



# **Request for Selection (RfS) Document for Selection of Solar Power Developers for Setting up of Grid-Connected Floating Solar PV Projects with Battery Energy Storage System (BESS) in Lakshadweep under RESCO Mode Through Tariff Based Competitive Bidding**

**RfS No. SECI/C&P/IPP/11/0025/24-25 dated 05.03.2025**

Tender Search Code on ISN-ETS: SECI-2025-TN000003

***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](mailto:contracts@seci.co.in)***

## DISCLAIMER

- I. 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 (empaneled) 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).
- II. Solar Energy Corporation of India Ltd (SECI) reserves the right to modify, amend or supplement this document.
- III. This RfS document has been prepared in good faith, and on best endeavor 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.
- IV. 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: 05.03.2025

## 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>	Selection of Solar Power Developers for setting up of Grid-Connected Floating Solar PV Projects with Battery Energy Storage System (BESS) on the lagoons of Agatti and Kavaratti Islands of Lakshadweep under RESCO Mode. i. 0.95 MW at Agatti Island ii. 1.75 MW at Kavaratti Island					
<b>(B)</b>	<b>RfS NO. &amp; DATE</b>	SECI/C&P/IPP/11/0025/24-25 dated 05.03.2025					
<b>(C)</b>	<b>TYPE OF BIDDING SYSTEM</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 5px;">SINGLE BID SYSTEM</td> <td style="width: 50%; text-align: center; padding: 5px;"><input style="width: 80%;" type="text"/></td> </tr> <tr> <td style="text-align: center; padding: 5px;">TWO BID SYSTEM</td> <td style="text-align: center; padding: 5px;"><input style="width: 80%;" type="text" value="Yes"/></td> </tr> </table>		SINGLE BID SYSTEM	<input style="width: 80%;" type="text"/>	TWO BID SYSTEM	<input style="width: 80%;" type="text" value="Yes"/>
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<b>(D)</b>	<b>TYPE OF RfS/ TENDER</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 5px;">E-TENDER</td> <td style="width: 50%; text-align: center; padding: 5px;"><input style="width: 80%;" type="text" value="Yes"/></td> </tr> <tr> <td style="text-align: center; padding: 5px;">MANUAL</td> <td style="text-align: center; padding: 5px;"><input style="width: 80%;" type="text"/></td> </tr> </table>		E-TENDER	<input style="width: 80%;" type="text" value="Yes"/>	MANUAL	<input style="width: 80%;" type="text"/>
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MANUAL	<input style="width: 80%;" type="text"/>						
<b>(E)</b>	<b>COMPLETION/ CONTRACT PERIOD</b>	As mentioned in RfS Document					
<b>(F)</b>	<b>BID PROCESSING FEE</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 5px;">APPLICABLE</td> <td style="width: 50%; text-align: center; padding: 5px;"><input style="width: 80%;" type="text" value="Yes"/></td> </tr> <tr> <td style="text-align: center; padding: 5px;">NOT APPLICABLE</td> <td style="text-align: center; padding: 5px;"><input style="width: 80%;" type="text"/></td> </tr> </table> <p>Amount: INR 6,000/- (Indian Rupees Six Thousand Only) including GST, to be submitted either through NEFT/RTGS transfer in the account of SECI, or in the form of DD/Pay Order along with the response to RfS in favor of “Solar Energy Corporation of India Ltd”, payable at New Delhi.</p>		APPLICABLE	<input style="width: 80%;" type="text" value="Yes"/>	NOT APPLICABLE	<input style="width: 80%;" type="text"/>
APPLICABLE	<input style="width: 80%;" type="text" value="Yes"/>						
NOT APPLICABLE	<input style="width: 80%;" type="text"/>						

