



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान भोपाल  
INDIAN INSTITUTE OF SCIENCE EDUCATION & RESEARCH BHOPAL  
Bhopal Bypass Road, Bhauri, Bhopal-462066

No.: IWD/SE/EOI/2016/ 034

Dated : 30.12.2016

**EXPRESSION OF INTEREST**

The SUPERINTENDING ENGINEER, IWD, IISER Bhopal on behalf of the Board of Governors invites Expression of Interest (EOI)" from interested parties meeting criteria as mentioned in the detailed document for setting up 500KWp ROOF TOP SOLAR POWER PLANT AT IISER CAMPUS. The detail document regarding Expression of Interest (EOI) can be downloaded from [www.tenderwizard.com/IISERB](http://www.tenderwizard.com/IISERB) & [www.iiserb.ac.in](http://www.iiserb.ac.in)

Last date for submission of EOI : 10/01/2017 upto 1:00 PM.  
Opening of Documents : 10/01/2017 at 3:00 PM.



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Bhopal Bypass Road, Bhauri, Bhopal-462066

सं.: सं.नि.वि/अअ/ई.ओ.आई/2016/034

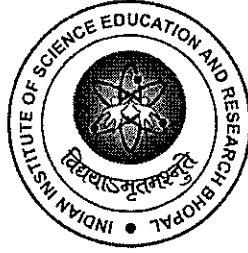
दि.: 30.12.2016

**रुचि की अभिव्यक्ति**

अधीक्षण अभियंता, सं.नि.वि., भा.वि.शि. एवं अनु. संस्थान भोपाल द्वारा बोर्ड ऑफ गवर्नर्स की ओर से 500 किलो वाट पीक क्षमता के सौर ऊर्जा संयंत्र भवनों की छतों पर स्थापित करने के कार्य के लिए मानदंड पूरा करने वाली इच्छुक एजेंसियों से ई-रुचि की अभिव्यक्ति आमंत्रित की जाती है।

प्रपत्र एवं आवेदन की अन्य जानकारी के लिए वेबसाइट [www.tenderwizard.com/IISERB](http://www.tenderwizard.com/IISERB) & [www.iiserb.ac.in](http://www.iiserb.ac.in) देखें।

रुचि की अभिव्यक्ति प्रपत्र जमा करने की अंतिम तिथि : 10/01/2017 upto 1:00 PM.  
प्रपत्र की खुलने की तिथि : 10/01/2017 at 3:00 PM.



**INDIAN INSTITUTE OF SCIENCE EDUCATION & RESEARCH BHOPAL**  
(An Autonomous Body under the Ministry of HRD, Govt. of India)

**NOTICE INVITING EXPRESSION OF INTEREST**

**FOR**

**DESIGN, ENGINEERING, SUPPLY, INSTALLATION,  
TESTING, COMMISSIONING AND MAINTENANCE  
OF 500KWp or above ROOF TOP SOLAR POWER PLANT  
(BOOT build-own-operate-transfer method)**

**AT**

**IISER CAMPUS, BHAURI, BHOPAL**

**Start Date for Downloading EOI document**

**: 10/01/2017 at 03:00 PM**

**Last date for submission of EOI with  
Necessary Documents**

**: 10/01/2017 at 3:00 PM**

## SECTION – I

### INTRODUCTION

INDIAN INSTITUTES OF SCIENCE EDUCATION & RESEARCH (IISER), Autonomous Bodies under the Ministry of HRD, Govt. of India, were created in 2006 through a proclamation of Ministry of Human Resource Development, Government of India, to promote quality education and research in basic sciences. IISER Bhopal is a degree granting autonomous institution with a prime focus to integrate science education and research, with a motive of attracting bright students and world class faculty.

Indian Institute of Science Education and Research Bhopal provide a platform for the faculty to engage in high quality pedagogy, at both undergraduate and postgraduate levels and to perform cutting edge research in frontier areas of basic sciences. The Institute is also committed to impart high moral and ethical values to students and create a genuine concern for social and environmental issues.

