



Design, Engineering, Supply, Construction, Erection, Testing & Commissioning of 50 MW (AC)  
Solar PV Project with Land at Tamilnadu, 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 of 50 MW (AC) Solar PV Project  
with Land having 10 years Plant O&M**

## **At**

**Tamilnadu, India**

**Tender No. [SECI/C&P/TD/2020/TN/50](#)**

**Dated: 06/01/2021**

**50 MW (AC) Solar PV Power Project  
with Land at Tamilnadu, India**

**Tender No  
SECI/C&P/TD/2020/TN/50**

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**Signature of Bidder**

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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: 06/01/2021



# **SECTION - I**

# **INVITATION**

# **FOR BIDS (IFB)**

## INVITATION FOR BIDS (IFB)

FOR

**DESIGN, ENGINEERING, SUPPLY, CONSTRUCTION, ERECTION, TESTING & COMMISSIONING  
OF 50 MW (AC) SOLAR PV PROJECT WITH LAND HAVING 10 YEARS PLANT O&M AT**

**TAMILNADU, INDIA**

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

**ELIGIBILITY CONDITIONS SET FORTH IN THE TENDER DOCUMENT ARE AS PER TOTAL 50 MW (AC) (40 MW GROUND BASED SOLAR PV + 10 MW AGRO PV) CUMULATIVE CAPACITY BASIS. BIDDERS ARE REQUIRED TO QUOTE ACCORDINGLY FOR THE COMPLETE CUMULATIVE CAPACITY OF 50 MW (AC). THERE ARE SEPARATE PRICE SHEETS UNDER SOR 1 & SOR 2 FOR 40 MW GROUND BASED SOLAR PV & 10 MW AGRO PV RESPECTIVELY. THE TOTAL CAPACITY OF 50 MW WILL BE AWARDED TO A SINGLE SUCCESSFUL BIDDER ONLY SELECTED AFTER E-RA. E-RA WILL BE DONE ON THE TOTAL CUMULATIVE CAPACITY OF 50 MW ONLY.**

**POST E-RA, IF THE OVERALL PROJECT COST FOR 50 MW (AC) IS NOT FOUND FEASIBLE BY THE EMPLOYER, THEN EMPLOYER, AT ITS SOLE DISCRETION MAY REDUCE/WITHDRAW, THE 10 MW AGRO PV SITE CAPACITY & ITS RESPECTIVE PRICE FROM THE OVERALL CUMULATIVE PROJECT CAPACITY & PRICE. ACCORDINGLY, THE 40 MW GROUND BASED SOLAR PV PROJECT ONLY WILL BE AWARDED TO THE SUCCESSFUL BIDDER. IN CASE THE OVERALL PROJECT COST IS FOUND FEASIBLE, THEN THE CUMULATIVE CAPACITY OF 50 MW (AC) (40 MW GROUND BASED SOLAR PV + 10 MW AGRO PV) WILL BE AWARDED TO THE SUCCESSFUL BIDDER.**

### Under e-Tendering

- 1.0 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.

- 2.0 SECI, envisages the execution of green energy technologies by way of implementing ground based Solar PV Power Plant with Agro PV in the State of Tamilnadu, India. This would not

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only be a leap towards harnessing the use of renewable energy for Tamilnadu but also be means of self-reliant and economical expenditure on energy requirement, which would capitalize the abundance of Solar Energy resource in the region.

3.0 The selection of the Contractor for the “Design, Engineering, Supply, Construction, Erection, Testing & Commissioning of 50 MW (AC) Solar PV Project with Land having 10 years plant O&M at Tamilnadu, India” will be carried out by Solar Energy Corporation of India Limited (A Government of India Enterprise) incorporated under the Companies Act, 2013, having its Registered Office at D - 3, 1<sup>st</sup> Floor, Wing - A, Prius Platinum Building, District Centre, Saket, New Delhi - 110 017 (hereinafter referred to as ‘SECI’ or EMPLOYER or OWNER). For the purpose of all procurement activities related to the said works, SECI shall be referred to as ‘SECI or Employer or Owner’.

4.0 SECI, therefore, invites bids from eligible bidders to participate in the tender for Design, Engineering, Supply, Construction, Erection, Testing & Commissioning of 50 MW (AC) Solar PV Project with Land having 10 years plant O&M at Tamilnadu, India as per the aforementioned details.

5.0 **VOID**

6.0 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 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..

7.0 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 Employer 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.

- 8.0 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 Employer 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, Employer 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, Employer 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.

- 9.0 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 Employer and the Bidder/ Contractor shall be governed by this Bidding Documents and Contract signed between the Owner and the Contractor for the package.

- 10.0 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.

