

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

Autonomous Institution of the Department of Atomic Energy, Government of India
HOMI BHABHA ROAD, NAVY NAGAR, COLABA, MUMBAI - 400 005.

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February 06, 2019

Notice Inviting Tender cum Tender Document (One Part Limited Tender) for the following items:

Sr. No.	Item Description	Qty.
1.	895 nm Tunable Diode Laser System. Wavelength range 894.5 – 896 nm or higher. With the required electronics to control the laser temperature, laser current and laser frequency. With electronics for laser frequency stabilization. With laser diode chip and optical isolator. (Specifications as per attached sheet)	1 No.
2.	895 nm laser diode, compatible with the above laser.	2 Nos.

Tender No.	TIFR/PD/IC18-98/182332
Published on	06/02/2019
Type of Tender	One Part Limited Tender
Estimated Cost	Rs. 20.00 Lakh
Last date for Submission of Bid	27/02/2019 on or before 17.30 hours
Date of Opening Bids	28/02/2019 on 15.00 Hours

Tender should be submitted in One sealed envelope duly superscribed with the Tender No., Due Date in Bold Letters.

Please see attached sheet for conditions of tender.

ADMINISTRATIVE OFFICER

(PURCHASE SECTION)

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SPECIFICATIONS (Vendors must include published specifications of the quoted product):

Laser System consisting of the following:

(i) Laser Head:

External Cavity Diode Laser (ECDL) or Distributed Bragg Reflector (DBR) laser;
Mode-hop free tuning range >25 GHz;
Line width <500 KHz;
Output power >100 mW after isolator;
Laser resonator should not contain moving parts and/or needs to be machined from a single solid block for enhanced acoustic, temperature and alignment stability and narrow linewidth;
Beam shaping using anamorphic prism pair, $M^2 < 1.2$;
Fast modulation possibilities;
Opto-mechanics for output beam angle compensation in case of ECDL;
Optical isolator >60 dB isolation, >80% transmission.

(ii) Control Electronics:

Diode Laser supply and control rack:

Input 220 - 240 VAC, 50 - 60 Hz;
Regulated power supply with low noise;
Short circuit protected;
Monitor unit for displaying the current and the temperature values given to the Laser diodes.

Current and frequency control module:

Output current ranging from 0 to 500 mA;
RMS wideband noise and ripple (DC - 1 MHz) < 300 nA;
Fine tuning of output current or laser power;
Modulation of output current >1 MHz;
In case of ECDL Feed forward for simultaneous control of piezo voltage and laser current.

Temperature control module:

The laser diode temperature to be controlled with a precision of 1mK or better;
Temperature controller current 1 A or higher;
Temperature selection range: 10 - 40 °C or larger range.

(iii) Laser Locking Electronics:

To be used for top-of-fringe frequency stabilization;
Bandwidth >25 kHz;
PID Control loops for fast and slow feedback;
Auto relocking feature (optional).

The price of the Laser Head, Control Electronics and Locking Electronics should be quoted separately.

All accessories including shielded connectors and cables must be provided.

Other conditions:

1. The supplier must provide detailed literature and published specifications of the quoted product.
2. The suppliers should have proven record of executing a similar order and provide names of a few of their clients including their official contact information. Institute could contact them for referee reports.
3. Minimum 1 year warranty from the date of installation.
4. The supplier must be able to provide technical support as and when required.

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(Deemed University)

HOMI BHABHA ROAD, COLABA, MUMBAI – 400 005

(PURCHASE SECTION)

Terms and Conditions

1. The quotation shall be submitted in one sealed envelope duly superscribed with the tender enquiry number, and the due date in bold letters, addressed to the Admn. Officer (Purchase), Tata Institute of Fundamental Research, Homi Bhabha Road, Colaba, Mumbai – 400005. The envelopes should be clearly marked on top as the Tender Enquiry No., Due Date in bold letters. The sealed envelope has to be delivered by hand/courier at the Security Gate Officer of TIFR on or before on the due date specified. Tenders submitted after last date will not be considered.
2. After downloading the documents please inform your company details such as name, address, telephone nos., contact person and email address etc. by email to us. (**mukesh.suroshe@tifr.res.in**, **sheela@tifr.res.in**, **triveni@tifr.res.in**, **deepak.baghele@tifr.res.in**) to enable us to inform prospective bidder for any corrigendum/changes if any; in the Tender document before due date.
3. Quotations must be valid for a period of 90 days from the due date.
4. Tenders containing correction, overwriting will not be considered. Late or delayed/Unsolicited quotations/offers shall not be considered at all. These will be returned to the firms as it is. Post tender revisions/corrections shall also not be considered.
5. Tenderer should sign on all the pages of the tender.
6. The price quoted for Import item must be on following basis:
 - Ex-Work/factory duly packed airworthy/seaworthy and of international standard.
 - FOB/FCA
 - CIF Indian Port (all-inclusive i.e. Cost of Goods, Packing, Insurance, Inland transportation, freight etc.)

For local item /supply, offer should be on FOR basis (i.e. total landed cost for delivery at TIFR, Mumbai).

The dimension of the item (viz. H, W, L, weight etc.) shall be specifically stated and also mention whether the mode of shipping the item is Airworthiness / Seaworthiness or both. Accordingly, the mode of shipment will be decided by TIFR.

Price must be quoted in the Price Bid Format attached herewith

7. If equipment offered is to be imported, arrangements for import will be made by us.
8. Tenders who do not comply with any of the condition are liable to be rejected.
9. The Institute shall be under no obligation to accept the lowest or any other tender received in response to this tender notice and shall be entitled to reject any tender without assigning any reason whatsoever.
10. TIFR reserves the right to place the order for part/reduced quantity than what is specified in the tender.

- 11. PAYMENT TERMS:** 80% payment shall be made through irrevocable L/C on presentation of complete and clear shipping documents and balance 20% of the amount shall be released after the receipt, installation, commissioning and acceptance of the equipment.
- 12.** For Import cases: No Agency commission will be paid as per Govt. of India rules.
- 13.** TIFR is exempted from paying of Custom Duty under the notification No.51/96 dated 23.07.1996, for all procurements/supply meant exclusively for Educational, scientific and research purpose. Whenever the exemption certificate not honored by the authorities, the applicable duty will have to be paid. Hence Custom duties, if any, should be shown separately. TIFR is a public funded research institute and is entitled to concessional rate of GST @ 5% for certain items supplied for research purpose vide notification no. 47/2017 and 45/2017 dated 14th Nov, 2017. The offer should be submitted after fully considering the above notification.
- 14.** The delivery period should be specifically stated and earlier delivery may be preferred.
- 15. Bidders who have not accepted the job/order offered to them or withdraw from the tender process or whose EMD/Security deposit has been forfeited in the past will not be considered for this tender.**
- 16. The Supplier shall arrange to ship the ordered materials within the mutually agreed delivery period mentioned in the order unless extended with/without penalty.**
- In case of delay in supply on part of the supplier, a penalty @0.5% per week of order value will be charged for delayed period subject to a maximum of 10% order value.
 - If the delay in the shipment of the ordered materials attributable to the supplier exceeds agreed time period from the date of original agreed upon date of shipment and extended with/without penalty, the TIFR, Mumbai shall have the right to cancel the contract / purchase order and recover the liquidated damages from other dues of the party or by legal means. It will also affect the other/future business dealings with such suppliers.
 - The same rate of penalty shall be applicable for late installation of the equipment/instrument also.
- 17. COMMENCEMENT OF WARRANTY PERIOD:** The warranty period of an item shall commence from the date of receipt of the item in good working condition and satisfactory installation/commissioning/demonstration at the project site.
- 18. ANNUAL MAINTENANCE CHARGES:** The bidder shall quote the rate/amount of annual maintenance charges separately, however AMC shall be an optional, TIFR may or may not opt for it.
- 19.** Specifications are basic essence of the product. It must be ensured that the offers must be strictly as per our specifications. At the same time, it must be kept in mind that merely copying our specifications in the quotation shall not make the parties eligible for consideration of the quotation. A quotation has to be supported with the printed technical leaflet/literature of the quoted model of the item by the quoting party/manufacturer.
- 20. OBSERVANCE OF LOCAL LAWS:** Wherever applicable (particularly for Local vendors), the vendor / contractor shall comply with all law, statutory rules & regulations etc. The vendor/contractor shall obtain all necessary permits / approval from the local Governing Body, Police, and other concerned Authorities as may be required under law. The vendor /contractor shall pay all types of taxes, fees, license charges, deposits, duties, tolls, royalty or other charges that may

be liable on account of any the operations connected with the execution of this work/ contract.

- 21.** In case of any interpretational issues arises in this tender, the interpretation/decision of TIFR shall be final and binding on the bidder.
- 22.** It is the responsibility of the vendor to make sure that the system being proposed can be exported to India with TIFR as the end user. All clarificatory documentation must be submitted with the Bid.
- 23.** TIFR reserves the right to ask for or to provide any clarification, changes after the release of this tender. Any changes or clarifications provided by TIFR may be checked at TIFR website: www.tifr.res.in/tenders

ADMINISTRATIVE OFFICER
(PURCHASE SECTION)

TIFR Enquiry No & Date: _____

Due date: _____

PRICE BID

Bidder's Quotation Ref No. & Date: _____

Financial Bid (Bidders must quote their rates using this Format)

Sr. no.	Item Description as per the Tender/Inquiry	Make/Brand/ Type	Rate per unit	Qty	Basic Cost of main item (In Currency)_____
A					
B	Ex-Works cost (Duly packed Airworthy/Seaworthy of international standard)				
C	FOB /FCA Cost (Name of Airport_____)				
D	CIP/CIF Cost (Up to Mumbai Airport)(all-inclusive i.e. Cost of Goods, Packing, Insurance, Inland transportation, freight etc.)				

Note:

1. All the column should be appropriately filled and not left blank
2. Do not include any other charges, taxes, duties etc. in the Basic Cost of the item,
3. Any accessories, optional items should be shown separately using above format.
4. Use separate sheet for detail description, specification of the item, but prices should be quoted in same format.
5. Prices quoted in Indian Currency should be on F.O.R. basis and mentioned separately using different table format showing all the applicable taxes/Duties like SGST, CGST, IGST, Freight & Transportation charges and installation charges etc.
6. TIFR being educational & research institute, discounted price shall be offered.

Signature of the Bidder

Name, Address, contact no

& Email id of the

Bidder/Company

with company's stamp or seal

Date:

Place:
