



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

मानव संसाधन विकास मंत्रालय, भारत सरकार द्वारा स्थापित

सैक्टर 81, नॉलेज सिटी, प०ओ० 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. - AAAAI1781K TAN NO. PTLI10692D

• Phone : +91-172-2240086 & 2240121 • Fax : +91-172-2240124, 2240086 • <http://www.iisermohali.ac.in> • Email: [stores@iisermohali.ac.in](mailto:stores@iisermohali.ac.in)

*CPPP/Institute Website*

IISERM (900)18/19 Pur

Dated- 13<sup>th</sup> April 2018

## **E-TENDER NOTICE**

Online tenders are invited on behalf of Director, IISER Mohali in **TWO BID SYSTEM** {Technical and Commercial} for the supply and installation of **Opto and Mechanical items** 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(900)18/19 Pur	Dated :- 13 <sup>th</sup> April 2018
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### **Critical Date Sections**

Sr.	Description	Date	Time
1.	Tender Publishing Date and time	13 <sup>th</sup> April 2018	6:00pm
2.	Tender Document download start Date & Time	13 <sup>th</sup> April 2018	6:00pm
3.	Bid Submission start Date & Time	13 <sup>th</sup> April 2018	6:00pm
4.	Bid Submission End date and Time	30 <sup>th</sup> April 2018	Upto 11:00am
5.	Tender opening Date and Time	1 <sup>st</sup> May 2018	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>Part A:-</b></p> <p><b>1. Optical Spectrometer:</b> Operation with CW and high-repetition rate pulsed lasers.</p> <p><b>2. Wavelength range :</b> 520 - 1700 nm</p> <p><b>3. Type of Laser :</b> CW, quasi-CW (repetition rate &gt; 10 MHz), and pulsed (repetition rate &gt; 50 kHz, pulse length &gt; 50 ns)</p> <p><b>4. Measurement time:</b> &lt; 2 s</p> <p><b>5. Digital Resolution:</b> 9 digits or more</p> <p><b>6. Optical rejection ratio:</b> greater than 40 dB.</p> <p><b>7. Accuracy:</b></p> <ol style="list-style-type: none"> <li>± 0.2 ppm</li> <li>± 0.0002 nm @ 1000 nm</li> <li>± 0.002 cm<sup>-1</sup> @ 10,000 cm<sup>-1</sup></li> <li>± 60 MHz @ 300,000 GHz</li> </ol> <p><b>8. Spectral Resolution :</b> 2 GHz or more</p> <p><b>9. Minimum power:</b> 0.003 μW - 0.08 μW or lower power detectable</p> <p><b>10. Optical Input:</b> Pre-aligned FC/UPC connector (9 μm core diameter) - optional free beam-to-fiber coupler</p> <ol style="list-style-type: none"> <li><i>Continuous Calibration: Built-in stabilized single-frequency HeNe laser Optical Input: Pre-aligned FC/PC connector (9 μm core diameter)</i></li> <li><i>Instrument Interface: USB 2.0 and Ethernet with Windows-based display program</i></li> <li><i>Warranty: 5-years on all parts and labor except for the internal reference laser, which should have 3-year warranty.</i></li> </ol> <p><b>11. Interface:</b> USB and Ethernet with Windows-based display program, Library of commands for custom and LabVIEW programming. Software should be provided to control measurement parameters and to display spectra and report wavelength data</p> <p><b>12. FOS-4: 1x 4 Fiber-Optic- Switch</b>  <i>Wavelength Range: 400-1700nm</i>  <i>Fiber Type: 9 μm core, diameter (9/125 SMF)</i>  <i>4 inputs, 1 output (FC/PC connector)</i>  <i>Warranty : 3 yrs</i></p> <p><b>13. Model LC-1-NIR Fiber- Optic Input Coupler:</b>  <i>For collimated lasers operating from 500 - 1700 nm</i>  <i>1" diameter mounting disc attached to 3 m of 9-μm core fiber terminated with FC/PC connector</i>  <i>Warranty : 3 yrs</i></p>	01
02	<p><b><u>Part-B Optical Components and connectors</u></b></p> <ol style="list-style-type: none"> <li>DMSP1000: Ø1" Shortpass Dichroic Mirror 1000 nm Cutoff: <b>4 units</b> (Transmission Band (T<sub>abs</sub> &gt; 85%, T<sub>avg</sub> &gt; 90%) 520 - 985 nm, Reflection Band (R<sub>abs</sub> &gt; 90%) 1020 - 1550 nm).</li> <li>DMSP1180: Ø1" Shortpass Dichroic Mirror 1180 nm Cutoff: <b>2 units</b> (Transmission Band (T<sub>abs</sub> &gt; 85%, T<sub>avg</sub> &gt; 90%) 750 - 1100 nm, Reflection Band (R<sub>abs</sub> &gt; 90%, R<sub>avg</sub> &gt; 95%) 1260 - 1700 nm)</li> <li>DMSP750B: 35 mm x 52 mm Shortpass Dichroic Mirror 750 nm Cutoff: <b>4 units</b>, (Transmission Band (T<sub>avg</sub> &gt; 93%) 400 - 730 nm , Reflection Band (R<sub>avg</sub> &gt; 96%) 770 - 1100 nm)</li> </ol>	01

4. DMSP805: Ø1&quot; Shortpass Dichroic Mirror 805 nm Cutoff: **4 units**  
(Transmission Band ( $T_{\text{abs}} > 85\%$ ,  $T_{\text{avg}} > 90\%$ ) 400-788nm, Reflection Band ( $R_{\text{abs}} > 90\%$ ,  $R_{\text{avg}} > 95\%$ ) 823 - 1300 nm)
5. LDS1212: ±12 VDC Regulated Linear Power Supply 6 W 115/230 VAC: **2 units**
6. APD430A/M : Si Variable-Gain Avalanche Detector Temperature Compensated 400 - 1000&nbsp;nm DC - 400 MHz M4 Taps: **2 units**
7. APD130A/M: Si Avalanche Photodetector Temperature Compensated 400 - 1000 nm M4 Taps : **1 units**
8. S120-FC: FC/PC Fiber Adapter Cap with Internal SM1 (1.035"-40) Thread: **2 units**
9. S120-SMA: SMA Fiber Adapter Cap with Internal SM1 (1.035"-40) Thread: **2 units**
10. S1TM09 SM: 1 to M9 x 0.5 Lens Cell Adapter: **2 units**
11. PDA015C/M: InGaAs Fixed Gain Amplified Detector 800-1700 nm 380 MHz BW 0.018 mm<sup>2</sup> M4 Taps: **1 units**
12. PDA-C-72: 72" PDA Power Supply Cable 3-Pin Connector: **2 units**
13. LDS1212: ±12 VDC Regulated Linear Power Supply 6 W 115/230 VAC: **2 units**
14. LTC56C/M: Laser Diode Starter Set with Current and Temperature Controllers Mount Accessories Optic for 1050-1700 nm Metric: **1 unit**
15. T3285,T4119: BNC Adapter - T Adapter (F-M-F): **15 units**
16. T3283: BNC Adapter - Straight Adapter (F-F): **6 units**
17. T4286: Straight Male to Female SMA Adapter: **12 units**
18. T4282: SMA Adapter - Elbow (M/F) : **4 units**
19. T1452,VT2: BNC Female to Binding Post: **6 units**
20. ADAFCSMA1: FC/PC to SMA Fiber Optic Mating Sleeve: **4 units**
21. ADAFCST1: FC/PC to ST/PC Fiber Optic Mating Sleeve: **5 units**
22. PM1300-XP: 1270 - 1625 nm PM Fiber 9.3 µm MFD: **5 meters**
23. PM780-HP: 770 - 1100 nm PM Fiber 5.3 µm MFD: **5 meters**
24. PM460-HP: 460 - 700 nm PM Fiber 3.3 µm MFD: **5 meters**
25. L1550P5DFB: 1550 nm 5 mW Ø5.6 mm D Pin Code DFB Laser Diode with Aspheric Lens Cap: **3 units**
26. L808P200: 808 nm 200 mW Ø5.6 mm A Pin Code MM Laser Diode: **3 units**
27. NDC-50C-4M-A: Mounted Continuously Variable ND Filter Ø50 mm OD: 0-4.0 ARC: 350 - 700 nm: **1 unit**
28. NDC-50C-4M-B: Mounted Continuously Variable ND Filter Ø50 mm OD: 0-4.0 ARC: 650 - 1050 nm: **1 unit**
29. LED660L: LED with a Glass Lens 660 nm 13 mW TO-18: **3 units**
30. LED940E: Epoxy-Encased LED 940 nm 18 mW T-1 3/4 Qty. of 5: **3 units**
31. 30127A3: FC/APC Multimode Connector Ø127 µm Bore Ceramic Ferrule: **10 units**
32. 190088CP: Black Strain Relief Boots and Crimp Sleeves for Ø2 mm Tubing and SMA or ST Connectors 25 Pack: **2 units**
33. 6015-3-FC: Fiber Optic Circulator 1525 - 1610 nm SMF FC/PC: **3 units**
34. FGA01FC: InGaAs Photodiode 300 ps Rise Time 800-1700 nm Ø0.12 mm Active Area FC/PC Bulkhead: **2 units**
35. FPD310-FS-NIR: InGaAs Switchable Gain High Sensitivity PIN Amplified Detector 950 to 1650 nm 1 MHz - 1.5 GHz BW 0.005 mm<sup>2</sup> M4 Taps: **3 units**
36. SM1500G80: Single Mode Optical Fiber 0.19&nbsp;-&nbsp;0.21&nbsp;NA 1520&nbsp;-&nbsp;1650&nbsp;nmØ80&nbsp;µm: **15 meters**
37. UHNA3 Nufern Ultra-High NA Silica Fiber 0.35 NA 960 - 1600 nm: **10 meters**
38. DCF13 Double-Clad Fiber 1250 - 1600 nm Ø105 µm / Ø125 µm Cladding: **10 meters**
39. 10202A-50-APC 2x2 SM Coupler 1310 nm & 1550 nm 50:50 Split FC/APC: **2 units**

