

**Bhabha Atomic Research Centre**  
**Technical Physics Division**  
**PURNIMA Laboratories**

Ref: BARC/TPD/NSRPS/49

Date: 03/10/2022

Due Date: 17/10/2022

**Sub: Semi-annual Maintenance contract for high voltage power supplies, control boards, various systems and equipments**

On behalf of the president of India acting through Head, Technical Physics Division, sealed quotations are invited from vendors for Semi-annual Maintenance contract providing Maintenance, technical & mechanical assistance, retrofitting, testing and calibration of high voltage power supplies and control boards, various systems and equipments in Neutron and Synchrotron Radiation Physics Section, Technical Physics Division, BARC, Mumbai-400085. The work is to be carried out at different locations of laboratories of NSRPS inside BARC such as Purnima Labs, New Purnima Extension Building, Modular Labs, Apsara-U and Dhruva. The description of work to be carried out is as follows:

1. Semi-annual Maintenance contract for high voltage power supplies, control boards, various systems and equipments –  
 Duration of contract: 6 months  
 Description of Work
  - a. Calibration, testing and maintenance of high voltage compact power supplies with voltages upto 100kV to 150kV DC at site. Preparation and checking of printed circuit boards using standard designing software, etching and testing of components on boards etc as per indenting officer design.
  - b. Checking and redesign for the functioning of microcontroller based various control boards, checking condition of components for high voltage electronic power supplies at site.
  - c. Overhauling, retrofitting of heavy duty three phase motor, lubrication, mechanical realignment of rack & pinion of heavy-duty shielded door at Dhruva and Apsara-U beamline.
  - d. Checking condition, calibration, testing of variable frequency drive control unit of three-phase motor of shielded door at Apsara-U and Dhruva beamline.
  - e. Checking condition of interlock setup, rewiring, rerouting of electrical cabling inside the shielded hutch at Dhruva and Apsara-U beamline.
  - f. Checking the conditions of electrical components like motor condition, cable termination, contactor condition, wiring, insulation, limit switches, earthing connections, push buttons etc.
  - g. Maintenance , process operation and assistance for shutter, sample manipulators and shielded door of Dhruva and Apsara-U beamlines
  - h. Maintenance and process operation assistance for diffusion vacuum based system, thin film coating unit and compact DC accelerators
  - i. Maintenance and process operation assistance for diffusion vacuum based system, thin film coating
2. In view of jobs to be carried out, it is desired from contractor to put skilled man power with qualification and experiences as given below
  1. B.E Electrical with additional experience in electronics board design, PCB design and fabrication, control board development , programming, instrumentation and wiring
  2. Mechanical Trade Fitter with 1 year/more experience in doing jobs like vacuum system handling, retrofitting, overhauling, welding, polishing, ultrasonic cleaning, fitting, drilling and tapping etc.

3. This is two-part Tender. The tender will be opened in two parts.

1) Part A - Technical bid (should not include the quoted price), & 2) Part B- Price Bid.

Hence, the Vendor has to submit the quotations against this tender in two separate sealed envelopes clearly mentioning Tender No, Part A and Part B on the envelope. Both the envelopes should be posted in a single bigger envelope and Tender No., and due date should be written on top of the main envelope.

Part A will be opened as per due date; Part B will be opened only after scrutinizing the technical part by appropriate committee or authority. Only the Part B of technically suitable offer will be opened for further processing.

Note: The offer with the single bid (either Part A /Part B) will be considered as invalid offer.

For technical clarifications, vendors can contact at 022-25593679, 022-25593794, 022-25595492 in between 10 am to 5 pm on any working day from Monday to Friday.

4. Quotations must reach to Head, Technical Physics Division on or before the due date and must be sent in a sealed envelope super scribed with the above reference number and due date given above  
 Head,  
 Technical Physics Division  
 Bhabha Atomic Research Centre  
 Purnima Labs., Trombay, Mumbai 400085.  
**Attn: Baribaddala Ravi**
5. The due date of receipt of sealed quotations is 17/10/2022 upto 17.00 hrs at Technical Physics Division Office,

Modular Labs, BARC, Mumbai – 400085.

6. Sealed quotations shall be sent through Postal Registered/Speed Post only, so as to reach on or before 17/10/2022. Offer received through courier or person and after due date will be treated as invalid.
7. Following criterial is required for acceptance of tender inquiry by the vendor/contractor:
  - a. Vendor/Contractor should have pre-cleared security vetting of his company/firm as per BARC security rules
  - b. Vendor/Contractor coming for discussion & getting tender enquiry should have valid pass of BARC with valid PVC, No TEP will be made by BARC.
  - c. All worker/labour/staff of the Vendor's/Contractor's company/Firm should have valid PVC not expiring during the duration the completion of whole work. (i.e. from the date of issue of this enquiry till the duration period of work order and completion of job.)
  - d. All worker/labour/staff of the Vendors/Contractor for execution of job in this tender should have proper PPE& arrangement for all above shall be made by contractor/vendors.
  - e. The Vendor/contractor shall on daily basis depute suitable assistances having complete knowledge of different streams as per the description of works as per the instructions/guidance of EIC, department personnel on all working days for a period of 6 months from the date commencement of work after the issuance of the order.
  - f. It is mandatory for the vendor/contractor to collect technical specifications from the EIC to have detailed knowledge of works to be carried out and visit the site compulsorily to know the scope of the job and site constraint before quoting.
  - g. It is mandatory for the vendor/contractor to certify about completion of their site visit, acknowledgement of the receipt of the technical specification, understanding the detailed scope of work before submitting the quotation. Any quotation received without their certification will not be opened and will not be considered in the tendering process.
  - h. Time allowed for carrying out the daily activities by the Engineer in charge shall be strictly observed & followed by the contractor and shall be deemed to be the essence of the contract on part of the contractor. The contractor shall follow the time schedule keeping the phasing of the work generally in line with the schedule of work planned by the EIC, Contractor shall strictly adhere to such approved schedule of activities.
  - i. All worker/labour/staff of the Vendor/Contractor should follow the safety procedure while working inside the BARC. Vendors/Contractor should arrange all the safety appliances.
  - j. The Vendor/Contractor shall follow the Industrial Safety Regulations strictly. Any injury/damage caused to the contractor's work force during execution of the work for any reasons related to the contractor's work force whatsoever shall be the liability of the contractor only
  - k. The bidder shall have to take an insurance policy against any material issued to him by the purchaser
8. The bidder should furnish the GST, PAN numbers in their quotations without which the quotations will be rejected.
9. Taxes shall be quoted separately.
10. Head, TPD, BARC reserve the right to accept/reject any or all quotations without assigning any reason.

Head  
Technical Physics Division