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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/18-19/394
Date : 01-02-2019

Due on : 07-03-2019 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	Copper pipes as per attached dwg and specifications (OD:99.3 mm, ID: 95.3 mm, L : 3 MTR) Qty: 125 nos.	2010.0 Kgs

Note: Note : (1) Unsigned quotations are not acceptable. Quotation should be submitted duly signed on ALL PAGES invariably.
(2) Quotation to be submitted in Indian Currency only.
(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.
(4) 90% of basic price + 100% of all other charges will be paid within Two weeks from the date of receipt of material at IPR site and its verification by IPR representative and on receipt of invoice in

triplicate. Balance 10% of above will be paid within 30 days from the date of acceptance and on receipt of final invoice.

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 Supply of Hard drawn Copper Pipes

The detailed specifications (Table 1.0) and engineering drawing (Annexure-I) of the copper pipes are provided here. The vendors are requested to study it in detail and offer best of their quotations. The compliance sheet (Annexure-II) shall be filled by the vendors and shall be sent along the Quotation.

Table 1.0 Copper Pipes Specifications:

Sr.	Description of Items	Specifications
1	Material	ETP grade copper as per BIS standard or equivalent (99.90% Cu Min.+ 0.04% Oxygen Max.)
2	Pipe Type	Seamless
3	Outer Diameter	99.3 mm \pm 0.5 mm measured over its entire length
4	Inner Diameter	95.3 mm \pm 0.2 mm measured at end point of the pipe
5	Wall thickness	2 mm
6	Surface smoothness	better than $\nabla\nabla$ ($R_a < 3.2 \mu$) for outer surface of the pipe.
7	Ovality	within 0.8% of average outer diameter
8	Nominal length	3000 mm each section \pm 10 mm over nominal length.
9	Straightness	Better than 2.1 mm / m as per IS standard 2002
10	Quantity	125 nos (Total length 125 x 3 = 375 m)

2. Fabrication and test

1. The vendor shall fabricate / procure pipes and obtain material (composition) test certificates from Govt. approved laboratory for one of the random sample. The certificate should be supplied to IPR for confirmation. The IPR reserves the right to test the material separately and in that case the vendor must supply test sample of the material procured from the same batch.
2. The copper pipes shall be hard drawn only.
3. Random pipes would be subjected to surface roughness test with roughness tester (by IPR representative).
4. Dimensional checks would be carried out for all the pipes by the vendor and a test result would be sent to IPR in tabular form with matching sample numbers to be marked on pipes for easy identification. This test result should be supplied to IPR before pre-dispatch inspection.

3. Pre-dispatch Inspection at Vendor site

1. A pre-dispatch inspection (PDI) at vendor site shall be carried out before shipping.
2. IPR representatives shall carry out the PDI and the following table summarizes the acceptance criteria.

Sr.	Inspection parameters	Acceptance criteria
1	Dimensional checks of end to end Length of each section	$\leq \pm 10$ mm variation of nominal length

2	Outer diameter (measured at any position of the circumference) along the entire length	99.3 mm \pm 0.5 mm
3	Inner diameter (measure at end position of the circumference)	95.3 mm \pm 0.2 mm measured at end point of the pipe
4	Straightness	< 2.1 mm / m as per IS standard 2002
5	Ovality	within 0.8% of average outer diameter
6	Surface roughness measured by roughness tester	< $\nabla\nabla$ ($R_a < 3.2\mu$) for outside surface of the pipe.
7	Material defects like cracks as seen visually.	Should not have any visible crack
8	Material Cleanliness	Material surface shall be free from any contamination (rust, oil, grease, paint marks etc.)

4. Packing and Delivery to IPR

1. All the pipes should be packed in wooden box with adequate packing so as to avoid ovality and straightness damage to the pipes.
2. All the tests mentioned in sr. 3 would be repeated at IPR. Acceptance of the items is subject to qualifying the tests.

5. Performance Guaranty

The vendor shall guarantee the quality of material provided for any material defect or poor fabrication for a period of one year from date of acceptance.

6. Delivery Schedule:

The vendor shall supply the item to IPR within 90 days from PO date.

