

# प्लाज़मा अनुसंधान संस्थान INSTITUTE FOR PLASMA RESEARCH परमाण् ऊर्जा विभाग, भारत सरकार का एक सहायता प्राप्त



# संस्थान

# An Aided Institute of Department of Atomic Energy, Government of India

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वेब: www.ipr.res.in

# **ENQUIRY**

ENQUIRY NO : IPR/EQL/19-20/434

Date : 11-03-2020

Due on : 25-06-2020 by 1:00 PM IST

Reminder-1 Dt: 20-04-2020 Reminder-2 Dt: 19-05-2020

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., <a href="http://www.ipr.res.in/documents/tender\_terms.html">http://www.ipr.res.in/documents/tender\_terms.html</a> / 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	Fabrication of Stub Tuner as per attached drawings	4.0 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

Delivery Time: - 04 months

Encl: Refer attached sheets for detailed technical

specifications.

**Information to Vendors:** We are working towards a single platform for our future requirement. Hence, please refer IPR website i.e, <a href="http://www.ipr.res.in/documents/tenderseng.html">http://www.ipr.res.in/documents/tenderseng.html</a> for our future requirement.

# **Technical Specification of Stub Tuner for Transmission Line**

The detailed specifications and engineering drawing of the Stub Tuner are provided. The vendors are requested to study it in detail and offer best of their quotation. Stub Tuner specifications are given below.

I. No IPR Specifications		Values	
1	Stub Tuner Assembly	As per attached drawing	
2	Quantity	04 Nos.	

# **WORKS PROCEDURE AND GUIDELINES**

# 1. System Description

Stub Tuner consists of two coaxial cylinders of different diameters, and one piston moving between the cylinders. Finger contacts are used in plunger for perfect contact between inner conductor and plunger and outer conductor and plunger. The motorised movement of the plunger would be in both forward ad backward directions. The ball screw connected to the plunger has to be coupled to the motor shaft for transferring motion to the system. For a controlled motion of the stub tuner a complete system comprising of motor, compatible driver, Display position of stub, finger contacts(BeCu) for plunger and limit switches (upper limit and lower limit), pressure testing arrangement(Blanks and Viton Gaskets) is in vendor's domain.

# 2. Technical Specifications of Motor and Drive unit

Motor Specification: Type: Stepper with encoder, Dynamic Torque: ≥ 7.5 N-m

Drive unit: Compatible with motor and position indicator with Display (encoder), communication port and movement resolution 1 mm.

Ball screw: 40 mm x10 mm pitch

Direction of motion: Forward and backward (single axis). Plunger should move at 10/20 mm/second.

# 3. General Terms and conditions

All the sharp edges should be rounded off as per the drawing or R1.

IPR reserves the right to modify dimensions given in the drawing to the extent of < 0.5 % of the nominal before issuing purchase order.

#### 4. Free Issue Material

Aluminium outer pipe 4 meter (Rs.3000/mtr.), copper inner conductor tube 1.6 meter (Rs.2000/mtr.), Flanges 5 (Rs.1000/piece) Nos are provided by IPR as FIM for one stub.

# 5. Inspection at Vendor site and supply

A pre-dispatch inspection (PDI) at factory shall be carried out by the IPR representatives before shipping. The PDI will include the following.

(i) Dimensional checks as per drawing.

(ii) Motorised movement of the system to be checked.

(iii)Complete assembly to be tested up to 5 bar pneumatic pressure.

(iv)Visual checking of the surface finish like sketch/dents and material defects like cracks etc.

# 6. Post Delivery checking at IPR

All the tests done at factory stated in section 5 shall be tested at IPR by IPR personnel at no cost to vendor.

## 7. Performance Guaranty

The vendor shall guarantee the quality of material, workmanship and the assembly for a period of one year from the date of acceptance at site.

### 8. Delivery Period

The vendor shall supply the fabricated items to the IPR within 120 days from PO date.

# Compliance Sheet: Stub Tuner for Transmission Line

# NOTE:

4

- 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.

IPR Specifications			Vendor's Specification	Comply (Y/N)
1	Stub Tuner Assembly	As per attached drawing		
2	Stepper Motor with encoder	Dynamic Torque: ≥ 7.5 N-m		
3	Ball screw	40 mm x10 mm pitch		
4	Quantity	04 Nos.		







