



**BHARAT HEAVY ELECTRICALS LIMITED  
SOLAR BUSINESS DIVISION**

**EOI Ref: EOIPVMOD2025-  
01**

**BHEL SBD Herewith Publishes**

**Expression of Interest**

**(EOI)**

**and**

**Invites Prospective vendors to partner with BHEL**

**for**

**Entering into TC-MOU (Techno-commercial Memorandum of Understanding) and  
Pre- bid tie up for PV MODULE SUPPLY TO 50 MW GROUND MOUNTED SPV PROJECT  
AT OVERSEAS LOCATION**

**Ref:EOIPVMOD2025-01 dtd 24-07-2025**

**Due Date of Receiving duly filled EOI: 04.08.2025 14:00 Hrs**

**About BHEL**

BHEL is India's largest engineering and manufacturing enterprise, operating in the energy, industry and infrastructure sector. Company was established in the year 1964 and since then it has been "Making in India" offering comprehensive products, systems, and services in various areas including power generation (thermal, hydro, gas, nuclear, and solar PV), transmission, transportation, defence, aerospace, oil and gas, and emerging sectors like battery energy storage systems and electric vehicle chargers. BHEL has been instrumental in developing the country's power generation capacity, contributing to core industrial and strategic sectors since the time of its humble beginning. The company's commitment toward its customer is evident through wide range of product portfolio, development and absorption of new technologies, consistent investment of more than 2.5% of its revenue on R&D and innovation, establishment of world-class manufacturing facilities and offering sustainable business solutions. Apart from serving customers, BHEL has been supporting communities through programs like skill development, promoting health, hygiene, education, cleanliness and environmental protection, thus contributing to the society as a whole.

**The purpose of publishing this EOI is to provide opportunities to probable vendors who can partner with BHEL for supplying PV Module to 50MW ground mounted SPV project at overseas location.**

**Note: BHEL reserves its right to independently verify the documents submitted and visit the vendor works for assessment. Necessary arrangements shall be made by the prospective vendors**



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All corrigenda, addenda, amendments, time extensions, clarifications etc. to the Tender will be hosted on <https://bhel.com> only. Bidders should regularly visit this website to keep themselves updated.

**Queries:**

Bidders to note that any queries related with EOI are to be submitted online only at Email ID provided in Table A with CC to **k.manoj@bhel.in**. Queries/clarifications received in any other form are liable to be unanswered. A reply from the concerned will be given on the same Email ID.

**Table A**

Description	Email Id
For Technical Queries	muhammedshakir@bhel.in
For General & Commercial Queries	k.manoj@bhel.in
For submission of offers against EOI	<a href="mailto:technicalbid-epd@bhel.in">technicalbid-epd@bhel.in</a>

**Submission of EOI**

Offers against EOI to be submitted on Email address to **[technicalbid-epd@bhel.in](mailto:technicalbid-epd@bhel.in)** with subject as Ref: **EOIPVMOD2025-01 dtd 24-07-2025 "PV MODULE SUPPLY TO 50 MW GROUND MOUNTED SPV PROJECT AT OVERSEAS LOCATION"** (Mail size should not be more than 20 MB. In case the size is larger, offer can be submitted partwise in multiple mails).

Following documents to be attached while submitting EOI:

1. Annexure I (Duly filled, signed, stamped on official letterhead)
2. Annexure II- Non-Disclosure Agreement (Duly filled, signed, stamped on official letterhead)
3. Documents in support of Pre-Qualification Requirements- Technical
4. Technical offer, comprising of technical specification/Product Catalogues/Datasheets/Drawings/ QAP/ Test report etc
5. Any other documents

**Note: Bidders may adopt this mode at their own risk. BHEL does not own any responsibility /liability for delays in receipt / loss of secrecy of such offers.**

**No physical offers for EOI will be accepted.**

**Plant Location details:**

**BHARAT HEAVY ELECTRICALS LTD  
SOLAR BUSINESS DIVISION  
Prof. CNR Rao Circle,  
Opp. Indian Institute of Science,  
Malleswaram Bangalore – 560012 India**



**BHARAT HEAVY ELECTRICALS LIMITED  
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**EOI Ref: EOIPVMOD2025-  
01**

**ANNEXURE – I**

**FORMAT FOR SUBMISSION OF EOI**

**(to be printed on the official letterhead of the APPLICANT)**

To,

Mr. Vinay Kumar  
AGM-Materials Management  
BHEL SBD Bengaluru-560012

Dear Sir,

Subject: Submission of Expression of Interest Ref: EOIPVMOD2025-01 Dated 24.07.2024 "PV MODULE SUPPLY TO 50 MW GROUND MOUNTED SPV PROJECT AT OVERSEAS LOCATION"

With reference to your EOI inviting notice Ref: EOIPVMOD2025-01 Dated 24.07.2025 and after examining the detailed documents and other details mentioned in the EOI document, I/We hereby offer to submit my /our Expression of Interest.

1. All the annexures and documents necessary in this connection are enclosed hereto. All the documents/ photocopies of the documents have been self-attested by me/us and BHEL is free to reject our offer if any of the documents/photocopies of the documents is/are found to be false or forged.
2. I/we, hereby also declare(s) that I/we have read all terms and conditions in the EOI and all terms and conditions mentioned in the EOI are acceptable. I herewith submit duly signed and accepted Non Disclosure Agreement as per Annexure II.
3. I/we, hereby also declare(s) that my/our organisation/firm is not debarred/ blacklisted by any Central/State Govt. department, agency, PSUs/ Institution/ Agencies/ Autonomous organization.
4. The information sought from me as per the EOI notice is enclosed to this letter.

Yours Faithfully,

(Signature & Stamp of Authorised Signatory)

Name

Designation:

Date:

Place:



**ANNEXURE II**

**NON-DISCLOSURE AGREEMENT**

I, \_\_\_\_\_, on behalf of the \_\_\_\_\_ (Name of Company),

acknowledge that the information received or generated, directly or indirectly, while working with BHEL on contract is confidential and that the nature of the business of the BHEL is such that the following conditions are reasonable, and therefore:

I warrant and agree as follows:

I, or any other personnel employed or engaged by our company, agree not to disclose, directly or indirectly, any information related to the BHEL Without restricting the generality of the foregoing, it is agreed that we will not disclose such information consisting but not necessarily limited to:

- Technical information: Methods, drawings, processes, formulae, compositions, systems, techniques, inventions, computer programs/data/configuration and research projects.
- Business information: Customer lists, project schedules, pricing data, estimates, financial or marketing data,

On conclusion of contract, I, or any other personnel employed or engaged by our company shall return to BHEL all documents and property of BHEL including: drawings, blueprints, reports, manuals, computer programs/data/configuration, and all other materials and all copies thereof relating in any way to BHEL, EPD's business, or in any way obtained by me during the course of contract. I further agree that I, or any others employed or engaged by our company shall not retain copies, notes or abstracts of the foregoing.

This obligation of confidence shall continue after the conclusion of the contract also.

I acknowledge that the aforesaid restrictions are necessary and fundamental to the business of the BHEL and are reasonable given the nature of the business carried on by the BHEL. I agree that this agreement shall be governed by and construed in accordance with the laws of country.

I enter into this agreement totally voluntarily, with full knowledge of its meaning, and without duress.

Place: - \_\_\_\_\_ Date: - \_\_\_\_\_

Name

Company

Signature



**EXPRESSION OF INTEREST (EOI) FOR  
SHORTLISTING OF PV MODULE VENDOR FOR  
50 MW GROUND MOUNTED SPV PROJECT IN  
SRI LANKA**

PS-439-1443

Rev No: 00

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*The information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in anyway detrimental to the interest to the company.*

**EXPRESSION OF INTEREST (EOI)  
FOR  
SHORTLISTING OF PV MODULE  
VENDOR  
FOR  
50 MW GROUND MOUNTED SPV  
PROJECT IN SRI LANKA**

Revision details: 00	Prepared by: MS	Checked by: VJ	Approved by: PM	Date:23.07.2025
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**1.0 DISCLAIMER**

- 1.1** The information contained in this Expression of Interest (EOI) document provided to the Prospective bidder (s), by or on behalf of Bharat Heavy Electricals Limited (BHEL) or any of its employees or advisors, is provided to the Prospective bidders on the terms and conditions set out in this EOI document and all other terms and conditions subject to which such information is provided.
- 1.2** BHEL may, in its absolute discretion, but without being under any obligation to do so, modify, amend or supplement the information in this EOI document.
- 1.3** The issue of this EOI does not imply that BHEL is bound to select and shortlist any or all the Prospective bidder(s). Even after selection of suitable Prospective Bidder BHEL is not bound to proceed ahead with the Prospective Bidder and in no case be responsible or liable for any commercial and consequential liabilities in any manner whatsoever.
- 1.4** The Prospective bidder shall bear all costs associated with the preparation, technical discussion/presentation and submission of response against this EOI. BHEL shall in no case be responsible or liable for these costs regardless of the conduct or outcome of the EOI process.
- 1.5** Canvassing in any form by the Prospective bidder or by any other agency on their behalf shall lead to disqualification of their EOI.
- 1.6** Notwithstanding anything contained in this EOI, BHEL reserves the right to accept or reject any application and to annul the EOI process and reject all applications, at any time without any liability or any obligation for such acceptance, rejection or annulment and without assigning any reasons, thereof. In the event that BHEL rejects or annuls all the applications, it may at its discretion, invite all eligible Prospective bidder(s) to submit fresh applications.
- 1.7** BHEL reserves the right to disqualify any applicant during or after completion of EOI process, if it is found there was a material misrepresentation by any such applicant or the applicant fails to provide within the specified time, supplemental information sought by BHEL.



