

Government of India
Bhabha Atomic Research Centre
Laser & Plasma Technology Division
Trombay, Mumbai -85

REF: WORKS/LPTD/PPS/DRB/2022/ 61147

Date: 20-12-2022

NOTICE INVITING TENDER

Operation and maintenance of sputtering and EB PVD system as per details in annexure B.

Due date: 3/1/2023

1. Head Laser & Plasma Technology Division, BTDC, BARC, Trombay, Mumbai-400085 invite sealed Quotations, on behalf of "The President of India" for the above file as per the scope of work described in Annexure B of the tender document.
2. Quotations are to be in printed letterhead / quotation format, which should consist of GST Registration Number registered with local ST authority / GST authority, PAN Number of the firm, etc. Quotations that are received in computer-generated form are to be construed as invalid and rejected.
3. The quotations are to be submitted only through Registered / Speed post through Indian Postal Service.
4. The price part shall be submitted with taxes and duties quoted separately.
5. The quotations must reach, **Head, Laser & Plasma Technology Division** by due date and must be sent in a sealed envelope *superscribed* with the above reference number and due date given above.
6. The address on the envelope should read:
The Head Laser & Plasma Technology Division
Bhabha Atomic Research Centre,
Trombay, Mumbai - 400 085.

(Attn.: Devendra Bhale)

7. Income Tax @2%, surcharge, cess on Income Tax as applicable and TDS @2% will be deducted from the payment made to the contractor.
8. Payment will be made after satisfactory completion of work. Payment will be released only through ECS.
9. Head, Laser & Plasma Technology Division, BARC, reserves the right to accept/reject any or all quotations without assigning any reason.

Yours faithfully,

Head L&PTD

डॉ. एल. मेस्करेन्हास
M. L. Mascarenhas

प्रौद्योगिकी प्रभाग
Laser & Plasma Technology Division
Trombay, BARC

Annexure-B

Scope of the work for "Operation and maintenance of sputtering and EB PVD system" is as per details below

SR.	DESCRIPTION
1.	The vendor has to operate and maintain the system for a period of 11 months
2.	Daily Operation of 6 pocket EB system as per Standard Operating Procedure.
3.	Daily Operation of multi target sputtering system as per Standard Operating Procedure.
4.	Operation of vacuum system and its maintenance has to be done. The vacuum system has to be operated everyday as per Standard Operating Procedure and to be shut down with proper procedure every evening.
5.	The maintenance will involve maintenance of rotary pump and diffusion pump. If there is vacuum problem in the system, systematic leak detection test has to be done using helium leak testing system
6.	Cooling tower has to be operated before starting the vacuum system and its regular maintenance need to be carried out.
7.	Compressor has to be started before operating the pneumatic valves and it requires regular removal of water and maintenance.
8.	Electron gun assembly to be done as per instruction and to be fitted inside the chamber. Chamber has to be cleaned thoroughly before starting the vacuum system.
9.	Everyday high voltage feedthrough, high voltage cable and high voltage connector at the transformer end have to be cleaned. Panel, control desk and the system have to be cleaned on regular basis.
10.	System related mechanical fabrication work has to be done.
11.	Need to assist in the operation of electron beam evaporation system and sputtering system.
12.	Electrical trouble shooting in power supply also need to be done whenever it is required.
13.	Shifting of Argon and other gas cylinders has to be done as per requirement
14.	Vendor has to provide the required spares for smooth operation of system.
15.	The vendor has to help in assembly of various electronic circuits of system.