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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

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## ENQUIRY

ENQUIRY NO : IPR/EQL/19-20/148

Date : 12-07-2019

**Due on : 08-08-2019 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](mailto: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](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, Installation, Testing and Commissioning of GI Pipe earthing station suitable for normal soil as per specifications.	1.0 No
2	Supply and installation of earthing strip 25x6 mm Copper and another details are as per attached specification sheet copper earth strip(25x6mm) will be provided by IPR.	25.0 Mtrs.

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

90 days  
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 Construction of Earth Station as per IS: 3043 (1987)**

### SCOPE:

The scope of work is to provide Earth Station at location as called for including supply for each earth station the following –

1. Perforated 65 mm ID diameter, 3 meters long GI Pipe Earth Electrode of Grade Medium (Class-B) to be laid in a pit of diameter 300 mm and depth of 3 meters below the ground level.
2. 65 mm x 10 mm GI connector strip (Hot dipped GI) coupled to GI pipe Earth Electrode with provision for connection to equipment (Transformer in this case) to be earthed on two ends with required hardware.
3. 65 mm x 10 mm GI Earth strip (Hot dipped GI) of required length for connecting Body earthing of DCDB panel to earth electrode.
4. Cast Iron Funnel with wire mesh and reducer GI pipe of 50 mm dia. for watering;
5. Brick masonry chamber with suitable opening for earth strip connection to equipment;
6. RCC / Cast Iron manhole cover with frame (400 mm x 400 mm).
7. Homogeneous layer of charcoal and salt around the pipe earth electrode.
8. Welded joints shall be painted with anti-corrosive / Zinc-rich paint to protect the joint from corrosion.
9. Copper Earth strip to be laid should be proper clamp at regular intervals on wall with required hardwares.

The scope includes excavation of earth, backfilling, ramming, dressing and cleaning of site etc. and including required all civil, fabrication, mechanical works as required for completing the scope of work.

The construction of Earth Station must comply to IS: 3043 (1987) standard – Code of Practice for Earthing. The earthing shall be carried out in accordance with the requirement of Indian electricity Rules 1956, as amended from time to time and the relevant regulation of the electricity supply authority concerned. The typical diagram is as shown in Annexure – A.

All the earth station so constructed shall be tested for measurement of earth electrode resistance. The vendor shall ensure that the earth resistance is within the limits as specified in the relevant IS.

# ANNEXURE#A