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- 1.8** BHEL reserves the right to verify all statements, information and documents submitted by the applicant in response to the EOI. Any such verification or lack of such verification by BHEL shall not relieve the applicant of his obligations or liabilities hereunder nor will it affects any rights of BHEL.

## **2.0 BACKGROUND**

### **2.1 ABOUT BHEL:**

Bharat Heavy Electricals Limited (BHEL) is a Maharatna Central Public Sector Enterprise under the Ministry of Heavy Industries, Government of India. As an integrated power plant equipment manufacturer, BHEL stands among the largest engineering and manufacturing companies of its kind in India, with a turnover of approximately USD 2.70 billion. The company is publicly listed on Indian stock exchanges.

With over five decades of engineering excellence, BHEL is engaged in the design, engineering, manufacturing, construction, testing, commissioning, and servicing of a wide range of products and systems catering to critical sectors of the Indian economy. These include Power, Transmission, Industry, Transportation, Renewable Energy, Water Management, Oil & Gas, Defence, E-Mobility, and Battery Energy Storage Systems. BHEL offers more than 180 product variants tailored to the needs of these core sectors.

BHEL's power equipment accounts for nearly 58% of India's installed thermal generating capacity, with over 193 GW of installations. BHEL has 16 manufacturing units, 4 power sector regions, 8 service centres and 15 regional offices besides host of project sites spread all over India and abroad. BHEL has its footprint in all the inhabited continents with references in 88 countries including Malaysia, Oman, Iraq, Syria Sudan, Libya, Cyprus, Malta, Afghanistan, Bangladesh, Bhutan, New Zealand, Mauritius etc. The cumulative overseas installed capacity of BHEL manufactured power plants nearing 10,000 MW. To position leading state-owned companies as Global Industrial giant and as a recognition for their exemplary performance, Government of India categorized BHEL as "Maharatna Company" in 2013. More details about the entire range of BHEL's products and operations can be viewed by visiting our web site [www.bhel.com](http://www.bhel.com)



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## **2.2 Solar Business Division (SBD)**

The Solar Business Division (SBD) of BHEL is located in Bengaluru, Karnataka, and operates as the company's primary hub for solar photovoltaic (PV) activities. Functioning as an independent business unit, SBD is fully equipped to respond to the dynamic solar market and drive long-term growth and sustainability in the renewable energy sector.

BHEL-SBD is among the few organizations in India capable of providing end-to-end, in-house solutions for solar power projects. Its capabilities span the entire value chain — from conceptualization, system design, and engineering to manufacturing, erection, testing, commissioning, and operation & maintenance (O&M).

With over three decades of experience in the solar domain, BHEL has successfully built a solar project portfolio exceeding 1.2 GW, including:

- Ground-mounted solar PV plants
- Rooftop solar installations
- Canal-top solar systems
- Floating solar power plants

BHEL is recognized as one of the leading EPC players in the Indian solar market. Notably, it has commissioned India's largest floating solar power plant — a 100 MW capacity project for NTPC at Ramagundam, Telangana — showcasing its capability in executing complex, large-scale solar infrastructure projects.

## **3.0 DETAILS OF EXPRESSION OF INTEREST (EOI)**

### **3.1 INTRODUCTION:**

Trincomalee Power Company Limited (TPCL), a joint venture between the Ceylon Electricity Board (CEB), Sri Lanka and NTPC Limited, India, is planning to develop a 50 MW Ground-Mounted Solar Photovoltaic (SPV) Power Project at Sampur, Trincomalee District, Sri Lanka. The EPC tender for the project is anticipated to be floated by August 2025.

In this regard, Bharat Heavy Electricals Limited (BHEL), a prospective EPC bidder, invites Expression of Interest (EoI) from reputed and technically competent Original





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Equipment Manufacturers (OEMs) of PV modules, who meet the technical and financial requirements specified in this EoI and are willing to enter into a pre-bid tie-up with BHEL. The selected OEM(s) will support BHEL's proposal by supplying PV modules for the project upon award.

