

**Minutes of Virtual Pre-bid Meeting held between M/s Adani Electricity Mumbai Ltd and Bidders on 24/05/2021 for Supply, Installation, Testing & Commissioning of New Earthing System at 33-22/11kV AEML DSS Open Tender**

NIT No: AEML/MDB/2021-22/28

Reference to the pre-bid meeting on **24/05/2021 at 12.00pm** & queries from vendors, following is clarification noted as **MOM** for further reference to the bidders.

1. Offer is for supply of Maintenance free pipe in pipe earthing electrode of length 3 meter only.
2. In technical specification consider the specification of pipe in pipe earthing electrode of length 3 meter
3. Drawing of the pipe in pipe earthing electrode of sizes 3 meter is as per attached.
4. Earthing Inspection chamber shall be of size 450 X 450 X 600 mm with heavy duty precast RCC Chamber cover of 450 X 450 X 100 mm having load bearing capacity up to 8 TONS. Drawing for earthing chamber is as per attached.
5. For offered quantity please refer Price Schedule (Annexure-1)
6. Our requirement for 10yrs stable earth resistance value guarantee with max 25% variation is for earth electrode only.
7. We are required to install 400 nos of earthing pipes in about 20 nos distribution substations (DSS). No of DSS may vary depending upon no of power transformers at the DSS.
8. Procedure for erection of earth electrodes is as per the attachment.
9. Excavation to be done manually up to 3 to 4 feet for ensuring absence of HT cable beneath the proposed pit, thereafter, can be done using machines. No cables shall be damaged during the work.
10. All earthing strips shall be laid after excavation with proper burial by the vendor.
11. Welding of earthing strips to be done at junction places in addition to tightening by GI nut bolts. Junctions with welding spots to be painted with black paint.
12. Vendor to submit grid drawings of the DSS after completion of the work.
13. Billing shall be done for executed quantities.
14. Vendor may choose to offer earthing pipes other than Saara Earthing India Pvt. Ltd. and Jeff Techno Solutions Pvt. Ltd. Provided the same is type tested at accredited lab. Type test of earthing strips shall also be submitted. He can quote for both i.e. with earthing pipes from Saara Earthing India Pvt. Ltd./Jeff Techno Solutions Pvt. Ltd. and with earthing pipes other than Saara Earthing India Pvt. Ltd. and Jeff Techno Solutions Pvt. Ltd.
15. Please refer Earthing Pipe Installation Procedure, Earthing Chamber Drawing and 3meter Pipe in Pipe Earthing Drawing attached below.

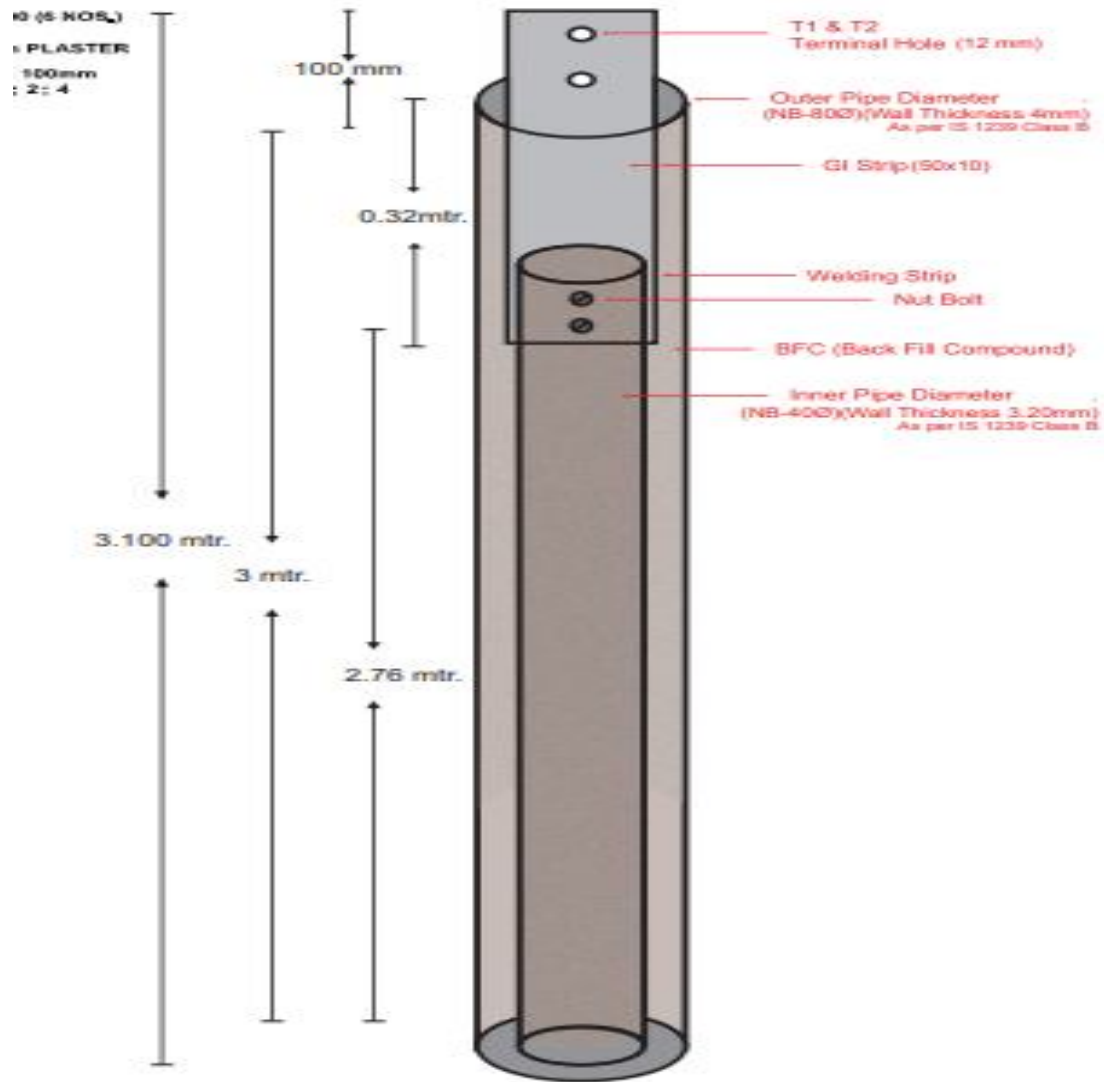
Following is the list of persons who have attended the pre-bid meeting,

<b>Names of the member Present</b>	
<b>Sr No.</b>	<b>AEML</b>
1	Mr. Ganesh E Patil
2	Mr. Sunil Bhujbal
3	Mr. Somit Kumar
4	Mr. Sanjay Salunke
5	Mr. Mubarak Batwale
6	Mr. Ketan Bhagat

<b>Sr No.</b>	<b>Bidders</b>
1	Mr. Lalit Saini
2	Mr. Ajit Shinde
3	Mr. Ashwin Patil
4	Mr. C P Yadav
5	Mr. Jobin George
6	Mr. M Gopinath
7	Mr. Manikanta
8	Mr. Padharia
9	Mr. Priyanka Sagvekar
10	Mr. Rahul Shinde
11	Mr. Rajiv
12	Mr. Rohan Raut
13	Mr. Shivkumar Jainjangade
14	M/s. Sri Rudra Enterprises
15	Mr. Veer
16	M/S. Vikas Infra
17	Mr. Vivek G V
18	Mr. Yallalinga

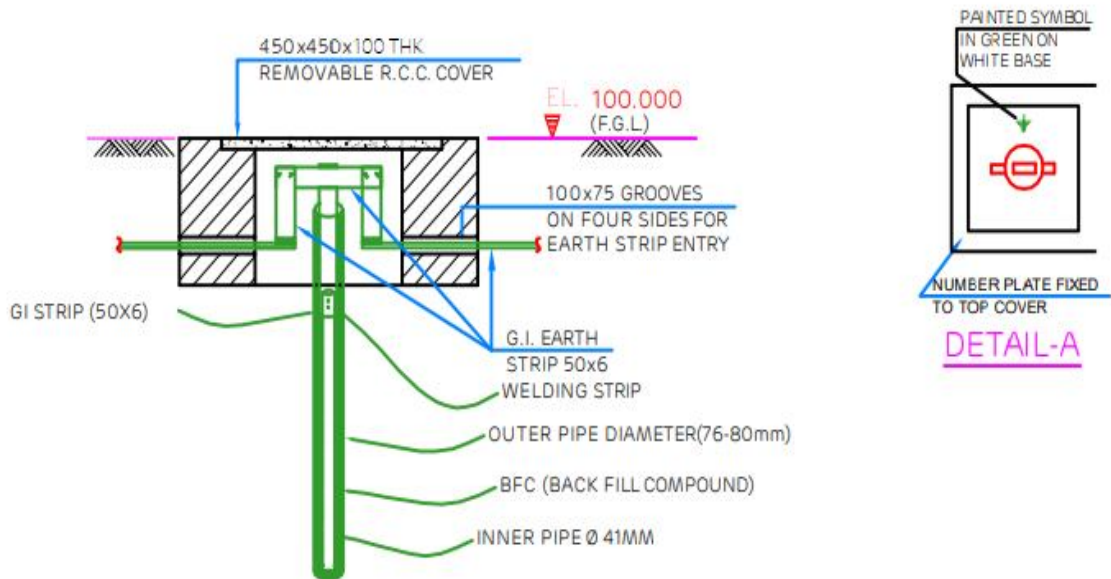
## Installation Method for Earthing Electrode

- First of all According to the size of earthing electrode digging or boring varies. E.g 80 mm for 3 mtr
- Check the land if land is rocky, semi rocky, and soil or Black cotton soil.
- If it is soil or black cotton soil is there manual digging is possible through instrument called "Augar" otherwise boring is to be done through bore well machine
- The dia of the digging or boring is to be 4" to 6" that is width of the hole.
- The length of the digging should be 12 ft minimum.
- When the boring is done kindly put chemical 2 kg in the bore done to give the layer from the bottom side to the electrode.
- Now insert the electrode in the bore see that the bus bar should not be inner side of the land. It should be upside the land.
- Now put the remaining chemical into the bucket with near about 50 ltr of water and pour the same aside the electrode.
- Simultaneously pour in the chemical into the whole trench beside the electrode so there is no air remains in the mixture.
- By trenching the air will come out in form of bubbles.
- After all the chemical has been poured, pour some water in the vacant space after an hour or so. Make that formalities for day or two.
- Afterwards you may join the connection. Put some petroleum jelly or grease on the connection made.
- Now make the chamber and put some black cotton soil on it so no electrode can be seen except bus bar.



## Pipe In Pipe Electrode -3 meter

## EARTHING DETAILS



## ELEVATION

**PIPE ELECTRODE TYPE EARTHING PIT**  
not to scale