



प्रसार भारती  
Prasar Bharati  
भारत का लोक सेवा प्रसारक  
India's Public Service Broadcaster  
कार्यालय: अपर महानिदेशक (अभि.) (उत्तरी क्षेत्र)  
Office of the Additional Director General (E) (NZ)  
आकाशवाणी एवं दूरदर्शन  
Akashwani & Doordarshan  
आठवां तल, सूचना भवन, सी.जी.ओ. कॉम्प्लेक्स, नई दिल्ली 110003  
8<sup>th</sup> floor, Soochna Bhawan, CGO Complex, New Delhi-110003



**Gurez/2V/3/2024-25/Instt./(Copper Earthing)**

**Dated: 16.04.2024**

**Subject:** Fabrication and construction of copper plate earthing & other related misc work at HPT TV site Gurez (J&K).

1. The budgetary quotation with drawing of the upcoming tender is enclosed herewith to offer comments, if any by prospective bidders/firms.
2. Bidders/firms are requested to provide information about content in respect of works along with budgetary quote.
3. Bidders/firms may please submit the above detail on or before due date by e-mail to rksrivastav@prasarbharati.gov.in or at following Address.

Assistant Director (Engg.)  
Room No. 899-C,  
O/o ADG(E-NZ)  
Akashwani & Doordarshan,  
8<sup>th</sup> floor, CGO Complex,  
Soochna Bhawan, New Delhi-110003  
Mobile No.: 09873364977

**Budgetary Quotation for:** Budgetary quotation with drawing for fabrication and construction of copper plate earthing & other related misc work at HPT TV site Gurez (J&K).

**Due Date to offer Comments:** 23.04.2024

**Enclosed:**

1. Budgetary Quotation form of the upcoming tender is enclosed herewith to offer comments, if any by prospective bidders/firms.
2. Drawing for fabrication and construction of copper plate earthing & other related misc work at HPT TV site Gurez (J&K).

**Assistant Director (Engg.)  
For Add. Director General (NZ)**



Gurez/2V/3/2024-25/Instt./(Copper Earthing)

Date:16.04.2024

**Budgetary Quotation Form**

Please read carefully the terms and conditions given the enquiry quotation form.

**Project:** Installation of 10kW (1+1) FM Transmitter at HPT TV site Gurez (J&K).

**Subject:** Fabrication and Construction of copper plate earthing & other related misc work at HPT TV site Gurez (J&K).

Last date of receipt of budgetary quotation in this office: 23.04.2024 upto 12:00Hrs

