



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

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CPPP/Institute Website

IISERM (1485)21/22-Pur

Dated: 26th August 2021

NOTICE INVITING E-TENDER

Online tenders are invited on behalf of the Director, IISER Mohali in **TWO BID SYSTEM** for the **Supply and Installation of Vector Network Analyzer with Spectrum Analyzer and Accessories including software as per list** 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(1485)21/22-Pur	Dated : 26 th August 2021
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Critical Date Sections

Sr.	Description	Date	Time
1.	Tender Publishing Date and time	26 th August 2021	6:00pm
2.	Tender Document download start Date & Time	26 th August 2021	6:00pm
3.	Bid Submission start Date & Time	26 th August 2021	6:00pm
4.	Bid Submission End date and Time	16 th September 2021	Upto 11:00am
5.	Tender opening Date and Time	17 th 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/Tender Fee.

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 and Installation of Vector Network Analyzer with Spectrum Analyzer and Accessories including software as per list. <u>TECHNICAL SPECIFICATIONS: AS PER ANNEXURE-III</u> <u>*The attached ANNEXURE-III must be filled by the bidder duly stamped and signed.</u>	01

A) IMPORTANT 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 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 Chandigarh/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.
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 & literature of the article quoted and also should enclosed **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: 90 days.

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 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>
15. 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 the 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

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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

Vector Network analyzer with spectrum analyzer

General	The specs are for a Vector network analyzer and a Spectrum analyzer. Manufacturers may quote for 2 separate units or combined units with appropriate software and hardware for both functions as per specifications. Hand held and non-stand alone units will not be considered.		
S. No.	VNA	Required Specifications	Compliance (compliance must also be supported by brochures, Data Sheets and application notes in bid)
1	Frequency & Ports	300 KHz to 20 GHz, 2 Ports (lower bandwidth can be 10MHz onwards if providing better specifications of dynamic range) If quoting higher bandwidth the models must have similar specs up to 20 GHz and lower performance above 20 GHz	
2	Aging/year	1 ppm or Better	
3	No. of points	2 to 100001 Per Trace or Better	
4	No. of Channels	200 or Better	
5	Dynamic Range	≥ 120 dB for frequency range from 100 MHz to 20 GHz ≥ 110 dB from 1MHz to 100 MHz	
6	Signal purity	Harmonics < -20 dBc for 10 to 100 MHz and < -25 dBc for 100 MHz to 15 GHz and < -25 dBm for > 15 GHz < -20 dB dB at 0 dbm power. Must have typical values atleast 5dB lower than specs	
7	IF Bandwidth	1 Hz to 1 MHz or Better (1Hz is necessary)	
8	Test port output power	-55 dBm to 10 dBm or better for full range	
9	Power resolution	0.01 dB	
10	Sweep Type	Linear and Log frequency, CW time, Power, Segmented sweep	
11	Reverse Sweep	Must have option to sweep in reverse direction from system or on list mode from ASCII file	
12	Reference I/p Freq Range	10 MHz or Better	
13	Measurement's Required	Measurement of all 4 S parameters, Y/Z parameters, Wave Quantities, Ratio's to be provided. Balanced DUT's. Provide automatic measurement functionality for Time Domain,	

		Fixture removal & measurements on Amplifiers like :- Stability Factor, Gain Compression Pt , VSWR/Return Loss.	
14	Calibration Techniques	TOSM, TRL/LRL, TOM, TRM, OSM, UOSM.	
15	In-built Bias tee or external Bias tee	Built-in Bias Tee or units with ESD protection of ports with external 2 bias tees as componets	
16	Power Supply	100-240 V AC \pm 10% 50-60 Hz \pm 5 % Or Compatible with Indian AC Mains	
17	Display & Interfaces	Instrument should have inbuilt Touch Screen Display 12 inch or better & Interfaces to mandatorily comprise of USB Ports -Min 4, LAN- Min 1.	
18	Drivers	Must have Matlab /Labview drivers or general VISA tools for remote programming	
19	Hard Drive	Provide SSD hard drive	
20	O/S	Windows 10 with latest version	
21	Benchtop units	Hand held units cannot be considered. Units must be standalone bench top without external PC.	
S	Spectrum Analyzer	Must have built in hardware/software option with VNA or a separate unit must be provided	
22	Freq. Range	100kHz to 18 GHz or better	
23	Freq. Span	10Hz to max freq.	
24	Freq. reference stability	Aging: $\pm 1 \times 10^{-6}$ / year	
25	Sweep (trace) point range All spans	up to 32,001	
26	Safe Input Power	>+25dBm	
27	Resolution Bandwidth	1Hz to 1MHz in steps	
28	Amplitude Measurement Range	DANL to +10dBm	
29	Display Average Noise Level	100 kHz to 1 MHz < -100 dBm	
30		1 MHz to 10 MHz < -115 dBm	

31		10 MHz to 20 GHz < -120 dBm	
32	1 dB compression Point	+4 dBm or better	
33	Trace Detectors	Sample, Average	
34	Phase Noise with 10KHz offset carrier 500MHz/1GHz	-95dBc/Hz or better	
35	Interface	LAN, USB with Matlab Laviw drivers and VISA	
36	Warranty	3 years for both units or integrated units	
	Units to be quoted separately in financial bid		
1	Vector Network analyzer	Main unit with 3 years warranty	
2	Spectrum Analyzer	Separate unit or integrated with main VNA unit with 3 years warranty	
A	Accessories and Software	As mentioned below :-	
3	Main Instrument Cables	Hand formable 0.086" shield diameter 50 ohms cable 2 with female 3.5 mm connector on DUT side and female or male as needed for Port approximate length 12". This must be test grade cable with thumbwheel or port protector for VNA ports.	
4	Torque wrench	3.5 mm /SMA/2.92mmTorque wrench	
5	Mechanical Calibration kit	3.5 mm calibration kit full set mechanical	
6	Time domain reflection	TDR software for finding faults and electrical length. Price must be given at same quoted value if procured before 3 years	
7	19" rack mount brackets	Give 19" Rack mount rackets for the units (single VNA/Spectrum or separate Spectrum Analyzer.	
8	Keyboard and Mouse	Wired Keyboard and Mouse (Kensington Orbit mouse)	
9	Adapters	3.5 mm male to male 10 pcs, 3.5 mm female to female 10 pcs Must be Rosenberger or Huber Suhner.	
10	Additional Cables	Hand formable 2.92 mm male /male 50 ohms 0.085 " outer shield dia 2.5 m long 10 pcs 1 m long 10 pcs	
11	19" Rack	<u>Give a basic 42U 19" rack with 800 m depth 5 shelves, simple keyboard tray , simple set of 4 cooling fans on top , PDU with 6</u>	

		<u>hybrid 5A/15A sockets , earthing bus bar , 5 shelves, simple, lockable door and lockable PU caster.25 mounting screws This must be a simple low cost accessory with a good PDU.</u>	
P	Price comparison	Items 1 to 7 will be used to decide L1. IISER may decide to procure part of the units and part or multiple pieces of accessories.	
12	Service life	Spares, Software options and service options must be available for atleast 10 years.	
13	Service facility	OEM must have a NABL accredited test and calibration facility in India. OEM or agent must provide BG during warranty for any out of site service. Any service beyond Warranty must be given Indemnity Bond till returned from service center.	
14	Country of Origin	Countries having land border with India must have appropriate Govt Approvals.	
15	Make in India	Only class II or Class I suppliers with supporting documents will be considered. If Agents are quoting must also include authorization	
16	References	OEM must give 5 reference customers in past 3 years from national Institutes like IITs IISERs in India for similar or higher specified products	
17	Overall Global Sales	OEM must have sold atleast 50 units of similar or higher specs in India or Globally over last 3 years. Must provide declaration of same.	
18	MSME	Any MSME must be an OEM not a reseller for MSME benefits in price comparison.	