

Continuous Wave (CW) Single Mode 2kW Fibre Laser Source

High power fiber laser sources are being used in several applications due to excellent beam quality, high efficiency, modular design, compact and lightweight systems and low maintenance cost. Design of 2 kW high power fiber laser is based on the Both-end Pumping Oscillator configuration. Most of the high-power systems employ this configuration to achieve higher output laser powers. The system will have necessary control electronics to monitor and control the whole system. The system uses water cooling provided by a chiller. The system operates on DC voltage of 48/72V.

1. Interested industries are requested to forward their Expression of Interest (Eoi) (with supporting documents as per annexure A and Application cum Industry Assessment Form (Part-1 & Part-2) attached) to the address mentioned below for Transfer of Technology (ToT) within 21 days of publishing of technology on DRDO web-page

To,
The Director
Centre for High Energy Systems and Sciences (CHESS)
RCI Campus, Vigyanakantha, Hyderabad, Telangana - 500069
E-mail: director.chess@gov.in
Ph: 040-24302870/ 24303330
Fax No: 040-24301513

2. A copy of Eoi may be sent to the following address without any attachment:-

To,
The Director
Directorate of Industry Interface & Quality Management (DIQM)
Room No. 447, DRDO Bhawan, Rajaji Marg, New Delhi-110 011
E-mail: diitm.hqr@gov.in
Phone No. 011-23007446
Fax-011-23793008

3. Special and Additional Conditions

Industries seeking ToT should have

(a) Indigenously developed and supplied high power fiber laser sources (>1kW output power) to Govt. Agencies/ PSUs in the past against Supply Order.

OR

(b) Demonstrated (>1kW output power) fiber laser in their premises and have following critical infrastructure facilities for building fiber lasers:

(ba) Clean room facility (Class 10,000 or better)

(bb) Optical integration facility consisting of splicing machine for Large Mode Area (LMA) Double Cladd Fiber (DCF), Cleaver & Re-coater for LMA DCF.

(bc) Power and Beam Quality (M^2) measurement set-up for up-to 2kW output power.

(c) Turnover of the Industry should be **Rs. 60 Cr or more** per annum for last three years.

(d) Industries desirous of participating in Eoi should be willing to realize one full system on **NC-NC basis** for demonstration to DRDO / potential users within a period of one year.

(e) Interested Industry must be in possession of relevant Industrial license issued by DPIIT, Ministry of Commerce & Industry as per Press Note 1 (2019 Series) under provision of IDR Act 1951/ Arms Act 1959 as amended.

Application cum Industry Assessment Form

All industries interested in seeking ToT are requested to apply in the format given below. Kindly fill in the fields. The list of documents to be attached is provided in Annexure – A. Kindly provide the reference of page no. of supporting document in the relevant field of form.

PART-1

General Information

(Please enclose documents in support of information provided)

| | | |
|-----|--|--|
| 1. | Name of the Technology requested for Technology Transfer (Technology name and concerned Lab, Category) | |
| 2. | Name of the industry/ organization | |
| 3. | Complete Address and other details | |
| | Registered Office State Phone No Fax Email Website | |
| | Factory State Phone No Fax Email Website | |
| 4. | Point of Contact Name Designation Address Mobile No Ph No Email ID | |
| 5. | NAME OF CMD/ MD /PARTNERS/ PROPRIETOR/ etc Name Designation Address Mobile No Ph No Email ID | |
| 6. | Date of Incorporation of company | |
| 7. | Foreign Direct Investment in company (if any in %) | |
| 8. | Shareholding pattern | |
| 9. | Turn over as per Audited Balance Sheet for the preceding three years. Year _____ Year _____ Year _____ | |
| 10. | Annual budget for R&D during last three years (if any) Year _____ Year _____ | |

| | | |
|-----|--|--|
| | Year _____ | |
| 11. | Income Tax returns for the preceding three years period Year _____ Year _____ Year _____ | |
| 12. | Nature of company DPSU, Private Limited, Public Limited, Partnership, Proprietary, Ex- Serviceman Unit | |
| 13. | Category of industry Large Scale, Medium Scale, Small Scale, Micro, Startup | |
| 14. | MSME Registration No | |
| 15. | Certificates of registration as a manufacturing unit, if any. | |
| 16. | If Startup, DPIIT Registration No | |
| 17. | UDYOG AADHAR No | |
| 18. | PAN Number | |
| 19. | Details of Industrial license for defence manufacturing issued by DPIIT (if any) | |
| 20. | Details of PESO license (if any) | |
| 21. | GST Number | |
| 22. | Nature of business Manufacturing/ Sole Selling or Authorized Agent/ Assembler/ Traders/ Dealer/ Processor/ Repacker/ Others | |
| 23. | Details of current products and services Products and services Supplied (please specify Govt/ Domestic market/ Export) | |
| 24. | Record of past performance (e.g., Supply orders executed against of Ministry of Defence orders, Public Sectors and Paramilitary Forces, if any). | |
| 25. | Details of registration with NSIC / SSI, DGS&D, other Defence Department, other Govt. Dept, membership of FICCI/ASSOCHAM/CII or other Industrial Association (Attach relevant copies of registration letters) | |
| 26. | Have you already taken any technology from DRDO (If yes, give details attaching separate sheet) Name of the Technology, Lab, Year, License number & Status | |
| 27. | ISO/ ISI certification or any other certification (If yes, give details) | |
| 28. | Relevant clearances form the authorities/ ministries (if any) | |
| 29. | Capacity and capability to undertake developmental work and to accept attendant financial and commercial risks. | |
| 30. | Capacity/capability to market the product through the marketing network, sales and | |

| | | |
|--|--|--|
| | service network, reliability to maintain confidentiality. | |
|--|--|--|

