

DEPARTMENT OF PHYSICS
Indian Institute of Technology, Hauz Khas, New Delhi – 110 016

EXPRESSION OF INTEREST

Date: Jan 13, 2021

IITD/EOI(SP-3317)/2021

Subject: Purchase of DPSS based SLM laser(s) and/or Beam Combiner

IIT Delhi wishes to purchase a THz spectral calibration system with 2 SLM Lasers AND beam combiner. Given below are some required specifications of this proposed system:

Required Capabilities of the Instrument:

1. Multicolor SLM Lasers (at least two independent laser wavelengths: ~491 nm having power ~ 100mW AND ~561 nm having power ~ 130 mW) with spectral linewidths of less than 10 MHz.
2. Lasers to emit a TEM₀₀ mode profile.
3. Laser beam diameters should be ~ 700 μm or less with a 1:1 elliptical ratio.
4. Power drift/stability should be < 1% in a testing of at least 10 hours
5. Vertical polarization beams to be provided at the output
6. Shock tolerance upto 25G
7. Beam combiner should provide combined output for the lasers above.
8. Output power losses per beam diverter: < 10 %
9. Beam position overlap at exit < 50 μm
10. The lasers should be controllable via common USB port
11. Remote control with USB interface and OEM provided software GUI
12. The lasers should be driven by a common power supply and common interlock
13. All these items should have proper TEC cooling or heat sink arrangements.

Services:

1. Complete comprehensive warranty for 3 years
2. Installation, operation and training of users for usage of equipment for 3 years

Eligibility criteria:

1. EOIs must be original manufacturer (OEM) or authorized representative for the OEM
2. OEM must have a minimum of INR 10 Cr revenue internationally
3. Successfully established user-base in India and abroad.

Requested material:

1. OEM covering letter detailing their expertise and experience in providing similar equipment in India and abroad.
2. Technical specifications and application notes of the Lasers and/or beam combiner.
3. Please give as much details as possible for the products and also the services that can be provided.

Submission of proposal:

OEMs are requested to submit a proposal for the above-mentioned items as a single PDF on NIC portal (E-Procurement).

Deadline for submitting proposal: January 22, 2021

Evaluation procedure: The purchase committee will review the proposals of all the OEMs. Based on the proposal and technical specifications presented to the purchase committee, technical specifications of the final tender will be finalized and uploaded.

For queries related to this EOI, you may send an email to amartya@physics.iitd.ac.in

SCHEDULE

Name of Organization	Indian Institute of Technology Delhi
TenderType (Open/Limited/EOI/Auction/Single/Global)	EOI
Tender Category (Services/Goods/works)	Goods & Services
Type/Form of Contract (Work/Supply/Auction/ Service/ Buy/ Empanelment/ Sell)	Goods & Services
Product Category (Civil Works/Electrical Works/Fleet Management/ Computer Systems)	Others
Date of Issue/Publishing	13/01/2021 (16:00 Hrs)
Document Download/Sale Start Date	13/01/2021 (16:00 Hrs)
Document Download/Sale End Date	21/01/2021 (15:00 Hrs)
Last Date and Time for Uploading of Bids	21/01/2020 (15:00 Hrs)
Date and Time of Opening of Technical Bids	22/01/2020 (15:00 Hrs)
Tender Fee	Rs. __NIL__/- (For Tender Fee)
EMD	Rs. __NIL__/- (For EMD) (To be paid through RTGS/NEFT. IIT Delhi Bank details are as under: Name of the Bank A/C : IITD Revenue Account SBI A/C No. : 10773572622 Name of the Bank : State Bank of India, IIT Delhi, Hauz Khas, New Delhi-110016 IFSC Code : SBIN0001077 MICR Code : 110002156 Swift No. : SBININBB547 (This is mandatory that UTR Number is provided in the on-line quotation/bid. (Kindly refer to the UTR Column of the Declaration Sheet at Annexure-II)
No. of Covers (1/2/3/4)	01
Bid Validity days (180/120/90/60/30)	120 days (From last date of opening of tender)
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