

The Institution of Engineers (India)

AN ISO 9001 : 2015 CERTIFIED ORGANISATION
(ESTABLISHED 1920, INCORPORATED BY ROYAL CHARTER 1935)
8 Gokhale Road, Kolkata-700 020

A Century of Service to the Nation

Tender No. : SP/286

Dated: 16.06.2025

NOTICE INVITING TENDER

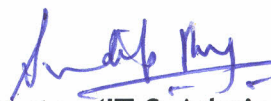
Electrical Earthing & other Electrical Work of the building at
IEI HQ 8, Gokhale Road, Kolkata 700020

The sealed tenders are to be submitted for “Electrical Earthing & other Electrical work of the building at IEI HQ 8, Gokhale Road, Kolkata 700020.” in prescribed format along with details/supporting documents wherever applicable, if attached with the tender should be duly authenticated by the vendor/s. No over-writings shall be accepted unless authenticated with full signature of the vendor/s.

The tender shall be in two parts viz. **Technical Part - (Envelope - ‘A’)** and **financial bids (Envelope ‘B’)** (Envelope ‘A’ and ‘B’ with the content shall be clearly marked on the top of the envelopes separately). **Technical Part (Envelope - ‘A’)** shall comprise of compliance documents against GST Registration certificate and any other document in support of technical capability. The Technical bid should not contain any financial indication, violation of which will invite disqualification. Financial bid shall comprise of quoted price only in the format provided with the tender document in **Envelope - ‘B’**. Both Envelope - A & B shall be put in a third envelope, sealed and submitted within the prescribed date & time and with signature of the tender applicant over it.

The sealed tender duly superscribed with “**Electrical Earthing & other Electrical Work at IEI HQ**” with Tender No. should be addressed to Deputy Director (IT & Administration) sent at the Institution’s address either by registered post/speed post/or by hand. Postal / couriered tender must reach to this office within stipulated date & time i.e., **upto 16.00 hrs of 25 June 2025.**

Tenders received after the stipulated date and time shall not be entertained. The Institution shall not be liable for any postal delays what so ever and tender received after the stipulated time/date are liable to be rejected summarily without giving any reason and any correspondence.


Deputy Director (IT & Administration)

AIMS:

The Institution of Engineers (India), located at 8 Gokhale Road, Kolkata - 700020, had conducted an electrical earthing audit to assess the effectiveness of the existing system and to identify any deficiencies that may require corrective action.

Based on the audit findings, it is necessary to address the observations related to the electrical infrastructure. This includes enhancing electrical fire safety, improving overall system performance, and mitigating potential risks and vulnerabilities associated with the earthing system and other electrical equipment.

Eligibility Criteria of The Bidder:

1. Bidder must be registered company field of Electrical Security Audit and certificate (copy) to be submitted.
2. The vendor has a valid Electrical Supervisory Licence. Supporting documents to be submitted.
3. Copy of company PAN card and GST Registration Certificate to be submitted.
4. The company should have Office/Workshop at Kolkata. This may be inspected by IEI authorities, if needed.

Payment Terms:

- ❖ 70% payment of the total work value shall be paid by IEI after successfully completion of the scope of work as mentioned with completion reports with invoice.
- ❖ The balance 30% payment shall be paid by IEI within 20 days after the receipt of the compliance report from the Auditor who has initially conducted the audit.

General Terms & Conditions:

- ❖ The job has to be done as per satisfaction of IEI authority. Before taking up the job, specific instruction is required to be obtained from the concerned IEI authority. Execution of the work shall not hamper the daily activities of IEI.
- ❖ Payment will be made after successful completion of the work and due certifications. Standard LD clause @2% per week or part there of subject to maximum 10% will be charged for delay in completion of the work.
- ❖ Any loss or damage of IEI property caused by your workmen will be recovered from you.
- ❖ Vendor must compliance with safety regulations and standards while comply working including the workman/staff deputed by the vendor.
- ❖ All disputes shall be subject to Kolkata Jurisdiction only.
- ❖ In case any dispute, decision of the IEI is final.
- ❖ In case any bidder opined that some activity is required/not required to undertake in order to mitigate the observation of Audit Report but not covered/not covered under the BOQ then bidder can add/remove and such alteration should be marked in bold & underlined appropriately.

Seal & Signature of the bidder

Scope of Work

- ❖ Repainting of the Main LT Panel cover
- ❖ Provision of body earthing connection for testing purposes using epoxy insulators, nuts, bolts, washers, and adequately sized holes to allow for future connections
- ❖ Servicing and maintenance of cable terminations at the Main LT Panel
- ❖ Maintenance of the earthing strip in the Fire Fighting Pump Room
- ❖ Installation of surge protection devices for the UPS Distribution Board in the IT Server Room
- ❖ Dismantling and removal of obsolete power boards and execution of other minor related tasks
- ❖ Replacement of existing main switches with Moulded Case Circuit Breakers (MCCBs)
- ❖ Replacement of existing Kit-Kat fuses units with Miniature Circuit Breakers (MCBs)
- ❖ Replacement of busbar system
- ❖ Termination of armoured cables, including proper glanding and Lugs (LUX) crimping
- ❖ Removal and proper dressing of old batten wiring at various locations
- ❖ Installation of lightning arresters
- ❖ Installation of earth pit chambers for chemical earthing systems
- ❖ Execution of other associated and allied works as required
- ❖ Upon completion of the work, the vendor shall submit a completion report. The Auditor from end the IEI will inspect the entire scope of work as per the work order. Any discrepancies or unsatisfactory work identified during the inspection must be rectified by the vendor
- ❖ Bidder has to carry out the job as per the BOQ and can obtain a copy of the Audit Report from IEI by physically visiting IEI Office or can request by e-mail.

Seal & Signature of the bidder

PART - A

Technical BID

Electrical Earthing & other Electrical work of the building at
IEI HQ 8, Gokhale Road, Kolkata 700020

Sl	Description	(Yes/No)
1.	The bidder should have an Office in Kolkata. Self-declaration with Address PAN No. & GSTIN (copy of certificates are to be attached as proof).	
2.	The Bidder should have Ten (05) years' experience in Electrical work (Self Declaration with Company Profile)	
3.	The Bidder should have executed a single work of similar nature of value one Lakh(minimum) in last five years (Attach Work Order Copy)	
4.	The Bidder should not be blacklisted by any government / Autonomous / public / private organization in India (Declaration to be provided as per Annexure-I).	
5.	Documents related to the Electrical Supervisory Licence to be submitted	

Company Name	:	
Signature	:	
Date	:	
Company stamp/ Seal	:	

Seal & Signature of the bidder

PART - B

BOQ CUM FINANCIAL BID

Sl. No.	Description	Qty.	Unit	Rate (Rs.)	GST Rate	Total Amount
Supply, Installation and Laying of the following items:-						
1	Location: Main LT Panel Painting : The Main LT Panel cover needs to be paint after rubbing/spraying with Asian/Berger paint (one coat of primer & one coat Enamel)	1	Nos			
2	Body Earthing: Two separate body earthing connection need to be provided with 50x6 GI Strip. Earth test bar need to be provided for testing purpose with epoxy insulator, and nut bolt washer, adequate holes for future connections all complete.	1	Nos			
3	Supplying and installation of 50x6 GI Strip for earth test bar to panel body earthing including all accessories	8	R.Mtr			
<u>Maintenance of Cable terminals :</u>						
4	63 A 4way terminals of the main LT Panel needs to check of proper tightness and require burnt terminals need to be replaced along with internal wiring with 4C x 16sqmm Cu wire from MCCB to terminal, all complete.	6	Nos			
4.1	100 A 4way terminals of the main LT Panel needs to check of proper tightness and require burnt terminals need to be replaced along with internal wiring with 4C x 35 sqmm Cu wire from MCCB to terminal, all complete.	6	Nos			
4.2	250 A 4 way terminals of the main LT Panel needs to check of proper tightness and require burnt terminals need to be replaced along with internal wiring with 4C x 95qmm Cu wire from MCCB to terminal, all complete.	6	Nos			
<u>Location: Fire Fighting Pump Room</u>						
5	Maintenance of Earthing strip Extra 25x6 Earth test bar need to be provided for connection purpose. Nut-bolt Joint or welding Joints can be considered for connected purpose. All the connection points to be painted by Cold bituminous/black enamel paint for rust protection.	1	Nos			
5.1	Installation of Earthing System: Dedicated 25x6 GI Flat Strip connection need to be done along with earth test bar and other instruments with accessories.	10	R.Mtr			

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Location: IT Server Room						
6	Installation of Earthing System: Dedicated 25x6 Cu Earth test bar connection need to be done along with earth test bar need to be provided for testing purpose with epoxy insulator, and nut bolt washer, adequate holes for future connections all complete.	1	Nos			
6.1	Installation of Surge Protection: DP Surge protectors (SPD) at Incoming line as protection for UPS DB from any incoming surge from the main power line (Havells/Grabtree/Siemens)	1	Nos			
Location: EPABX Room						
7	Dismantling of old disconnected power board and other minor job	1	L.S			
Replacement of Main Switches and Kit-kat Fuse Units(Havells/Grabtree/Siemens/Anchor)						
8	Location: 1st Floor					
8.1	New installation of 100 Amp. Busbar after removal of old Busbar with proper earthing connection	02	Nos			
8.2	New installation of 100 Amp. MCCB with Box after removal of 100 Amp. Main Switch with proper earthing connection	02	Nos			
8.3	Termination of 3.5C x 95sqmm Al Ar cable with glanding and LUX crimping termination	01	Nos			
8.4	Termination of 3.5C x 35sqmm Al Ar cable with glanding and LUX crimping termination	04	Nos			
8.5	Termination of 4C x 50sqmm Cu cable with glan+ding and LUX crimping termination	04	Nos			
8.6	Loop connection from busbar to MCCB of 4C x 50sqmm Cu cable - 1Mtr	02	Nos			
9	Location: 3rd Floor					
9.1	New installation of 100 Amp. Busbar after removal of old Busbar with proper earthing connection	02	Nos			
9.2	New installation of 100 Amp. MCCB with Box after removal of 100 Amp. Main Switch with proper earthing connection	02	Nos			
9.3	Termination of 3.5C x 95sqmm Al Ar cable with glanding and LUX crimping termination	01	Nos			
9.4	Termination of 3.5C x 25sqmm Al Ar cable with glanding and LUX crimping termination	04	Nos			
9.5	Terminaton of 4C x 50sqmm Cu cable with glanding and LUX crimping termination	01	Nos			
9.6	Loop connection from busbar to MCCB of 4C x 50sqmm Cu cable - 1Mtr	02	Nos			
10	Location: 6th Floor					
10.1	New installation of 100 Amp. Busbar after removal of old Busbar	02	Nos			

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10.2	New installation of 100 Amp. MCCB with Box after removal of 100 Amp. Main Switch	01	Nos			
10.3	New installation of 100 Amp. MCCB with Box after removal of 63 Amp. Main Switch	01	Nos			
10.4	Termination of 4C x 50sqmm Cu cable with glanding and LUX crimping termination	04	Nos			
10.5	Termination of 3.5C x 50sqmm Al Ar cable with glanding and LUX crimping termination	03	Nos			
10.6	Termination of 3.5C x 35sqmm Al Ar cable with glanding and LUX crimping termination	01	Nos			
10.7	Termination of 3.5C x 95sqmm Al Ar cable with glanding and LUX crimping termination	02	Nos			
10.8	Loop connection from busbar to MCCB of 4C x 50 sqmm Cu cable - 1.5Mtr	02	Nos			
11	Location: 7th Floor					
11.1	New installation of 100 Amp. Busbar after removal of old Busbar	01	Nos			
11.2	New installation of 100 Amp. MCCB with Box after removal of 100 Amp. Main Switch	01	Nos			
11.3	New installation of 63 Amp. MCCB with Box after removal of 63 Amp. Main Switch	01	Nos			
11.4	Termination of 4C x 16sqmm Al Ar cable with glanding and LUX crimping termination	04	Nos			
11.5	Termination of 3.5C x 95sqmm Al Ar cable with glanding and LUX crimping termination	02	Nos			
12	Location: Old Guest House 1st Floor					
12.1	New installation of 63 Amp. MCCB 6way VTPN double door DB Box with 10-25A SP MCB -18Nos and all connection after removal of 63 Amp. Main Switch	01	Nos			
12.2	Termination of 3.5C x 35sqmm Al Ar cable with glanding and LUX crimping termination	01	Nos			
12.3	Location: Old Guest House 2nd Floor					
12.4	New installation of 40Amp.DP MCB 12 way SPN double door DB Box with 10-25A SP MCB -10Nos and all connection after removal of 63 Amp. Main Switch Kit Kat Fuse unit	01	Nos			
12.5	Termination of 3.5C x 35sqmm Al Ar cable with glanding and LUX crimping termination	01	Nos			
13	Removal/Dressings of old Batten Wiring for Main Building					
13.1	The old Wooden junction box needs to be replaced by new PVC box, the dropping lines to be covered with PVC casing and wires are to be organized in proper way (Staircase, Lift lobby area & busbar room 1st floor to 6th floor)	05	Nos			
13.2	Installation of 2C x 1.5sqmm Cu wire through RPVC/casing for new point wiring	150	R.Mtr			

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14	Installing of Lighting Arresters & Earth Pit Chamber					
14.1	Supply, Installation, Testing and Commissioning of Maintenance free Chemical Earth with 50 mm Dia. TATA or Jindal Medium 110 micron Galvanized Iron Electrode. The Electrode should be placed in the middle after making a bore of 150mm dia up to 3 meters deep complying with the latest version of IS 3043. The Earth Electrode shall be with 3 Meter long Soil enrichment compound (Bentonite) in quantities not less than 50 Kgs shall be used and the Earth Pit shall be back-filled with good quality soil without any Stones /Granules / Sand etc. The Earth Station shall be provided with suitable requisite of 50 X 6 mm GI terminals with Pipe clamp, connection with Gi strip by 12 mm Bolts & Nuts with flat and spring washer etc. as required (The cost of an earth pit chamber will pay extra as mentioned below)	6	Nos			
14.2	Earth Pit Chamber:- Providing masonry enclosure on the top of the earth electrode of overall size 22" X 22" & 12" (D) (below Ground level) complete with cemented brick work incl. making provision for placing inspection cover on the top of chamber as directed by EIC and 20 mm thick inside plastering including Installation and fixing of MS checker plate of size 450 mm X 450 mm X 6 mm with frame.	6	Nos			
14.3	Supply and Installation of 50X6 mm (hotdip Galvanised) GI strip on the wall with suitable size GI saddle with epoxy insulator and accessories as required. The junction of welding point should be painted with cold bituminous paint as applicable.	50	R.Mtr			
14.4	Making of box cutting in soil/ hard concrete up to depth 150mm and breath 150mm and back filing of the same with cement concrete of M15 grade at ground level for Installation of materials	15	R.Mtr			
14.5	Supply and Installation of 50 mm X 6 mm X 450 mm(L) mm test bar having 12 nos 12 mm dia hole on wall with suitable size DMC/Epoxy electrical Insulator including welding and supplying and fixing of other materials like fastener, nut, etc as required. The junction of welding point should be painted with cold bituminous paint as applicable.	2	Nos			
14.6	Supply and Fixing of 1.5 meter long 20 mm Dia Cu Air Terminal with base plate of 100X100 mm directly fixed on parapet wall with 4 nos 10 mm GI/ Brass fastener with nut bolt including connection by welding with earthing strip as required. The junction of welding point should be painted with cold bituminous paint as applicable.	12	Nos			
Seal & Signature of the Bidder:					Amount:	
					GST:	
					Total:	

Seal & Signature of the bidder

DECLARATION ON NOT BEING BARRED/BLACK LISTED

(TO BE GIVEN ON A LETTER HEAD OF THE COMPANY / FIRM)

Ref: _____

To,
Deputy Director (Administration)
The Institution of Engineers (India)
8, Gokhale Road,
Kolkata - 700020

Dear Sir,

We hereby declare that our organization _____ is a
Cert-in empanelled organization and have not been currently blacklisted by any Central
Govt. / State Govt. / Autonomous Bodies / PSUs / Private Corporations.

Thanking you,

Yours sincerely,

Name.....

Designation.....

Date.....

Company stamp/ Seal.....

Seal & Signature of the bidder