

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

Trombay, Mumbai-85.

REF: LPTD/Works/YC/22/32239

Date: 21/02/2022

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To

Sub: Inviting quotation for fabrication

Dear Sirs,

1. Quotations are invited for **Fabrication of chiller water lines and control cables for gas box in plasma spray coating system as per specifications attached**
2. Bidder shall quote for fabrication along with material cost involved and its accessories.
3. Basic cost and GST shall be quoted separately.
4. The quotations must reach, **Head, Laser & Plasma Technology Division** by **07-03-2022** and must be sent in a sealed envelope *super scribed* with the above reference number and due date given above.
5. The address on the envelope should read:  
Head, Laser & Plasma Technology Division  
Bhabha Atomic Research Centre, Trombay, Mumbai-400 085.  
(Attn.: **Y.Chakravarthy**)
6. The bidder shall have to take insurance policy against any material issued to him by the purchaser.
7. The fabrication work shall be subject to inspection by our engineer. The material shall not be dispatched prior to approval by our engineer at bidder's works. Necessary inspection facilities should be provided to our engineers during fabrication at bidder's premises.
8. The bidder shall complete the installation after approval by our engineer, within **months** from the date the firm purchase order is issued to the bidder. The finished components and the scrap from the free issue material shall be delivered by the bidder at **PRIP Shed, BARC, Trombay.**
9. Head, Laser & Plasma Technology Division, BARC, reserves the right to accept/reject any or all quotations without assigning any reason.
10. PAN number and GSTIN number must be given



(Dr. Srikumar Ghorui)  
Head, TPTS, L&PT Division

Encl.: As above.

Copy to: Accounts Officer, GSS  
Head, SIRD, BARC  
In charge, Notice Board, V.S.Bhavan, Anushakti Nagar  
BARC site notice board

*The quotations will be opened at 16.00 Hrs on 08-03-2022*

घोड़ुइ एस. / Ghorui S.  
वैज्ञानिक अधिकारी (एच) / SO (H)  
अध्यक्ष, थ प्ला प्रौ अ / Head, TPTS  
ले एवं प्ला प्रौ प्र / L & PT Division,  
भारत अ केन्द्र / Bhabha Atomic Research Centre  
मुंबई-400 085. / Mumbai-400 085.

## **Fabrication of chiller water line and control cables for Gas box in plasma spray coating system**

**Scope of Work:** Gas box and HMI operator interface are main components of plasma spray coating system. All gases and chilled water connections of plasma spray coating system are connected to gas box and is controlled through HMI control interface. The communication between above is lost due to damage in connecting cables. The scope of supply includes fabrication of control cables, chiller water pipe line and repair of gas box as per details given below.

### **Detailed Specifications:**

1. Checking of all plasma gas connections i.e., argon and hydrogen in gas box
2. Checking of all chiller water lines connected to gas box and chiller unit and providing pipe connecting manifold at chiller end
3. Replacing the following cables connecting gas box and control interface
  - a. HMI E-Stop power lead- 7.5 meters approx..
  - b. HMI E-Stop power lead 20 meters approx
4. Check operation of emergency switches after replacing above cables
5. The supplier should supply 2 no's of LED lights (80W each) and integrate with HMI control interface
6. The supplier should provide 2 no's flexible rubber hose pipes for chiller water along with swing nuts at both ends (15 mtrs each)
7. The inner diameter of rubber hose pipe is ½ inch (12.7mm)
8. The water pipes should withstand max pressure of 200 PSI.
9. The supplier should connect above cables between chiller unit and gas box.
10. After connecting all cables supplier should demonstrate operation of gas box and HMI interface
11. All emergency switches and interlocking systems in HMI interface should be tested during operation of plasma spray coating system

### **Other terms and conditions:**

1. The supplier is encouraged to visit the site to take stock of equipment's on any working day before being quoted. No such complaint would be entertained after the acceptance of the work order thereafter
2. All the tools, tackles and any other material required have to be brought by supplier himself. No free issue material will be issued at user site.
3. The cost should include material, labour charges and all other work related to integration of above system to plasma spray system
4. The supplier should have done similar type of work at least twice in last five years