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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, भट, गांधीनगर - 382 428 भारत
दूरभाष: (079) 2396 2020/2021/2028
फैक्स: 91-079-23962277
वेब: 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

ENQUIRY

ENQUIRY NO : IPR/EQF/18-19/186
Date : 09-01-2019

Due on : 21-02-2019 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	Edge welded bellow without end flange of length 100 mm with details as per attached specification	2.0 Nos.
2	Edge welded bellow with DN 100 CF flange of length 1000 mm with details as per attached specification	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.

Encl: As per attachment.

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.

Technical Specifications for Edge Welded Bellow

There is a requirement of two edge welded bellows with different dimension and length. The specification for both bellows are tabulated below:-

Sl No.	Parameter	Bellow-1	Bellow-2
1	Quantity	02 No	01 No
2	End flanges	Without end flanges	DN 100 CF
3	Material	SS 316	SS 316
4	Working pressure	Inside: $\leq 1e-3$ mbar Outside: 1 bar	Inside: $\leq 1e-3$ mbar Outside: 1 bar
5	Bellow dimensions	Inner diameter: 46 mm ± 1 mm Free length: 100 mm to 140 mm (without end pieces) Compressed length: 25 mm to 30 mm (without end fittings)	Inner diameter: 4 inch Free Length: approx. 1000 mm. ± 5 mm Compressed length: less than 500 mm
6	Spring rate	< 30 N/mm	> 0.75 N/mm
7	Operational temperature	300 deg C	300 deg C
8	Lifetime	$\geq 5,000$ cycles	$\geq 5,000$ cycles
9	Leak rate at ambient conditions	$\leq 1.0 E-08$ mbar.l/sec	$\leq 1.0 E-08$ mbar.l/sec

1. **Documents to be supplied along with the submission of quotation:** Detailed technical specification and product brochure
2. **Warranty :** 1 Year from the date of acceptance of the material at IPR
3. **Packing :** The material should be packed properly to avoid any damage during transport. The damaged material will not be entertained by IPR.
4. **Delivery:** The material should be delivered within 12 weeks from the date of placement of final purchase order.
5. **Test-Report/Certificate to be submitted along with delivery of Bellow:**
The following test reports should be supplied along with the delivery of the bellows.
 - a. The vendor should provide the material test certificate for the material of bellow.
 - b. The vendor should supply the test report for working pressure & leak rate at ambient conditions of the bellow.

- 6. Acceptance test at IPR** : The following tests will be performed at IPR upon receipt of edge welded bellows at IPR, based upon which acceptance of the bellows will be provided.
- a. Visual inspection of bellow and end flanges will be done for any surface defects.
 - b. Dimensional check for the compressed and free length as provided in sl. no. 5 of specification table.
 - c. The bellow will be tested for leak using He leak detector for leak rate at ambient temperature as mentioned in sl. no. 9 of specification table.

Vendor Compliance Sheet for Edge welded bellow

Bellow-1 (Edge welded bellow without end flanges)

Parameters	IPR Specification	Vendor Specification
End flanges	Without end flanges	
Material	SS 316	
Working pressure: Inside Outside	≤ 1e-3 mbar 1 bar	
Bellow dimensions:	Inner diameter: 46 mm ±1 mm Free length: 100 mm to 140 mm (without end fittings) Compressed length: 25 mm to 30 mm (without end fittings)	
Spring constant per convolutions	< 30 N/mm	
Operational temperature	300 degree C	
Cycles	≥ 5,000 cycles	
Leak rate at ambient condition	≤ 1.0 E-08 mbar.l/sec	

Bellow-2 (Edge welded bellow with DN 100 CF flanges)

Parameters	IPR Specification	Vendor Specification
End flanges	DN 100 CF	
Material	SS 316	
Working pressure: Inside Outside	≤ 1e-3 mbar 1 bar	
Bellow dimensions:	Inner diameter: 4 inch	

	Free length: Approx.1000 mm ± 5 mm Compressed length: less than 500 mm	
Spring constant per convolutions	> 0.75 N/mm	
Operational temperature	300 degree C	
Cycles	≥ 5,000 cycles	
Leak rate at ambient condition	≤ 1.0 E-08 mbar.l/sec	

Other requirements:

Parameters	IPR Specification (For both bellows)	Vendor Specification
Warranty	1 Year from the date of acceptance of the material at IPR	
Delivery	The material should be delivered within 12 weeks from the date of placement of final purchase order.	
Test-Report / Certificate to be submitted along with delivery of Bellow	(i) The vendor should provide the material test certificate for the material of bellow. (ii) The vendor should supply the test report for working pressure & leak rate at ambient conditions of the bellow.	

Bidder's Official stamp and sign:

Date: