



**Request for Selection (RfS) Document  
for setting up of Pilot Projects of 500 MW/1000MWh  
Standalone Battery Energy Storage Systems in India  
under Tariff-Based Global Competitive Bidding  
(ESS-I)**

**RfS No. SECI/C&P/IPP/15/0001/22-23 dated: 13.04.2022**

Tender Search Code on ISN-ETS: SECI-2022-TN000010

***Solar Energy Corporation of India Limited  
(A Government of India Enterprise)  
6th Floor, Plate-B, NBCC Office Block Tower-2,  
East Kidwai Nagar, New Delhi – 110023  
Tel: 011 - 24666200, e-mail : contracts@seci.co.in***

## DISCLAIMER

1. Though adequate care has been taken while preparing the RfS document, the bidder(s) shall satisfy themselves that the document is complete in all respect. Intimation regarding any discrepancy shall be given by the prospective bidders to the office of SECI immediately. If no intimation is received from any bidder within **20 (Twenty) days from the date of issuance of RfS 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. This RfS document has been prepared in good faith, and on best endeavour basis. 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. In case of any discrepancy in the documents uploaded on the websites of SECI, ISN-ETS and CPPP, the documents uploaded on the ISN-ETS website will prevail.

Place: New Delhi

Date: 13.04.2022

## **BID INFORMATION SHEET**

The brief details of the RfS are as under:

<b>(A)</b>	<b>NAME OF WORK/ BRIEF SCOPE OF WORK/ JOB</b>	<p>1. Selection of Battery Energy Storage System Developers for Setting up of 1000 MWh (500 MW x 2 hrs) Battery Energy Storage Systems in India for “on Demand” usage under Tariff-based Competitive Bidding (ESS-I)</p> <p>2. The Projects will be set up under “BOOT” model.</p>				
<b>(B)</b>	<b>RfS NO. &amp; DATE</b>	SECI/C&P/IPP/15/0001/22-23 dated: 13.04.2022				
<b>(C)</b>	<b>TYPE OF BIDDING SYSTEM</b>	<table border="1" style="width: 100%;"> <tr> <td style="text-align: center;">SINGLE BID SYSTEM</td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td style="text-align: center;">TWO BID SYSTEM</td> <td style="text-align: center;"><input checked="" type="checkbox"/> Yes</td> </tr> </table>	SINGLE BID SYSTEM	<input type="checkbox"/>	TWO BID SYSTEM	<input checked="" type="checkbox"/> Yes
SINGLE BID SYSTEM	<input type="checkbox"/>					
TWO BID SYSTEM	<input checked="" type="checkbox"/> Yes					
<b>(D)</b>	<b>TYPE OF RfS/ TENDER</b>	<table border="1" style="width: 100%;"> <tr> <td style="text-align: center;">E-TENDER</td> <td style="text-align: center;"><input checked="" type="checkbox"/> Yes</td> </tr> <tr> <td style="text-align: center;">MANUAL</td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	E-TENDER	<input checked="" type="checkbox"/> Yes	MANUAL	<input type="checkbox"/>
E-TENDER	<input checked="" type="checkbox"/> Yes					
MANUAL	<input type="checkbox"/>					
<b>(E)</b>	<b>COMPLETION/ CONTRACT PERIOD</b>	As mentioned in RfS Document				
<b>(F)</b>	<b>DOCUMENT FEE/ COST OF RfS DOCUMENT (NON- REFUNDABLE)</b>	<table border="1" style="width: 100%;"> <tr> <td style="text-align: center;">APPLICABLE</td> <td style="text-align: center;"><input checked="" type="checkbox"/> Yes</td> </tr> <tr> <td style="text-align: center;">NOT APPLICABLE</td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table> <p>Amount: INR 29,500/- (Indian Rupees Twenty-Nine Thousand Five Hundred Only) including GST to be submitted through NEFT/ RTGS transfer in the account of SECI.</p>	APPLICABLE	<input checked="" type="checkbox"/> Yes	NOT APPLICABLE	<input type="checkbox"/>
APPLICABLE	<input checked="" type="checkbox"/> Yes					
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<b>(G)</b>	<b>DOCUMENT PROCESSING FEE</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">APPLICABLE</td> <td style="width: 50%; text-align: center;"><input style="width: 80%; height: 20px;" type="text" value="Yes"/></td> </tr> <tr> <td style="text-align: center;">NOT APPLICABLE</td> <td style="text-align: center;"><input style="width: 80%; height: 20px;" type="text"/></td> </tr> </table> <p>Rs. 15 Lakh + 18% GST for each Project, to be submitted through NEFT/RTGS transfer in the account of SECI.</p>	APPLICABLE	<input style="width: 80%; height: 20px;" type="text" value="Yes"/>	NOT APPLICABLE	<input style="width: 80%; height: 20px;" type="text"/>
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<b>(H)</b>	<b>EARNEST MONEY DEPOSIT (EMD)</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">APPLICABLE</td> <td style="width: 50%; text-align: center;"><input style="width: 80%; height: 20px;" type="text" value="Yes"/></td> </tr> <tr> <td style="text-align: center;">NOT APPLICABLE</td> <td style="text-align: center;"><input style="width: 80%; height: 20px;" type="text"/></td> </tr> </table> <p>Amount: INR 7,40,000/- (Indian Rupees Seven Lakh and Forty Thousand only) per MW per Project to be submitted in the form of Bank Guarantee.</p>	APPLICABLE	<input style="width: 80%; height: 20px;" type="text" value="Yes"/>	NOT APPLICABLE	<input style="width: 80%; height: 20px;" type="text"/>
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NOT APPLICABLE	<input style="width: 80%; height: 20px;" type="text"/>					
<b>(I)</b>	<b>PERFORMANCE BANK GUARANTEE</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">APPLICABLE</td> <td style="width: 50%; text-align: center;"><input style="width: 80%; height: 20px;" type="text" value="Yes"/></td> </tr> <tr> <td style="text-align: center;">NOT APPLICABLE</td> <td style="text-align: center;"><input style="width: 80%; height: 20px;" type="text"/></td> </tr> </table>	APPLICABLE	<input style="width: 80%; height: 20px;" type="text" value="Yes"/>	NOT APPLICABLE	<input style="width: 80%; height: 20px;" type="text"/>
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NOT APPLICABLE	<input style="width: 80%; height: 20px;" type="text"/>					
<b>(J)</b>	<b>DATE, TIME &amp; VENUE OF PRE-BID MEETING</b>	<p>Solar Energy Corporation of India Limited (A Government of India Enterprise) 6<sup>th</sup> Floor, Plate-B, NBCC Office Block Tower-2, East Kidwai Nagar, New Delhi - 110023 Scheduled as per NIT on ISN-ETS portal and/or SECI website.</p>				
<b>(K)</b>	<b>OFFLINE &amp; ONLINE BID-SUBMISSION DEADLINE</b>	<p>As per NIT on ISN-ETS portal</p>				
<b>(L)</b>	<b>TECHNO-COMMERCIAL BID OPENING</b>	<p>As per NIT on ISN-ETS portal</p>				
<b>(M)</b>	<b>e-Reverse Auction (e-RA)</b>	<p>Will be informed to eligible bidders. Date and time of e-RA shall be intimated through email.</p>				
<b>(N)</b>	<b>CONTACT DETAILS OF ISN-ETS Portal</b>	<p><b>M/s Electronic Tender.com (India) Pvt. Ltd.</b> Gurugram Contact Person: ISN-ETS Support Team Customer Support: +91-124-4229071,4229072 (From 10:00 Hrs to 18:00 Hrs on all working Days i.e. Monday to Friday except Govt. Holidays) Email: support@isn-ets.com</p>				

(O)	<b>Name, Designation, Address and other details</b>  <b>(For Submission of Response to RfS)</b>	Sh. Ajay Kumar Sinha Additional General Manager (Contracts & Procurement) Solar Energy Corporation of India Limited 6 <sup>th</sup> Floor, Plate-B, NBCC Office Block Tower-2, East Kidwai Nagar, New Delhi - 110023 Contact No.: 011 24666220 Email: <a href="mailto:contracts@seci.co.in">contracts@seci.co.in</a>
(P)	<b>Details of persons to be contacted in case of any assistance required</b>	1) Sh. Pratik Prasun Manager (C&P) Ph.: 011-24666237 <a href="mailto:pratikpr@seci.co.in">pratikpr@seci.co.in</a>  2) Sh. Biblesh Meena Deputy Manager (C&P) Ph: 011-24666270 <a href="mailto:Biblesh@seci.co.in">Biblesh@seci.co.in</a>  3) Sh. Jayansh Gaur Senior Engineer (C&P) Ph: 011-24666281 <a href="mailto:jayansh.gaur@seci.co.in">jayansh.gaur@seci.co.in</a>

1. Bids must be submitted strictly in accordance with Section-2 and 3 of the RfS, depending upon Type of Tender as mentioned at Clause no. (D) of Bid Information Sheet.
2. Bidders are required to quote strictly as per terms and conditions of the RfS documents and not to stipulate any deviations/ exceptions.
3. Any bidder, who meets the Qualifying Requirement and wishes to quote against this RfS, may download the complete RfS document along with its amendment(s) and clarifications if any, from ISN-ETS Portal (<https://www.bharat-electronictender.com>) and/or SECI website ([www.seci.co.in](http://www.seci.co.in)) and submit their Bid complete in all respect as per terms & conditions of RfS Document on or before the due date of bid submission.
4. Clarification(s)/ Corrigendum(s) if any shall also be available on the above referred websites.

**Bidders are requested to remain updated for any notices/ amendments/ clarifications etc. to the RfS document through the websites <https://www.bharat-electronictender.com> and [www.seci.co.in](http://www.seci.co.in). No separate notifications will be issued for such notices/ amendments/ clarifications etc. in the print media or individually. Intimation regarding notification on the above shall be updated on [www.seci.co.in](http://www.seci.co.in) and the details only will be available from <https://www.bharat-electronictender.com>**

## **SECTION 1. INTRODUCTION & INVITATION FOR BIDS**

### ***1 Background & Introduction***

- 1.1 Solar Energy Corporation of India Limited (hereinafter called “SECI”) is a Government of India Enterprise under the administrative control of the Ministry of New & Renewable Energy (MNRE). One of the main objectives of the Company is to assist the Ministry and function as the implementing and facilitating arm of the National Solar Mission (NSM) for development, promotion and commercialization of solar energy technologies in the country.
- 1.2 With various global developments in technology and manufacturing, Renewable Energy (RE) has become the most affordable and cheapest source for meeting the energy requirements. Initial capacities have been successfully integrated to the grids so far, but with increasing penetration of RE in the energy mix, further capacity addition is expected to face issues due to variable nature and supply-demand mismatch.
- 1.3 The above aspects rightly point out to the next course of direction of India’s energy planning methodology-integrating Energy Storage Systems (ESS) with existing and upcoming RE capacity in order to optimize generation mix while also better utilizing the transmission infrastructure in the country. With respect to increasing the storage component in the energy mix, CEA’s Report on identification of usage of storage as business case and for ancillary services, identifies Pumped Hydro Storage System (PSP) and Battery Energy Storage Systems (BESS) as the commercially deployed solutions for providing requisite storage capacity. The CEA Study has revealed that the planning model selects the battery energy storage system from the year 2027-28 onwards and a Battery Energy Storage capacity of 27,000 MW/108,000 MWh (4-hour storage) is projected to be part of the installed capacity in 2029-30. This will be in addition to 10,151 MW of Pumped Hydro Storage System envisaged to be a component of the installed capacity in 2029-30.
- 1.4 Going forward, the planning process for transition to a greener energy mix in the country would entail integrating the planned Renewable capacity into India’s energy grid while ensuring its safety and reliability. Apart from Pumped Hydro Storage Plants, BESS are envisaged to be significant element of the future grid with increased share of renewable energy in accordance with the target of 500 GW of non-fossil-based capacity to be installed by 2030. BESS assets can provide the required flexibility in generation apart from ensuring the resource adequacy. Besides, Energy Storage Systems also have the potential to enable better utilization of the country’s transmission network and reducing network infrastructure footprint.
- 1.5 SECI has received interest from prospective Buying Entities across the country, to utilize energy storage systems, on a “On-Demand” basis, suited to their requirements during the peak and off-peak hours. In view of the above, SECI hereby wishes to invite proposals for setting up of ISTS-connected Pilot Projects of Standalone Battery Energy Storage Systems (BESS), for an aggregate storage capacity of 1000 MWh (500 MW x 2 hrs). SECI shall enter into a Battery Energy Storage Purchase Agreement (BESPA)

with the successful Bidders selected based on this RfS, for providing Energy Storage facility to SECI/Buying Entities as per the terms, conditions and provisions of the RfS and BESPA.

