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

Ref: AMPD/RK/2022/PG/114 Date: 12.05.2022

Sub: Minor Fabrication-Invitation of quotation for
Fabrication of custom-made vacuum gate valve for magnetron sputtering system.

Dear Sir,

1. Quotations are invited for the minor fabrication job, as per the enclosed specifications and drawings.
2. Bidder shall quote for fabrication of these components with materials and without 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 ***31.05.2025 (4.30 pm).***
5. The quotation shall be mailed (it should not be faxed) to the following address in a sealed envelop superscribed with the *reference number* **AMPD/RK/2022/PG/114** *and due date* ***31.05.2022 (4.30 pm).***

   Head, Atomic & Molecular Physics Division
   Attn. Shri Ravi Kumar
   Scientific Officer (C)
   Atomic & Molecular Physics Division
   Bhabha Atomic Research Centre
   Mumbai – 400 085
6. The bidder shall have to take an insurance policy against any material issued to him by the purchase.
7. The fabrication work shall be subjected to inspection by our engineer. The finished components shall not be dispatched prior to approval by our engineer at bidder's works. Necessary inspection facilities should be provided to our engineers during the fabrication at bidder's premises.
8. The bidder shall deliver the finished components after approval by our Scientific officer, within ***4 (four) weeks*** from the date the firm purchase order issued to the bidder. The finished components and the scrap from the free issue material shall be delivered by the bidder at ***BARC, Trombay***.
9. Head, *Atomic & Molecular Physics*, BARC reserves the right to accept/reject any or all quotations without assigning any reasons.

(Ravi Kumar)
SO/C, Atomic & Molecular Physics Division
BARC.

Through:
(Dr. D. Bhattacharyya)
Head, Synchrotron Science & Multilayer Physics Section
Atomic & Molecular Physics Division
BARC

Encl: *Annexure-I, II: Schematic drawing and detailed description of gate valve for magnetron sputtering system.*

Annexure - I

Item to be fabricate:

DN 100 CF Manually operated, bellow sealed gate valve.

a)	Valve Type	Manually operated, bellow sealed
b)	Thickness	70 mm (flange to flange)
c)	Leak rate Valve body Valve seat	 $< 5 \times 10^{-10}$ mbar l/s $< 1 \times 10^{-9}$ mbar l/s
d)	Pressure range	1×10^{-10} mbar to 1.6 bar
e)	Operating Temperature	20° C to 150° C
f)	Gate seal	Viton
g)	Bonnet seal	Metal
h)	Differential Pressure	< 1.6 bar
i)	Differential pressure at opening	< 30 mbar
k)	Life cycle	≥ 15,000

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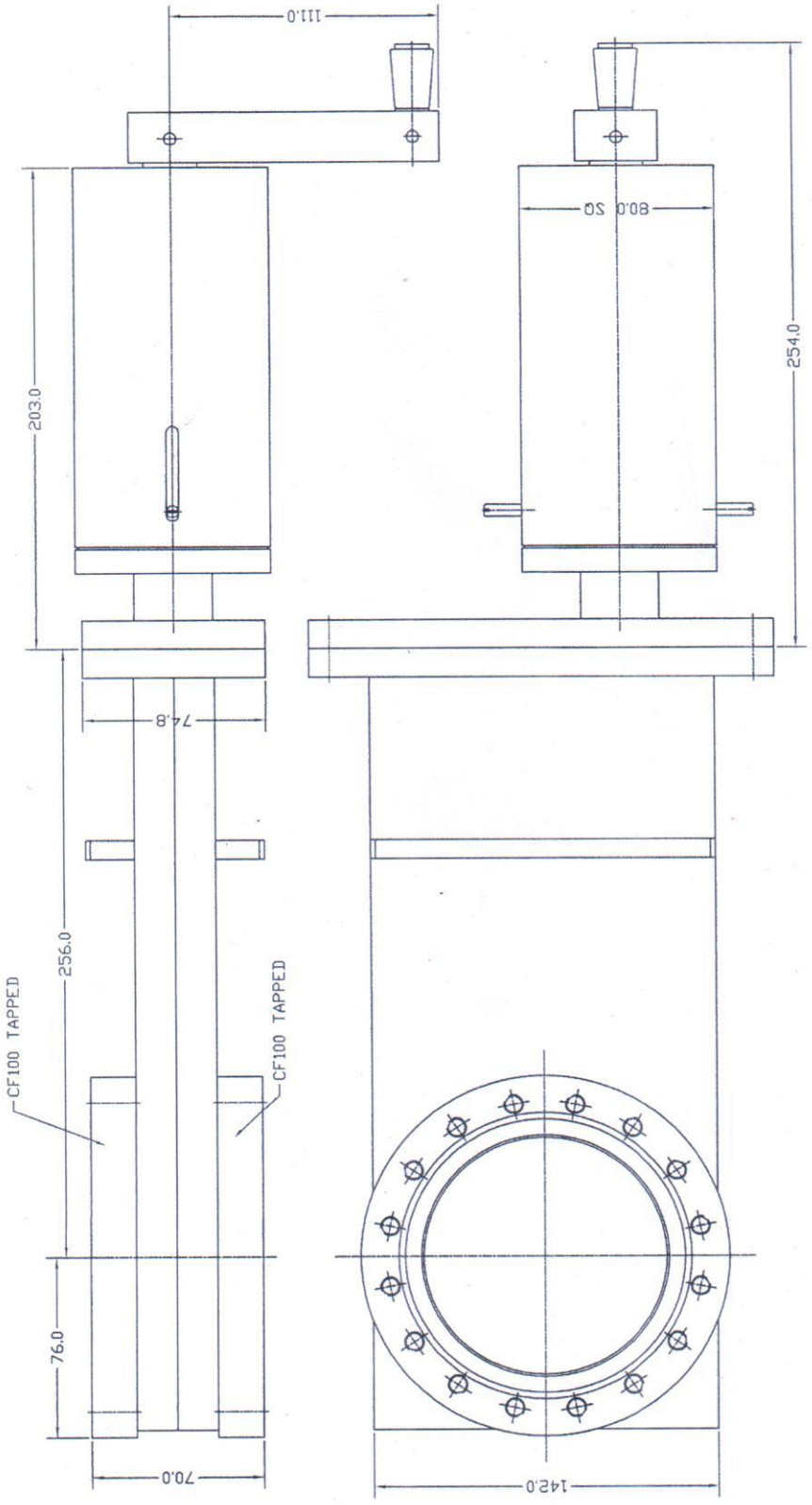
Annexure - II



06/05/2022