

This file has been cleaned of potential threats.

To view the reconstructed contents, please SCROLL DOWN to next page.



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](http://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](http://www.ipr.res.in)

## ENQUIRY

ENQUIRY NO : IPR/EQF/18-19/224  
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	Supply of direct driven Rotary pump with suitable gauge and essential accessories as per technical specifications.	2.0 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

Encl: page invariably.  
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.

**Technical specifications of direct driven rotary vacuum pump with suitable gauge and essential accessories.**

- 1) **Quantity** : 02 nos. Pumps, 02 nos. suitable gauges, 02 nos. control & display unit for gauge
- 2) **Pumping speed** :  $\geq 20\text{m}^3/\text{hr} \pm 10\%$
- 3) **Ultimate pressure (With Gas ballast closed)** :  $\leq 5 \times 10^{-4}$  mbar
- 4) **Inlet flange** : DN 25 KF
- 5) **Noise level** :  $\leq 70$  dB(A)
- 6) **Water vapor tolerance** :  $\geq 7$  mbar
- 7) **Oil filling** : Mineral oil
- 8) **Protection category** : IP 43 or better
- 9) A **dust separator** should be provided at the inlet of the vacuum pump to protect the pump against dust (~10 microns) ingress at the inlet.
- 10) There must be a provision in the inlet of the vacuum pump to prevent the pump oil back flow into the system in case of power failure.
- 11) An **Oil mist filter** must be provided at the exhaust of the vacuum pump to prevent the oil mist contaminating the atmospheric air.
- 12) **Gauge minimum measurement range** :  $1 \times 10^{-4}$  mbar to atmospheric pressure
- 13) **Control unit** : 2 nos. for display & control unit for gauge should be provided.
- 14) **Units of display in control unit** : mbar/Pa/torr
- 15) **Type of display in control unit** : Digital, LED/LCD
- 16) **Input voltage for instruments** :  $230 \pm 10\%$  V, 50 Hz
- 17) **Control unit Interfaces** : USB or RS-485 or Ethernet.
- 18) **Control unit measurement range** : 1,500 mbar to  $< 5.0 \times 10^{-5}$  mbar or better
- 19) **Accessories**: The vendor should provide all the essential accessories including all the interconnecting and power cables for the gauge, control unit and pump.
- 20) The vendor should submit a complete **operation manual** of the instrument at the time of delivery.
- 21) **Acceptance test**: The pump & gauge would be tested at IPR to check its pumping speed, ultimate pressure & display range (as per S.No. 2, 3 & 13 ) for acceptance purpose.
- 22) **Delivery**: The instrument should be delivered safely by the vendor at IPR Extension Lab (Vidhata Associates) Gandhinagar.
- 23) **Warranty**: At least one year warranty from the date of installation against all sorts of manufacturing defects, faulty and poor workmanship.

**Technical compliance table to be filled by vendor**

**Supply of direct driven rotary vacuum pump with suitable gauge and essential accessories**

IPR Specifications	Vendor's reply
<p>1) <b>Quantity</b> : 02 nos. Pumps, 02 nos. suitable gauges, 02 nos. control &amp; display unit for gauge</p> <p>2) <b>Pumping speed</b> : <math>\geq 20\text{m}^3/\text{hr} \pm 10\%</math></p> <p>3) <b>Ultimate pressure (With Gas ballast closed)</b> : <math>\leq 5 \times 10^{-4}</math> mbar</p> <p>4) <b>Inlet flange</b> : DN 25 KF</p> <p>5) <b>Noise level</b> : <math>\leq 70</math> dB(A)</p> <p>6) <b>Water vapor tolerance</b> : <math>\geq 7</math> mbar</p> <p>7) <b>Oil filling</b> : Mineral oil</p> <p>8) <b>Protection category</b> : IP 43 or better</p> <p>9) A <b>dust separator</b> should be provided at the inlet of the vacuum pump to protect the pump against dust (~10 microns) ingress at the inlet.</p> <p>10) There must be a provision in the inlet of the vacuum pump to prevent the pump oil back flow into the system in case of power failure.</p> <p>11) An <b>Oil mist filter</b> must be provided at the exhaust of the vacuum pump to prevent the oil mist contaminating the atmospheric air.</p> <p>12) <b>Gauge minimum measurement range</b> : <math>1 \times 10^{-4}</math> mbar to atmospheric pressure</p> <p>13) <b>Control unit</b> : 2 nos. for display &amp; control unit for gauge should be provided.</p> <p>14) <b>Units of display in control unit</b> : mbar/Pa/torr</p> <p>15) <b>Type of display in control unit</b> : Digital, LED/LCD</p> <p>16) <b>Input voltage for instruments</b> : <math>230 \pm 10\%</math> V, 50 Hz</p> <p>17) <b>Control unit Interfaces</b> : USB or RS-485 or Ethernet.</p> <p>18) <b>Control unit measurement range</b> : 1,500 mbar to <math>&lt;5.0 \times 10^{-5}</math> mbar or better</p>	

<p><b>19) Accessories:</b> The vendor should provide all the essential accessories including all the interconnecting and power cables for the gauge, control unit and pump.</p> <p><b>20)</b> The vendor should submit a complete <b>operation manual</b> of the instrument at the time of delivery.</p> <p><b>21) Acceptance test:</b> The pump &amp; gauge would be tested at IPR to check its pumping speed, ultimate pressure &amp; display range (as per S.No. 2, 3 &amp; 13 ) for acceptance purpose.</p> <p><b>22) Delivery:</b> The instrument should be delivered safely by the vendor at IPR Extension Lab (Vidhata Associates) Gandhinagar.</p> <p><b>23) Warranty:</b> At least one year warranty from the date of installation against all sorts of manufacturing defects, faulty and poor workmanship.</p>	
--	--

**Bidder's Official Stamp and Sign:**

**Date:**