



UNIVERSITY OF CALCUTTA

**Dept. of Applied Physics**  
**92 APC Road, Kolkata 700009**

TENDER NOTICE

Enq No.: AP/EE-PT/JNB/ENQ/21-22/1

Dated: 08/11/2021

To  
**The All Interested Parties**

Dear M/s.

Please submit sealed quotation within 24/11/2021 (4 PM) at the Office of the Department of Applied Physics for the following item.

Please enclose the copy of the following papers along with the quotation.

1. Trade License, 2. PAN Card, 3. VAT & Service Tax Registration wherever necessary

**1. Introduction**

Department of Applied Physics, University of Calcutta (CU) invites sealed bids from GST compliant bidders for a turnkey contract based jobs

**2. Background**

Department of Applied Physics, University of Calcutta wants to make a **Earthing system for Partial Discharge laboratory** setup which will facilitate testing and simulation of partial discharge of power system components for laboratory demonstration and research purposes. The requirement envisages supplies to be made as modular components of earthing system as follows.

**3. REQUIREMENT FOR THIS TENDER**

Supply, Installation and Commissioning of Accessories of PD Earthing System

Sl.No.	Particulars of Item
1.	Earth electrode with 50 mm dia GI pipe 3.64 mm thick x 12000 mm long average depth of 12000 mm below the ground level as below (make ISI) – 12000 mm length (approx.).
2.	Supply 150 mm PVC pipe ( make Ori-plast) – 3 mt height (approx.)
3.	To provide masonry enclosure on the top of the earth electrode of overall size 86.36 cm x 86.36 cm x 46 cm deep ( below ground level) complete with cemented brick work (1:6) of 25 cm width duly plastered with cement mortar (inside) CI hinged inspection cover of size 36.56 cm x 35.56 cm with locking arrangement – 1 item.
4.	Supplying and filling with Bentonite GI 50mm and PVC 150mm vertical pipe extra for treatment of soil ~ 500 Kg (approx.).
5.	Soil Excavation along with basbar fitting for partial discharge system. Excavation of soil for installation of Earth Electrode and filling and ramming for 50mm GI pipe of 12000 mm height
6.	Soil Excavation along with basbar fitting for partial discharge system. Excavation of soil for installation of Earth electrode and filling and ramming for 150 mm PVC/HPDE pipe of

	3000 mm height
7	Supplying and fixing earth busbar. Copper stripes electrolytic 40 mm x 6 mm on wall having clearance of 6 mm from wall including providing drilled holes on the busbar complete with GI bolts, nuts, washers, spacing insulators etc. around 40 mt (approx.) length.

**4. GENERAL TERMS OF SUPPLY.**

- a. Experts to be provided by the bidder for installation and commissioning till handover.

For  
Professor Jitendra Nath Bera  
Dept of Applied Physics,  
University of Calcutta

For queries, please contact: [jitendrabera@rediffmail.com](mailto:jitendrabera@rediffmail.com); Mobile: 06290602237