- 1.6 Battery Energy Storage System Developers (hereinafter referred to as BESSDs) selected by SECI based on this RfS, shall set up the BESS on Build Own Operate Transfer (BOOT) basis in accordance with the provisions of this RfS document and standard BESPA. BESPA formats shall be shortly available for download from the ISN-ETS portal <https://www.bharat-electronictender.com>.
- 1.7 Energy Storage facility to be procured by SECI from the above ESSs has been provisioned to be done on behalf of the different Buying Entities of India. The details of Buying Entities shall be intimated at a later date. SECI shall at its discretion be entitled to substitute any entity in other states only for selling the power from the Battery Energy Storage facility set up by the selected Bidder. SECI shall be an intermediary nodal agency for using the energy storage facility and charging/discharging the BESS in line with respective agreements with the BESSD and Buying Entities/Discoms, based on due performance by the concerned parties.
- 1.8 The Bidders will be free to avail fiscal incentives like Accelerated Depreciation, Concessional Customs and Excise Duties, Tax Holidays etc. available if any for such Projects. The same will not have any bearing on comparison of bids for selection. As equal opportunity is being provided to all Bidders at the time of tendering itself, it is up to the Bidders to avail various tax and other benefits. No claim shall arise on SECI for any liability if Bidders are not able to avail fiscal incentives and this will not have any bearing on the applicable tariff. SECI does not however, give a representation on the availability of fiscal incentive and submission of bid by the Bidder shall be independent of such availability or non-availability as the case may be of the fiscal incentives.
- 1.9 Already commissioned projects cannot be considered under this RfS. Projects under construction or projects which are not yet commissioned will, however, be considered, in case these projects are not already accepted under any other Central or State Schemes. Enhancement and augmentation of already commissioned Projects, irrespective of their capacities will not be considered as eligible Project under this scheme. The battery capacity being installed under this tender cannot be used by the developer as part of the installed Project capacity demonstrated under any other tender concluded by any Central or State Agency as on the last date of bid submission of this RfS.

1.10 Guidelines for Implementation of the RfS

This RfS document has been prepared based on the Guidelines for “Procurement and Utilization of Battery Energy Storage Systems as part of Generation, Transmission and Distribution assets, along with Ancillary Services”, issued by Ministry of Power vide Gazette Notification dated 10.03.2022 and subsequent amendments and clarifications issued thereto until the bid submission deadline for this RfS. SECI has issued this RfS in the capacity of “Intermediary Procurer” as defined in the aforementioned Guidelines.

## 2 Invitation for Bids

- 2.1 A Single Stage, Two-Envelope competitive Bidding Procedure will be adopted and will proceed as detailed in this document. The respective rights of SECI and the Bidder/BESSD shall be governed by the RfS Documents/Agreements signed between SECI and the BESSD.
- 2.2 Interested bidders have to necessarily register themselves on the portal <https://www.bharat-electronictender.com> (“ETS portal”) through M/s Electronic Tender.com (India) Pvt. Limited 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 Electronic Tender.com (India) Pvt. Limited, New Delhi to complete the registration formalities. Contact details of ISN-ETS is mentioned on the Bid Information Sheet. All required documents and formalities for registering on ISN-ETS are mentioned in the subsequent RfS 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.

For proper uploading of the bids on the ETS 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. Limited directly, as and when required, for which contact details are also mentioned on the Bid Information Sheet. 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 the Bidding Documents.

