



Tender for Design, Engineering, Supply, Construction, Erection, Testing, Commissioning and O&M of 25 MW (AC) Solar PV Power Plant (50 MWp DC) with 20 MW / 50 MWh Battery Energy Storage System at Taru, Leh, UT of Ladakh, India



**Solar Energy Corporation of India Limited**  
(A Government of India Enterprise)  
**CIN: U40106DL2011GOI225263**

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**Tender**

**for**

**Design, Engineering, Supply, Construction, Erection,  
Testing, Commissioning and O&M of 25 MW (AC)  
Solar PV Power Plant (50 MWp DC) with 20 MW / 50  
MWh Battery Energy Storage System**

**at**

**Taru, Leh, UT of Ladakh, India**

**Tender No.: [SECI/C&P/OP/11/014/2024-25](#)**

**Dated: 22/04/2024**

25 MW (AC) Solar PV with 50 MWh BESS	<u>Tender No.</u> SECI/C&P/OP/11/014/2024-25	<u>COVER PAGE</u> Page 1 of 3	<u>Signature of Bidder</u>
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## **DISCLAIMER**

1. Though adequate care has been taken while preparing the tender document, the bidder(s) shall satisfy themselves that the document is complete in all respect. Intimation regarding any discrepancy shall be given to the office of Employer immediately. If no intimation is received from any bidder within **10 (Ten) days from the date of issuance of Tender documents**, it shall be considered that the document is complete in all respect and has been received/ acknowledged by the bidder(s).
2. Solar Energy Corporation of India Ltd (SECI) reserves the right to modify, amend or supplement this document.
3. While this tender document has been prepared in good faith, neither SECI nor their employees or advisors make any representation or warranty, express or implied, or accept any responsibility or liability, whatsoever, in respect of any statements or omissions herein, or the accuracy, completeness or reliability of information, and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of this document, even if any loss or damage is caused by any act or omission on their part.
4. All rights reserved. No part of this document may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of SECI, except in the case of brief quotations embodied in critical reviews and certain other non-commercial uses permitted by copyright law.

Place: New Delhi

Date: 22/04/2024



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# SECTION - I

# INVITATION FOR BIDS (IFB)

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**Domestic Competitive Bidding**

**(SINGLE STAGE TWO ENVELOPE BIDDING FOLLOWED BY E-REVERSE AUCTION)  
UNDER E-TENDERING**

**INVITATION FOR BIDS (IFB)**

**FOR**

**Tender for Design, Engineering, Supply, Construction, Erection, Testing, Commissioning and O&M of 25 MW (AC) Solar PV Power Plant (50 MWp DC) with 20 MW / 50 MWh Battery Energy Storage System**

**at**

**Taru, Leh, UT of Ladakh, India**

**1.0 INTRODUCTION**

- 1.1 Solar Energy Corporation of India Limited (SECI) is a CPSU under the administrative control of the Ministry of New and Renewable Energy (MNRE), set up on 20th Sept, 2011 to facilitate the implementation of JNNSM and achievement of targets set therein. It is the only CPSU dedicated to the solar energy sector. It was originally incorporated as a section-3 (not for profit) company under the Companies Act, 2013. In the present outlook of the RE sector, especially solar energy, SECI has a major role to play in the sector's development. The company is responsible for implementation of a number of schemes of MNRE for large-scale grid-connected projects under JNNSM, solar park scheme and grid-connected solar rooftop scheme along with a host of other specialised schemes. In addition, SECI is also developing its own Solar, Floating & Hybrid innovative RE Projects & is providing consultancy services to various major CPSUs for developing turnkey basis RE Projects. The company also has power trading license and is active in this domain through trading of solar power from projects set up under the schemes being implemented by it.
- 1.2 The selection of the Contractor for the “**Tender for Design, Engineering, Supply, Construction, Erection, Testing, Commissioning and O&M of 25 MW (AC) Solar PV Power Plant (50 MWp DC) with 20 MW / 50 MWh Battery Energy Storage System at Taru, Leh, UT of Ladakh, India**” has been entrusted to Solar Energy Corporation of India Limited (A Government of India Enterprise) incorporated under the Companies Act, 2013, having its Registered Office at 6th Floor, Plate-B, NBCC Office Block Tower-2, East Kidwai Nagar, New Delhi-110023 (hereinafter referred to as 'SECI').
- 1.3 SECI, envisages the execution of green energy technologies by way of implementing ground based Solar PV Power Plant with BESS in the UT of Ladakh, India. This would not only be a

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leap towards harnessing the use of renewable energy for Ladakh but also be means of selfreiant and economical expenditure on energy requirement, which would capitalize the abundance of Solar Energy resource in the region.

## 2.0 **PUBLIC PROCUREMENT POLICY:**

Wrt. Ministry of New & Renewable Energy (MNRE) Order No 283/22/2019-Grid Solar Dated 23rd Sep 2020 for the Public Procurement (Preference to Make In India) including any amendments thereto, so as to Provide Purchase Preference (linked with local content) with respect to Renewable Energy (RE) Sector & Department for promotion of Industry and Internal Trade (DPIIT) Notification No. P-45021/2/2017-PP (BE-LI) dated 4th June, 2020 including any amendments, the procurement of Solar Modules & Solar Cells for the subject tender will be supplied through Class I Local Suppliers only. A Class-I local supplier' means a Supplier or Service Provider, whose Goods, Services or works offered for Procurement, has Local Content equal to or more than 50%, as defined under the above said orders.

## 3.0 **APPROVED LIST OF MODELS & MANUFACTURES:**

The provisions as contained in the O.M. dated 10.03.2021 issued by MNRE on the subject "Approved Models and Manufacturers of Solar Photovoltaic Modules (requirement of compulsory registration) Order, 2019-Implementation-Reg." and its subsequent amendments and clarifications, shall be applicable for this tender. The Modules used in this tender shall be sourced only from the Models and Manufacturers included in the List-I (Solar PV Modules) of ALMM Order, Annexure-I of the OM, issued by MNRE on 10th March 2021 which will be updated by MNRE from time to time. The modules to be supplied under this tender, shall be from the List-I of the ALMM order applicable on the date of invoicing of such modules. Bidders shall also provide a disclosure regarding that they are aware of binding provisions of the ALMM order and the list(s) thereunder, while quoting for the tender.

## 4.0 **DOMESTIC CONTENT REQUIREMENT:**

The tender mandates use of both Solar Photovoltaic (SPV) Cells and Modules manufactured domestically as per specifications and testing requirements fixed by MNRE. For the supplies to be done under this tender, both the Solar Cells and Modules must be made in India and Modules shall be from the Manufacturers listed in ALMM list, published & updated by MNRE from time to time. In case of Crystalline Silicon Technology, all process steps and quality control measures involved in the manufacture of the Solar Cells and Modules starting from wafers until final assembly of the Solar Cells into modules shall be performed at the works of PV Manufacturers in India.

5.0 The complete Bidding Documents are available at ISN-ETS portal <https://www.bharat-electronictender.com>, Central Public Procurement portal (CPPP) of Gol at [www.eprocure.gov.in](http://www.eprocure.gov.in) as well as on SECI's website <http://www.seci.co.in>. However, for the purpose of participation, the

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official copy of the bidding documents shall only be downloaded from SECI's e-tendering portal at <https://www.bharat-electronictender.com>, as per the provisions available therein. Accordingly, the online bid also has to be uploaded by the respective bidders at <https://www.bharat-electronictender.com> only & no other mode of participation is permitted for this tender document other than ISN-ETS Portal.

- 6.0 Interested bidders have to necessarily register themselves on the portal <https://www.bharat-electronictender.com> through M/s Electronic Tender.com India Pvt Ltd (ETI), New Delhi to participate in the bidding under this invitation for bids. It shall be the sole responsibility of the interested bidders to get themselves registered at the aforesaid portal for which they are required to contact M/s ETI, New Delhi to complete the registration formalities. The address of M/s ETI is mentioned on the Bid Information Sheet. All required documents and formalities for registering on ETI are mentioned in the subsequent bidding documents.

They may obtain further information regarding this IFB from the registered office of SECI at the address given on the Bid Information Sheet from 10:00 hours to 17:00 hours on all working days till the last date of the Bid Submission.

For proper uploading of the bids on the portal namely <https://www.bharat-electronictender.com> (*hereinafter referred to as the 'portal'*), it shall be the sole responsibility of the bidders to apprise themselves adequately regarding all the relevant procedures and provisions as detailed in the portal as well as by contacting M/s Electronic Tender.com India Pvt Ltd (ETI), New Delhi directly, as and when required, for which contact details are also mentioned on the Bid Information Sheet. The SECI in no case shall be responsible for any issues related to timely or properly uploading/ submission of the bid in accordance with the relevant provisions of Section II - ITB of the Bidding Documents.

- 7.0 While submitting/ uploading the bids, the system through portal asks to key in the pass-phrase for encryption of the documents. The pass-phrase is required by SECI for opening the bids (Separate for both First Envelopes as well as Second Envelopes). **The same may be submitted on the portal as per the provisions existing for submission of the pass-phrase and as per the details given in ITB.**

In the event, SECI is unable to open the Bids with the given pass-phrase provided by the bidders, SECI on its discretion may give an option through the portal, to the bidder to open its bid as per provisions available on the portal. However, SECI shall not be responsible if bid could not be opened within reasonable time for whatsoever reason. In such a case, the bid shall be sent unopened to 'Archive' on the portal and shall not be considered at all any further.

- 8.0 A Single Stage Two Envelope Bidding Procedure followed by e-Reverse Auction will be adopted and will be processed as detailed in the Bidding Documents. Bidding will be conducted through the competitive bidding procedures as per the provisions of ITB/ BDS and the contract shall be executed as per the provisions of the Contract. It shall be noted that the respective rights of the SECI and the Bidder/ Contractor shall be governed by this Bidding Documents and Contract signed between the Owner and the Contractor for the package.

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- 9.0 Bidders should submit their bid proposal online complete in all aspect on or before last date and time of Bid Submission as mentioned on ETS Portal of ISN-ETS at <https://www.bharat-electronictender.com> and as indicated in the Bid Information Sheet.
- 10.0 Bidder shall submit bid proposal along with non-refundable Tender Processing Fees, Earnest Money Deposit (EMD) if applicable/ Bid Securing Declaration complete in all respect as per the Bid Information Sheet. Techno-Commercial bids will be opened as per the Bid Information Sheet in offline/ online presence of authorised representatives of bidders who wish to be present offline/ online. Bid proposals received without the prescribed Tender Processing Fees and Earnest Money Deposit (EMD, if applicable) or Bid Securing Declaration will be rejected. **In the event of any date indicated is a declared Holiday, the next working day shall become operative for the respective purpose mentioned herein.**
- 11.0 Tender documents which include Eligibility Criteria, Technical Specifications, various Conditions of Contract, Formats etc. can be downloaded from ETS Portal of ISN-ETS at <https://www.bharat-electronictender.com>. **It is mandatory to download official copy of Tender Document from ISN-ETS Portal to participate in the Tender.** Any amendment(s)/ corrigendum(s)/ clarification(s) with respect to this Tender shall be uploaded on ETI site. The Bidder should regularly check for any Amendment(s)/ Corrigendum(s)/ Clarification(s) on the above mentioned ETI site. The same may also be uploaded on SECI website <http://www.seci.co.in> also. **However, in case of any discrepancy, the information available on ETI site shall prevail.**
- 12.0 The Bidder selected shall be responsible for the performance of the following scope of work (more detailed in this tender document):
- Design, Engineering, Supply, Construction, Erection, Testing, Commissioning and O&M of 25 MW (AC) Solar PV Power Plant (50 MWp DC) with 20 MW / 50 MWh Battery Energy Storage System at Taru, Leh, UT of Ladakh, India.
  - Comprehensive operation & maintenance of the Solar PV Power Plants for 10 (Ten) years as mentioned in detailed scope of work, after successful commissioning and performance demonstration, as detailed in technical specification, including supply and storage of all mandatory spare parts, consumables, repairs/ replacement of any defective equipment, etc.
- The above scope of work is indicative and the detailed scope of work is given in the Scope of Work and Technical Specification (Section - VII) of the Tender Documents.
- 13.0 EMD/Bid Securing Declaration shall be enclosed in a sealed envelope and shall be submitted in the office of SECI (offline) whose mailing address is mentioned in the Bid Information Sheet.
- 14.0 Performance Securities as per this tender document shall be furnished by the successful bidder after issuance of Notification of Award (NOA)/ Letter of Intent (LOI)/ Letter of Award (LOA) by the Owner.
- 15.0 The detailed Qualifying Requirements (QR) are given in the section, "Annexure to BDS".

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- 16.0 The SECI shall conduct e-Reverse Auction (e-RA), as per provisions of **Instructions to Bidders (ITB)** of Tender documents.
- 17.0 **SECI/ Owner reserves the right to cancel/ withdraw this invitation for bids without assigning any reason and shall bear no liability whatsoever consequent upon such a decision.**

### **INTERPRETATIONS**

1. Words comprising the singular shall include the plural & vice versa.
2. An applicable law shall be construed as reference to such applicable law including its amendments or re-enactments from time to time.
3. A time of day shall save as otherwise provided in any agreement or document be construed as a reference to Indian Standard Time.
4. Different parts of this contract are to be taken as mutually explanatory and supplementary to each other and if there is any differences between or among the parts of this contract, they shall be interpreted in a harmonious manner so as to give effect to each part.

The table of contents and any headings or sub headings in the contract has been inserted for case of reference only & shall not affect the interpretation of this agreement.

### **BID INFORMATION SHEET**

The brief details of the tender are as under:

<b>(A) SCOPE OF WORK</b>	The detailed scope of work is given in Section VII: Scope of Work, specifications and Drawings of this bidding documents.
<b>(B) TENDER NO. &amp; DATE</b>	<b>SECI/C&amp;P/OP/11/014/2024-25</b> dated 22/04/2024
<b>(C) SOURCE OF FUNDS</b>	Owner as defined in the Bid Data Sheets (BDS) intends to finance the package through domestic funding and own resources.
<b>(D) TYPE OF TENDER</b>	“Single Stage Two Envelope” online Bidding system followed by e-Reverse Auction.
<b>(E) BIDDERS ELIGIBLE FOR BIDDING</b>	This bid is open to bidders from within the Owner’s country only.

(F)	<b>COMPLETION/ CONTRACT PERIOD</b>	As mentioned in Special Conditions of Contract (SCC).
(G)	<b>COST OF BIDDING DOCUMENTS</b>	Free of cost
(H)	<b>TENDER PROCESSING FEE</b>	<b>Amount: INR 25000/- (Indian Rupees Twenty-Five Thousand only) inclusive of GST @ 18%</b>
(I)	<b>EARNEST MONEY DEPOSIT (EMD)</b>	<b>Amount: INR 7,41,00,000 (Indian Rupees Seven Crores Forty One Lakhs only).</b>
(J)	<b>CONTRACT PERFORMANCE SECURITY</b>	As detailed under SCC Section of the tender document.
(K)	<b>DATE, TIME &amp; VENUE OF PRE- BID MEETING &amp; SITE VISIT</b>	<p><b>Date and Venue will be intimated subsequent to the release of tender document.</b></p> <p><b>Site Visit:</b></p> <p>Prospective Bidders are advised to visit the proposed site to study the actual conditions and go through the plans/ drawings connected to the present scope of work etc including power evacuation system and ground mounted Project capacities and get acquainted with the same before attending Pre-bid meeting.</p>
(L)	<b>OFFLINE &amp; ONLINE BID- SUBMISSION DEADLINE</b>	<b><u>13.05.2024 up to 1400 HRS</u></b>
(M)	<b>OFFLINE &amp; ONLINE BID OPENING</b>	<b><u>13.05.2024, 1600 HRS onwards</u></b>
(N)	<b>FINANCIAL BID OPENING</b>	To be intimated subsequent to the shortlisting of Techno Commercial Bids



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<b>(O)</b>	<b>CONTRACTUAL QUERIES CONTACT DETAILS</b>	<p><b>Sh. A K Sinha</b> Additional General Manager (C&amp;P)</p> <p>Solar Energy Corporation of India Limited (A Government of India Enterprise)</p> <p>6th Floor, Plate-B, NBCC Office Block Tower-2, East Kidwai Nagar, New Delhi-110023, India</p> <p>E mail: <a href="mailto:ajay.k.sinha@seci.co.in">ajay.k.sinha@seci.co.in</a> Phone: 011-24666200/ 24666220</p>
<b>(P)</b>	<b>TECHNICAL QUERIES CONTACT DETAILS</b>	<p><b>Sh. Shreedhar Singh</b> Additional General Manager (Projects)</p> <p>Solar Energy Corporation of India Limited (A Government of India Enterprise)</p> <p>6th Floor, Plate-B, NBCC Office Block Tower-2, East Kidwai Nagar, New Delhi-110023, India</p> <p>E mail: <a href="mailto:shreedhar.singh@seci.co.in">shreedhar.singh@seci.co.in</a> Phone: 011-24666200/ 24666221</p>
<b>(Q)</b>	<b>CONTACT DETAILS OF ETI</b>	<p>M/s Electronic Tender.com (India) Pvt Ltd Registered Office: 6, Jain Mandir Road, New Delhi-110001 Corporate Office: 1001, City Court, M. G. Road, Gurugram - 122002, Haryana Contact Person: ETS Support Team Contact No.: +91-124-4229071, 4229072 Email: <a href="mailto:support@isn-ets.com">support@isn-ets.com</a></p>

- 1.0 Bids must be submitted strictly in accordance with Clause no. 11 of ITB depending upon Type of Tender as mentioned at Clause no. (D) of Bid Information Sheet. The IFB is an integral and inseparable part of the Tender document.
- 2.0 Bidder(s) are advised to bid strictly as per terms and conditions of the tender documents and not to stipulate any deviations/ exceptions.
- 3.0 Any bidder, who meets the Qualifying Requirement and wishes to quote against this tender, may download the complete bidding document along with its amendment(s) if any from ETS Portal of ISN-ETS (<https://www.bharat-electronictender.com>) and submit their Bid complete in all

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respect as per terms & conditions of Tender Document on or before the due date of bid submission.

4.0 No Manual / Hard Copy of the Bid shall be acceptable.

5.0 Clarification(s)/ Corrigendum(s) if any shall also be available on above referred websites.

6.0 Owner will release NOA/ LOI/ LOA / CA for LSTK (Lump Sum Turn Key)/ EPC (Engineering, Procurement & Commissioning) to the successful bidder. The NOA/ LOI/ LOA/CA for LSTK/ EPC job shall be awarded in following respective parts as mentioned briefly below: -

(i) **First Contract (Supply & Service Part):** For providing the Ex Works Supply, materials including mandatory spares and any other supplies specified in the Tender Documents under the scope of Supply comprising of all services i.e., including Transportation and Insurance of all Equipment's till site, Unloading, Storage, Handling at Site, Civil Works, Design, engineering, Erection, Installation, Testing and Commissioning including Performance Testing in respect of all the Equipment's supplied under the scope of Supply and any other services specified in the Contract Documents.

(ii) **Second Contract (O&M Part):** For providing Comprehensive operation & maintenance of the Solar PV plant for 10 (Ten) years from the date of Operational Acceptance, as detailed in technical specification including supply and storage of all spare parts, consumables, repairs/ replacement of any defective equipment etc.

7.0 However, the above-mentioned contract award methodology may be modified/ changed based on specific project requirements and upon sole discretion of Owner.

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