



PRASAR BHARATI
(INDIA'S PUBLIC SERVICE BROADCASTER)
O/o ADDITIONAL DIRECTOR GENERAL (E) (WZ)
ALL INDIA RADIO & DOORDARSHAN
P.B. ROAD, WORLI, MUMBAI-30.



File No:-ADG(E-WZ)/AIR-P/EARTHING_FOR_CONSOLE_ADDITION_CHANNEL_FM_TX/2026-27

Date- 18-9-2026

NOTICE INVITING QUOTATION

Subject — Request for Submission of Budgetary Quotation for SITC of Earthing for Digital Console and additional Channel Tx. Rajkot, Ahmedabad and Singraulli.

Dear Sir/Madam;

1.Replacement of Analog Console of Multi-Purpose studios of below 24 stations,

Bilaspur (CG), Saraipalli (CG), Himmatnagar (GUJ), Betul (MP), Chhindwara (MP), Guna (MP), Khandwa (MP), Mandla (MP), Sagar (MP), Shahdol (MP), Shivpuri (MP), Ahmednagar (MH), Akola (MH), Beed (MH), Chandrapur (MH), Dhule (MH), Kolhapur (MH), Nanded (MH), Nasik (MH), Osmanabad (MH), Satara (MH), Solapur (MH), Yavatmal (MH), daman (GUJ).	2 Nos. each Copper Plate Earthing required
2. Additional channel 10KW FM TR at Akashvani Ahmedabad (GUJ).	6 Nos. each Copper Plate Earthing required
3. Additional channel 10KW FM TR at Akashvani Rajkot (GUJ).	
4. 1 KW FM TR at Akashvani Singraulli (MP).	

Note — Kindly quote the rates separately for each location.

Bidders are requested to submit the Budgetary Quotation for the subject cited above according to the specification attached along with this letter on or before 03/10/2026(2: OOPM) by E-mail to this office at mumbai.airproject@gmail.com, rsbhamre@prasarbharati.gov.in, mpingle@prasarbharati.gov.in or at following address-

To,
O/o Additional Director General (E-WZ)
Akashvani & Doordarshan, 2nd floor,
A.O.A building,
Doordarshan Complex, Worli, Mumbai
- 400030

Ratna Bhamare

Assistant Director (Projects)

For ADG-BO-WZ Akashvani & Doordarshan Mumbai.

Earth pit details as per site

A) Earthing for Consoles

For **24 stations**, with **3 consoles at each station**, the following arrangement shall be provided:

- **25 mm × 3 mm copper strip** from the **earth pit to the junction box (05 meter)**.
- **10 sq. mm earth cable** from the **junction box to the three consoles at each station (05 meter)**.

B) Transmitter Earthing

The following earthing arrangement shall be provided for the transmitters at **Rajkot, Ahmedabad, and Singrauli**:

1. Audio and Electrical Earthing

At each site, the following shall be provided:

- **Audio Earth points and 02 Electrical Earth points: 25 mm × 3 mm copper strip** from the **earth pit to the junction box (05 meter)** and **10 sq. mm earth cable** from the **junction box to the transmitter Audio Earth and Electrical Earth points (05 meter)**.

2. RF Earthing

At each site, the following shall be provided:

- **RF Earth points: 25 mm × 3 mm copper strip** from the **earth pit to the junction box (05 meter)**. and **25 mm × 3 mm copper strip** from the **junction box to the transmitter RF Earth points (05 meter)**.



Specifications for earth pit:

1. Copper plate earthing shall consist of a **600 mm × 600 mm × 3 mm thick pure electrolytic copper plate**, which shall be securely tightened using **brass nuts and bolts with washers and spring washers**. The copper plate shall be brazed to a **25 mm × 3 mm pure electrolytic copper strip**.
2. The copper plate shall be embedded at a **minimum depth of 3500 mm**.
3. A **GI pipe of 37.5 mm diameter and 3000 mm length** shall be vertically installed in the earth pit and shall be used **only for pouring water and not as an earth electrode**.
4. Alternate layers of **charcoal and salt** may be provided around the GI pipe up to the level of the copper plate.
5. **Two bags of Bentonite, 25 kg each**, shall be added to enhance soil conductivity.
6. The GI pipe shall be provided with **12 mm diameter holes in a continuous zig-zag arrangement at regular intervals of 150 mm**, from the bottom of the pipe up to a height of 2400 mm, as shown in the enclosed drawing.
7. The earth pit shall be constructed with suitable **masonry work and a proper watering arrangement**.
8. The earth resistance shall be maintained at **less than 1.0 ohm**.

Copper Strip

- The **25 mm × 3 mm pure electrolytic copper strip** used for earthing shall be supplied and laid with **PVC insulation**.
- The earthing arrangement shall be carried out as per the separate earthing drawing, **Drawing No. REW-259/74**.