Presently the Electrical load of IISER Bhopal is approximately 2.0 MW and in future may go upto 7.5 MW after expansion. The grid power is taken from Shanti Nagar substation which is nearly 12 km away through 33 KV independent Feeder.

Entire power supply system of institute is having DG back up. Institute wishes to use renewable energy for power and is willing to set up 500KWp of Roof Top Solar Power Plant in the campus. **The project shall be executed on basis of BOOT (build–own–operate–transfer) method for a period of 25 years with a warranty of 25 years for the entire installations.**

## GENERAL / MISCELLANEOUS CLAUSES

1) The application form for Expression of Interest (EOI) is given in Annexure- I. Interested firms can submit the duly filled in application form along with all relevant supporting documents. The party should submit their background with details of experience in related projects.

2) The last date for receipt of EOI is mentioned in Section III.

3) The Applicant shall bear all cost associated with the preparation and submission of its EOI and Institute will not be responsible or liable for reimbursement in any case, for any cost to conclude the process.

4) At any time before the submission of EOI, The authority may for any reason what so ever carry out amendments to this EOI documents at its own initiative or in response to a clarification requested by the service providers. The amendment will be made available in our website and will be binding on them. The authority may at its discretion extend the dead line for the submission of proposals.

5) Applicants will come up with the best suggestions on application of latest technologies in the related fields and will offer solutions in integrating such technologies for reliable, efficient and economic operation of the solar grid connected power plant. Choice of latest technological trends with suitable analysis & justifications for application in the proposed project shall be furnished by each applicant.

6) All necessary works in firming up of requirements pertaining to the system components like Solar PV Panels, Inverters, Charge Controllers, Control Panels, Field Junction Boxes, and Mounting Structures etc. will be done by party as per Institute requirement.

**7) SELECTION PROCEDURE: The authority will process EOI and only shortlisted candidates will be called for technical presentation and again technically shortlisted candidates would be called for offering of financial bids.**

8) The authority reserves the right to accept or reject any application without assigning any reason thereof.

11) The application those are incomplete in any respect or those that are not consistent with the requirements as specified in this document or those that do not adhere to formats, wherever specified may be considered non responsive and may be liable for rejection and no further correspondence will be entertained from such applicants.

12) Depending upon the response to the EOI, IISER Bhopal reserves the right to go in for empanelment/short listing of the prospective applicants for seeking detailed bids.

14) The applicant must be a reputed firm incorporated in India.

## BROAD SCOPE OF ASSIGNMENT IN FINAL PACKAGE

- (a) The broad scope of work for the subject package includes the following:
- i. There are numbers of buildings constructed in the campus as shown in the attached master layout plan. Area available on roofs of these buildings for the installation of roof top solar plant is approximately 12,000 Sq. metre.
  - ii. Proposed roof top Solar Power Plants are to be installed on the building terrace. Providing necessary supporting structure shall be in the scope of work.
  - iii. Design & Engineering of the solar modules & arrays with associated system comprising of DC system ,cables & JB's, inverters, transformation to the required voltage for necessary connection to the nearest grid at suitable voltage level, switchgears along with adequate protection and monitoring facilities upto the grid connection point. Augmentation of the bus, in case required to be carried out at the grid connection point shall also be a part of the project.
  - iv. Optimum design and engineering of suitable mounting structure as required for mounting the modules on the area with anti-corrosion feature so as to have minimum maintenance requirements during operational years of the plant.
  - v. Survey & route finalization of the transmission line for connection to the nearby substation feeder.
  - vi. Supply of all the components including structures with necessary packaging & forwarding, transportation, loading, unloading and site-storage required for Successful implementation of the project upto the grid-connection point.
  - vii. Erection/installation, of the solar PV plant along with associated system including transmission line and its termination at the suitable grid point.
  - viii. All associated civil engineering works like:
    - 1) Excavation, Site grading, filling, leveling, compaction as required, for cumulative capacity of 500KWp Solar PV plants.
    - 2) Construction of foundation & mounting structures for SPV panels, fencing of SPV plant and construction of roads, if required and beautification of the sides.
    - 3) Construction of office cum control room.
    - 4) Arrangement for alternate permanent water supply for module washing.

- ix. Integrated microprocessor based SCADA with required software & hardware for control & monitoring of SPV plant as per best standards.
- x. Complete work shall be executed as per CPWD specifications, relevant IS codes and as per standard practice.
- xi. All associated electrical works required for interfacing at 33 KV/433 line (i.e transformer, breakers, isolators, LA, HT/LT switchgears, protection systems, cables, metering, earthing etc,) as per proposed scheme duly approved.
- xii. Design, supply, erection, commissioning & testing of 33 KV/433 line cabling & associated equipment for connecting into 33/433 KV switchyard as per technical specification.
- xiii. Obtaining necessary approvals from the local bodies for grid connectivity.
- xiv. The project will be executed on basis of BOOT (build-own-operate- transfer) method for a period of 25 years with a warranty of 25 years for the entire installations with guaranteed efficiency.
- xv. The design should be such that Solar PV plant should tolerate maximum vibration as per the geographical condition in proposal.

## SECTION – II

### 2.1 PRE QUALIFICATION REQUIREMENT FOR APPLICANTS IN THE EOI

The applicant shall meet the qualifying requirement as under and general criteria. The applicant / its collaborator, as applicable, should have adequate technical expertise in the area of structural design as per applicable codes and standards in solar/ power/ steel/ oil industries.

a) The applicant/ its collaborator should have designed, supplied, erected/supervised erection and commissioned/supervised commissioning of SPV-based grid connected power plants of cumulative installed capacity of 500KWp or above.

OR

b) The applicant/its collaborator should be an EPC Contractor with capability of executing turnkey solution for engineering, procurement, supply, installation, testing and Commissioning of large scale grid connected solar PV-based power plants and having executed at least one project rated minimum 500KWp as on the date of opening of the EOI.

#### GENERAL CRITERIA

The applicant should not have been black listed/debarred /disqualified by any Govt. entity or any International Agency for non-delivery or non-compliance or Corrupt / fraudulent practices. The applicant should give self-declaration in this regard.

**CRITERIA FOR EVALUATION OF THE PERFORMANCE OF CONTRACTORS FOR PRE-ELIGIBILITY**

Selection Criteria:	Activity				Marks for Activity	
Technical Criteria:	i) Bidder must have successfully completed project for 500KWp solar photovoltaic system	(i) 60% marks for 500KWp (ii) 100% marks for 1MWp or more In between (i) & (ii) – on pro – rata basis			20	
	ii) Bidder must have consolidated Project of 500KWp Plant in hand	(i) 60% marks for 500KWp (ii) 100% marks for 2MWp or more In between (i) & (ii) – on pro – rata basis			20	
	iii) Bidder should have own Manufacturing plant of Solar Module				10	
	iv) Bidder must have experience with minimum 500KWp Solar project under state policy				10	
	v) Solar PV Module having high Efficiency - 19% & more.				10	
Financial Criteria:	i) Turn Over of company: Bidder must have average annual turnover of Rs.3 Crore for the last 5 financial years.	(i) 60% marks for 3 Crore (ii) 100% marks for 6 Crore or more In between (i) & (ii) – on pro – rata basis			10	
Performance on works (time over run)						
Parameter- Calculation for Points		Score				
If TOR =		1	2	3	>3.50	20
Without levy of compensation		20	15	10	10	
With levy of compensation		20	5	0	-5	
Levy of compensation not decided		20	10	0	0	
TOR = AT/ST, where AT = Actual Time; ST = Stipulated Time.						
<b>Note:</b> Marks for value in between the stages indicated above is to be determined by straight line variation basis.						
Bidder who achieved 60% or more marks in aggregate shall be qualified for participating in tender.						



## SECTION – III

### EOI SCHEDULE

#### 3.1 Expression of Interest Details

1 Name of Assignment

Design, Engineering, Supply, Installation, Testing & Commissioning of Solar Power Plant of cumulative capacity of 500KWp including operation and maintenance for 25 Years on BOOT basis at IISER Campus, Bhopal.

2 Method of Selection

Pre- Qualification Criteria

#### 3.2 Important Dates

Sl. No	Particulars	Date & Time
1	Last Date for uploading EOI on <a href="http://www.tenderwizard.com//iserb">www.tenderwizard.com//iserb</a>	10/01/2017 Up to 1300 Hrs
2	Opening of Prequalification Bids	10/01/2017 1500 Hrs

#### INSTRUCTIONS TO APPLICANTS FOR FORMULATION AND SUBMISSION OF PROPOSALS

- 1) The instruction mentioned should be read carefully by applicant before submitting the offer.
- 2) Only those applicants who meet the pre qualification criteria are eligible to Participate in the EOI process.
- 3) Authority may ask for clarification or further information to evaluate the expression of interest.
- 4) If any information sought in these documents is missing or not clearly specified by the vendor, it will be assumed that the organization is not in a position to supply the information and may be considered as unresponsive.
- 5) Please note that all the pages of EOI documents should be signed with date and the seal of the applicant should be kept near the signature of the authorized signatories of all the pages.
- 6) EOI shall contain:
  - i) The complete technical specification of Solar Power Plant of cumulative capacity of 500KWp which includes:

- Design details & layout arrangement of solar Modules and other Components.
- Module mounting structure
- Synchronizing equipment & scheme
- Control & protection scheme
- Scheme & layout of power distribution network
- Integration of PV power with grid
- Reactive power supplying capability of Inverter
- Behavior during system disturbance
- Evacuation scheme & range of load power factor
- Metering scheme
- Communication interface & SCADA / updated technology

ii) BOQ without prices.

ii) The applicant shall indicate the estimated solar energy generation per annum by the Solar Power Plant proposed by them.

iii) The applicant shall also indicate the requirement of Auxiliary power to run the Plant.

EOI shall also contain details on the competency of the applicant and also the EOI package with terms & condition of implementation of the proposed plant.

In short, the EOI shall contain all the necessary documents to prove the technical competency and capability of the applicant for implementing the solar plant and the ability of the applicant for providing efficient service and support to the satisfaction of Authority.

7) The applicants are also advised to keep on visiting the websites [www.tenderwizard.com/IISERB](http://www.tenderwizard.com/IISERB) Institute website [www.iiserb.ac.in](http://www.iiserb.ac.in), for any Notification / Amendment / Addendum / Corrigendum in respect of this EOI. No such Notification / Amendment / Addendum / Corrigendum shall be published in newspapers.

8) Downloading of documents can be done from the Institute website or [www.tenderwizard.com/IISERB](http://www.tenderwizard.com/IISERB).

9) IISER shall not be responsible in any way for any delay/ difficulties/ inaccessibility of the downloading facility from the website for any reason whatsoever.

10) IISER reserves the right to reject any or all the offers.

11) In case of any discrepancies found between the downloaded EOI documents from the website and the master copy available in the website [www.tenderwizard.com/IISERB](http://www.tenderwizard.com/IISERB) & [www.iiserb.ac.in](http://www.iiserb.ac.in), the latter shall prevail.

12) Applicants will be solely responsible for the correctness/genuineness of the downloaded EOI documents from the website. If the offer submitted through the downloaded EOI documents is incomplete, or with changed contents, the offer will summarily be rejected.

13) For any future correspondence applicants may send their e-mail to seiwd@iiserb.ac.in

14) No EOI document shall be entertained after the due date and time, under any circumstances.