- 2.3 Bidders should submit their bid proposal complete in all aspect on or before last date and time of Bid Submission as mentioned on ISN-ETS Portal (<https://www.bharat-electronictender.com>), SECI website <http://www.seci.co.in> and as indicated in the Bid Information Sheet.
- 2.4 Bidder shall submit bid proposal along with non-refundable RfS Document Fees and Bid Processing Fees and Earnest Money Deposit (EMD) complete in all respect as per the Bid Information Sheet. Bid proposals received without the stipulated RfS Document Fees, Bid Processing Fees and EMD, will be rejected. **In the event of any date indicated being declared a holiday, the next working day shall become operative for the respective purpose mentioned herein.**
- 2.5 RfS documents which include Eligibility Criteria, Technical Specifications, various Conditions of Contract, Formats etc. can be downloaded from the ISN-ETS Portal or from SECI’s website. It is mandatory to download official copy of the RfS Document from Electronic Tender System (ISN-ETS) Portal to participate in the Tender. Any amendment(s)/corrigendum(s)/clarification(s) with respect to this RfS shall be uploaded on ISN-ETS website. The Bidder should regularly check for any



Amendment(s)/Corrigendum(s)/Clarification(s) on the above mentioned ISN-ETS website. The same may also be uploaded on SECI website also. However, in case of any discrepancy, the information available on ISN-ETS website shall prevail.

2.6 In case the RfS provides provision for multiple bids by a common bidder, then separate Bid Processing Fees and Document Fees shall be furnished for all the bids as listed out in the RfS along with the response to RfS. Kindly refer the Clause of Bid Information Sheet for details.

2.7 SECI shall conduct e-Reverse Auction (e-RA) as per provisions of RfS documents.

2.8 SECI reserves the right to cancel/ withdraw/ defer this invitation for bids without assigning any reason and shall bear no liability whatsoever consequent upon such a decision.

2.9 **Interpretations**

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

## SECTION 2. SPECIAL CONDITIONS OF CONTRACT

### 3 *Scope of Work*

- 3.1 Under this RfS, the BESSD shall be required to set up a Battery Energy Storage System (BESS), with the primary objective of making the energy storage facility available to SECI/Buying Entities for charging/discharging of the BESS, on an “on demand” basis. Detailed criteria for performance are elaborated in Clause 8 of the RfS.
- 3.2 Setting up of the BESS and interconnection of the BESS with the ISTS network will be under the scope of the BESSD. This RfS is technology agnostic on the nature of battery storage system being opted by the BESSD, as long as it meets the definition of BESS under this RfS and the required performance criteria under the RfS and BESPA.
- 3.3 The BESS may be charged by any source of energy (“BESS charging source”), including conventional energy sources. Ownership of such energy source is not mandatory to be held by the BESSD. For the capacity under contract with SECI, Charging and discharging of the system will be under the scope of the Buying Entity.
- 3.4 After the expiry of the Term of the BESPA, , the Project will be transferred to SECI in working condition with defined energy throughput at the end of the term on a “as is where is” basis, in line with the provisions of the BESPA.

### 4 *Total capacity offered and Project sizing*

- 4.1 Selection of BESS Projects for a total capacity of 1000 MWh will be carried out through e-bidding followed by e-Reverse Auction process.
- 4.2 Selection of Project Developers will be carried out based on the Contracted Capacity quoted by the Bidders. In this context, the term “Project” used anywhere in the RfS, BESPA and BESSA, will solely mean the BESS, set up by the BESSD to make available the Contracted Capacity as agreed to in the BESPA.
- 4.3 For a specified Contracted Capacity, any oversizing of the BESS over the minimum rated Energy capacities required under this RfS is left to the discretion of the BESSD. However, it is to be noted that, at the time of commissioning, rated capacity of the BESS (Power and Energy) to be installed as indicated in the BESPA, will be verified.

### 5 *Maximum Contracted Capacity Allocation for a Bidder*

Following conditions shall be applicable to the Bidders for submission of bids against this RfS:

- 5.1 The total capacity of 500 MW/1000 MWh shall be set up at a single location, with two Projects each of 500 MWh (250 MW x 2 hrs) capacity to be set up at the identified location. A Bidder, including its Parent, Affiliate or Ultimate Parent or any Group Company shall submit a single bid offering a Contracted Capacity of either **one project, (250MW/500 MWh)** or **2 projects (2X (250 MW/500 MWh))**, in the prescribed formats.