. With 64-bit architecture, It should not only able to utilize all the memory (RAM) available on your computer, but also to stream multigigabyte pixel data directly onto the hard drive — all without missing a beat.</li> <li>7. It should be able to send you periodic email updates — (which is very useful if you are running an unattended extended experiment.)</li> </ol> <p><b>Along with Five year annual maintenance contract.</b></p>	<p>01</p> <p>01</p> <p>01</p>

**NB:-** 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.

## **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.
- 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 EXCISE AND CUSTOM DUTY under notification no- 51/96 – CUSTOM DATED 23/7/1996 AND DSIR REGISTRATION NO TU/V/RG/-CDE(1062)/2016 DT. 30/08/2016 / EXCISE NOTIFICATION NO. 10/97- CENTRAL EXCISE DT. 01.03.1997.
6. Tax: This Institute is not exempted from the payment of GST. The current rate (i.e. percentage of Sales Tax should be clearly indicated included or excluded) wherever chargeable. Please also provide/upload the copy of PAN card, GST number duly self-attested.
7. The delivery period should be specifically stated. Earlier delivery will be preferred.

8. 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.
9. 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.
10. 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>
11. Disputes, if any, shall be subject to jurisdiction in the court of Mohali only.

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