- 11.0 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.**

- 12.0 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.**

- 13.0 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 of 50 MW (AC) Solar PV Project with Land at Tamilnadu, India

- (i) Design, Engineering, Supply, Construction, Erection, Testing & Commissioning of 50 MW (AC) Solar PV Project with Land at Tamilnadu, India.
- (ii) 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.

- 14.0 EMD/Bid Securing Declaration shall be enclosed in a sealed envelope and shall be submitted in the office of Employer (offline) whose mailing address is mentioned in the Bid Information Sheet.
- 15.0 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.
- 16.0 The detailed Qualifying Requirements (QR) are given in the section, "Annexure to BDS".
- 17.0 The Employer shall conduct e-Reverse Auction (e-RA), as per provisions of **Instructions to Bidders (ITB)** of Tender documents.
- 18.0 ***Employer/ 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:

(A)	<b>NAME OF WORK/ BRIEF SCOPE OF WORK/ JOB</b>	<p>Complete transfer of ownership/lease of encumbrance free land in favor of SECI Ltd, Design, engineering, procurement &amp; supply of equipment and materials, testing at manufacturers' works, multi – level inspections, packing and forwarding, supply, receipt, unloading and storage at site, associated civil works, services, permits, licences, installation and incidentals, insurance at all stages, erection, testing and commissioning of Solar PV Project of 50 MW (AC) with Land at Tamilnadu, India, including interconnected transmission lines and performance demonstration with associated equipment and materials on turnkey basis with 10 (Ten) years comprehensive operation and maintenance from the date of Operational Acceptance.</p> <p>1. Design, Procurement &amp; Supply and erection of the following, in all respect:</p> <p>1.1 Solar panels including module mounting structures and fasteners.</p> <p>1.2 All power conditioning systems including junction boxes, Inverters/ PCU, DC and AC circuit breaker(s).</p> <p>1.3 All associated electrical works and equipment required for interfacing line/ cable (i.e. transformer(s) – power and auxiliary, breakers, isolators, lightning arrestor(s), LT/other panels, protection system, cables, metering etc., but not limited to) as per technical specifications.</p> <p>1.4 Design, supply, erection, testing &amp; commissioning defined in scope of work/ TS as per project requirement and associated switchgear equipment and metering equipment as per technical specification and state regulations.</p> <p>1.5 All associated civil works, including design and Engineering, for: Earthwork for Site grading, cutting, filling, levelling &amp; compacting, internal Roads, Storm water drainage in the requisite project land as required for development of this Solar PV Power Plant</p> <p>1.6 Construction of Passage for Cleaning of Solar PV Project</p> <p>1.7 Construction of rain water drainage, if required</p> <p>1.8 Setting up of a comprehensive Fire Protection system as per the Hazardous area classification for the site</p> <p>1.9 Supply of mandatory spares &amp; special tools and tackles</p> <p>1.10 Demonstration of performance of the plant as per the requirement specified in the bidding documents.</p>
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		<div>1.11 Comprehensive operation &amp; maintenance of the SPV plant for 10 (Ten) years as mentioned in detailed scope of work from the date of commissioning or Operational Acceptance, whichever is later, as detailed in technical specification, including supply and storage of all spare parts, consumables, repairs/ replacement of any defective equipment etc</div> <div>1.12 Obtaining all associated statutory and regulatory compliances and approvals for successful construction, commissioning and operation of plant</div> <div>1.13 The detailed scope of work is given in Section VII: Scope of Work, specifications and Drawings of this bidding documents.</div>				
(B)	TENDER NO. & DATE	SECI/C&P/TD/2020/TN/50 dated 06/01/2021				
(C)	SOURCE OF FUNDS	Employer/Owner as defined in the Bid Data Sheets (BDS) intends to finance the package through domestic funding and own resources.				
(D)	TYPE OF TENDER	“Single Stage Two Envelope “online Bidding system followed by e-Reverse Auction.				
(E)	BIDDERS ELIGIBLE FOR BIDDING	This bid is open to bidders from within & outside the Owner’s/Employer’s country.				
(F)	COMPLETION/ CONTRACT PERIOD	As mentioned in Special Conditions of Contract (SCC).				
(G)	COST OF BIDDING DOCUMENTS	Free of cost				
(H)	TENDER PROCESSING FEE	<table><tr><td>APPLICABLE</td><td>Yes</td></tr><tr><td>NOT APPLICABLE</td><td></td></tr></table> <div>Amount: INR 25000/- (Indian Rupees Twenty-Five Thousand only) inclusive of GST @ 18%</div>	APPLICABLE	Yes	NOT APPLICABLE	
APPLICABLE	Yes					
NOT APPLICABLE						
(I)	EARNEST MONEY DEPOSIT (EMD)					