15) The covering letter to be submitted by the applicant along with EOI should be as per format given in this document.

16) The decision regarding short listing /selection of solution on service provider shall lie with the authority and shall be final.

17). The General terms and Conditions, etc will be intimated to the short listed applicants as a part of EOI document.

18). Bidders are instructed to visit the site before submission of EOI and plan for executing the project including the specifications of the equipments to be used in the project.

19). Further clarification could be obtained from the office of the SE, IWD "Indian Institute of Science Education & Research Bhopal (IISER), Bhopal By-Pass Road, Bhauri, Bhopal-462066, INDIA".

**FORM 'A'**

**FINANCIAL INFORMATION**

- I. **Financial Analysis** – Details to be furnished Duly supported by figures in Balance Sheet / Profit and Loss Account for 5 (five ) years duly certified by the Chartered Accountant, as submitted by the applicant to the Income-Tax Department (Copies to be attached ).

Financial Years

Sl. No	Details	(1)	(2)	(3)	(4)	(5)
		2015-16	2014-15	2013-14	2012-13	2011-12
i)	Gross annual turnover in works.					
ii)	Profit / Loss					

- II. Financial arrangements for carrying out the proposed works.  
*Note: Attach additional sheets, if necessary*

Signature of Chartered Accountant with Seal

Signature (s) Of Bidder(s)

**FORM 'B'**

1.	Name and address of Bidder	
2.	Proposed minimum rate of electricity/unit at evacuation point (including all charges and applicable taxes, cess and duties)	
3.	Total area required for the installation of 500KWp solar power plant.	
4.	Efficiency of proposed the solar panel (Please enclose specifications)	
5.	Total duration required for the installation of the solar power plant.	
6.	Total annual unit generation of 500KWp solar power plant.	
7.	Depreciation in the annual unit generation of 500KWp solar power plant.	
8.	Annual expenditure for the O&M of the plant	
9.	Man power requirement for the O&M of the plant	

**FORM 'C'**

**Details of all works of similar nature completed during the last seven years**

**(Ending up to previous day of last date of submission of online tender).**

Sl. No.	Name of work / Project and location	Owner or Sponsoring organisation	Cost of work ( in crores )	Upto date Cost of the work enhanced @ 7% per annum	Date of commencement as per contract	Stipulated date of completion	Actual date of completion	Litigation Arbitration pending / in progress / in details *	Name and Address Telephone number of officer to whom reference may be made.	Remarks
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.

\* Indicate gross amount claimed and amount awarded by the arbitrator.

Signature of Bidder

**FORM 'D'**

Performance Report Of Works Referred In Form 'C' – M/s .....

(Furnish this information for each individual work from the employer for whom the work was executed)

1. Name of work / Project & Location.
2. Agreement No.
3. Estimated Cost
4. Tendered Cost
5. Actual cost of work done
6. Date of start
7. Date of completion
  - a) Stipulated date of completion
  - b) Actual date of completion
8. (a) Whether case of levy of compensation for delay has been decided or not Yes/No  
(b) If decided, amount of compensation levied for delayed completion, if any
9. Performance report
  - I. Quality of work Outstanding/ Very good /Good/ Poor
  - II. Finance Soundness Outstanding/ Very good /Good/ Poor
  - III. Technical Proficiency Outstanding/ Very good /Good/ Poor
  - IV. Resourcefulness Outstanding/ Very good /Good/ Poor
  - V. General behavior Outstanding/ Very good /Good/ Poor

Date :

Signature and seal of issuing authority

**Structure & Organisation**

1.	Name and address of Bidder	
2.	Telephone No. / Fax No. / email address	
3.	Legal status of the bidder (Attach copies of original document defining the legal status). The applicant is : a) An individual b) A proprietary Firm c) A Firm in partnership d) A limited company or corporation.	
4.	Particulars of registration with various Govt. bodies (Attach attested photocopies)  a) Registration Number b) Organisation / Place of registration. c) Date of validity	
5.	Name and title of Directors and officers with designation to be concerned with this work.	
6.	Designation of individuals authorized to act for the organization.	
7.	Has the bidder or any constituent partner in case of partnership firm Limited Company/Joint Venture, ever been convicted by the court of law? If so, give details.	
8.	In which field of Civil Engineering construction the bidder has specialisation and interest?	
9.	Any other information considered necessary but not included necessary but not included above.	

(Signature of Bidder(s))



## APPLICATION FORM

- 1) Name of the Applicant
- 2) Full address (Registered Office)
- 3) Name of the contact person(mobile number with email ID)
- 4) Type of the organization.  
(Public Sector/Limited/Private Limited Partnership/Proprietary /Society/Others.)
- 5) Chief of the organization
- 6) Registration details (Enclosed certificates).
- 7) PAN No (Enclosed certificates),
- 8) Service Tax, EPF & VAT Registration (Enclosed certificates),
- 9) Activities of the Company
- 10) Documents as mentioned in the pre-qualification requirement
- 11) List of clients
- 12) Turn over of the last 3 financial years
- 13) Total No. of employees
- 14) No. of Offices/Centers.
- 15) List of similar projects handled during the last 5 years (Name of the clients, contact person, address in Telephone No. , Title of the Project, Cost of the Project, Duration of the Project, Technology used, brief statement how their requirements are similar to those in this proposal, date of implementation/completion.)
- 16) Project implementation/completion certificates from the Customers as being requested in this proposal .
- 17) Copy of Certifications (ISO or equivalent) if any.
- 18) Any other information the applicant wants to furnish - Pl mention the nature of information here and the corresponding Annex. No.

DECLARATION

- I/we here declare that the above information is true to best of knowledge of my knowledge.

Date.

Place Signature with name & Seal

**CHECK LIST FOR SUBMISSION OF EXPRESSION OF INTEREST**

Applicants should ensure that the following are submitted with documentary evidences, while submitting completed application forms. :-

- 1) Letter of submission of EOI (Annexure-III)
- 2) Details as per application format (Annexure I)
- 3) Copy of registration certificate.
- 4) Copy of the PAN Card.
- 5) Audited Account of last 5 years.
- 6) Copy of Service Tax Registration.
- 7) Copy of VAT Registration.
- 8) Copy of EPF Registration.
- 9) Documents as mentioned in the pre-qualification requirement.
- 10) ISO Certificate if applicable.
- 11) List of activities of the Applicant firm and of collaborator firm, if applicable.
- 12) List of clients for supply (applicable for manufacturer firm).
- 13) List of clients for solar projects in India.
- 14) List of projects handled during last 5 years.
- 15) Detailed technical write-up of two projects of nearest capacity to the one under consideration (500KWp) as executed by the applicant/ collaborator, as the case may be, mentioning the technical details of each component used including PV modules.

LETTER FOR SUBMISSION OF EOI

To,

**The Superintending Engineer,  
Indian Institute of Science Education & Research (IISER),  
Bhopal By-Pass Road, Bhauri, Bhopal-462066, INDIA.**

**Sub: EOI for Design, Engineering, supply, installation, testing & commissioning of 500KWp Solar Power plant.**

Dear Sir,

We express our interest to participate in the bidding process for 500KWp solar power project and we hereby confirm the following:

- 1) The EOI application is being submitted by (Name of the bidding Company) for selection as the turnkey solution provider in accordance with the requirements stipulated in EOI document.
- 2) We have examined in detail and have understood and will abide by all the terms and conditions stipulated in the EOI documents issued by IISER. Our application is consistent with all the requirements stated in the EOI documents.
- 3) The information submitted in our application is complete, is strictly as per the requirements as stipulated in the EOI document, and is correct to the best of our knowledge and understanding. We shall be solely responsible for any errors or omission or misrepresentation in our bid.

Place

Date

Signature with name & Seal