



प्लाज्मा अनुसंधान संस्थान
INSTITUTE FOR PLASMA RESEARCH
परमाणु ऊर्जा विभाग, भारत सरकार का एक सहायता प्राप्त संस्थान
**An Aided Institute of Department of Atomic Energy,
Government of India**



इन्दिरा पुल के पास, भट, गांधीनगर - 382 428 भारत
दूरभाष: (079) 2396 2020/2021/2028
फैक्स: 91-079-23962277
वेब: www.ipr.res.in

NEAR INDIRA BRIDGE, BHAT
DIST. GANDHINAGAR - 382 428 (INDIA)
Phone: (079) 2396 2000/2026/2332
Fax : 91-079-23962277
Web : www.ipr.res.in

ENQUIRY

ENQUIRY NO : IPR/EQF/18-19/157
Date : 06-11-2018

Due on : 20-12-2018 by 1:00 PM IST

Please send your offer in sealed envelope specifying Enquiry No, Date & Due Date, ALONG WITH your credentials for the following items which we are interested to import directly against Foreign Trade Policy 2015-2020.

Important Note:

Please note that e-mail quotations are not acceptable however you may send your queries (if any) to importpurchase@ipr.res.in

Please ensure your sealed quotation reaches this office not later than above mentioned due date and time.

Kindly go through the following documents properly before quoting which are available on the IPR web portal i.e., http://www.ipr.res.in/documents/tender_terms.html / attached herewith.

- 1) Instructions to the bidders & Terms and conditions (refer Form No: **IPR-FP-01.V3**)
- 2) Bidding format

GST for Goods and Services (IGST/CGST/SGST TAX BENEFITS): Please refer **clause no: 14** of Form No: **IPR-FP-01.V3**

QUOTATION SHOULD BE ADDRESSED TO PURCHASE OFFICER ONLY

Sr No	Description	Quantity
1	63 CF UHV compatible bellow sealed Gate valve	3.0 Nos.

Note: 1. Please quote with complete technical details (Technical compliance sheet and product data sheet).
2. TDS as per CGST Act: As per provisions of section No. 51 of the CGST Act 2017, TDS @2% (IGST 2% or CGST 1% and SGST 1%) will be deducted while making payment to the suppliers where total value of orders/contracts/work orders exceeds Rs. 2.5 lakhs, in the event of order in Indian Rupees. Necessary TDS Certificate will be issued to the supplier after TDS deduction.

Encl: Other details are as per attached specification sheet.

Sd/-

Mr. D. Ramesh

Information to Vendors: We are working towards a single platform for our future requirement. Hence, please refer IPR website i.e, <http://www.ipr.res.in/documents/tendersenq.html> for our future requirement.

**Specification of UHV compatible,
Electro-pneumatically operated 63 CF Gate Valve**

- (1) Valve opening: Nominal 63mm diameter
- (2) Vacuum connection: 63CF flanges on both sides
- (3) Actuator: Pneumatic double acting cylinder
- (4) Leak rate:
 - (a) Body: $< 6 \times 10^{-10}$ mbar l/sec
 - (b) Valve seat: $< 2 \times 10^{-9}$ mbar l/sec
- (5) Pressure range: 1.5 bar to 5×10^{-10} mbar
- (6) Differential pressure on the gate: ≤ 1.5 bar in either direction
- (7) Differential pressure on the opening: ≤ 30 mbar
- (8) Bake-out temperature:
 - (a) Valve body: $\geq 240^{\circ}$ C in open and 180° C in closed conditions
 - (b) Pneumatic actuator: $\geq 180^{\circ}$ C
- (9) Material:
 - (a) Valve body and mechanism: SS304/ SS304L/SS316L
 - (b) Bellow: Suitable for a bellow having at least 30000 cycles until first service.
- (10) Seal: (a) Bonnet: Metal
 - (b) Gate: Viton
- (11) Actuation Time: 1 Second
- (12) Mounting: Any direction
- (13) Solenoid: 230 Volt (AC), 50Hz
- (14) Position Indicator: Contact rating of 5A/250Volt (AC)
- (15) Valve should have visual mechanical position indicator
- (16) Provide routine test certificate for UHV compatibility and leak rate
- (17) Include necessary accessories to make it complete and operational

Compliance sheet for Electro-pneumatically operated 63 CF Gate Valve

Technical Specification	IPR requirement	Vender Offer
Valve opening	63mm diameter	
Vacuum connection	63 CF flanges on both sides	
Actuator	Pneumatic double acting cylinder	
Leak rate Body Valve seat	< 6xE-10 mbar l/sec < 2xE-9 mbar l/sec	
Pressure range	1.5 bar to 5xE-10 mbar	
Differential pressure on the gate	≤1.5 bar in either direction	
Differential pressure on the opening	≤ 30 mbar	
Bake-out temperature Valve body Pneumatic actuator	≥240 ° C in open and 180 ° C in closed conditions ≥ 180 ° C	
Material Valve body and mechanism Bellow	SS304/ SS304L/SS316L Suitable for a bellow having 30000 cycles until first service.	
Seal Bonnet Gate	Metal FKM/Viton	
Actuation Time (opening)	1 second	
Mounting	Any direction	
Solenoid	230 Volt (AC), 50Hz	
Position Indicator	Contact rating of 5A/250Volt (AC)	
Mechanical position indicator	Valve should have visual mechanical position indicator	
Test certificate	Provide routine test certificate	
Necessary accessories for operation	To be included	

Bidder's Stamp and Sign:

Date: