



भारतीय प्रौद्योगिकी संस्थान भिलाई

जिला - दुर्ग, छत्तीसगढ़, भारत (४९१००२)

Indian Institute of Technology Bhilai

Dist.-Durg, Chhattisgarh, India (491002)

IITBhilai/ Estate/ Electrical/ 2024-25/ NIQ/ 002

Dated: 22/04/2024


NOTICE INVITING QUOTATION

1	Name of Work	:	Provision of dedicated chemical earthing for various buildings of IIT Bhilai
2	Sub Head	:	Electrical works in FY 2024-25
3	NIQ No.	:	IITBhilai/ Estate/ Electrical/ 2024-25/ NIQ/ 002
4	Estimated Cost [Rs.]	:	4,21,833/-
5	Period of contract / Obligation	:	7 days (including rainy days)
6	Last date of submission	:	26/04/2024 up to 03:00 PM

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Certified that this NIQ contains 1 to 7 pages.


AEE, Estate
IIT Bhilai


Registrar
For & on Behalf of Director, IIT Bhilai.



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NOTICE INVITING QUOTATION

Registrar, Indian Institute of Technology, Bhilai, Durg -491002 invites **Item Rate Quotation** from eligible firms/ Contractors registered with CPWD, MES, BSNL, Railways, State PWD or State Electricity Board for the following work: -

Sr. No.	NIQ No.	Name of work & Location	Estimated Cost put to quotation [INR]	Period of contract / obligation
1	2	3	4	7
1	IITBhilai/ Estate/ Electrical/ 2024-25/ NIQ/002	Name of Work: Provision of dedicated chemical earthing for various buildings of IIT Bhilai Sub Head: Electrical works in FY 2024-25	4,21,833/-	7 days (including rainy days)

The Quotation document can be downloaded from Institute Website https://iitbhilai.ac.in/index.php?pid=ann_tenders. The time and date for issue of quotation is 22/04/2024 from 05:30 PM and last date for Submission of quotation is 26/04/2024 up to 03:00 PM. Eligible contractors/firms have to submit following documents with Quotation:

1. Attested copy of valid GSTIN registration.
2. Self-Attested copy of PAN Card.
3. Attested copy of valid contractor registration for Electrical works.
4. Telegraphic, Postal & Conditional Quotation are liable to be summarily rejected.

Authority of IIT Bhilai reserves the right to reject any or all the quotations without assigning any reason.

The following should be super scribed on the envelope containing “self-attested” Quotation Documents.

- a) Name of work.
- b) Name of Firm/Contractor.
- c) Date of opening.
- d) Estimated cost

Sealed envelope containing quotation along with above mentioned documents submitted to Estate, Office, Room no 212, Health Center, IIT Bhilai, village Kutelabhata, Durg by hand on or before the last date mentioned.

Registrar

For & on Behalf of Director, IIT Bhilai.

Copy to:

1. Director :- For kind information
2. Institute Work Department :- For kind information
3. IIT Bhilai website



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SCHEDULE OF MATERIAL TO BE ISSUED

Schedule showing approx. quantities of material to be supplied by Institute under Clause 10 of the conditions of contract for work contracted to be executed and the rates at which they are to be charged for.

Items Particulars	Rates at which the material will be charged to the contractor.	Place of delivery
	Nil	

Note: -

1. The person of firm submitting the tender should be see that the rates in the above schedule is filled up by the Engineer- In- charge on the form prior to the submission of the quotation.

Signature of the contractor with seal

Brief Scope of Work: As per the electrical loads of different buildings IIT Bhilai has UPS of different kVA. For these UPS, the dedicated copper earthing system has to be provisioned for their installation, testing and commissioning.



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FORM "F"

ORGANISATION DETAILS

S. N.	Particulars	Details
1.	Name of the bidder	
2.	Address of the bidder	
3.	Contact No.	
4.	Email id	
5.	Valid Contractor Registration No.	
6.	GST Registration No.	

Signature of Bidder(s)

Handwritten signature



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TERMS & CONDITIONS

- 1 The work shall be awarded to the lowest bidder who meets the eligibility criteria.
- 2 No T & P would be supplied by the institute and contractor will have to make own arrangements.
- 3 The contractors are advised to get acquainted with the proposed work including specifications & its additional conditions carefully before quoting. No claim of any sort shall be entertained or account of any site conditions ignorance of specification & additional conditions. The work shall be carried out as per the availability of site.
- 4 The work shall be carried out as per CPWD specifications 2019 volume I & II with up – to date correction slips unless otherwise specified in the nomenclature of individual item or in the specification, and its additional conditions where specifications are silent, the decision of Engineer-in-Charge shall be final and binding on contractor in terms of latest Form 7/8 of IIT Bhilai/CPWD.
- 5 The rates quoted by the contractor shall be taken as Gross and nothing extra shall be paid on any account i.e. Royalty, Cartage, GST & Stacking of material required at place etc.
- 6 The rates for different items of work shall apply for Heights & Depths, Leads & Lifts unless otherwise specified in the agreement or specifications applicable in the agreement and rates are to be quoted on a lump sum basis.
- 7 Any damage done by the contractor to any existing item/any part of the building/services during execution of work shall be made good by the contractor at his own cost.
- 8 Articles manufactured by reputable firms and approved by Engineer-in-Charge shall only be used. Only articles classified as “First quality” by the manufacturer shall be used unless otherwise specified.
- 9 The sample of material required in the work brought at site shall be got approved from Engineer-in-Charge before use in execution of work.
- 10 The sample of material required for Testing shall be provided at free of cost by the contractor. Testing charges if any shall be borne by the Contractor. All other expenditures to be incurred for taking samples, conveyance, packing etc. shall be borne by the contractor.
- 11 The Engineer-in-Charge can modify the programme & the contractors have to work accordingly. In case work does not start within 2 days the same is liable to be rescinded as per latest Form 7/8 IIT Bhilai/CPWD and In case of delay liquidated damages to be imposed on Contractors as per latest Form 7/8 of IIT Bhilai/CPWD. The Clause of extension of time is also applicable as per CPWD manual and GCC.
- 12 Some restrictions may be imposed by the security staff of IIT Bhilai etc. on the working and or movement of labour camp/huts shall be allowed in IIT Campus. The Contractor shall make his own arrangement for labour huts outside the campus. However, constructions of cement go down and Chowkidar’s hut in the Campus shall be permitted. The contractor shall be bound to follow all such restrictions/ instructions, and nothing shall be payable on this account.
- 13 The contractor shall be fully responsible for the safe custody of the material issued or brought at site by him for doing work.
- 14 The Malba/Garbage generated at site due to construction activities shall be removed from the site immediately & shall be disposed off by the contractor to the approved dumping site of Municipal Corporation of Bhilai, Durg.
- 15 The contractor shall clean the site thoroughly of scaffolding materials, rubbish, equipments left out of his work & dress the site around the building to the complete satisfaction of the Engineer-in-Charge before the work is treated as completed.
- 16 Proper curing shall be done by the contractor.
- 17 Income tax, Labour Cess and other taxes/deductions as applicable shall be deducted from the bills of contractor.
- 18 Estimate has been prepared based on the CPWD DSR- 2023.
- 19 Total deviation in value of work shall not be more than 1.25 times the work awarded amount.
- 20 Time period for the execution of the work will be as per NIQ starting from the time of issue of the work order.
- 21 Incomplete work will be got done at the risk and cost to the contractor.
- 22 No advance/bonus/escalation will be given to the contractor.
- 23 Bid validity shall be 15 days.



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SCHEDULE OF QUANTITY

Name of Work: Provision of dedicated chemical earthing for various buildings of IIT Bhilai

S.N.	DESCRIPTION OF ITEM	QTY	UoM	RATE	AMOUNT
1.	Supply, installation and testing of maintenance free, ready capsule, pipe-in pipe type earthing system with the technical specification as defined in Annexure A.	10	Nos.		
2.	Supplying and laying 25 mm X 5 mm copper strip at 0.50 meter below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50 mm)	62	Meters		
3.	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required	142	Meters		
4.	Providing core cutting in the wall of diameter 50/70/100 mm etc. as required	10	Nos.		
Grand Total (in INR)					
Grand Total (In Words):					

Signature of Bidder(s)



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ANNEXURE A

- a) Copper Electrode with a copper coating of more than 100 microns and a length of 2000 mm. The electrode shall have a connection terminal as well.
- b) Earth enhancement material (Back fill compound) shall be according to IEC 62561-7, and superior conductive material that improves earthing effectiveness especially in areas of poor conductivity such as rocky ground, sandy soil & areas of moisture variation with different soil strata.

Earth enhancement Back Filling Compound Composition with maximum permissible tolerance of ± 10 % in each content :

- Conductive Cement: 15%
 - Graphite carbon powder: 45%
 - Sodium montmorillonite/Sodium Bentonite Powder: 30 %
 - Hydrous aluminum silicate: 10 %
- c) The Earth Enhancement Material/ Backfill compound shall be Highly Conductive Compound maintenance free. The watering shall be required at the time of its installation.
- d) It must set firmly and should not dissolve or decompose or otherwise pollute the soil or the local water table.
- e) Material shall be non-toxic, non-reactive, non-explosive & non-corrosive. It shall not cause burns, irritation to eye, skin etc. It shall not pollute the soil or local water table & shall meet environmental friendly requirements for landfill.
- f) It should have better hygroscopic properties to absorb moisture. It should absorb & release the moisture in the dry weather condition and help in maintaining the moisture around the earth electrode. Material shall be thermally stable between temperature ranges of -10°C to 60°C .
Material shall not decompose or leach out with time.

Handwritten signature in blue ink.