	40. PN1550R5F1 1x2 PM Coupler 1550 ± 15 nm 50:50 Split &ge;20 dB PER FC/PC Connectors: <b>2 units</b> 41. CIR1550PM-FC PM Fiber Optic Circulator 1520 - 1580 nm PM Fiber FC/PC: <b>2 units</b> 42. 6015-3-FC Fiber Optic Circulator 1525 - 1610 nm SMF FC/PC: <b>2 units</b> 43. PM121D Digital Power & Energy Meter Si Sensor 400-1100 nm 500 nW - 500 mW: <b>1 units</b>	
<b>3.</b>	<b><u>Part-C ASE Broad Band Width Optical Source</u></b>  Specifications: - <ol style="list-style-type: none"> <li>1. Output Power: 30mW or more</li> <li>2. Output wavelength: (C+L Band) 1525-1610 nm (flat spectrum&lt;2.5dB) or better range with large bandwidth</li> <li>3. Flatness: max 2db (perfect flatness over the spectrum range)</li> <li>4. Interface: FC/UPC</li> <li>5. Gain Flattening Filter (GFF)</li> <li>6. Operating Voltage: 230V / AC</li> <li>7. Output Stability: +/- 0.02db</li> <li>8. Operating Temperature: 0t To 40C</li> <li>9. Humidity range : 10 to 85%</li> <li>10. Display: Optical OutPut Power</li> <li>11. Controls: Optical OutPut Power</li> <li>12. ATC and APC ensure the stability</li> <li>13. RS232 for adjusting power through</li> </ol>	

- 1.** 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.
- 2.** 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.
- 3.** Bidders can participate for each part independently. There is only one Price bid for all the three parts of the tender. If any Bidder qualified for any of the part quoted (A, B,C), his Complete Price bid will be opened.

### **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. GST Exemption - MINISTRY OF FINANCE, (DEPARTMENT OF REVENUE) Notification No.45/2017- Central Tax (Rate) dated 14<sup>th</sup> November, 2017 47/2017-Integrated Tax (Rate) 14th November, 2017 for purpose of availing concession in rate of GST admissible to Scientific/Research and academic Institutions.
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)