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Annexure II

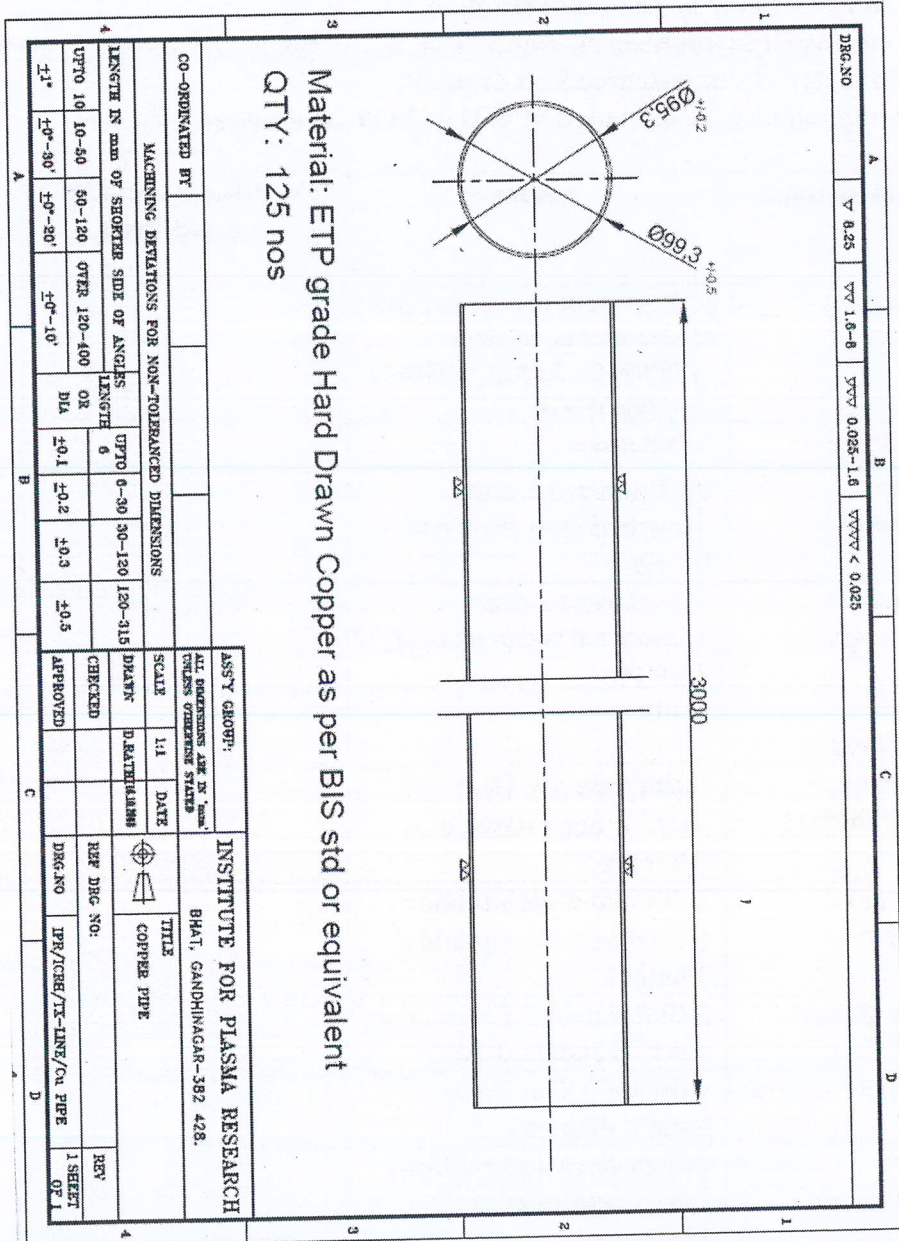
Compliance sheet (to be filled by the vendor and to be sent along with Quotation)

NOTE:

1. Any deviation/ disagreement / suggestion **MUST clearly be mentioned** here vis-à-vis our specifications. Extra sheet may be used if required.
2. Please **do not casually / insincerely mention 'Yes'** for all the specifications without studying the documents / our specifications in detail.
3. Without this compliance sheet quotation **WILL NOT be evaluated.**

Sr.	Specification	Values	Vendor's specs of quoted item	Comply (YES/NO)
1	Material	ETP grade copper as per BIS standard or equivalent (99.90% Cu Min. + 0.04% Oxygen Max.)		
2	Pipe Type	Seamless		
3	Outer Diameter	99.3 mm ± 0.5 mm measured over its entire length		
4	Inner Diameter	95.3 mm± 0.2 mm measured at end point of the pipe		
5	Wall Thickness	2 mm		
6	Surface smoothness	better than ∇∇ ($R_a < 3.2 \mu$) for outer surface of the pipe.		
7	Nominal length	3000 mm each section ± 10 mm over nominal length.		
8	Straightness	Better than 2.1 mm/m as per IS standard 2002		
9	Ovality	within 0.8% of avg. outer diameter		
10	Test certificate	of random sample from govt. approved laboratory		
11	Material defects like cracks as seen visually.	should not have any visible crack		

Annexure I



Material: ETP grade Hard Drawn Copper as per BIS std or equivalent
 QTY: 125 nos