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 परमाणु ऊर्जा विभाग, भारत सरकार का एक सहायता प्राप्त संस्थान



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

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 DIST. GANDHINAGAR - 382 428 (INDIA)
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ENQUIRY

ENQUIRY NO : IPR/EQF/19-20/153
 Date : 13-11-2019

Due on : 19-12-2019 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	Low Flow Water Mass Flow Meter. Detailed specification sheet attached.	1.0 Nos.

Note:

1. Delivery required within 2 to 3 months from the date of P.O.
2. Please quote with complete technical details (Technical compliance sheet and product data sheet).
3. 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: 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.

SPECIFICATION SHEET FOR LOW FLOW WATER MASS FLOW METER

Specifications	User requirements	Vendor Specifications
Flow Meter type	Turbine/Oval wheel/ultrasonic	
Flow Medium	Demineralized water	
Medium Temperature	10-60 °C	
Operating temperature	10-60 °C	
Maximum Medium pressure	5 bar	
Maximum pressure drop in the device	≤ 2 bar at Full scale	
Working Flow range	0.4 LPM (minimum) 10 LPM (maximum)	
Turn down ratio	20:1 or better	
Accuracy	≤ ±1% of Full Scale	
Response time	≤ 1 second	
Warm up time	≤ 15 minutes	
Flow rate Calibration	For water	
Display	Digital (local mount)	
Display parameter	Mass Flow rate (Kg/hr)/Volumetric flow rate(SLPM)	
Display resolution	XX.XX LPM or XXX.XXX Kg/Hr or equivalent	
Power supply	Any	
Output signal	Analog: 4-20mA/0-5V DC/0-10V DC/1-5 V DC Digital: RS-485/RS232/USB 2.0	
Pipe size	1/4" or 3/8" or 1/2" or any suitable	
Pipe fitting on both side	Flange type/ any suitable NPT, BSP thread adapter/ or equivalent	
Material of Construction	SS/ABS Plastic/ or any	
Protection	IP65/ IP66/IP67/IP68	
Warranty	1 year or more	

General requirement of Liquid Flow Meter

The flow meter is to be used to measure volumetric flow rate of water to the calorimetric diagnostic system. A high precision digital type flow meter is required to ensure minimum error in the flow rate reading. The flow meter will be connected to the system prior to a high pressure plunger pump to isolate the flow meter from high water pressure.

Information to vendor

1. Vendor needs to provide calibration certificate, operating manual, warranty certificate and any other required accessories (power supply, interface cable, software, etc.) along with the product.
2. If any power supplies, any fittings or any software needed to operate the device sold separately, vendor needs to mention the unit cost separately in the quote.

Delivery cum commissioning period

2 - 3 months from the date of P.O.

Warranty

At least 12 months from the date of delivery.

Scope of vendor

The scope of work is supply 2 nos. of low flow liquid mass flow meter and required accessories as per technical specifications mentioned.

COMPLIANCE SHEET FOR LOW FLOW WATER MASS FLOW METER

Specifications	User requirements	Vendor Specifications
Flow Meter type	Turbine/Oval wheel/ultrasonic	
Flow Medium	Demineralized water	
Medium Temperature	10-60 °C	
Operating temperature	10-60 °C	
Maximum Medium pressure	5 bar	
Maximum pressure drop in the device	≤ 2 bar at Full scale	
Working Flow range	0.4 LPM (minimum) 10 LPM (maximum)	
Turn down ratio	20:1 or better	
Accuracy	≤ ±1% of Full Scale	
Response time	≤ 1 second	
Warm up time	≤ 15 minutes	
Flow rate Calibration	For water	
Display	Digital (local mount)	
Display parameter	Mass Flow rate (Kg/hr)/Volumetric flow rate(SLPM)	
Display resolution	XX.XX LPM or XXX.XXX Kg/Hr or equivalent	
Power supply	Any	
Output signal	Analog: 4-20mA/0-5V DC/0-10V DC/1-5 V DC Digital: RS-485/RS232/USB 2.0	
Pipe size	1/4" or 3/8" or 1/2" or any suitable	
Pipe fitting on both side	Flange type/ any suitable NPT, BSP thread adapter/ or equivalent	
Material of Construction	SS/ABS Plastic/ or any	
Protection	IP65/ IP66/IP67/IP68	
Warranty	1 year or more	

Bidder's signature/stamp:

Date:

Place: