

**GOVERNMENT OF INDIA
BHABHA ATOMIC RESEARCH CENTRE
Technical Physics Division
PURNIMA Laboratories**

Ref: TPD/NSRPS/MF/2021/39

**Date: 15-12-2021
Due Date: 24-12-2021**

Sub : Minor Works - invitation of quotations.

1. Sealed quotations are invited for annual maintenance contract for high voltage ion accelerator system, ultra-high vacuum based system and high-pressure gas generator system as per scope of work and specifications given in Annexure-I
2. All applicable Taxes should be quoted separately.
3. The quotations must reach to the Head, TPD within 10 days of the date of this letter and must be sent by **Indian Speed post / Indian Post** only in a sealed envelope superscripted with the above reference number and due date given above
4. The address on the envelope should read:
**Head,
Purnima Labs
Technical Physics Division
Bhabha Atomic Research Centre
PURNIMA Labs., Trombay, Mumbai 400085.**
5. **Terms and conditions of payment:** 100% payment will be made only after successful completion of work. Other terms and conditions as per Annexure-I
6. The minor work shall be subject to the inspection by our representative.
7. Head, TPD, BARC, reserves the right to accept/reject any or all quotations without assigning any reason.
8. The bidder should furnish the GST, PAN and TIN numbers in their quotations without which the quotations will be rejected.
9. Clarifications for executing the order can be sought after issue of order.

Head,
TPD

Enclosure:

Scope of work and technical specifications as per Annexure-I

Annexure-I

Tender Notice No: **TPD/NSRPS/MF/2021/39**

Sealed quotations are invited on behalf of the President of India by Head, Technical Physics Division for Annual maintenance contract for high voltage ion accelerator system, ultra-high vacuum based system and high-pressure gas generator system in Purnima and New Purnima extension Building, Dhruva Reactor Hall, Apsara-U Reactor Hall, Technical Physics Division, BARC, Mumbai - 400085

Scope of Work:

1. Assembly and testing of high voltage power supplies for Ion Source and Acceleration Column. This includes fabrication of HV step-up transformers, soldering of components on PCB, electrical cabling and software development for remote control.
2. Preparation of various vacuum systems, which includes systematic cleaning of components and assembly of vacuum joints for ion source and acceleration column.
3. Mechanical assembly of systems related to ion source system such as fitting, drilling, welding, fixing etc.
4. Filling of gas cylinders using in-house gas generator system from time to time
5. Regular cleaning, lubrication, inspection and maintenance of critical components at various facilities of our section.
6. Careful movement and installation of critical and heavy components such as lead and polythene assemblies, controller assemblies etc.
7. Disposal of waste material, cleaning of spare parts, replacement of defective fittings/components etc.

Contract requirements:

There are different mechanical and electrical sub systems such turbo molecular pumps, rotary pumps, Ion source assembly, acceleration column, stepper motor translation and rotational stages, detector systems, shielding assemblies etc. These systems require various mechanical structures, vacuum pumps, electrical power and cooling systems. All these equipment's need frequent maintenance, servicing and cleaning. Moreover, miniaturization of entire assembly is being developed which requires customized power supplies to be assembled and tested at our facility. In view of jobs to be carried out, it is desired from contractor to put sufficient man power with adequate qualifications as given below.

1. B.E Electrical with additional experience in electronics and communications (01 No.)
2. Mechanical Trade Fitter (1no)

Work Contract Schedule:

1. The team consisting of required manpower has to attend various facilities of the section as per the schedule made by Engineer-In-Charge (EIC).
2. All consumables and spare parts will be supplied by EIC at site.
3. The team should attend the break down complaints over and above routine cleaning and maintenance as and when called for and as directed by EIC.

Terms and Conditions:

1. All works shall be carried out at site.
2. Necessary equipment's/tools, safety helmets will be provided by EIC, TPD, BARC.
3. Personal protective gears such as safety shoes, socks shall be provided by Contractor.
4. All safety precautions must be taken while working on site. Any loss or damage to the property/machine will be recovered from the Contractor.
5. Contractor shall arrange for the Police Verification Certificate (PVC) for man power deputed on site. No person without PVC will be allowed to enter inside BARC.
6. Necessary safety precautions must be taken while working on site. BARC shall not be held responsible for any injury or accident taking place on site.
7. Personnel working at site should carry out cleaning of site and its surrounding regularly and maintain safe and hygienic working environment.
8. Bidders should submit work experienced certificate/past work orders stating work experience related to items mentioned in Scope of Work.
9. **Late/Delayed tenders will not be entertained.**