### **3.2 BRIEF SCOPE OF WORK**

#### **3.2.1 BHEL SCOPE:**

Upon award of the contract, BHEL will be responsible for the following:

##### **1. Import and Logistics in Sri Lanka:**

- Customs clearance, and unloading in Sri Lanka
- Transportation from the designated Sri Lankan port to storage yards, assembly locations, and the project site

##### **2. Installation and Commissioning:**

- Installation, mechanical mounting, and electrical interconnection of the PV modules
- System integration and commissioning of the entire solar PV plant

#### **3.2.2 EOI BIDDER SCOPE:**

The scope of the selected OEM(s) under this EoI shall include:

##### **1. Supply of PV Modules:**

- For international bidders: Supply of Solar PV modules on CIF basis to a designated seaport in Sri Lanka.
- For Sri Lanka-based domestic bidders: Delivery of modules up to the designated storage area at the project site.
- Supply shall include packing, forwarding, insurance, international freight, and associated documentation.



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**3.2.3 TECHNICAL REQUIREMENTS – SPV Modules**

- a. Technology : Crystalline/ Thin Film technology,
- b. Power rating : 580 Wp or above
- c. Quantity : 72.5 MWp
- d. Warranty : 25 years for performance, 10 years for product
- e. Efficiency :  $\geq 20\%$
- f. Temperature Coefficient :  $\leq -0.35\%/^{\circ}\text{C}$
- g. Solar PV modules shall be a commercial, off-the-shelf product, meeting IEC standards of IEC 61215, IEC 61730, IEC 60364, IEC 61701, IEC 61853, IEC 62804, shall be properly installed according to manufacturer's instructions.
- h. The manufacturer's warranty shall be as a minimum warrant that all modules need to generate more than 90% of its specified minimum rated power after 10 years.

**3.3 PRE-QUALIFICATION REQUIREMENTS (PQRs):**

The Prospective bidder(s) shall meet the following qualification requirements as on the date of submission of EOI:

- BNEF Tier 1 PV module manufacture
- shall have production track record of production of PV modules for last 5 years;
- shall have a minimum annual PV module production capacity of 1,500 MW;
- shall have deployed in operational projects a cumulative capacity of at least 3,000 MW PV modules;

Note: Suitable documents like, self-certified supply reference duly authenticated by the CEO/authorized representative of Prospective Bidder on company letter head. Purchase Order (PO) and documentary evidence of PO executed by Prospective Bidder etc.



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#### **4.0 DOCUMENTS TO BE SUBMITTED**

Interested bidder(s) are requested to submit their EOI, including:

- Company profile and contact details.
- Confirmation of ability to meet the technical requirements along with datasheets.
- Evidence of being a Tier 1 PV module manufacturer.
- Details of production capacity and track record.
- Relevant certifications or accreditations.

#### **5.0 INSTRUCTIONS**

- 5.1** Language: All correspondences and documents related to the EOI response shall be in English language, provided that any printed literature furnished by the prospective bidder may be written in another language, as long as such literature is accompanied by a translation of its pertinent passages in English language in which case, for purposes of interpretation of the bid, the English translation shall govern.
- 5.2** The prospective Bidder shall abide by the terms & conditions, as applicable, of the EOI.
- 5.3** All pages of the response against this EOI shall be duly signed by the authorised signatory.
- 5.4** BHEL at its discretion shall inspect the prospective bidder's works/office/reference site premises for the purpose of evaluation, as deemed necessary before selection of bidder. BHEL decision in this regard shall be final.
- 5.5** Any prospective Bidder which has been debarred/blacklisted by Central/State Governments or by any entity controlled by Central/State Governments from participating in any of their project, as on date of submission of EOI, shall not be eligible to submit the EOI.



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**5.6** The Bidder response shall necessarily be accompanied with details on company background, product profile, and relevant certificates and documents.

**5.7 CONFLICT OF INTEREST**

Bidder shall not have a conflict of interest that affects the final Market tender bidding process. Any/all Bidders found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest, if

- (a) Prospective Bidder is also engaged by other potential competitor.
- (b) Prospective Bidder lends, or temporarily seconds its personnel to other potential competitor organizations.
- (c) Any other conflict of interest criteria specified in the RFP.

**5.8 PROCESS TO BE CONFIDENTIAL:**

Information relating to the examination, clarification, evaluation and comparison of EOI and recommendations shall not be disclosed. Any effort by Prospective Bidder to influence BHEL in processing of EOI or selection decisions may result in the rejection of the response against EOI.

**In case any amendment/corrigendum to this EOI is issued, it shall be notified only at [www.bhel.com](http://www.bhel.com) .**

**5.9 GOVERNING LAWS & JURISDICTION:**

The EOI process shall be governed by, and construed in accordance with the laws of India and the Courts at New Delhi (India) shall have exclusive jurisdiction over all disputes arising under, pursuant to and/or in connection with the EOI process.

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