



सत्यमेव जयते

दूरभाषी :
TELEPHONE: 25595154
e-mail : ralaxmi@barc.gov.in

भारत सरकार
GOVERNMENT OF INDIA
भाभा परमाणु अनुसंधान केन्द्र
BHABHA ATOMIC RESEARCH CENTRE
प्रगत भारी पानी प्रभाग
ADVANCED HEAVY WATER REACTOR DIVISION

ट्रॉम्बे,
मुंबई - 400 085,
HALL No. 7,
TROMBAY,
MUMBAI - 400 085

Ref: AHWRD/RGK//MF/2021/P-12737

Nov 17th , 2021

To,
All Parties Concerned

Dear Sirs,
Sub: Minor Fabrication - Invitation to quote
Note : Only Postal Quotations will be accepted.

1. Sealed quotations are invited by undersigned for and on behalf of the President of India for the work as per the requirements given in the Scope of Supply, details listed in this document, Technical Specification (enclosed as Annexure-I).
2. The quotation must reach Head, Advanced Reactor Instrumentation & Electrical Section, AHWRD, BARC Mumbai at given address latest by **22/11/2021**. The envelope should be super scribed “**Minor Fabrication-** Fabrication of Laser Diode Pointer with enclosure and USB rechargeable battery” and should indicate this office Ref. No. and due date of opening clearly. The envelope should be sealed.
3. The quotation should be send by speed post/registered post/ordinary post through Indian Postal Services only so that it reaches office on or before **22/11/2021 by 16.00 Hrs.** Address for sending quotation is as following:

Head, ARIES, AHWRD,
Room No-206
Engineering Hall No.7,
Bhabha Atomic Research Centre
Trombay Mumbai 400085
(Kind attention: Smt. Rajalakshmi R, AHWRD, Tel no. 2559 5154).

- I. SCOPE OF THE WORK: Please refer to the enclosed *Annexure-I*, which describes the detail specifications & scope of the work.
- II. FREE ISSUE MATERIALS: (As per *Annexure-I*).

1 Duration of work:

The earliest period by which the job can be executed in totally should be clearly stated in the quotation and such period should be strictly adhered to in the event of a work order. However the job shall be preferably completed within 3 months from the 5th day after date of issue of work order.

2 General Instructions:

- 2.1 In this document, the agency/supplier on whom the work order will be placed is referred to as the “Contractor”. The agency executing/issuing this work order will be referred to as the “Client”.
- 2.2 **The bidders should quote in a modular way, rate wise, for work listed sheet wise, as per the table in the scope of supply. Lump-Sum quotations will not be considered.**
- 2.3 GST: Since the goods are to be supplied against the work order meant for research purpose of a research organization under DAE, Govt. of India, the applicable GST for such cases shall apply. These should be quoted separately.

- 2.4 Taxes, duties, if any, applicable should be indicated separately.
- 2.5 Where, the prices quoted are inclusive of excise duty, the percentage/quantum of excise duty included in the quoted price should be specifically indicated in the tender.
- 2.6 Place of work: All work covered in the scope of supply, is to be carried out at the Vendor premises.**
- 2.7 Inspection of the work is carried out departmentally after completion of the work.
- 2.8 The bidders who require any technical qualification can contact Smt Rajalakshmi on ph no: 25595154 and Shri R G Kamanth on telephone no 025597165.
- 2.9 The contractor shall have to maintain the area assigned to him for the work very clean and shall follow the instructions of Engineer in-charge from the Client side in this regard. All equipment/tools etc. are to be removed and clean the area after the end of the day's work.
- 2.10 In case any extension in the job completion period is required, the contractor has to write to the Client, giving proper justification for the delay. The decision to approve the extension rests with the Client. No extra cost will be paid to the Contractor for this extension of time.
- 2.11 With the offer, bidders should please furnish the detailed information regarding whether an ex-employee of BARC is working in your organization or whether any of your relatives is working in DAE/BARC or you are an ex-employee of DAE/BARC. In absence of such information or wrong information, the quotation or contract is likely to be rejected /cancelled.
- 2.12 The offer shall be kept valid for a period of 60 days from the date of opening of the tender.
- 2.13 The Client reserves the right to alter the quantity while placing the order.
- 2.14 The Client reserves the right to accept or reject any or all the quotations received without assigning any reasons whatsoever.

3 Commercial Terms:

- 3.1 Payment will be made at the end of the completion of the full scope of work or after 3 months reckoned from the 5th day after the date of issue of the work order, whichever is earlier.
- 3.2 Release of advance or interim payment cannot be considered.
- 3.3 Payment will be made by ECS after satisfactory completion of the work as per Government rules.
- 3.4 At the time of settlement of claims, the Contractor has to submit bills/Invoice in triplicate, advanced stamped receipt, work completion certificate from the Client and Bank Details of the contractor to the Client.
- 3.5 Taxes: Incometax@2% and applicable surcharge will be deducted from your bill. TDS certificate to that effect will be issued by BARC, if so desired.
- 3.6 Bidder should note that BARC is final consumer of the goods/services procured and does not intend to make any outward supply. BARC will not avail the benefits of input tax credit and hence, the good can be supplied without quoting the GSTIN of BARC, Mumbai on invoice. The invoices taxed under GST, as per rates applicable under the GST schedule of rates, will be admitted for payment.
- 3.7 GSTN Invoice: The invoice raised by the registered supplier of taxable goods/services along with other details specifically indicating: GSTN, PAN, Location of supply, tax component to be separately indicated.
- 3.8 An undertaking shall be furnished by the registered supplier that the GST has been promptly deposited with the authorities.
- 3.9 Recovery of TDS @1% on GST in case of payment of invoices for supply under contract exceeding Rs.2.50Lakhs.

4 Confidentiality:

- 4.1 No party shall disclose any information to any third party concerning the matters under this contract generally. In particular, any information identified as proprietary in nature by the disclosing party shall be kept strictly confidential by the receiving party and shall not be disclosed to any third party without the prior written consent of the original disclosing party. This clause shall apply to the sub-contractors, consultants, advisers or the employees engaged by the party with equal force.
- 4.2 Restricted information categories under section 18 of the Atomic Energy Act, 1962 and "Official Secrets"

under section 5 of the official secret act, 1923: Any contravention of the above mentioned provisions by any contractor, sub-contractor, consultant, adviser or the employees of a contractor will invite penal consequences under the aforesaid legislation.

- 4.3 Prohibition against use of BARC's name without permission for publicity purposes: The contractor or sub-contractor, consultant, adviser or the employees engaged by the contractor shall not use BARC's name for any publicity purpose through any public media like press, radio, T.V. or Internet without prior approval of BARC.

5 Safety:

- 5.1 Above work calls for adherence to safe work practice. BARC shall not be responsible for any damage, injury, death etc of any contractor's personnel under any circumstances. No compensation claim shall be admitted in this regard.

6 Confidentiality:

- 6.1 No party shall disclose any information to any third party concerning the matters under this contract generally. In particular, any information identified as proprietary in nature by the disclosing party shall be kept strictly confidential by the receiving party and shall not be disclosed to any third party without the prior written consent of the original disclosing party. This clause shall apply to the sub-vendors, consultants, advisers or the employees engaged by the party with equal force.
- 6.2 Restricted information categories under section 18 of the Atomic Energy Act, 1962 and "Official Secrets" under section 5 of the official secret act, 1923: Any contravention of the above mentioned provisions by any vendor, sub-vendor, consultant, adviser or the employees of a vendor will invite penal consequences under the aforesaid legislation.
- 6.3 Prohibition against use of BARC's name without permission for publicity purposes: The vendor or sub vendor, consultant, adviser or the employees engaged by the vendor shall not use BARC's name for any publicity purpose through any public media like press, radio, T.V. or Internet without prior approval of BARC.
- 6.4 The vendor on receiving the order shall give an undertaking and shall not disclose and share the contents of tender with any other division of BARC without permission from Head, ARIES, AHWRD.

7 Guarantee:

The work pertaining to the design shall be guaranteed against any defects/faulty workmanship for a period of one year from the date of acceptance. During the above period if the items become defective, bidder will be responsible for making arrangements for repairing at free of charge. Contractor will issue the guarantee certificate at the time of commissioning/acceptance by department, mentioning the contents of the guarantee clause as mentioned above.

Enclosures:

- 1) Annexure-I: Technical Specifications


18/11/21

(R. Rajalakshmi)

Head, Advanced Reactor Instn & Elect Section,
AHWRD

राजलक्ष्मी आर / RAJALAKSHMI R
अध्यक्ष / HEAD
उन्नत रिएक्टर यंत्रिकरण तथा विद्युतीय अनुभाग
Advanced Reactor Instrumentation & Electrical Section
उन्नत भारी पानी रिएक्टर विभाग
Advanced Heavy Water Reactor Division
भाभा परमाणु अनुसंधान केंद्र
Bhabha Atomic Research Centre
भारत सरकार / Government of India
ट्रॉम्बे, मुंबई - 85 / Trombay, Mumbai - 400 085.

ANNEXURE-I

Technical Specifications for Fabrication of Laser Diode Pointer with enclosure and USB Rechargeable battery.

1. Scope of Work:

The scope of work involves fabrication of Green Laser Diode Pointer with enclosure and USB Rechargeable battery to be fabricated shall be compact with SMD components, handheld laser devices. It will be typically used to highlight an object or point of interest by illuminating it with a bright spot of colored light on the screen during presentations/lectures etc. The pointer visibility shall be very good on LED/LCD/ Plasma screens. The enclosure shall be circular tube with space for the laser diode assembly and the batteries. The laser diode assembly is pushed or screwed into one end of the enclosure. The battery shall be rechargeable with USB port for charging.

The amount of fabrication job is covered in the Scope of fabrication work. The general Scope of fabrication work includes:

Sr No	Description	Qty	Total cost
1.	Fabrication of Laser Diode Pointer with enclosure and USB Rechargeable battery	100 Nos	

2. **Free issue material:** No free issue material will be given to the fabricator.

3.0 Detailed specifications for fabrication of Laser pointer circuit board, USB Port and enclosure

3.1 Detailed specifications for artwork and fabrication of PCBs

The circuit board contains the switch, the laser diode, and the components of the control circuitry, typically a photodiode, diodes, resistors, and capacitors.

- a. The PCB shall be SMD type with The PCB dimensions should be such that the PCBs should fit in 14 mm OD circular enclosure.
- b. The PCBs should be covered by Green masking layer.
- c. The PCB should be fabricated for through hole components.
- d. 100 Nos. of Laser pointer circuit board PCBs should be fabricated.
- e. The resistors, capacitors, diodes, potentiometers and ICs, USB connector and LEDs are to be supplied by the fabricator.

3.2 Installation of the Laser Pointer circuit PCB and associate accessory into Enclosure.

- Mounting of Circuit PCB into Enclosure (The pointer enclosure shall be circular with maximum Outside diameter of 14 to 15mm.)

- The enclosure shall have Green laser diode on one side and re-chargeable battery with USB port for charging on the other side.
- The USB port shall come out by sliding a small switch while charging.
- The enclosure shall have 50 mm long pin type clip (like pen) and shall have 10mm dia circular disc with BARC symbol embossed on it. The pointer “ON” switch can be below this clip (or) separately.
- Laser Diode Assembly consists of a laser diode, a circuit board, USB charging and Enclosure. Block diagram of the control circuit is shown in the figure.
- Enclosure as shown in figure 2 should have
 - ✓ Flush mounted switch on the surface.
 - ✓ Clip to fix in the pocket.
 - ✓ Logo fixed on the clip (Logo will be provided after placement of work order).
 - ✓ Rechargeable battery slot with USB based charging
- The sample enclosure and circuits shall be fabricated first, demonstrated and approval shall be obtained for the same before proceeding with fabrication of the ordered quantity.
- Minor modifications in the sample enclosure & electronics if required, will be informed during testing and approval.

3.3 Laser Diode has following specifications

- Power: 5mW Lasers
- Color: Green
- Wavelength: 532nm Lasers
- Light Style: Beam Light

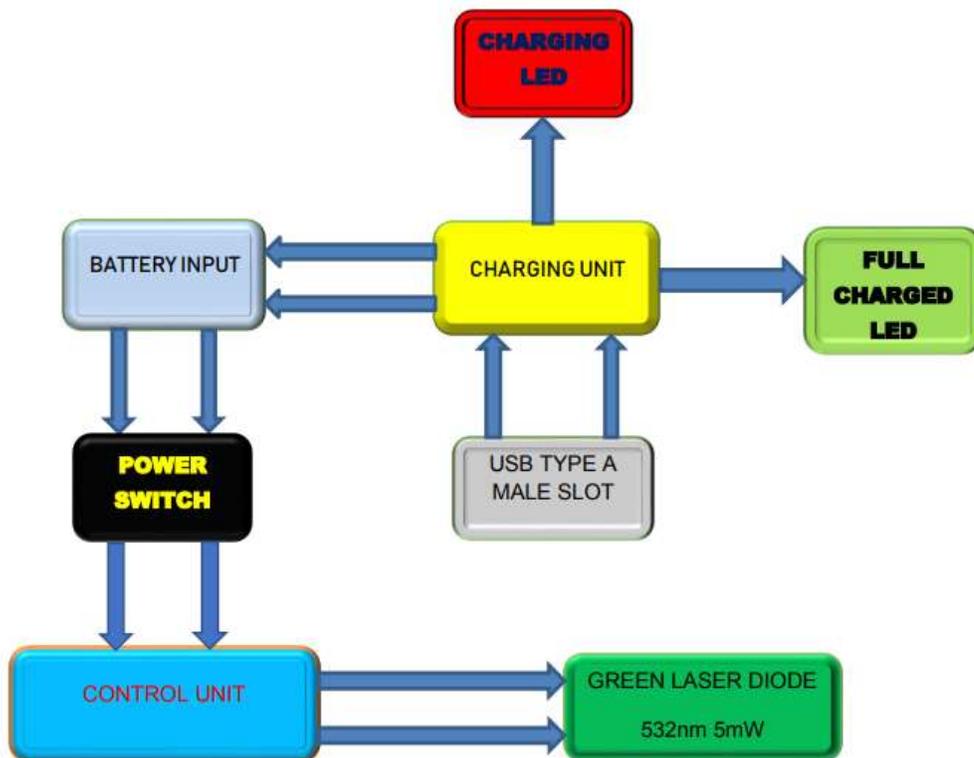


Figure 1 Block Diagram of Laser Diode Pointer and USB Rechargeable battery

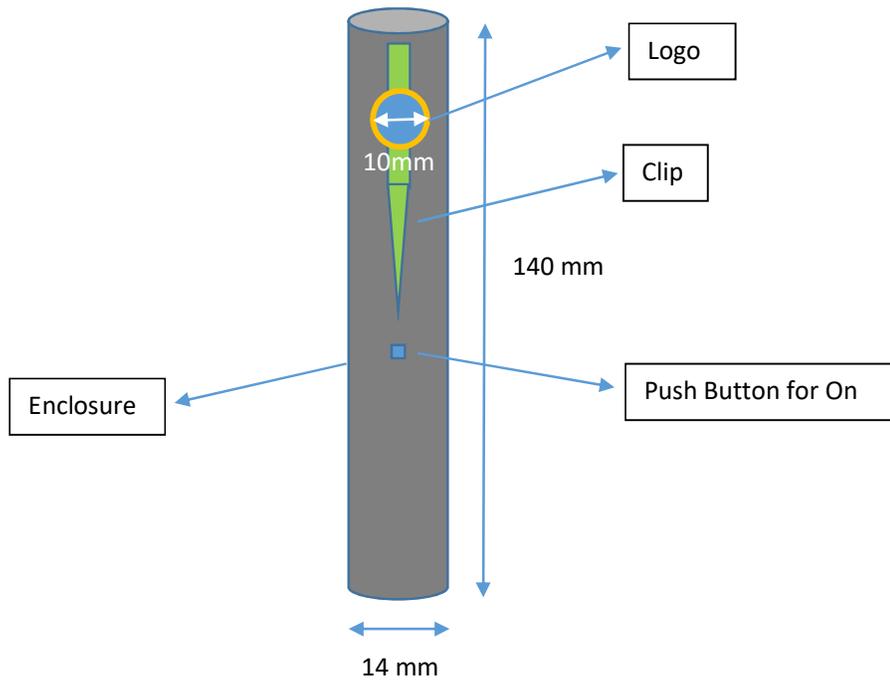


Figure 2 Enclosure for Laser Pointer

4.0 Completion of contract:

The jobs to be executed by the contractor shall be deemed to be completed only when:

- I. The PCB fabrication, Component placement and installation are carried out as per the technical requirements given in this tender document.
- II. Inspection and testing is completed to the fullest extent.
- III Any defects, deficiencies brought out during testing are rectified and retested where ever necessary till the job is completed to the satisfaction of the engineer.