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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/18-19/062
Date : 29-05-2018

Due on : 05-07-2018 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	Mass flow controller (MFC) as per the attached spec. 'Flow Range : (2E-4 to 3E-2) mbar.l/s or broader range	1.0 Nos.
2	Mass flow controller (MFC) as per the attached spec. 'Range : (2E-4 to 8E-2) mbar.l/s or broader range	1.0 Nos.

Note: Please quote with complete technical details (Technical compliance sheet and product data sheet).

Encl: Refer attached sheet for detailed technical specification.

Sd/-

Mr. D. Ramesh
Purchase Officer-II

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 sheet for mass flow controller (MFC) ,

Quantity: 1 for flow range: (2 x 10⁻⁴ to 3 x 10⁻²) mbar.l/s

Quantity: 1 for flow range: (2 x 10⁻⁴ to 8 x 10⁻²) mbar.l/s

Description	Specification
Required Process gas media	Nitrogen, Helium, Hydrogen, Argon, Xenon
Approx. Flow Range (1 –Quantity)	(2 x 10 ⁻⁴ to 3 x 10 ⁻²) mbar.l/s or broader range
(1 –Quantity)	(2 x 10 ⁻⁴ to 8 x 10 ⁻²) mbar.l/s or broader range
Accuracy	±2% (including RD and FS) or better
Inlet and outlet Pressure operation	< 2 bar (g) and (outlet will be connected to vacuum side)
Operating temperature	20-40 degree C
Leak tightness (with Helium)	5E-9 mbar.l/s or better
Settling/Response time	< 2 second
Valve function	Normally Closed
Material	Stainless steel (body), Sealing: Viton sealing
Process connections	¼ “Compression type face seal couplings or suitable
Output Signal	4-20 mA output sourcing
Communication	RS 232/Ethernet
Supply	+15 to 24 VDC
Software	Quote with necessary software for smooth operation and control of the mass flow controller (MFC) using a computer
Calibration data	Calibration data is needed for all the process gas mentioned above
For the vendor	Quote with all the accessories necessary for the MFC
	Vendor will carry out installation and demonstration of the purchased item at the IPR lab

Compliance sheet for mass flow controller (MFC),

Quantity: 1 for flow range: (2 x 10⁻⁴ to 3 x 10⁻²) mbar.l/s

Quantity: 1 for flow range: (2 x 10⁻⁴ to 8 x 10⁻²) mbar.l/s

Description	Specification	Compliance/ Remarks
Required Process gas media	Nitrogen, Helium, Hydrogen, Argon, Xenon	
Approx. Flow Range (1 –Quantity)	(2 x 10 ⁻⁴ to 3 x 10 ⁻²) mbar.l/s or broader range	
(1 –Quantity)	(2 x 10 ⁻⁴ to 8 x 10 ⁻²) mbar.l/s or broader range	
Accuracy	±2% (including RD and FS) or better	
Inlet and outlet Pressure operation	< 2 bar (g) and (outlet will be connected to vacuum side)	
Operating temperature	20-40 degree C	
Leak tightness (with Helium)	5E-9 mbar.l/s or better	
Settling/Response time	< 2 second	
Valve function	Normally Closed	
Material	Stainless steel (body), Sealing: Viton sealing	
Process connections	¼ “Compression type face seal couplings or suitable	
Output Signal	4-20 mA output sourcing	
Communication	RS 232/Ethernet	
Supply	+15 to 24 VDC	
Software	Quote with necessary software for smooth operation and control of the mass flow controller (MFC) using a computer	
Calibration data	Calibration data is needed for all the process gas mentioned above	
For the vendor	Quote with all the accessories necessary for the MFC	
	Vendor will carry out installation and demonstration of the purchased item at the IPR lab	

Date :

Sign and Official Stamp