

CENTRE OF PROPULSION TECHNOLOGY (CoPT) INDIAN INSTITUTE OF TECHNOLOGY MADRAS CHENNAI – 600036, INDIA

Ref. No.ASE/1718/144/DRDO/ASAM/023 Date: 25.07.2019

Item name: Supply of Laser Light Source- 1 No. Due Date: 16.08.2019

- 1. Quotations are invited in two-bid system for the item described overleaf (in Annexure I). The offers /bids should be submitted as Technical bid and Financial bid separately. The Technical bid should consist of all technical details / specifications only. The Financial bid should indicate item-wise price for each item and it should contain all Commercial Terms and Conditions including Taxes, transportation, packing & forwarding, installation, guarantee, payment terms, pricing terms etc. The Technical bid and Financial bid should be put in separate covers and sealed. Both the sealed covers should be put in a bigger cover. The words "Tender for supply of Laser Light Source" should be written on the left side of the Outer bigger cover and sealed.
- 2. The quotations should be valid for sixty days from the due date and the period of delivery required should also be clearly indicated.
- 3. The total cost of the equipment in terms of CIP Chennai should be clearly mentioned .
- 4. Terms of warranty and guarantee should be explicitly mentioned.
- 5. Packing and delivery charges, customs and clearance duty should be clearly stated.
- 6. Goods shall not be supplied without an official supply order.
- 7. Local firms: Quotations should be for free delivery to this institute. If quotations are for ex-godown, delivery charges should be indicated separately.
- 8. Firms outside Chennai: Quotations should be for F.O.R. Chennai. If F.O.R. consignor station, freight charges by passenger train / lorry transport must be indicated. If ex-godown, packing, forwarding and freight charges must be indicated.
- 9. If the required good is to be imported, delivery with CIP upto Chennai airport must be made. All relevant documents for customs clearance and other import formalities have to be provided well in advance.
- IIT Madras is eligible for concessional rate of GST 5%(for purchase of equipments, parts and consumables used in research). Concessional GST certificate will be issued after issue of purchase order
- 11. The rate of sales / general taxes and the percentage of such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, no claim for sales / general taxes will be admitted at any stage and on any ground whatsoever.
- 12. Payment : Payment is after delivery of goods. Every attempt will be made to make payment within 30 days from the date of receipt of bill / acceptance of goods, whichever is later. Advance payment will be considered only in special cases.
- 13. IIT Madras is eligible for concessional rate of customs duty. Necessary certificate will be issued on demand.
- 14. IIT Madras has the right to accept the whole or any part of the tender or portion of the quantity offered or reject it in full without assigning any reason.
- 15. The sealed quotation may be sent to

1 | P 2 0 0

Associate Professor

Associate Professor

Engineering

Associate Professor

Engineering

Chennal - 600 036
ET Madras, Chennal - 600 036-



CENTRE OF PROPULSION TECHNOLOGY (CoPT) INDIAN INSTITUTE OF TECHNOLOGY MADRAS CHENNAI – 600036, INDIA

- 15. IIT Madras has the right to accept the whole or any part of the tender or portion of the quantity offered or reject it in full without assigning any reason.
- 16. The sealed quotation may be sent to

The Purchase Manager, CoPT OFFICE, NCCRD Building Behind Aerospace Engineering Dept., IIT Madras, Chennai – 600036, Ph. (O) +91-44-22579863 ANNEXURE-1

Specification for the light source

Technical specifications and requirements

- 1. Light source: Pulse Diode Laser
- 2. Power: 400 W ± 10 %
- 3. Wavelength: 640 nm ± 10 nm
- 4. Pulse duration: 10 ns or lower
- 5. Should be able to reach duty cycle of 99% in High Speed
- 6. Frequency: Variable from 30Hz to 10Mhz
- 7. Manually adjustable suitable beam expander
- 8. It should have the capability to precisely synchronize with the following cameras, IX7 series and Photron SA-4 cameras
- 9. The laser spot size should be >/= 350 mm at a working distance of 2000mm and 35 mm at a working distance of 200mm
- 10. The system should be able to send and receive TTL signal for synchronization
- 11. The system should have safety of Remote Interlock and /or Mechanical beam stopper
- 12. The light source should be supplied with the required accessories such as power supply, control units, cables, noise filter (The items should be marked, "optional / recommended" based on the requirement of the laser system, which is to be used for the high-speed flow visualizations).

Contact person for technical clarifications:

Prof. G.Rajesh
 E-mail: grajesh@iitm.ac

Associate reposes Engineering

Associate reposes Engineering

Chennal - 600 v36.

2 | Page