



प्रसार भारती

( भारत का लोक सेवा प्रसारक )

कार्यालय: अपर महानिदेशक अभियन्ता (उ.क्षे.)

आकाशवाणी एवं दूरदर्शन

आठवां तल, सूचना भवन, सी.जी.ओ. कॉम्प्लेक्स, नई दिल्ली 110003

ई.मेल [rajkishoresingh3@prasarbharati.gov.in](mailto:rajkishoresingh3@prasarbharati.gov.in)

BY MAIL

दिनांक: 02.07.2024

**Subject:** Supply, fabrication and construction of copper plate grid earthing & other related misc work at Akashvani Ramgarh, Jaisalmer (Rajasthan).

1. Bidders are requested to offer their feedback on the **Draft Tender** Specification of the upcoming tender.
2. Bidders are requested to provide information about percentage of Make in India content in the proposed requirement as per latest and updated DPIIT guidelines.
3. Bidders are requested to submit budgetary quote of the proposed requirements.
4. Bidders are requested to submit the above detail on or before due date by e-mail to [rajkishoresingh3@prasarbharati.gov.in](mailto:rajkishoresingh3@prasarbharati.gov.in) or at following address.

R. K. Singh  
Asstt. Director (Engg.)  
Room No. 899  
O/o ADG(E-NZ)  
Akashwani & Doordarshan,  
8<sup>th</sup> floor, CGO Complex,  
Soochna Bhawan, New Delhi-110003

**Specification for:** Supply, fabrication and construction of copper plate grid earthing & other related misc work at Akashvani Ramgarh, Jaisalmer (Rajasthan).

**Due Date to offer Comments:** 17.07.2024

**Enclosed:**

1. BOM for Supply, fabrication and construction of copper plate grid earthing & other related misc work at Akashvani Ramgarh, Jaisalmer (Rajasthan).
2. Drawing Specification for Supply, fabrication and construction of copper plate grid earthing & other related misc work at Akashvani Ramgarh, Jaisalmer (Rajasthan).

**R. K. Singh**  
Assistant Director (Engg.)  
For Add. Director General (NZ)



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

Dated: 2/7/2024

**Budgetary Quotation Form**

**Project:** Setting up of 20kW (1+1) FM Transmitter at Akashvani Ramgarh, Jaisalmer (Rajasthan).

**Subject:** Supply, fabrication and construction of copper plate grid earthing & other related misc work at Akashvani Ramgarh, Jaisalmer (Rajasthan).

Last date of receipt of budgetary quotation in this office: **17/07/2024 up to 12:00Hrs. via e-mail**  
**rajkishoresingh3@prasarbharati.gov.in**

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

S.No.	Description	Qty	Rate	Amount
1.	Supply, fabrication and construction of copper plate earthing details of electrodes & earth pit as per given below: <ul style="list-style-type: none"><li>Digging of pit of size: 1 mtr x 1 mtr x 3.5 mtr(D)</li><li>Providing of copper plate size 600 x 600 x 3mm</li><li>Providing of copper strip of 50x3mm 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.</li><li>Providing and fixing the 10ft. long 38 mm dia class "C" G.I pipe of reputed make such as Surya, Jindal or similar and 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.</li><li>Placing the copper plate with pipe and strip into the pit.</li><li>Providing &amp; filling of 2 Nos. of bags of bentonite each of 50 kg. (for each earth pit.)</li><li>Providing &amp; filling of 80kg charcoal, and 80kg raw salt in alternate 3 to 4 layers in each earth pit. The fresh soil about 2.0 cubic metre in earth pit size in layers is to be arrange to fill the pit for proper result.</li><li>Proper watering of the filled pit for initial charging of pits.</li><li>Providing of heavy duty C.I. cover with lifting hooks.</li><li>Construction of CC chamber in ratio 1:4:8 &amp; fixing of heavy duty C.I. cover.</li></ul> <b>Note:</b> The scope 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.	20 Nos.		
2.	Providing of 50mm x 3mm copper strip and making grid of above earthings by interconnecting earth electrodes with fabrication & fixing of 50mm x 3mm copper strip as per given below: <ul style="list-style-type: none"><li>Transmitters 3 Grid out of 9 Pits</li><li>Audio-1 Grid out of 3 pits.</li><li>Power Supply-4 Pits. separate (LT Electrical Panel, UPS, Isolation transformer, AVR)</li><li>DG Sets – 4 Nos. separate pits (copper earthing electrodes) (Neutral 2 Nos. and body earth 2Nos.for DG set)</li></ul> <b>Note:</b> <ul style="list-style-type: none"><li>Grid are to be fabricated by using three no. of above plate earthing by jointing and brazing each by 50 x 3mm. The length of Copper strip(approx) 9 mtr for each grid.</li></ul>	1 Job		
3.	Providing & fixing of nomenclature/sign marker for earth pits at Akashvani Ramgarh, Jaisalmer (Rajasthan) as per below:- <ul style="list-style-type: none"><li>Providing pre engraved stainless steel marking plate of size 8"x 4"x 5mm thickness &amp; 2½' long 10mm dia steel rod is to be welded with above plate.</li><li>The engraving of numbering &amp; nomenclature of various pits should be done on above marking plates in consultation with site incharge.</li><li>Digging of soil &amp; grouting the above marker 1' deep below the ground with cement concrete work.</li></ul>	20 Nos.		
4.	Copper Strip laying for extension of earthing system up to the transmitter hall, UPS & LT panel in Akashvani premises and terminating in bus bar by digging the Soil/cement concrete 01feet 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/cement concrete over these trenches at Akashvani Ramgarh, Jaisalmer (Rajasthan). <ul style="list-style-type: none"><li>Laying of 25 mm x 3 mm Copper strip from earthing system to the bus bars.</li><li>Jointing the all joints and connections of the ends of the copper strips by proper copper riveting &amp; brazing with gas welding &amp; by Nut bolts to the bus bars.</li></ul> <p>➤ The 25x3 mm copper strip will be provided by the department.</p>	200 R Mtr.		
5.	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 Akashvani Ramgarh, Jaisalmer (Rajasthan).	06 Jobs.		
	<b>Note:</b> <ul style="list-style-type: none"><li>After construction of earthing system the resistivity measurement shall be taken and it should be less than 1 ohm. Tenderer is require to ensure the same. Any change required in the above scope like length of electrode, no of pits extra should be brought in to the notice of department after proper measurement of earth conductivity, before submission of offer.</li><li>The Akashvani Ramgarh, Jaisalmer (Rajasthan) site is situated at remote and difficult climatic terrain of Rajasthan region and Akashvani Ramgarh is approx 80km from Jaisalmer City. So, bidders should take proper information about ground reality of the site before submitting the tender process.</li><li>Copper plate and strip should have 99.9% of purity and the certificate of purity should be submitted by the bidder at the time of execution of scope.</li><li>Above complete work will be carried out in presence of authorized representative of this office.</li></ul>			
	<b>Total</b>			
	<b>GST @</b>			
	<b>Grand Total</b>			

**Note:**

- Time of execution as per permission of Engineer Incharge at Akashvani Ramgarh, Jaisalmer (Rajasthan).
- 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 Akashvani Ramgarh, Jaisalmer (Rajasthan).

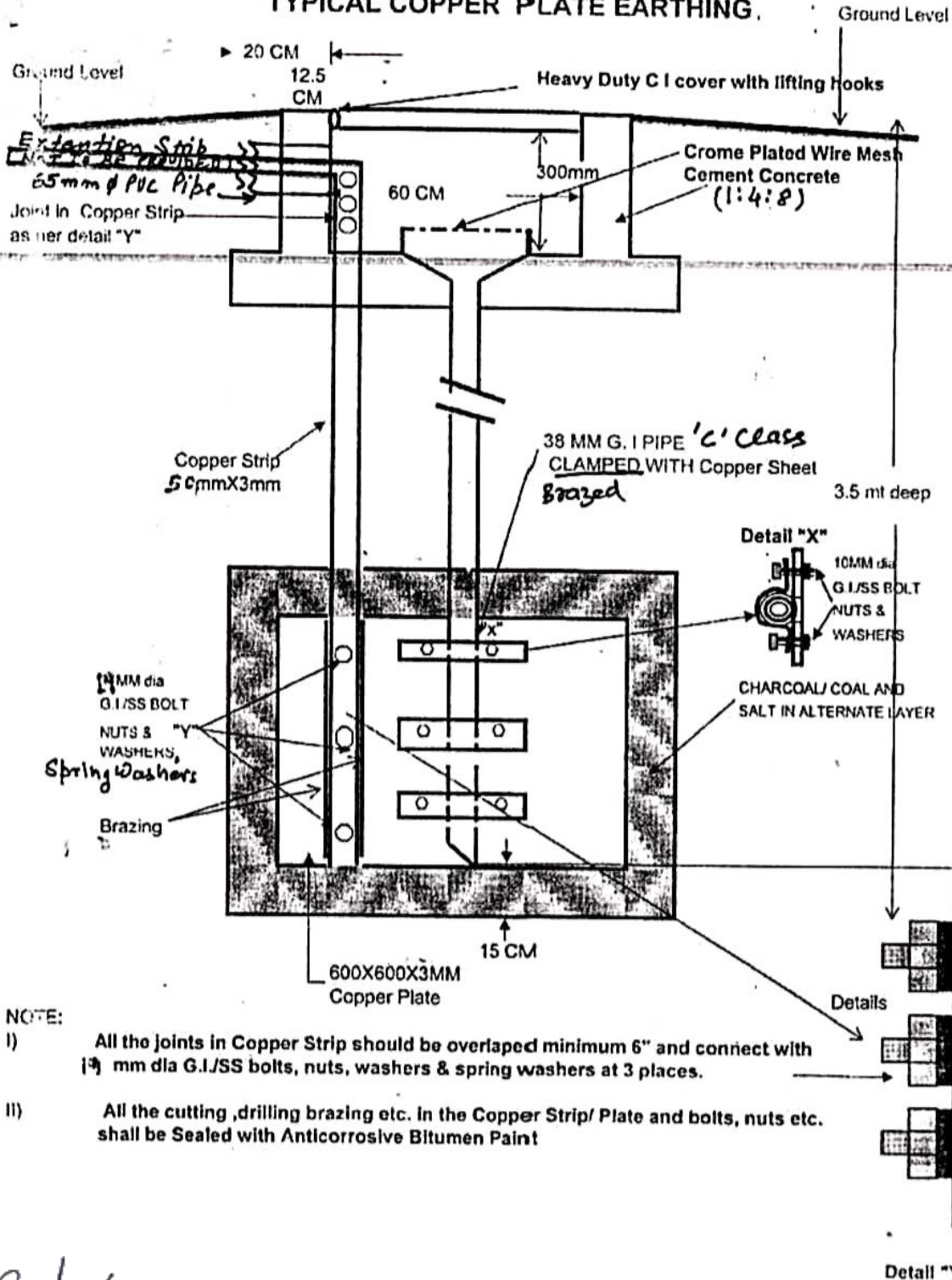
- Before submitting the offer bidder must visit site and with prior permission of the site in charge and submit confirmation of site visit. Technical details will be provided by In-charge of Site/I.O at Akashvani Ramgarh, Jaisalmer (Rajasthan).
  - The firm has to produce a list all such labour along 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 Akashvani Ramgarh, Jaisalmer (Rajasthan).
  - Inspection will be carried out preferably in presence of Authorized representative of ADG (NZ), AIR & DD, 8th floor, Soochna Bhawan, CGO Complex, New Delhi-110003
  - Any damage or misplace in equipment will have to be provided by the firm during execution.
  - Past performance report of similar items earlier supplied/similar works earlier carried out for this Organization will be taken into consideration while evaluating this bid. The bid shall be rejected, if the past performance of the similar item earlier supplied/similar work earlier carried out for the Organization is found to be unsatisfactory.
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:** 20kW (1+1) FM Transmitter at Akashvani Ramgarh, Jaisalmer (Rajasthan).
  3. **Consignee:** Installation officer, Akashvani Ramgarh, Jaisalmer (Rajasthan).
  4. **Completion Period:** Supply of material & completion of scope within 60days from the date of order.
  5. **Validity:** 120days
  6. **Payment terms:**
    - 97% Payment on completion/execution of in good condition at site.
    - Balance payment of 03% 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 Chief Engineer NZ, Akashvani and Doordarshan, 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, Akashvani and Doordarshan, New Delhi.
    - b. The Performance Security Deposit shall be 03% of cost of the order/Contract value.
    - c. For release of security deposit/performance security, the firm will submit his claim along with a certificate from the ultimate consignee that equipment supplied/SITC executed against this order has performed satisfactorily during its warranty/guarantee period and department have not suffered any loss/inconvenience on this account.
  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 Bidder)



# TYPICAL COPPER PLATE EARTHING



Drawing No. 15175/2 (General)