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## ENQUIRY

ENQUIRY NO : IPR/EQL/18-19/048  
Date : 22-05-2018

**Due on : 21-06-2018 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 & Commissioning of GI Pipe earthing stations suitable for normal soil as per specifications	20.0 Nos.
2	Supply and installation of earthing strip of size 25 x 6 mm copper	100.0 Mtrs.

Note: Please quote with complete technical details (Technical compliance sheet and product data sheet).

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 Stations for Distribution Transformer**  
**as per IS: 3043 (1987)**

SCOPE:

The scope of work is to provide Twenty (20) numbers of Earthing Stations. This includes construction of twenty (20) number of Earth Station for each system at location specified by IPR including supply of the following for each earth station–

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 to be earthed on two ends with required hardware. GI connector strip will serve the purpose of earth connection with Earth strip.
3. 25 mm x 6 mm Copper Earth strip of required length for connecting each earth electrode with the Earth Link bar. Earth strip will serve the purpose of earth connections to the earth link bar.
4. 25 mm x 6 mm copper earth link bar (one or two feet long) to be fitted on the wall by necessary hardware. Earth link bar will serve the purpose of earth connections to the equipment.
5. Cast Iron Funnel with wire mesh and reducer GI pipe of 50 mm dia. for watering;
6. Brick masonry chamber with suitable opening for earth strip connection to equipment;
7. Cast Iron manhole cover with frame (400 mm x 400 mm);
8. Homogeneous layer of charcoal and salt around the pipe earth electrode.
9. Welded joints of GI Pipe and GI connector strip shall be painted with anti-corrosive / Zinc-rich paint to protect the joint from corrosion.

The scope includes excavation of earth, backfilling, ramming, dressing and cleaning of site etc. as required for completing the scope of work. The vendor may visit to site for the location of earthing stations.

The construction of Earth Stations 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 stations 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.

**Compliance Statement:**

Sr. No.	IPR Requirement	Vendor's reply
1	Perforated 65 mm ID diameter, 3 meters long GI Pipe Earth Electrode of Grade Medium (Class-B) with coupled connector strip	
2	25 mm x 6 mm copper earth strip	
3	25 mm x 6 mm copper earth link bar with necessary hardware to fix on wall.	
4	Cast Iron Funnel with wire mesh and reducer GI pipe of 50 mm dia.	
5	Brick masonry chamber with suitable opening	
6	RCC / Cast Iron manhole cover with frame (400 mm x 400 mm)	
7	charcoal and salt	

**Price Bid Format:**

(Bidders are requested to offer their price bids in the following format)

Sr. No.	Description	Qty	Basic Rate (In ₹)	Packing and Forwarding (P&F)	Applicable GST	Rate (Incl. P&F and GST)	Total Amount (In ₹)
		units					
		(a)	(b)	(c)	(d)	e= b+c+d	F= a x e
1.	Supply, Installation, Testing & Commissioning of GI Pipe earthing stations suitable for normal soil as per specifications.	20 No.	Per Unit	Per Unit			
2.	Supply and installation of earthing strip of size 25 x 6 mm copper	100 Mtrs (Approx)	Per Meter	Per Meter			

# ANNEXURE#A