PART-2

Infrastructure and other Information

| | | |
|-----------|--|--|
| 1. | Total area of factory Covered (m ²), Uncovered (m ²), Bonded space available (m ²) | |
| 2. | Ownership of factory Self-owned, partnership, rental | |
| 3. | Electric power Sanctioned Installed Standby (if any) | |
| 4. | Availability of adequate infrastructure (List of machines and their production capacities) and technical expertise | |
| 5. | Name of bank & A/c No Name of bank A/c type A/c no Address of the bank Phone: Email: | |

6. Details of current products:

| S. No | Type | Description | Licensed/installed capacity | Annual production for preceding 3 years |
|-------|------|-------------|-----------------------------|---|
| | | | | |

7. Details of foreign collaboration, if any

| S. No | Product | Name and address of collaborator | Year | Remarks |
|-------|---------|----------------------------------|------|---------|
| | | | | |

8. Details of products developed for services

| S. No | Nomenclature of stores | Order No. and date | Remarks |
|-------|------------------------|--------------------|---------|
| | | | |
| | | | |

9. Please give details of important facilities & infrastructure as per following format for:

- (a) Production
- (b) Unconventional, special m/c
- (c) Testing & quality control facilities

| S.No | Description of m/c | Make & model | Qty | Date of purchase | Remarks |
|------|--------------------|--------------|-----|------------------|---------|
| | | | | | |

10. Furnish the following details with relevant certificates and documents

- (a) R&D facilities available
- (b) Inspection quality control of raw material components
- (c) Assistance from central agency for testing / calibration etc.
- (d) laboratory and drawing office facility

11. Principal customers:

| S. No | Name & address | S.O No and date | Date of last supply | Products supplied | Value |
|-------|----------------|-----------------|---------------------|-------------------|-------|
| | | | | | |
| | | | | | |

12. Future plans (if any) in respect of expansion programme/ installation of additional machines/ test facilities etc.

13. Name of the technology requested for transfer
(give self-assessment of your capability to absorb the technology)

14. Details of employee as on date on firm's pay roll

| PERMANENT | | | | |
|------------------|---|--------|---------------|---------------|
| Category | Post Held | Number | Qualification | Total Service |
| Technical | Prod. Manager Q.C. Manager Supervisor Testing Staff (QC) Skilled workers Unskilled workers, etc | | | |
| Administrative | Purchase Manager Accounts Officer Office Superintendent Clerical Others, etc | | | |

| TEMPORARY | | | | |
|------------------|---|--------|---------------|---------------|
| Category | Post Held | Number | Qualification | Total Service |
| Technical | Prod. Manager Q.C. Manager Supervisor Testing Staff (QC) Skilled workers Unskilled workers, etc | | | |
| Administrative | Purchase Manager Accounts Officer Office Superintendent Clerical Others, etc | | | |

DECLARATION:

I / we confirm that the information furnished in Part 1 & 2 above is correct. In the event of any information given by me / us is found incorrect / false at any time, I / we understand our EoI for ToT will be cancelled/ rejected without notice, beside any other appropriate action against me / us.

Industry seal

Authorized signatory

Name(s) in capital

Designation and seal of authorized signatory

Date:

Place:

List of supporting documents to be attached with EoI

- (a) Memorandum and Articles of Association (Should be incorporated as per Indian Companies Act, as amended time to time)
- (b) Certificates of registration as a manufacturing unit, if any.
- (c) Audited Balance Sheet for the preceding three years.
- (d) Income Tax returns for the preceding three year period
- (e) Details of shareholding/ownership pattern especially foreign partners/ shareholders, foreign employees, directors, etc. The company must adhere to the prevailing Govt of India policies and regulations on Foreign Direct Investment (FDI)/DIPP norms as applicable.
- (f) Annual budget for R&D during last three years.
- (g) Numbers and details of IPR or patents, etc., held by the company.
- (h) Number of technically or professionally qualified personnel.
- (i) Record of past performance (e.g., Supply orders executed against of Ministry of Defence orders, Public Sectors and Paramilitary Forces, if any).
- (j) Availability of adequate infrastructure (List of machines and their production capacities) and technical expertise.
- (k) List of Testing and Support equipment's
 - (l) ISO/ ISI certification or any other certification
- (m) Relevant clearances form the authorities/ ministries (if any)
- (n) Capacity and capability to undertake developmental work and to accept attendant financial and commercial risks.
- (o) Capacity/capability to market the product through the marketing network, sales and service network, reliability to maintain confidentiality.
- (p) PESO and DPIIT license for explosive handling if ToT is for high energy Material, explosives, propellants, and component/ system dealing with it etc.
- (q) Under taking form company seeking ToT that none of its Directors, Independent Directors, non-executive Directors, Key management personnel are involved in any corrupt practices, unfair means and illegal activities.
- (r) Details of the industrials license as per Press Note 1 (2019 Series) issued by DPIIT for defence manufacturing be provided by the industry seeking ToTs.
- (s) Application cum Industry Assessment Form