

**Government of India
Bhabha Atomic Research Centre
Laser & Plasma Technology Division**

Trombay
Mumbai - 400 085.

REF: LPTD/BD/2018/188062

Date: 01/10/2018

Notice inviting tenders

To : All parties
Sub : Installation of vacuum system for EB furnace as per annexure-1.

DUE DATE: 10/10/2018

Dear Sirs,

1. Quotations are invited for the minor fabrication job as per the enclosed specifications. Taxes and excise duties shall be quoted separately. PAN number and GST number of the party must be mentioned in the quotation.
2. The quotations must reach Head, Laser & Plasma Technology Division by the due date as above and must be sent in a sealed envelope *superscribed with the above reference number and due date given above*. Quotations must be sent by registered/speed post through Indian postal services.
3. The address on the envelope should read
Attn. Dr B Dikshit: Installation of vacuum system
To
The Head,
Laser & Plasma Technology Division.
Modular Lab., BARC, Mumbai - 400 085.
4. The bidder shall get the job approved by our engineer and complete the work order within 90 days from the date of issue of work order.
5. Head, Laser & Plasma Technology Division, BARC reserves the right to accept or reject any or all quotations without assigning any reason.

Yours faithfully.

B. Dikshit

Dr B Dikshit
SO/H, L&PTD

Dr. B. DIKSHIT
Officer - in - Charge
RIS Process Engineering
L&PTD, BARC,
Mumbai - 400 085.

Encl: Detailed Technical Specification (Annexure-1)

Copy to:

- 1) BARC site (Hall-6)
- 2) SIRD (for uploading in BARC website)
- 3) V S Bhavan notice board

Technical Specification for Installation of vacuum system for EB furnace

Specification	Quantity
<p><u>Installation of vacuum system for EB furnace</u> <u>Scope of work</u> 1) Shifting of vacuum chamber (Weight ~ 1 ton) to specified area in Hall-6. 2) Assembly of all the vacuum components such as rotary pump, diffusion pump, baffle valve, isolation valves and chamber using bellows and SS pipes. 3) A strong supporting structure to be welded at the base of vacuum chamber for its stability. 4) Water connection to be supplied to diffusion pump and vacuum chamber for efficient cooling. Required valves and flow switches to be installed in the lines. 5) High vacuum with pressure $< 8 \times 10^{-6}$ mbar to be demonstrated in the vacuum chamber. If any leak in vacuum lines is found by Helium leak detector, required welding has to be done to close the corresponding leak.</p> <p>NOTE: All materials will be supplied by BARC. As it is a labor job to be executed inside BARC, the vendor should have PVC for its workers.</p>	1 No.

General Specifications

1.0 Free issue materials :- No free issue materials

2.0 Quality surveillance, inspection and inspection report

2.1 All work covered by the specification shall be subject to quality surveillance by the purchaser or his authorized representative for which purpose the fabricator shall allow access at all reasonable time during manufacture to

2.1.1 The premises in which the work is being carried out.

2.1.2 The drawing and/or tooling involved.

2.1.3 Gauge instruments, etc. required for inspecting the work.

2.2 Inspection and tests shall be carried out by the fabricator as per the requirements detailed in the drawings and these specifications.

2.3 Components found unsatisfactory as to workmanship or material shall be removed by fabricator and replaced by components, which are satisfactory.

3.0 Delivery

The bidder shall deliver the finished components after approval by our engineer within 90 days from the date the firm purchase order is issued to bidder.

4.0 Subcontract

4.1 The fabricator shall not sub-contract any or all the work without written consent from the purchaser, The Fabricator shall be responsible to the purchaser for all work of the sub-contractor of the fabricator, if allowed by the purchaser.

5.0 Tax

5.1 H form will be issued if necessary.

Income Tax @ 2% will be deducted from your bill for an amount > Rs. 20,000/.

Guarantee certificate/warranty certificate may be forwarded along with the bills.

Payment: Payment shall be made only on satisfactory completion of work and on production of bill, advance stamped receipt and guarantee / warranty certificate.