S.No.	Description	Qty	Rate	Amount
1.	Fabrication and construction of copper plate earthing details of electrodes & earth pit as per given below: i. Digging of pit of size: 1 mtr. x 1 mtr. x 3.5 mtr.(D) at hilly and rocky terrain. ii. Placing the copper plate of size 600x600x3mm with pipe and strip into the pit. iii. Placing of copper strip of 25mmx3mm shall be extended from bottom of the earth pit to the surface of the earth pit, after joining the copper strip by copper rivets and proper brazing of strip to the copper plate. iv. Fixing the 10ft. long 38mm dia G.I Pipe & fixing with the copper plate in the center with G.I/ SS nut bolts class C. One G.I. reducer at the top of the pipe is to be provided for fixing steel mesh for watering as shown in the drawing. v. Providing and filling of 2 Nos of bags of bentonite each of 50kg. (for each earth pit.) vi. Filling of 80kg charcoal, and 80kg raw salt in alternate 3 to 4 layers. The fresh soil about 2.0 cubic meter in earth pit size in layers is to be arrange to fill the pit for proper result. vii. Proper watering of the filled pit for initial charging of pits. viii. Construction of CC chamber in ratio 1:2:4 and fixing heavy duty C.I. cover with lifting hooks. ➤ Scope of work is as per drg. No. TM-15175/2 (General). The marking of these earth pits shall be given at site (drg. should be collected from the office and all the terms and condition on drawing should be accepted.	16 Nos.		
2.	Making grid of above earthings by interconnecting earth electrodes with fabrication & fixing of 50mm x 3mm copper strip as per given below: i. Transmitters 2 Grid out of 6 Pits ii. Audio-1 Grid out of 3 pits. iii. PS-3Nos. separate (LT Electrical Panel, UPS, AVR) iv. DG Sets – 4 Nos. separate pits (copper earthing electrodes) (Neutral 2 Nos. and body earth 2Nos. for each DG set)  Grids are to be fabricated by using three no. of above plate earthing by jointing and brazing each by 50 x 3mm copper strip- i.e 2 Nos. of length approx. 3 mtrs each 3 Grids= 27Mtrs	1 Job		
3.	Copper Strip laying for extension of earthing system up to the transmitter hall, UPS & LT panel in AIR premises and terminating in bus bar by digging the soil 6" deep & placing the copper strip along the trenches upto desired location and placing the strip by brazing to the earthing system then filling the soil over these trenches at AIR Gurez (J&K). i. Laying of 25 mm x 3 mm Copper strip from earthing system to the bus bars. ii. Jointing the all joints and connections of the ends of the copper strips by proper copper riveting & brazing with gas welding & by Nut bolts to the bus bars. ➤ The 25x3 mm copper strip will be provided by the department.	450 R Mtr.		
4.	Providing of 375x38x6mm copper bus bar with insulators & steel nut bolts and the fixing of 375x38x6mm copper bus bar is to be done to terminate the different earthing system of transmitter, Audio input rack, and other electrical panel at AIR Gurez.	06 Jobs.		
5.	Providing & fixing of nomenclature/sign marker for earth pits at AIR Gurez (J&K) as per below:- • Providing pre engraved stainless steel marking plate of size 8"x 4"x 5mm thickness & 2½' long 10mm dia steel rod is to be welded with above plate. • The engraving of numbering & nomenclature of various pits should be done on above marking plates in consultation with site incharge. • Digging of soil & grouting the above marker 1' deep below the ground with cement concrete work.	16 Nos.		
	<b>Note:</b> ➤ After construction of earthing system the resistivity measurement shall be taken and it should be less than 1 ohm. ➤ The AIR Gurez site is situated at remote, hilly and difficult climatic terrain of Jammu & Kashmir region and AIR Gurez is approx 125Km from Srinagar. So, bidders should take proper information about ground reality of the site before submitting the tender process. ➤ The copper earthing material like copper plate, G.I pipe, 25x3mm copper strip, charcoal & salt shall be provided by the department. ➤ Above complete work will be carried out in presence of authorized representative of this office.			
	<b>Total</b>			
	<b>GST @</b>			
	<b>Grand Total</b>			

**Note:**

- Time of execution as per permission of Engineer Incharge at HPT TV site Gurez (J&K).
- The Bidder must be experienced in same kind of scope & shall submit documentary evidence with offer. The Completion certificate is to be attached, issued by any Govt Agency only.
- Execution of scope has to be completed without break in service at HPT TV site Gurez (J&K).
- The firm has to produce a list all such labour along with the address proof which are to be Employed Office on signing contract. The firm shall issue the identity cards to all such persons to facilitate the entry in at HPT TV site Gurez (J&K).
- Inspection will be carried out preferably in presence of Authorized representative of ADG (NZ), AIR & DD, 8th floor, Sochna Bhawan, CGO Complex, New Delhi-110003
- Any damage or misplace in equipment will have to be provided by the firm during execution.

