

**INDIAN INSTITUTE OF SCIENCE EDUCATION
AND RESEARCH (IISER) MOHALI**

**NOTICE INVITING E-TENDER/EOI FOR CONDUCTING ENERGY AUDIT OF IISER
MOHALI CAMPUS**

Tender Ref. No.: IISER/EE-EO/Estimate-P/22-23/01

Date: 07.06.2022

E-TENDER/EXPRESSION OF INTEREST

1. The Executive Engineer on behalf of the Director, IISER Mohali, invites online bids under two bid system i.e. technical bid and financial bid through E- Central Public Procurement Portal i.e. <https://eprocure.gov.in/eprocure/app> from eligible contractor for the work mentioned below.

Name of work:- Conducting Energy Audit of IISER Mohali Campus by an external agency.

Tender Ref No : IISER/EE-EO/Estimate-P/22-23/01

Estimated cost : INR 6,00,000/-

Earnest Money : INR 12,000/-

Tender Fee : INR 590/-

Stipulated period of work : 8 weeks

Critical Date Section

S. No	Particular	Date	Time
1.	Tender publishing date and time	07.06.2022	06:55PM
2.	Tender documents download start date and time	07.06.2022	06:55PM
3.	Bid submission start date and time	07.06.2022	06:55PM
4.	Bid submission end date and time	16.06.2022	03:00PM
5.	Technical bid opening date and time	17.06.2022	03:05PM

1. Tender document may be downloaded from the website of E-Central Public Procurement portal (<https://eprocure.gov.in/eprocure/app>) and www.iisermohali.ac.in . Tender should be submitted online along with valid documents of eligibility criteria within the date mentioned above.
2. The Director, IISER Mohali shall be the “Accepting Authority” hereinafter referred to as such for the purpose of this contract.
3. For any information, other modifications and/or corrigendum may kindly visit IISER Mohali website <http://www.iisermohali.ac.in> and also publish on <https://eprocure.gov.in/eprocure/app>.

SUBMISSION OF TENDER:

Tender shall be submitted by the Bidders in two parts:

(i) Technical Bid. – Cover I (ii) Financial Bid. - Cover II

The two bid system will be followed for this tender. In this system the bidder must submit bid on line at **E-Procurement Portal(i.e. <https://eprocure.gov.in/eprocure/app>)** his offer in two covers. **"Cover No. 1- Technical Bid along with requisite fee details and all forms under seal and signature of Bidder"** mentioned below and **"Cover No.2 - Financial Bid"** respectively.

The **Cover I** (Technical Bid) shall consist of following:

- i) **Earnest Money** -The bidder shall furnish as part of its bid, an EMD of Rs.12,000.00/- (Rupees Twelve thousand only). The EMD is to be submitted through Demand Draft of any Scheduled/ Nationalized Bank (drawn in favour of “Registrar, IISER, Mohali”) or MSME certificate should be relevant to the work for which E-Tender/EOI has been called. Payable at Mohali

Note - The original payment instrument like Demand Draft of any Nationalized Bank against Earnest Money and Cost of Tender Form sent to the address- **IISER Mohall, Sector-81, knowledge City, PO- Manauli, SAS Nagar Mohal1140306, Punjab** by post/speed post/courier/by hand before bid opening date & time.

iii) **Important Documents uploads in .pdf format only:-**

- a) Scanned copy of DD of EMD. MSME certificate has to be relevant to the work.
- b) Scanned copy of IT Return for the last three financial years.
- c) Scanned copy of BEE certified energy auditor certificate.
- d) Scanned copy of Tender Acceptance Letter
- e) Work experience as per condn. 2 of Eligibility Criteria.

The **Cover II** (Financial Bid) shall consist of following:

- * Schedule of price bid of in the form of BoQ_XXXXX.xls (Will be formulated according to the type of work)

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Executive Engineer
Head IWD, IISER Mohali

Scope of work :

The firm has to conduct energy audit of the campus spread over a land of 125 Acres as per the scope mentioned in annexure – A, Details of buildings in annexure B and other details in annexure C. So far, 23 building structures (big & small) as per Annexure -‘B’ have been constructed in campus. Plenty of lawns & plants have been developed in this campus. All details of buildings & institutions will be provided by Institute Works Department (IWD), IISER Mohali as per requirement of the agency.

Eligibility Criteria:

- 1 The firm should be certified energy auditor firm. It is compulsory for the firm to be BEE approved (Bureau of Energy Efficiency) otherwise offer will be rejected.
2. Contractors/firms should have successfully completed (competition certificate alongwith the detailed work order to be provided) , during last 7 years ending last day of the month previous to the one in which the bidding are invited, either three similar works having area not less than 40% (50,075 sqm) or two similar works having area not less than 50% (62,595 sqm) and one similar work having area not less than 80% (1,00,150 sqm)

OR

Either three similar works costing not less than 40% (Rs 2,40,000/-) or two similar works costing not less than 50% (Rs 3,00,000) and one similar work costing not less than 80% (Rs 4,80,000) of the estimated cost/area of the work, of at least one should be in Govt./Semi Govt/ PSU/ Autonomous Body.

Similar work means - “Energy Audit”.

3. Average annual financial turn over during the last 3 (three) years ending 31st March of the previous year should at least be 50% of the quoted rates.
4. Not incurred loss in more than two years during the last five years ending 31st March of the previous year.

