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**An Aided Institute of Department of Atomic Energy,**  
**Government of India**



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## ENQUIRY

ENQUIRY NO : IPR/EQF/18-19/060  
 Date : 21-05-2018

**Due on : 21-06-2018 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](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	Mass flow controller for helium with two channel flow display power supply	1.0 Nos.
2	Mass flow controller for Tetra fluoro methane (CF <sub>4</sub> ) with two channel flow display power supply	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/tenderseng.html> for our future requirement.

**Specifications of Mass flow controllers - Helium**

Gas	: Helium
Flow range	: 0 – 5000 sccm.
Quantity	: 01
Body	: Aluminium
Display	: Built – in
Accuracy	: $\pm 1.5$ % of full scale
Repeatability	: $\pm 0.5$ % of full scale
Response time	: 2 sec
Seal	: Viton
Gas fitting	: ¼ inch Compression fitting
Leak integrity	: $1 \times 10^{-9}$ sccm/s.
Protection	: built in reversal polarity reversal protection, resettable fuses provider pro.
Operation	: Remote and local both but normally in remote mode.

**Two channel flow display power supply:**

1. Each channel should be with 10 turn potentiometer.
2. Each channel should be calibrated as per the flow range of corresponding MFC.
3. Each Channel should be lockable valve status switch: Auto, close and open.
4. 230 VAC single phase power cable and manual.
5. LED display for each channel.

**Tetra Fluro Methane (CF<sub>4</sub>)**

Gas	: Tetra Fluro Methane (CF <sub>4</sub> )
Flow range	: 0 – 5000 sccm.
Quantity	: 01
Body	: Compatible with CF <sub>4</sub>
Display	: Built – in
Accuracy	: $\pm 1.5$ % of full scale
Repeatability	: $\pm 0.5$ % of full scale
Response time	: 2 sec
Seal	: Compatible with CF <sub>4</sub>
Gas fitting	: ¼ inch Compression fitting.
Leak integrity	: $1 \times 10^{-9}$ sccm/s.
Protection	: built in reversal polarity reversal protection, resettable fuses provider pro.
Operation	: Remote and local both but normally in remote mode.

**Two channel flow display power supply:**

1. Each channel should be with 10 turn potentiometer.
2. Each channel should be calibrated as per the flow range of corresponding MFC.
3. Each Channel should be lockable valve status switch: Auto, close and open.
4. 230 VAC single phase power cable and manual.
5. LED display for each channel.

# Compliance sheet

## Mass flow controller for helium

Sr. No.	Our requirement	details	Vendors specifications
1.	Gas	helium	
2.	Flow range	0-5000 sccm	
3.	Body	Aluminium	
4.	Display	Built-in	
5.	Accuracy	±1.5% of full scale	
6.	Repeatability	±0.5 % of full scale	
7.	Response time	2 sec.	
8.	Seal	Viton	
9.	Gas fitting	¼ inch Compression fitting	
10.	Leak integrity	1 x 10 <sup>-9</sup> sccm/s.	
11.	Operation	Remote and local both but normally in remote mode.	
12.		Each channel should have 10 turn potentiometer	
13.		Each Channel should be lockable valve status switch: Auto, close and open.	

## Mass flow controller for Tetra Fluro Methane

Sr. No.	Our requirement	details	Vendors specifications
1.	Gas	Tetra Fluro Methane (CF <sub>4</sub> )	
2.	Flow range	0-5000 sccm	
3.	Body	Compatible with CF <sub>4</sub>	
4.	Display	Built-in	
5.	Accuracy	±1.5% of full scale	
6.	Repeatability	±0.5 % of full scale	
7.	Response time	2 sec.	
8.	Seal	Compatible with CF <sub>4</sub>	
9.	Gas fitting	¼ inch Compression fitting	
10.	Leak integrity	1 x 10 <sup>-9</sup> sccm/s.	
11.	Operation	Remote and local both but normally in remote mode.	
12.		Each channel should have 10 turn potentiometer	
13.		Each Channel should be lockable valve status switch: Auto, close and open.	

Date :

Bidder's Sign and Stamp