



Enquiry  
For Selection of **Vendor for Earthing System**

ITI Limited

ITI Limited, a Public Sector Undertaking under the Department of Telecommunications, Ministry of Communications & IT, is a leading Telecom equipment manufacturer and solution provider in India.

### **ITI seeks experience vendor for Earthing system @ Delhi cantonment**

#### **Scope of work**

1. Installation & Commissioning of maintenance free Earthing system as per Annexure-1 for Multiple Subsystem of Resistibility of telecommunication equipment's installed.
2. The Telecommunication Subsystems are Both AC (Alternating current) & as well as in DC (Direct Current).
3. One no. Prototype (Sample/ model) with clear demonstration of chemicals, Procedures & methodology
4. Work to be completed within 30 days from date of issuing PO.
5. Support / maintenance after the installation with 2 years of warranty (which is extendable as per need) and visit for check should be at least once in bi monthly (once in every two months) basis during warranty period or if any fault comes, immediate rectification within two days.

#### **GENERAL INFORMATION**

Sl. No.	Information	Details
1.	EOI Ref. and Date to mention on Proposal	<b>ITI/EOI/Earthing</b> dated 2 <sup>nd</sup> June 2021
2.	Last date for submission of EOI proposal	17 <sup>th</sup> June 2021 till 13:30 Hrs
3.	Address for bid submission	Kiran Rani DGM(A) C/O HQ 5 Signal Group, Opposite western Air Command Delhi-110010 Phone No.: 011-25699762 <a href="mailto:kiransingh_nsu@itild.co.in">kiransingh_nsu@itild.co.in</a>
4.	Opening of Bid	On 17 <sup>th</sup> June 2021 at 14:30 Hrs
5.	ITI has the right to cancel the Enquiry anytime without prior information to the public.	

#### **Documents to be submitted**

(Please fill details and enclose supporting documents wherever required & applicable.)

Sl.No.	Description	Remarks
1	<b>Commercial Bid</b>	<b>Attached at Annexure-2</b>
2	Contact Details (Name, Designation, contact No. , Email Id, FAX No. , website etc. )	
3	Organization Profile	
4	Certificate of Incorporation / Registration details	
5	PAN and GST Registration certificate	
6	Details of Previous works with respect to Earthing system	
7	EMD of Rs 7,000/- in the name of ITI Limited, NSU Delhi	

## Annexure-1

### **Detail Scope of Work:-**

1. The Chemical Earthing with mixture, using GI Pipe, Electrode, chemicals etc. (Conductors/ electrodes, earthing strips, palates, and bonded faraday cages should be copper only). As required to give result of earthing resistance value below one ohm( $<1\Omega$ ) individually and not deteriorate with time, including provision of required material, earthing chambers, labour work and other part etc. as required. (Each earthing depth should at least 10 ft/ 3 meter as per standards).
2. The total no of proposed earthing to be installed at Site is 13 Nos. and 1 Nos. (Modular/sample), which will be tested by reputed earth measuring with Digital Earth resistance meter equipment i.e. Fluke, Megger at time of AITP.
3. Each earthing should be below  $<1\Omega$  (one ohm) individually. The materials and earthing as per standard of **IS 2309, IS 3043, MIL STD 188/124B, ITU-T & IEEE standards** ITU-T (telecommunications). Copper strips of specified thickness will be used. No joints will be accepted. In exceptional circumstances, joints will be bonded as per specification defined in standards.
4. The Earthing for earthing various subsystem and Equipment's so it must be compliance with **IS 2309, IS 3043, MIL STD 188/124B, ITU-T & IEEE standards** which is best in practices as per our requirement must **below one ohms ( $<1\Omega$ ) and maintenance free duty with initial warranty of 2 years.**
  - (a)The Resistibility of telecommunication equipment installed in to over voltages and over currents.
  - (b)Protection of satellite antenna systems.
  - (c)Protection against lightning – Electric and electronic systems within structures/building
  - (d) Protection of Earthing for Power Equipment's E.g. – DG sets, AVR, Electrical Distribution Panels etc.

## Annexure-2

### PRICE SCHEDULE FOR PROVIDING EARTH SYSTEM

Description of Work	Qty.	Rate in Rupees per earthing with material (words and Figure)
Chemical Earthing (Maintenance free) with mixture. Provision of Chemical Earthing using G.I. Pipe, Electrodes, Chemical etc. as required to give result of earth resistance value less than 1.0 Ohms ( $<1\Omega$ ) and not deteriorates with time, including provision of required material, labour work,	13 Nos(Thirteen) & 1 No. Sample/model	

1. The tenderer shall give Two-year warranty on execution/supply from the date of successful commissioning of the earth.
2. Job should be duly accepted testing (A/T) by A/T authorized Officer
3. The Rates (inclusive of all Govt. Taxes and transportation) and inclusive of any other requirement either it would be Pre/post basis. E.g. soil testing cost for earthing.
4. Chemical salt as specified for chemical earthing as per **IS 2309, IS 3043, MIL STD 188/124B, ITU-T & IEEE standards** & according to requirement.

**Bidder Signature**