

EOI No.: IITH/CMD/ELE/EOI/2024-25/01



భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్  
भारतीय प्रौद्योगिकी संस्थान हैदराबाद  
Indian Institute of Technology Hyderabad

**Notice Inviting  
Expression of Interest  
(EOI)**

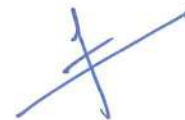
**Name of Project: Setting up of 3.5MW In-house Captive Solar PV Plant at IIT Hyderabad campus which includes Planning, Design, Supply, Installation, Testing & Commissioning with 05 years Post commissioning Operation & Maintenance of Plant.**



*[Handwritten Signature]*  
1-7-2024  
**Executive Engineer - Electrical  
IIT Hyderabad**

## Table of Contents

| Section.<br>No. | Description   | Page No. |
|-----------------|---|----------|
|                 | Notice Inviting Expression of Interest                          | 1        |
| 1.0             | Objective of this EOI   | 2        |
| 1.1             | Project Details   | 3        |
| 1.2             | Project Critical Timelines (Dates)                              | 4        |
| 1.3             | Instructions to the bidders for online bid submission           | 5        |
| 1.4             | Eligibility Criteria and Evaluation Methodology                 | 8        |
| 1.5             | Eligibility Criteria  | 10       |
| 1.6             | Response Requirements   | 15       |
| 1.7             | Appendixes  | 16       |
| 1.8             | Checklist of bid documents to be submitted                      | 22       |
| 1.9             | EOI Evaluation Criteria   | 24       |
| 1.10            | Disqualification  | 25       |
| 1.11            | Financial Information   | 25       |
| 1.12            | Experience in Similar Works                                     | 25       |
| 1.13            | Organization Information  | 25       |
| 1.14            | Construction Plant and Machinery                                | 26       |
| 1.15            | Criteria for Evaluation of the Performance of bidders (Form- K) | 27       |
| 1.16            | Annexures   | 29       |
| 1.17            | Forms   | 35       |



# INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

## Notice Inviting Expression of Interest (EOI)

EOI No. IITH/CMD/ELE/EOI/2024-25/01

Indian Institute of Technology (IIT) Hyderabad, an Autonomous Institute under Department of Higher Education, Government of India invites on behalf of President of India, an online Expression of Interest (EOI) bid from the well-established, experienced and innovative companies for the Setting up of 3.5MW in-house Captive Solar PV Plant at IIT Hyderabad campus which includes Planning, Design, Supply, Installation, Testing & Commissioning with 05years Post commissioning Operation & Maintenance of Plant.

Copy of valid Registration of Firm (ROF) certificate, PAN card, GST Registration certificate & GSTIN should accompany the Bid and those certificates should be valid on the last date of submission of bid.

|      |   |  |  |
|------|---|--|--|
| 1.1  | EOI No.:  | IITH/CMD/ELE/EOI/2024-25/01  |  |
| 1.2  | Name of Work:   | Setting up of 3.5MW in-house Captive Solar PV Plant at IIT Hyderabad campus which includes Planning, Design, Supply, Installation, Testing & Commissioning with 05years Post commissioning Operation & Maintenance of Plant. |  |
| 1.3  | Location of work:   | Indian Institute of Technology (IIT) Hyderabad campus, Kandi-502284, Sangareddy, Telangana, India.   |  |
| 1.4  | Earnest Money Deposit (EMD)   | Rs. 3,50,000/- only  |  |
| 1.5  | Date of Online Publication/Download of EOI document                             | 01/07/2024 @ 16:00hrs  |  |
| 1.6  | Last Date & Time for receiving of Pre-Bid Queries and to email ID               | Date & Time  | 08/07/2024 @ 16:00hrs  |
|      |   | E-mail ID  | <a href="mailto:ee.electrical@iith.ac.in">ee.electrical@iith.ac.in</a> |
| 1.7  | Date and Time of Pre-bid meeting at Conference Hall, CMD, IIT Hyderabad         | 09/07/2024 @ 11:00hrs  |  |
| 1.8  | Last Date for Submission of EOI bids  | 24/07/2024 @ 15:00hrs  |  |
| 1.9  | Date and time for Opening of EOI bids   | 25/07/2024 @ 15:30hrs  |  |
| 1.10 | Date and Time for Technical Presentation at Conference Hall, CMD, IIT Hyderabad | 30/07/2024 @ 11:00hrs  |  |
| 1.11 | Website Link:   | <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a>  |  |

The EOI document can be downloaded at the website mentioned above.

## **1.0 OBJECTIVE OF THIS EOI:**

IIT Hyderabad is in the process of selecting well-established, experienced and innovative companies for **Setting up of 3.5MW in-house Captive Solar PV Plant at IIT Hyderabad campus which includes Planning, Design, Supply, Installation, Testing & Commissioning with 05years Post commissioning Operation & Maintenance of Plant**, through a competitive bidding process to attain the highest feasible levels of Clean Energy with maximizing Energy savings for the Institute.

The objective of this document is to solicit Proposal from the interested parties, who satisfy the eligibility criteria set out in this document and who can offer, Plan, Design, Supply, Install, Commission, Operate and Maintain the Solar Plant for a period of 05 years.

Based on the evaluation of EOI bids received, interested parties found acceptable by IIT Hyderabad based on the Technical and Financial selection criteria set out, will be short-listed to participate in the subsequent bidding process. Accordingly, the revised set of Terms and Conditions/Terms of Reference (ToR) will be issued to the short-listed bidders only to submit their Final Technical bid and Price bid to IITH.

It is expected that only the System Integrators /Original Equipment Manufacturers (OEMs)/ EPC contractors/Specialized agencies having proven experience in Planning, Design, build, operation and maintenance of Solar PV installation projects and must have executed Solar PV power Plant projects will respond to this Expression of Interest (EOI) notice.

## **SCOPE OF THE REQUIREMENT:**

The Scope of the work includes, but not limited to the following:

- a) Site survey, technical feasibility, regulatory & policy assessment.
- b) Securing all necessary permits and approvals, from all local authorities (Central & State Govt.), DISCOM, and IITH authorities as applicable.
- c) Any modifications as may be necessary to the existing 0.95 MW Solar PV plant and also the existing Electrical Power distribution system within IITH campus, to integrate the proposed 3.5 MW Captive Solar PV Plant.
- d) The whole installation should be in conformity with Central Electrical Authority Regulations and those of State Government and the TRANSCO and DISCOMs as applicable.
- e) **The Solar PV system shall be Designed, supplied, install and commission strictly as per applicable Govt. of India Guidelines.**
- f) Providing all necessary labour, material ,services, tools , plant and equipment for the works ;
- g) Offer a range of viable project delivery options and extensive proposal, including by but not limited to:
  - i. Planning, design, construct, Operate and maintain the power plant to the best of its performance during the Liability Period.
  - ii. Any other (details to be provided).



## 1.1 PROJECT DETAILS:

The Project site is the IIT Hyderabad campus. The Indian Institute of Technology Hyderabad (IITH) is a premier institute of science and technology established in 2008. IITH has been consistently ranked in the top 10 institutes in India for Engineering according to NIRF making it one of the most coveted schools for science and technology in the country. The IIT Hyderabad campus is spread across 600 acres of campus in the Kandi Village of Sangareddy District, Telangana, India.

Currently, the IIT Hyderabad campus is being fed from the 33kV supply given by the Southern Power Distribution Company of Telangana Ltd. (TSSPDCL). This supply is received at the Main Receiving Station (MRS) located in IITH campus and further step down to 11kV thru 33/11kV Step-Down Power Transformers. The 11kV supply is further distributed among 14 different substations located across the IITH campus for feeding different set of buildings. In each downstream 11kV substations, the voltage levels are further step-down to 11/0.433kV by Step Down Transformers and further LT supply is given to different buildings. The aforesaid MRS substation also consists of 03Nos. x 2MVA, 11KV DG sets which are used for Captive DG backup in case of Mains Power supply failure from the TSSPDCL.

The IIT Hyderabad campus is currently having a 0.95MW capacity Net Metering system Solar PV Plant inside it's campus in a fully functional state. In addition to this, the IIT Hyderabad intends to **Setting up of 3.5MW in-house Captive Solar PV Plant at IIT Hyderabad campus which includes Planning, Design, Supply, Installation, Testing & Commissioning with 05years Post commissioning Operation & Maintenance of Plant**, through this proposal to attain the highest feasible levels of Clean Energy with maximizing Energy savings for the Institute. With the commissioning of 3.5MW New Captive Solar Plant, the existing 0.95MW Net Metering Grid connected Plant will also be converted into Captive Generation.

Through the current proposal IIT Hyderabad indents to:

- Install the PV modules to cover the existing parking places situated in different locations across campus as per the generation feasibility.
- Install the PV modules all across the Cycle Track of IITH campus in an elevated mode as per the generation feasibility.
- Install the PV modules across any other Plazas in IITH campus as per the generation feasibility.
- To set up a ground based and elevated solar power plant for the balance generation capacity to sum up the total approved capacity of 3.5 MW.

The bidder has to do a basic feasibility study for fulfil the above stated requirements of IITH and submit the detailed feasibility report along with the EOI bid to IITH for further evaluation as per the criteria set out in the EOI document.

The Existing Parking Plaza Plans, Master Plan and Existing main electrical single line diagram (SLD) of the IIT Hyderabad campus is attached herewith for the reference of the intending bidders as Annexure-VI, Annexure-VII and Annexure-VIII respectively.

The month-wise Annual Electricity consumption details of IITH campus is also attached herewith as Annexure-V for ready reference of the intending bidders.

Note:(i) In case of non-feasibility of Solar PV installations among above indicated Plaza or areas etc. or due to getting lesser Energy Efficiency in these areas, the bidder may propose the alternative locations to IITH as per the feasibility report, indicating the Energy generation details along with EoI bid. However, the total proposed Captive generation capacity shall not be less than 3.5MW.

(ii) The IIT Hyderabad reserves the right to reduce the proposed Captive Solar PV Plant capacity from 3.5 MW to 2.5 MW at it's discretion based on the actual site conditions.

## **1.2 PROJECT CRITICAL TIMELINES (DATES)**

The indicative Project timelines cum critical dates are given as below:

| <b>S. No.</b> | <b>Stages</b>   | <b>Critical Dates</b>                                  |
|---------------|---|--|
| 1             | Publishing of Notice inviting EoI                                 | 01 <sup>st</sup> July 2024                             |
| 2             | Pre-bid Meeting   | 09 <sup>th</sup> July 2024                             |
| 3             | Receipt of EoI bids   | 24 <sup>th</sup> July 2024                             |
| 4             | Evaluation of EoI bids  | 31 <sup>st</sup> July 2024                             |
| 5             | Issue of ToR to short-listed bidders                              | 01 <sup>st</sup> August 2024                           |
| 6             | Receipt of Final Technical and Price bids in 2nd Stage of bidding | 21 <sup>st</sup> August 2024                           |
| 7             | Evaluation of 2nd Stage bids & Award of work to successful bidder | 31 <sup>st</sup> August 2024                           |
| 8             | Project Completion & Commissioning Date                           | 31 <sup>st</sup> December 2025                         |
| 9             | Post Commissioning O & M (05 years)                               | 01 <sup>st</sup> Jan 2026 to 31 <sup>st</sup> Dec 2030 |
| 10            | Defect Liability Period   | To be decided  |

*Note: The above critical time-lines are for the reference purpose only to the intending bidders and are subject to any modifications at the discretion of IITH during the next stage of the selection process.*