Other Terms & Conditions

- a. The Institute reserves the right to reject any or all offers without assigning any reason.
- b. The work/job shall be carried out strictly according to specifications and to the entire satisfaction of the Engineer-in-Charge.
- c. The rates will be excluding all taxes and charges. Taxes will be as per GoI orders from time to time.
- d. Deduction of all taxes and surcharge will be made as per Govt./IISER rules from time to time.
- e. Time limit for Conducting Energy Audit of IISER Mohali campus will be 60 days from the date of issue of work order.
- f. Penalty of 0.5% per week shall be imposed for delay in work.
- g. The Institute may also forfeit the Earnest Money besides taking other action against the firm including its blacklisting. In case of any other breach of contract/agreement. The Institute will be at liberty to levy a compensation upto 10% of the amount of the contract and may also take any other penal action including the black listing. An appeal against these orders shall, however, lie with the Director, IISER Mohali whose decision shall be final

Payment Terms :

- 75% Upon submission of draft report.
- 25% After submission of Final Report alongwith certificate.

Executive Engineer

Scope of Energy audit

(Annexure – A)

The firm will conduct energy audit as per BEE norms covering all the energy consuming equipments/area with emphasis on the following :

- i. Review of electricity bills, contract demand etc. : For the last one year in which possibility will be explored for further reduction of contract demand, improvement of suitable parameters like power factor etc. as per the assessment.
- ii. Electrical system network : which would include detailed study of all the transformers operation of various ratings/capacities, their operational pattern, loading, no load losses, power factor measurements on main distribution networks, scope of improvement if any.
- iii. Electrical motor loading : Study of electrical motors loading of rating 10 Hp and above in terms of percentage loading, current, power etc and thereby suggesting measures of energy saving.
- iv. Illumination : Study of illumination system, Lumens in various areas and suggesting measures for improvement, energy conservation etc.
- v. DG sets : studying operation of various DG sets installed to evaluate average cost of power generation and identify areas where energy saving can be achieved after analyzing the operations.
- vi. If required, The firm should also conduct harmonic analysis and monitor of power system, should submit report with all data.

General Conditions :

- 1.** The requisite tests necessary for a successful energy audit shall be conducted by the firm which is covered in the scope of audit. The firm will assess & analyze / conduct survey of the institution & submit audit report.
- 2.** Energy audit report will be finalized and handed over to IISER Mohali within 3 months from the date of work order. Audit report to be in hard and soft copy both, with all details.
- 3.** Firm may visit IISER Mohali before quoting to get a clear overview.

Details of Buildings with Built up Area

(Annexure - B)

Sr. No.	Particulars	No. of Units	Built-up area (in Sqm)
	Buildings		
1	Lecture Hall Complex	1	5229
2	Academic Blocks	2	31380.56
3	Informatics Centre	1	9032.65
4	Administrative Building	1	4249.81
5	Animal Facility	1	2449
6	CAF	1	1676.74
7	Students Hostels	4	33564.60
8	Shopping Centre and Community Centre	1	3267.20
9	Health Centre	1	2198.37
10	Director Residence	1	388.18
11	Visitors Hostel	1	9068.21
12	Non Faculty Auxiliary Staff (MI Block)	1	3342.05
13	Non Faculty Officers & Faculty Assistant Professors (ME Block)	1	4897.54
14	Senior Faculty & Senior Non Faculty (MJ Block)	1	5227.703
15	Senior Faculty & Senior Non Faculty (MK Block)	1	4512.13
16	Duplex Residences	8	1626.82
17	Stadium	1	307.53
18	Institute Works Department	1	1039.88
19	Gate Complex	1	1731.18
	G. Total		125189.2

Other details

(Annexure - C)

Road	3.20 Km length (Apps)
Baoundary wall	3.50 km (Appx)
Connected load	4001 KVA
AC Load	5000 TR (Appx)
Connected DG load	5500 KVA (Appx)
Installed Transformer capacity	30.2 MVA (Appx)
Installed Pumps Capacity	800 HP (Appx)
Total lifts	48 Nos
Solar water heating capacity	25,000 Lts (Appx)
Installed Solar Plant	140 KWp

Annexure-A

TENDER ACCEPTANCE LETTER
(To be given on Company Letter Head)

Date:

To,

Executive Engineer
IISER Mohali

Sub: Acceptance of Terms and Conditions of Tender.

Tender Reference No.: IISER/EE-EO/Estimate-P/22-23/01

Name of Tender/Work:- :- Conducting Energy Audit of IISER Mohali Campus by an external agency at Informatics Centre at IISER Mohali

Dear Sir

1. I/We have downloaded/obtain the tender documents(s) from the above mentioned Tender/Work from the website(s) namely as per your advertisement, given in the above mentioned website(s).
2. I/We hereby certify that I/We had read the entire terms and conditions of the tender documents (including all documents like annexure(s), schedule(s), etc.) which form part of the contract agreement and I/We shall abide hereby by the terms/conditions/clauses contained therein.
3. The corrigendum(s) issued from time to time by your department/organization too have also been taken into consideration, while submitting the acceptance letter.
4. I/ We hereby unconditionally accept the tender conditions of above mentioned tender document(s) in its totality/entirety.
5. In case any provision of this tender are found violated, then your department/organization shall without prejudice to any other right or remedy be at liberty to reject this tender/bid including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the bidder, with official seal)