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प्लाज्मा अनुसंधान संस्थान  
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**An Aided Institute of Department of Atomic Energy,  
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## ENQUIRY

ENQUIRY NO : IPR/EQF/18-19/223  
Date : 12-03-2019

**Due on : 18-04-2019 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](mailto: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](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	Digital Mass Flow Meter	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.
3. Unsigned quotations will not be considered. Quotation should be submitted duly signed with official seal on each and every page invariably.

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/tendersenq.html> for our future requirement.

## Digital Mass Flow Meter (DMFM)

S.No.	Parameter	Specification
1	Principle of Operation	Thermal mass flow meter
1.	Measured Parameter	Mass Flow-rate
2.	Engineering Units	SCCM
3.	Process Gases	Argon, Helium and Air (Same DMFM should be able to measure Argon, Helium & Air flow-rate)
4.	Ambient conditions	20°C - 40°C and up to 80% RH
5.	Operating Flow-rate	0-100 SCCM for all the gases mentioned in Sr.No-3
6.	Operating Fluid Pressure	Up to 5 bar gauge
7.	Operating Fluid Temperature	20°C – 40°C
8.	Burst Pressure	At least 1.5 times of Operating fluid pressure as mentioned in Sr.No-6
9.	Flow Configuration	Process gas/Flow-rate Engineering units shall be selectable/configurable using push-buttons / local interface and through application software for the instrument
10.	Zero Adjustment	Shall be adjustable
11.	Display	Integrated digital display for mass flow-rate indication with units
12.	Input Power Supply	230VAC, 50Hz (necessary power adapter ,shall be provided by the vendor)
13.	Calibrated Span	0-100 SCCM for all the gases (Sr. No-3)
14.	Measurement Accuracy	Within $\pm 1\%$ of Calibrated Span including linearity for all the gases (Sr.No-3)
15.	Repeatability	Within $\pm 0.25\%$ of Calibrated Span for all the gases (Sr.No-3)
16.	Signal Output	4-20 mA DC/ 0-5V DC / 1- 5 V DC for measured mass flow-rate
17.	Process connection	¼” NPT or ¼” BSP
18.	Material of Construction for all wetted Parts	Stainless Steel
19.	Calibration Test Report	5-point NIST traceable calibration report is required for the DMF M within the operating flow-rate range
20.	Leak Integrity	$1 \times 10^{-8}$ atm cc/sec of Helium or better
21.	Application software	Required to interface & configure the DMFM with Windows OS compatible PC. Necessary interface cables shall be provided by the vendor.
22.	Digital Communication	RS-232/485/LAN for configuration of flow meter using application software

**Note:** Vendor shall clearly mention the model number and submit the detailed technical Specifications and brochure for the offered equipment along with the quotation.

**1. Delivery of product:** Product should be delivered within 12 weeks from the date of receipt of technically and commercially clear order.

2. **Documents:** Vendor shall submit detailed technical brochure, calibration test report (S. No. 19), helium leak integrity report (S. No. 20), operational manual with wiring and process connection diagrams for the equipment along with the shipment.

3. **Warranty/Guarantee:** Vendor shall provide a guarantee/warranty of minimum 1 (one) year for the equipment. The necessary guarantee/warranty certificate shall be sent to IPR along with the delivery of the equipment.

Bidder's Official Stamp and Sign:

Date: