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प्लाज़्मा 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 2020/2021/2028
Fax : 91-079-23962277
Web : www.ipr.res.in

ENQUIRY

ENQUIRY NO : IPR/EQL/19-20/311
Date : 11-11-2019

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:

Important Note:

Please note that e-mail quotations are not acceptable however you may send your queries (if any) to localpurchase@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-LP-01.V4**)
- 2) Bidding format

GST for Goods and Services (IGST/CGST/SGST TAX BENEFITS): Please refer clause no: 8 of Form No: **IPR-LP-01.V4**

QUOTATION SHOULD BE ADDRESSED TO PURCHASE OFFICER ONLY

Sr No	Description	Quantity
1	Supply of Single Ply Hydro-formed SS 304L Bellows as per attached specification	10.0 Nos.

Note: Note : (1) Unsigned quotations are not acceptable.
Quotation should be submitted duly signed on ALL PAGES invariably
(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

Encl: delivery Time:-04 weeks
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/tenderseng.html> for our future requirement.

SUPPLY OF SINGLE PLY HYDRO-FORMED SS 304L BELLOWS
AS PER SPECIFICATIONS MENTIONED BELOW

1.0 SPECIFICATION

Bellow Material	: SS 304L
End Connections Material	: AISI SS304L
Bellow Length	: 85 mm
End Connector Length	: 22.5 mm
End Connector (both side) (Butt Welded type)	: ¾" NB, Sch 10 S
Design Pressure	: 3 bar (g) /vacuum
Design/Operating Temperature	: -269 °C to 25 °C
Axial Movement	: ± 20 mm,
Lateral & Angular Movement	: ± 5mm, 0°
Number of Convolutions	: as per EJMA Design code
Outside Diameter of Convolutions	: ~ 35 mm
Inside Diameter of Convolutions	: ~24 mm
Qty:	: 10 nos.

2.0 INSPECTION

- Material test certificates (from Govt. approved laboratory) shall be submitted to IPR. Only after approval of material test certificate by IPR, vendor shall supply the bellows.
- Random check for dimensional accuracy as per specifications shall be executed
- Final acceptance test :
 - a) Helium leak detection for 1×10^{-8} mbar l/s at IPR.(IPR personnel will test the bellows for He leak rate with own resources.)
 - b) Cold shock test: bellows will be tested for three cycle of cold shock with LN2 at IPR.

Bellows are accepted, subjected to full-fillment of above test along with approval of material test.

3.0 PACKING AND SUPPLY

All the components shall be packed with proper material (Cloth/Bubble Sheet) to avoid damages during transportation. Vendor shall obtain 'Release of Shipment' from IPR authority before supply of the material to IPR.

4.0 DELIVERY SCHEDULE

The material shall reach at IPR within 4 weeks after placing the purchase order.

Compliance Sheet

regarding Supply of Single Ply Hydro-formed SS 304L Bellows

S. No.	Specification	IPR Requirement	Vendor offering (Write specific value) " Kindly use technical values avoid using words "yes/complied/ok/agree/confirm "
1	Bellow Material	SS 304L	
2	End Connections Material	SS 304L	
3	Bellow Length	85 mm	
4	End Connector Length	22.5 mm	
5	End Connector (both side)	¾" NB, Sch 10 S	
6	Type of end connections	Butt welded	
7	Design Pressure	3 bar (g) /vacuum	
8	Design/Operating Temperature	-269 °C to 25 °C	
9	Axial Movement	± 20 mm	
10	Lateral & Angular Movement	± 5 mm, 0°	
11	Number of Convolutions	as per EJMA code	
12	Outside diameter of convolutions	~ 35 mm	
13	Inside diameter of convolutions	~24 mm	
14	Quantity	10 numbers	
15	Material Test Certificate	from Govt. approved lab	
16	Helium Leak Detection	1 x 10 ⁻⁸ mbar l/s	
17	Final acceptance tests at IPR:		
17.1	Dimensional Checks	Random	
17.2	Cold shock Test at IPR	3 cycles of LN2 shock	
17.3	Helium Leak Rate after cold shock	1 x 10 ⁻⁸ mbar l/s	

[Vendor's official stamp & Signature]

Date

Note: Kindly mention the technical values avoid using words "ok, confirm, yes etc