



**INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH
PUNE**

(An Autonomous Institution, Ministry of Human Resource Development, Govt. of India)

IISER Campus, Dr. Homi Bhaba Road, Pune-411 008.

Ph No 020 2590 8177 Fax 020 2588 7499 / 2589 8022

No: 54(2) /IISER/Pune/2021-22/ 149

Date 10 /0 6 /2021

NOTICE INVITING QUOTATION

Sealed quotations are hereby invited by the undersigned on behalf of the Director, IISER, Pune for the work mentioned below up to **3.00 pm** on **18/06/2021** from registered contractor for the work mentioned below. The quotations will be opened at 3.30 pm on the same day.

Name of work: Power Quality Audit for Biology wing, Main Building, IISER Pune.

Issue To-

Address of the Agency-

Okulkarni

Executive Engineer
IISER, Pune.

Terms & conditions: - Terms and Conditions:

- 1) The applicant should be registered with CPWD in western region, Maharashtra State PWD, MES, Railways in appropriate category for electrical / (B & C) works OR The applicant should have Good work experience in Power Quality Audit of having more than 3000 KVA rating electrical distribution system. The registration certificate should be valid till the last date of receipt of tender. Applicant should submit attested or notarized copies of the valid registration certificate. Applicant should submit attested or notarized copies of experience for work completed within last 3 years from client department with copy of work order along with quotation. Bidders not meeting minimum eligibility criteria shall summarily be rejected.
- 2) Time period for completion of work shall be **30 (Thirty) days** from the date of placing the work order by IISER Pune. The act of backing-out after quotation will debar such agencies for participating in future quotations of IISER PUNE. Bidder may e-mail queries on maintenance@iiserpune.ac.in or submit to IISER PUNE office in hard copy on all working days before a day of submission date of quotation.
- 3) Quotation can be obtained from IISER PUNE Engineering office at Main Building between 10 AM to 4 PM on all working days before date of submission. Applicant may quote by downloading quotation document from IISER PUNE website.
- 4) All agencies need to submit their quotation in hard copy in a sealed envelope to this office by suitable means on and before **3 PM on 18/06/2021**. Quotation received after the date & time specified above shall not be accepted. Any delays, postal delay etc. will not be entertained. Agency should quote for all the items in the BOQ. The bid shall be submitted in the original



Bid document (as issued by the IISER, Pune) super scribing the name of work. Rates quoted in the words shall be treated as final for deciding L1 bidder.


- 5) Quotations will be opened on the **same day at 3.30 PM** in the presence of agency or their authorized representatives, if any. The offer of the agency should be commercially clear including acceptance of all terms and conditions of this Quotation by the agency. IISER Pune reserves the right to accept or reject the quotation/s without assigning any reasons.
- 6) Quotations submitted with any conditions shall be treated as 'Conditional Quotation' and shall be summarily be rejected by IISER PUNE.
- 7) Quoted rates should be inclusive of cost of all the materials, labour cost, GST, all taxes, octroi, duties, cost of sample and fees towards testing of materials in labs, royalties etc. complete. Nothing extra shall be paid separately.
- 8) All approved makes shall be as specified in BOQ and as per annexure attached with this, agency should put-up technical data and obtain prior approval on makes of various materials of IISER PUNE before taking-up work.

The successful agency shall make his own arrangement for all Tools & tackles, cranes, pulleys etc. for work Complete in view of completion of work. Electricity shall be provided free of cost to agency at one source, agency should make own arrangement to safely tap of power from source to work location. No advance payment shall be made by IISER Pune. Quoted rates should be including GST, TDS and other applicable taxes and cess will be deducted from the bills of the work as applicable.

- 9) Scope and condition of work is attached here with for your reference. Compliance sheet should be submitted by the agency with quotation.
- 10) The contractor shall ensure that minimum wages should be paid to the labours and employees in accordance with labour laws.
- 11) L1 Agency to submit reports and invoices to IISER PUNE within 10 days from completion of work
- 12) Any miscellaneous civil/electrical/mechanical work related to execute and complete said items will be scope of agency. Agency can visit site before quoting rates.

Enclosed - Bill of Quantity (BOQ)
Scope and condition of work
Compliance statement

Sign. Of Agency and Stamp


Executive Engineer
IISER, Pune



Scope and Conditions of work:

1. Analysis of pattern of induced voltage in neutral of UPS power source.
2. Location of noise generations in Biology wing in electrical distribution system.
3. Total harmonics and any surge in affected circuits in biology lab.
4. Suggestions for better earthing resistance value. (less than one ohms)
5. Visual inspection of equipment including subassemblies, wiring harness.
6. Inspection of power cables and related major components for its rating etc. and suggestion of it, if required.
7. Checking of voltage, current, harmonics and power factor etc. with help of fluke power analyser.
8. Thermography of all power equipment with data recording facility.
9. Earth testing of all related pits with highly calibrated contact free instrument.
10. Duration of audit should be not less than 10 (Ten) working days of daily 8 (Eight) hours to 24 hours, as required.
11. Minimum Two service engineer should be on site during whole activities. Qualification for both minimum Diploma / BE in Electrical Engineering and should have minimum Five year experience of Power Quality Audit. Required document for qualification, experience, designation etc. should be submitted by the agency with quotation.
12. Accommodation, Meal, Transport and Local transport should be arrange by the agency on their own cost. IISER Pune will not borne any charges or provide any facility to on site team.
13. No additional manpower, labour, tools and plant will be provided by IISER Pune. Labour and tools should be provided by the agency as required on site.
14. Rate and amount quoted by the agency should be mentioned with GST etc. including all charges.
15. Two nos contact details, email ids and address are required to be mention in quotation for further correspondence and communication during execution of work.
16. It is mandatory that agency should submit calibration certificate of all instruments with all details like make, model, Sr. No etc. Calibration certificate should be from NABL qualified calibration laboratory.
17. List of Equipment which is required during **Power Quality Audit** is as below :
 - a. Fluke VR 1710 Power quality recorder.
 - b. Fluke Power analyser 434+i3000sFlex
 - c. Thremograph meter with recorder
 - d. Fluke event recorder
 - e. Non contact earth tester
 - f. Fluke clamp on meter
 - g. Dranetz BMIPower analyser.



All above instrument should have calibration certificate from NABL qualified calibration laboratory.

18. After Power audit of said wing, agency should submit their detailed report with its soft copies within Eight days to IISER Pune.
19. After Power quality audit, agency should submit detail solution for power quality issues like neutral voltage, surges etc which will be helpful for long term.
20. Solution submitted by agency should be feasible for execution. Required specification, details of equipment, distribution, list of vendors, price list should be submitted by the agency to IISER Pune within Eight days after completion of Audit.
21. During execution of work, team members of agency should be aware about importance of UPS power to Labs and it should not be interrupt at any circumstances.
22. Reports for Neutral to Earth voltage with various load patterns at minimum 12 locations of Biology wing should be submitted by the agency for before and after execution of isolation transformer work. Hence agency should have visit twice and submit their report twice for N-E voltage with load pattern. Date and time for before and after N-E voltage recording will be informed to the agency at least seven working days in advance.



COMPLIANCE STATEMENTS

Sr.No.	Scope and conditions of work :	Compliance yes or no	Remarks
1	Analysis of pattern of induced voltage in neutral of UPS power source.		
2	Location of noise generations in Biology wing in electrical distribution system.		
3	Total harmonics and any surge in affected circuits in biology lab.		
4	Suggestions for better earthing resistance value. (less than one ohms)		
5	Visual inspection of equipment including subassemblies, wiring harness.		
6	Inspection of power cables and related major components for its rating etc. and suggestion of it, if required.		
7	Checking of voltage, current, harmonics and power factor etc. with help of fluke power analyser.		
8	Thermography of all power equipment with data recording facility.		
9	Earth testing of all related pits with highly calibrated contact free instrument.		
10	Duration of audit should be not less than 10 (Ten) working days of daily 8 (Eight) hours to 24 hours, as required.		
11	Minimum Two service engineer should be on site during whole activities. Qualification for both minimum Diploma / BE in Electrical Engineering and should have minimum Five year experience of Power Quality Audit. Required document for qualification, experience, designation etc should be submitted by the agency with quotation.		
12	Accommodation, Meal, Transport and Local transport should be arrange by the agency on their own cost. IISER Pune will not borne any charges or provide any facility to on site team.		
13	No additional manpower, labour, tools and plant will be provided by IISER Pune. Labour and tools should be provided by the agency as required on site.		
14	Rate and amount quoted by the agency should be mentioned with GST etc. including all charges.		
15	Two nos contact details, email ids and address are required to be mention in quotation for further correspondence and communication during execution of work.		
16	It is mandatory that agency should submit calibration certificate of all instruments with all details like make, model, sr no etc. Calibration certificate should be from NABL qualified calibration laboratory.		
17	List of Equipment which is required during power quality audit is as below :		
18	a. Fluke VR 1710 Power quality recorder.		
19	b. Fluke Power analyser 434+I3000sFlex		
20	c. Thremogragh meter with recorder		
21	d. Fluke event recorder		
22	e. Non contact earth tester		
23	f. Fluke clamp on meter		
24	g. Dranetz BMI Power analyser.		
25	All above instrument should have calibration certificate from NABL qualified calibration laboratory.		



26	After Power audit of said wing, agency should submit their detailed report with its soft copies within Eight days to IISER Pune.		
27	After Power quality audit, agency should submit detail solution for power quality issues like neutral voltage, surges etc which will be helpful for long term.		
28	Solution submitted by agency should be feasible for execution. Required specification, details of equipment, distribution, list of vendors, price list should be submitted by the agency to IISER Pune within Eight days after completion of Audit.		
29	During execution of work, team members of agency should be aware about importance of UPS power to Labs and it should not be interrupt at any circumstances.		

Ankulkarni
 Executive Engineer
 IISER Pune



Sign and Stamp of agency

BOQ (Bill Of Quantity)

Name of work : Power Quality Audit for Biology wing, main building, IISER Pune.

Note : Quoted rates are inclusive of all taxes, GST, labour, transportation etc. Nothing Extra shall be paid separately.

Sr.No	Description	Qty.	Unit	Rates in words and figure	Amount
1	Power quality audit at Biology wing, Main building, IISER Pune. Before installation of isolation transformers at various places. Work should be carried out as per scope of work attached here with.	1	Job		
2	Power quality audit at Biology wing, Main building, IISER Pune. After installation of isolation transformers at various places. Work should be carried out as per scope of work attached here with.	1	Nos		
	Total				



sign and stamp of Agency

N. Kulkarni

Executive Engineer , IISER Pune