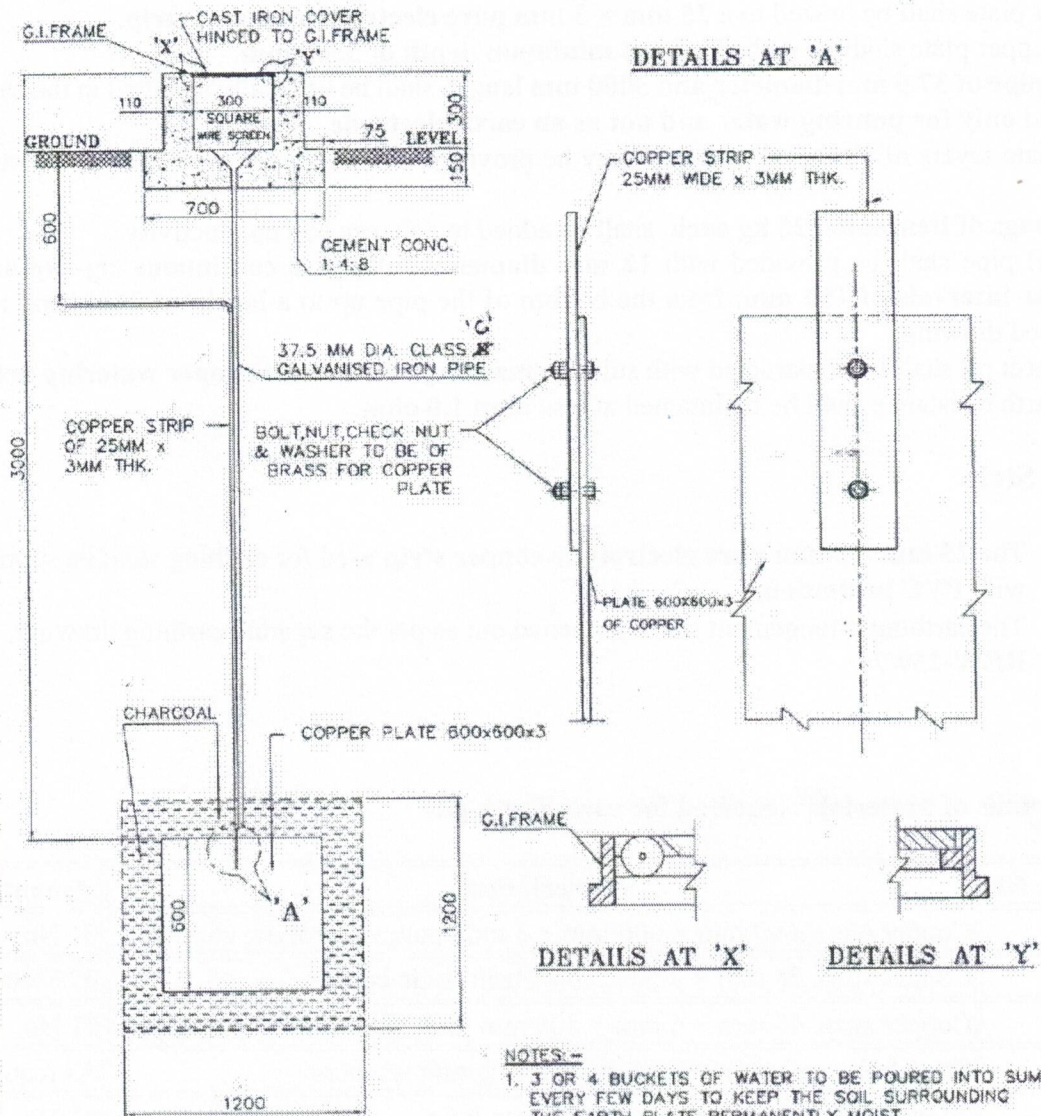
Details of Materials Required for each Earth pit.

Sl. No.	Description	Quantity
a.	Copper plate, 600 mm × 600 mm × 3 mm, pure electrolytic copper	01 No.
b.	Copper strip, 25 mm × 3 mm, pure electrolytic copper	05 Meter
c.	Copper strip, 40 mm × 6 mm × 300 mm long, pure electrolytic copper	01 No.
d.	Brass bolts and nuts with washers and spring washers	As required
e.	GI pipe, 37.5 mm diameter × 3000 mm long	01 No.
f.	CI pit cover, 12" × 12", with MS angle frame and hinge	01 No.
g.	All other materials as required as per the enclosed drawing	As required

The work shall be carried out as per **Drawing No. REW-259/74** (copy enclosed).



DETAILS OF EARTHING ARRANGEMENT (WITH PLATE)



SCALE :- NTS

NOTES:-

1. 3 OR 4 BUCKETS OF WATER TO BE POURED INTO SUMP EVERY FEW DAYS TO KEEP THE SOIL SURROUNDING THE EARTH PLATE PERMANENTLY MOIST.
2. EARTH ELECTRODES TO BE INSTALLED AT NOT LESS THAN 1500 FROM ANY BUILDING.
3. ALL DIMENSIONS ARE THE MINIMUM TO BE ADOPTED.

DRN.	SIGN.	DATE	O/O CHIEF ENGINEER (WZ), AIR & DOORDARSHAN , MUMBAI-20. DETAILS OF EARTHING ARRANGEMENT (WITH PLATE)	DRAWING NO.-
CHD.				REW - 259/74
APPD.				

TV-63.DWG

John