

Govt. of India
Bhabha Atomic Research Centre
Atomic & Molecular Physics Division

Ref: AMPD/PJS/2022/27117

Date: 14.02.2022

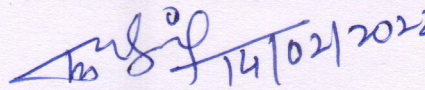
Sub: Minor Fabrication-Invitation of quotations for
Fabrication support structures and gate valves as per attached specifications

Dear Sir,

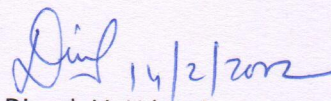
1. Quotations are invited for the minor fabrication job, as per the enclosed specifications.
2. Bidder shall quote for fabrication of these components with materials.
3. Taxes and excise duties shall be quoted separately. Form AF shall be provided if necessary.
4. The last date for receipt of quotation at BARC is **18.02.2022 (AN)**.
5. The quotation shall be mailed (it should not be faxed) to the following address in a sealed envelope superscripted with the *reference number AMPD/PJS//2022/ 27117 and due date 18.02.2022 (AN)*.

Head, Atomic and Molecular Physics Division
Attn. Dr. Param Jeet Singh
Scientific Officer (F)
Atomic and Molecular Physics Division
Bhabha Atomic Research Centre
Mumbai – 400 085

6. No material will be issued to bidders by the purchaser.
7. The fabrication work shall be subject to inspection by our scientists/engineers. The final components shall not be dispatched prior to approval by our scientists/engineers. Necessary inspection facilities should be provided to our scientists/engineers during the fabrication at bidder's premises.
8. The bidder shall deliver the finished components after approval by our scientific officer, within 3 month from the date the purchase order is issued to the bidder. The finished job shall be delivered by the bidder at RRCAT, Indore.
9. Head, Atomic and Molecular Physics Division, BARC reserves the right to accept/reject any or all quotations without assigning any reasons.


(Param Jeet Singh)
SO/F, Atomic and Molecular Physics Division
B.A.R.C.

Through:


(Dr. Dinesh V. Udupa)
Head, Atomic and Molecular Physics Division
B.A.R.C.

Encl: Annexure-I: Technical specifications of items under current minor fabrication work

Technical specifications

1. Support structure – 1 No.

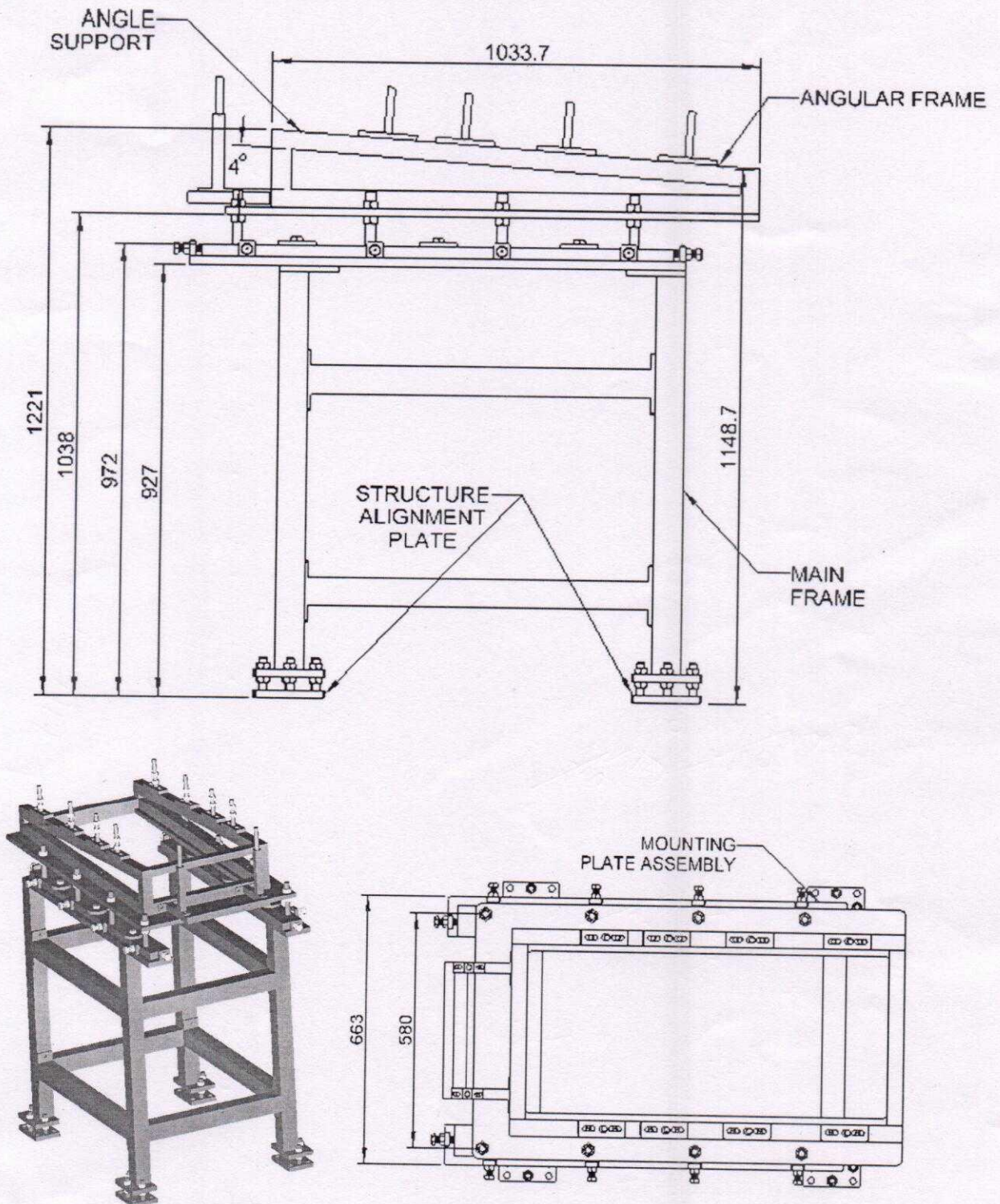


Figure 1: Support structure for Differential pumping system

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11/01/2022

Specifications:

1. Provision for +-10mm X, Y and 40mm Z alignment for overall structure, base plates as well as for cell mounting.
2. M16 Chamber Mounting studs for chamber angular alignment.
3. X-Y motion with two MS plates of 25mm thickness.
4. Base alignment of the structure with two-plate system, one attached to structure and other to be anchored at floor.
5. Independent structure for mounting and alignment of absorption cell at one end.
6. Modular structure for ease in transportation.
7. MS 3inch square pipes structure
8. Overall Size: Length: ~1 meter, Width: ~600 mm, Height: ~1.1m at one end and ~1.2m at other side at slanting angle of 4 degree.
9. Base plates thickness: 25 mm
10. Bolts for alignment : M16

2. UHV Gate Valve Total – 3 Nos

Quantity:

- Flange ends: 63CF – 2 Nos
- Flange ends: 150CF – 2 Nos

Specifications

- Actuator: Manual Operated
- Metal-sealed stainless steel housing
- Vulcanized, cavity-free valve disk seal
- Bellows-sealed
- Lubricant-free mechanics
- High conductance
- Service life: 50,000 operating cycles
- Leak rate : $<5 \times 10^{-10}$ mBar.lit/s
- Feed through: Bellows
- Fasteners set.
- Viton Gasket with 1 set spare.

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11/01/2027