

**Government of India  
Bhabha Atomic Research Centre  
Chemistry Division**

Ref. No.: ChD/2018/OPA/143121

19.07.2018

23

**Subject: Design, fabrication, installation & commissioning of gas distribution system**

Quotations are invited for minor fabrication job, as per the enclosed specifications.

1. The quotations must reach, Head, Chemistry Division by Date: 10-Aug-2018 and must be sent in a sealed envelope super scribed with the above reference number and due date given above. The envelope with quotations must be sent via India Post/Speed Post, and not by any other means.

2. The address on the envelop should read

**Head,  
Chemistry Division,  
Bhabha Atomic Research Centre,  
Mod. -Labs, Mumbai 400 085.  
Attention: Dr. B. P. Mandal**

3. The fabrication work shall be subjected to inspection by our engineer. The finished components shall only be dispatched after approval by our engineer, at bidder's site. Necessary inspection facilities should be provided to our engineers during fabrication.

4. The bidder shall deliver the finished components after approval by our engineers, within **sixty days** from the date of work order issued to the bidder. The finished components shall be delivered by the bidder to **Room No 32, Old Training School, Chemistry Division, Bhabha Atomic Research Centre, Mod.-Labs, Trombay, Mumbai 400 085.**

5. All items to be supplied, installed and commissioned together.

6. The material should have a guarantee for one year after commissioning.

7. The contractor and the workers should possess PVC (police verification certificate) with validity till the completion of the work.

8. The scrap material after the completion of the work at purchaser's site should be removed immediately to the scrap point indicated by the purchaser.

9. The bidder should be able to give references towards previous work done in BARC or other research institutes of repute. If there is a need the bidder should be able to make arrangement to visit a site where his previous work of similar nature has been completed recently.

10. If any mishap takes place to the workers due to unsafe practice in BARC, the liability would be on the vendor.

11. The Head, Chemistry Division, reserves the right to accept/reject any or all quotations without any reason.

12. Kindly put GSTIN/PAN on the quotations.

  
(Head)  
Chemistry Division, BARC

## Specifications

### Design, fabrication, installation & commissioning of gas distribution system

Item	Nos
High pressure gas manifold system (manual) for two cylinders for argon & nitrogen gases	2
High pressure gas manifold system (manual) for two cylinder for argon & hydrogen mixture gases	1
Two stage cylinder regulator with fully S.S. body with S.S.316 Diaphragm for N <sub>2</sub> , Ar, & (Ar & H <sub>2</sub> ) mixture gases  Inlet Pressure gauge: 0-280 kg/cm <sup>2</sup> Outlet Pressure gauge: 0-14 kg/cm <sup>2</sup>  Outlet Connection : 1/8" & 1/4" ferrule fitting Inlet Connection	3
S.S Braided Pigtails of 1 m length with safety rope	6
Cylinder mounting bracket for holding cylinder	6
1/4" Gas Distribution Pannel Single stage with Toggle Valve, Pressure Gauge & Pressure Regulator for Argon, Nitrogen & (Argon & Hydrogen) mixture gases.	3
1/4" SS 316 tube for gas distribution with PVC color code	120 ft
Aluminium powder coated casing capping for above tubing	40 ft
1/4 BSP{M} X 1/4 OD connector	6
Standard fittings like nuts, ferrule, coupling etc	1 set
Aluminum half cage for 4 cylinders [Dimension: 5 feet (L) x 1 feet (W) x 3 feet (H)]	1