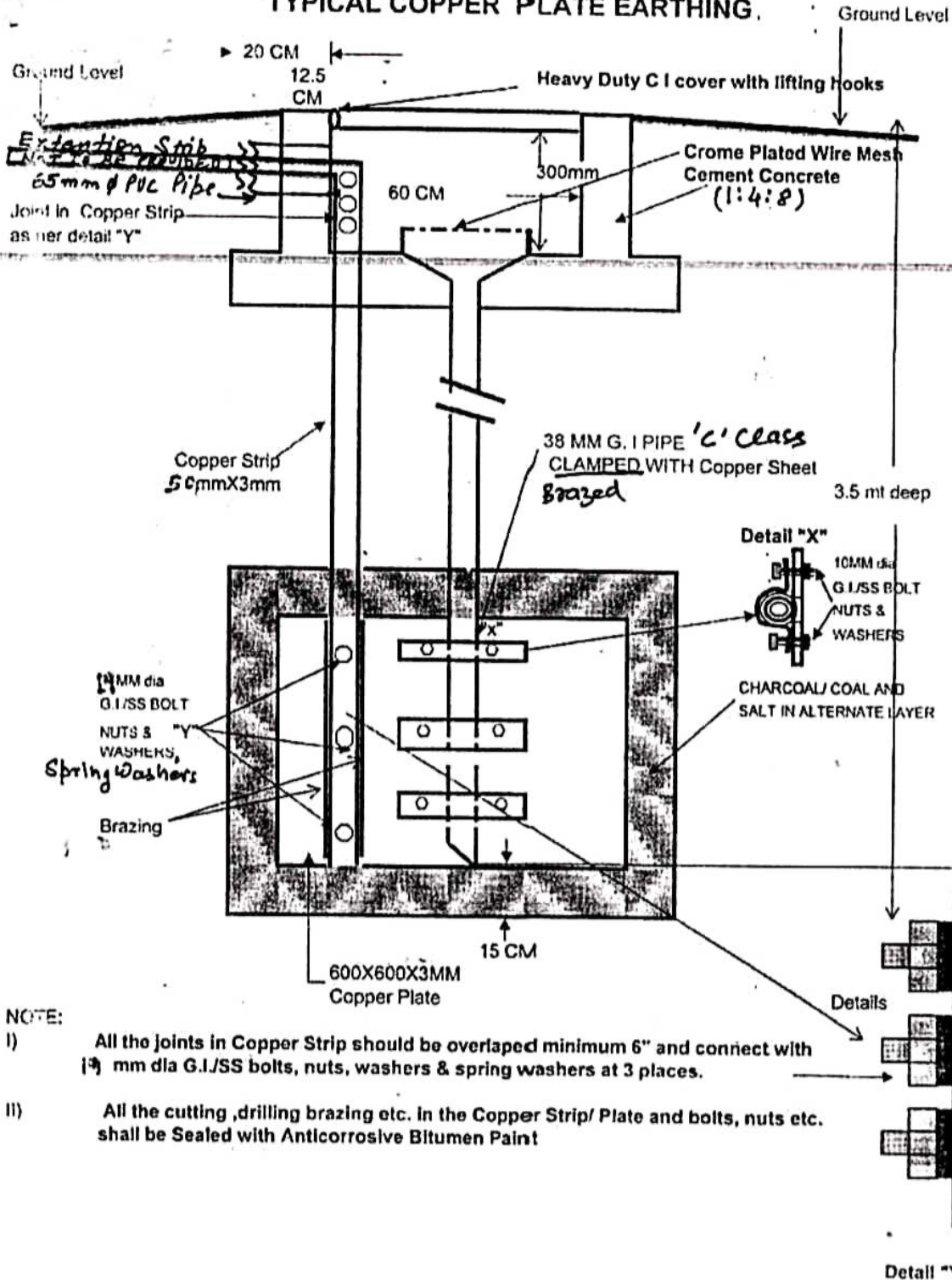
- 1. Quantity of Material & Scope may increase or decrease as per actual requirement/constraints at site.
- a) GSTIN No: ..... b) PAN No.....
- 2. **Delivery at:** Installation of 10kW (1+1) FM Transmitter at HPT TV site Gurez (J&K).
- 3. **Consignee:** Installation officer, HPT TV site Gurez (J&K).
- 4. **Completion Period:** Completion of scope within 90days from the date of order.
- 5. **Validity:** 120days
- 6. **Payment terms:**
  - 95% Payment on completion/execution of in good condition at site.
  - Balance payment of 05% will be paid after guarantee/warranty period of one year. However payment can be released against FDR/Account Payee Demand Draft/Banker's Cheque of equivalent amount in favour of CE (NZ), AIR & TV New Delhi valid for guarantee period at least.
- 7. **Performance Security:**
  - a. The firm/contractor should submit performance security deposit in the form of FDR from a schedule commercial bank valid for one year in favour of Chief Engineer (NZ), AIR & DD, New Delhi.
  - b. The Performance Security Deposit shall be 05% of cost of the order/Contract value.
- 8. **Declaration:** We declare that all the conditions as given in the Quotation form have been read by us.

Name (in capital)\_\_\_\_\_

Seal: (Signature of the Tenderer)



# TYPICAL COPPER PLATE EARTHING.



## NOTE:

- i) All the joints in Copper Strip should be overlapped minimum 6" and connect with 14 mm dia G.I./SS bolts, nuts, washers & spring washers at 3 places.
- ii) All the cutting, drilling, brazing etc. in the Copper Strip/ Plate and bolts, nuts etc. shall be Sealed with Anticorrosive Bitumen Paint

Drawing No. 15175/2 (General)