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, भाट, 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/19-20/072
Date : 19-06-2019

Due on : 25-07-2019 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-I (MFC-1): Maximum flow rate 500 mls/min with communication cable, power supply and USB-2 converter.	1.0 Nos.
2	Mass Flow Controller-II (MFC-2): Maximum flow rate 100 mls/min with communication cable, power supply and USB-2 converter.	1.0 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: As per attached.

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/tenderseng.html for our future requirement.

MFC 1	
Fluid	Ar , N2
	Instrument Must be Calibrated by Argon
Flow Range	10-500 mLs/Min
Turn Down Ratio	01:50
Repeatability	<0.2% RD or better
Setting time for controller	less than or equal to 2 seconds
Classification	IP 40
Accuracy	±0.5% RD plus ±0.1% FS
Inlet Pressure	4-6 Bar(g)
Outlet Pressure	0-1 Bar(g)
Operating Temperature	up to 50 deg
End Connection	1/4" OD Compression
Output Signal	0 to 5 VDC
Digital Communication	RS232 for PC Communication with software
Supply	15...24 VDC
Calibration Certificate	Needed
Seals	Viton
Wetted part Material	Stainless steel 316L
Leak Integrity, Outboard	tested < 2 x 10-9 mbar l/s He
Temperature sensitivity	zero: < 0.05% FS/°C; span: < 0.05% Rd/°C
Accessories	Power Supply for MFC, Require cable & accessories to connect MFC with PC

Note: Installation and training is required at IPR after the supply of the flow controller.

MFC 2	
Fluid	Ar , N2
	Instrument Must be Calibrated by Argon
Flow Range	2-100 mLs/Min
Turn Down Ratio	01:50
Repeatability	<0.2% RD or better
Setting time for controller	less than or equal to 2 seconds
Classification	IP 40
Accuracy	±0.5% RD plus ±0.1% FS
Inlet Pressure	4-6 Bar(g)
Outlet Pressure	0-1 Bar(g)
Operating Temperature	up to 50 deg
End Connection	1/4" OD Compression
Output Signal	0 to 5 VDC
Digital Communication	RS232 for PC Communication with installation.
Supply	+15...24 VDC
Calibration Certificate	Needed
Seals	Viton
Wetted part Material	Stainless steel 316L
Leak Integrity, Outboard	tested < 2 x 10-9 mbar l/s He
Temperature sensitivity	zero: < 0.05% FS/°C; span: < 0.05% Rd/°C
Accessories	Power Supply for MFC, Require cable & accessories to connect MFC with PC

Note: Installation and training is required at IPR after the supply of the flow controller.

Technical Compliance Statement

MFC 1		
Parameters	**IPR Specification**	**Vendor Specification**
Fluid	Ar , N2	
	Instrument Must be Calibrated by Argon	
Flow Range	10-500 mLs/Min	
Turn Down Ratio	01:50	
Repeatability	<0.2% RD or better	
Setting time for controller	less than or equal to 2 seconds	
Classification	IP 40	
Accuracy	±0.5% RD plus ±0.1% FS	
Inlet Pressure	4-6 Bar(g)	
Outlet Pressure	0-1 Bar(g)	
Operating Temperature	up to 50 deg	
End Connection	1/4" OD Compression	
Output Signal	0 to 5 VDC	
Digital Communication	RS232 for PC Communication with software	
Supply	+15...24 VDC	
Calibration Certificate	Needed	
Seals	Viton	
Wetted part Material	Stainless steel 316L	
Leak Integrity, Outboard	tested < 2 x 10-9 mbar l/s He	
Temperature sensitivity	zero: < 0.05% FS/°C; span: < 0.05% Rd/°C	
Accessories	Power Supply for MFC, Require cable & accessories to connect MFC with PC	

Note: Installation and training is required at IPR after the supply of the flow controller.

Technical Compliance Statement

MFC 2		
Parameters	**IPR Specification**	**Vendor Specification**
Fluid	Ar , N2	
	Instrument Must be Calibrated by Argon	
Flow Range	2-100 mLs/Min	
Turn Down Ratio	01:50	
Repeatability	<0.2% RD or better	
Setting time for controller	less than or equal to 2 seconds	
Classification	IP 40	
Accuracy	±0.5% RD plus ±0.1% FS	
Inlet Pressure	4-6 Bar(g)	
Outlet Pressure	0-1 Bar(g)	
Operating Temperature	up to 50 deg	
End Connection	1/4" OD Compression	
Output Signal	0 to 5 VDC	
Digital Communication	RS232 for PC Communication with software	
Supply	+15...24 VDC	
Calibration Certificate	Needed	
Seals	Viton	
Wetted part Material	Stainless steel 316L	
Leak Integrity, Outboard	tested < 2 x 10-9 mbar l/s He	
Temperature sensitivity	zero: < 0.05% FS/°C; span: < 0.05% Rd/°C	
Accessories	Power Supply for MFC, Require cable & accessories to connect MFC with PC	

Note: Installation and training is required at IPR after the supply of the flow controller.

Bidder's Official Stamp and Sign:

Date: