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प्लाज्मा अनुसंधान संस्थान  
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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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## ENQUIRY

ENQUIRY NO : IPR/EQF/19-20/148  
 Date : 06-11-2019

**Due on : 12-12-2019 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](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	Full range vacuum gauge. Detailed specifications in attached sheet.	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.

## User specification sheet for full range vacuum gauge

Sr. No	Description	IPR Requirements
<b>1</b>	<b>Vacuum Gauge (Gauge Head)</b>	<b>1 no.</b>
1.1	Type	Combined Penning & Pirani Transmitter
1.2	Measurement Range	$1 \times 10^{-7}$ mbar to 1000 mbar
1.3	Accuracy	30% of the full-scale reading or better
1.4	Repeatability	5 % of full-scale reading or better
1.5	Response time	Less than 500 ms or better
1.6	Temperature effect	Measurement should be independent of temperature
1.7	Maximum Bake out temperature at Flange	120°C or higher
1.8	Flange Type	DN 25 KF
1.9	Pipe & Flange material	SS304 / SS316L
1.10	Protection from contamination	Sensor should be provided with the integrated sensor shield to protect the sensor against contamination
<b>2</b>	<b>Cable</b>	<b>2 nos.</b>
2.1	Cable requirement	The cable should be having appropriate connectors at the ends to connect the gauge head to controller/ Display
2.2	Cable length	5 meter or more (each)
<b>3</b>	<b>Controller and Display</b>	<b>1 no.</b>
3.1	Type	Suitable for the above mentioned transmitters
3.2	Connections for Sensor/transmitter	Should be provided
3.3	Connection port type	Suitable to connect the gauge head to controller with display cable
3.4	Display type	Digital
3.5	Interface connections	RS232 / RS485 / USB or equivalent
3.6	Supply voltage	230 V, 50 Hz

3.7	Display range	$1 \times 10^{-7}$ mbar to 1000 mbar
3.8	Signal output	0 - 10 V DC / 0 - 5 V DC / 4 - 20mA
3.9	Unit of measurement	mbar / pascal / torr
3.10	Operating Temperature	Up to 60°C
3.11	Operating & Instruction manual	Should be provided

### **Information to vendor**

1. The vendor should submit the relevant technical catalogues along with the product.
2. Any other accessories (power supply cable, 'O' rings, etc.) required to operate the device must be provided during the time of delivery.
3. Vendor should ensure proper packaging and transportation of the device to the delivery location.
4. Any shipping, packaging and delivery charges to the location (ZIP-382016, Gujarat, India) should be provided in the quotation separately.

### **Delivery period**

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

### **Warranty**

12 months from the date of commissioning

### **Scope of vendor**

The scope of work is supply 1 no. of full-range vacuum gauge and display/controller confirming to technical specifications.

## Compliance sheet for Full Range Vacuum Gauge

Sr. No	Description	IPR Requirements	Vendor specifications
<b>1</b>	<b>Vacuum Gauge (Gauge Head)</b>	<b>1 no.</b>	
1.1	Type	Combined Penning & Pirani Transmitter	
1.2	Measurement Range	$1 \times 10^{-7}$ to 1000 mbar	
1.3	Accuracy	30% of the full-scale reading or better	
1.4	Repeatability	5 % of full-scale reading or better	
1.5	Response time	Less than 500 ms or better	
1.6	Temperature effect	Measurement should be independent of temperature	
1.7	Maximum Bake out temperature at Flange	120°C or higher	
1.8	Flange Type	DN 25 KF	
1.9	Pipe & Flange material	SS304 / SS316L	
1.10	Protection from contamination	Sensor should be provided with the integrated sensor shield to protect the sensor against contamination	
<b>2</b>	<b>Cable</b>	<b>2 nos.</b>	
2.1	Cable requirement	The cable should be having appropriate connectors at the ends to connect the gauge head to controller / display	
2.2	Cable length	5 meter or more (each)	
<b>3</b>	<b>Controller and Display</b>	<b>1 no.</b>	
3.1	Type	Suitable for the above mentioned transmitters	
3.2	Connections for Sensor/transmitter	Should be provided	

3.3	Connection port type	Suitable to connect the gauge head to controller with display cable	
3.4	Display type	Digital	
3.5	Interface connections	RS232 / RS485 / USB or equivalent	
3.6	Supply voltage	230 V, 50 Hz	
3.7	Display range	$1 \times 10^{-7}$ to 1000 mbar	
3.8	Signal output	0 - 10 V DC / 0 - 5 V DC / 4 - 20 mA	
3.9	Unit of measurement	mbar / pascal / torr	
3.10	Operating Temperature	Up to 60°C	
3.11	Warranty	12 months from delivery	
3.12	Required Accessories	Power supply cables, 'O' rings, interfacing cable, etc	
3.13	Required Product documents	Operating manual, calibration certificate, technical broucher, etc.	

**Bidder's signature/stamp:**

**Date:**

**Place:**