(G)	<b>EARNEST MONEY DEPOSIT (EMD)</b>	APPLICABLE	<input type="text" value="Yes"/>
		NOT APPLICABLE	<input type="text"/>
		In line with Clause 14 of the RfS, to be submitted in the form of Bank Guarantee/Payment on Order Instrument/Insurance Surety Bond, along with the Response to RfS.	
(H)	<b>PERFORMANCE BANK GUARANTEE</b>	APPLICABLE	<input type="text" value="Yes"/>
		NOT APPLICABLE	<input type="text"/>
(I)	<b>DATE, TIME &amp; VENUE OF PRE-BID MEETING</b>	To be scheduled as per NIT on ISN-ETS portal and/or information provided on SECI website.	
(J)	<b>OFFLINE &amp; ONLINE BID-SUBMISSION DEADLINE</b>	As per NIT on ISN-ETS portal	
(K)	<b>TECHNO-COMMERCIAL BID OPENING</b>	As per NIT on ISN-ETS portal	
(L)	<b>e-REVERSE AUCTION (e-RA)</b>	Not Applicable	
(M)	<b>CONTACT DETAILS OF ISN-ETS PORTAL</b>	<b>M/s Electronic Tender.com (India) Pvt. Ltd.</b> 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	
(N)	<b>NAME, DESIGNATION, ADDRESS AND OTHER DETAILS (FOR SUBMISSION OF RESPONSE TO RfS)</b>	Sh. Atulya Kumar Naik Executive Director (Contracts & Procurement) Solar Energy Corporation of India Limited 6th Floor, Plate-B, NBCC Office Block Tower-2, East Kidwai Nagar, New Delhi - 110023 Contact No.: 011 24666200 Email: <a href="mailto:contracts@seci.co.in">contracts@seci.co.in</a>	

(O)	<b>DETAILS OF PERSONS TO BE CONTACTED IN CASE OF ANY ASSISTANCE REQUIRED</b>	1) Sh. Pratik Prasun Senior Manager (C&P) Ph: 011-24666237 <a href="mailto:pratikpr@seci.co.in">pratikpr@seci.co.in</a> 2) Sh. Abhisekh Srivastav Manager (C&P) Ph: 011-24666260 <a href="mailto:abhisekhsri@seci.co.in">abhisekhsri@seci.co.in</a> 3) Sh. Swapnil Gandhi Senior Engineer (C&P) Ph: 011-24666359 <a href="mailto:swapnil.gandhi@seci.co.in">swapnil.gandhi@seci.co.in</a> 4) Ms. Arya Sharma Executive Trainee (C&P) Ph: 011-24666293 <a href="mailto:arya.sharma@seci.co.in">arya.sharma@seci.co.in</a>
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- 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.
- Bidders are required to quote strictly as per terms and conditions of the RfS documents and not to stipulate any deviations/ exceptions.
- 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.
- 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 One of the targets enshrined by the Government under the “Panchamrit” announced by Hon’ble Prime Minister at the COP 26 summit in Glasgow, is meeting 50% of total energy requirements from renewable energy by 2030. As part of these initiatives, SECI has been approached by Lakshadweep Energy Development Authority (LEDA) to carry out the bidding and selection of Project developers through a competitive bidding process, to set up Projects under RESCO mode.
- 1.3 SECI has been designated as the Nodal Agency for implementation of RE projects/plan for Greening of Lakshadweep Islands in Developer mode vide order dated 16<sup>th</sup> September 2022 issued by MNRE.
- 1.4 In line with the above, on behalf of Lakshadweep Energy Development Agency, UT of Lakshadweep Administration (herein after called as “LEDA”), SECI invites proposals for setting up of Grid Connected Floating Solar PV Projects with Battery Energy Storage System (BESS) in RESCO mode, at Agatti and Kavaratti Islands of Lakshadweep.
- 1.5 Lakshadweep Electricity Department (herein after called as “LED”) shall enter into a Power Purchase Agreement (PPA) with the successful Bidders selected based on this RfS for purchase of Solar Power for a period of 25 years based on the terms, conditions and provisions of the RfS and PPA. The standard PPA document is available for download from the ISN-ETS portal <https://www.bharat-electronictender.com>.
- 1.6 The Bidders will be free to avail fiscal incentives like Accelerated Depreciation, Concessional Customs and Excise Duties, Tax Holidays etc. as available 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.
- 1.7 No separate Central Financial assistance is envisaged for implementation of the projects

selected under this RfS.

## **2** *Invitation for Bids*

- 2.1 A Single Stage, Two-Envelope Bidding Procedure will be adopted and will proceed as detailed in the RfS Documents. Bidding will be conducted through the competitive bidding procedures as per the provisions of this RfS. The respective rights of LEDA/LED and the Bidder/SPD shall be governed by the RfS Documents/Agreement signed between LED and the SPD for the Project.
- 2.2 Solar Energy Corporation of India Limited (hereinafter called “SECI”), invites Techno Commercial & Price Bid from the prospective bidders to participate in this Tender enquiry for the requirement of **“Setting up of Grid-Connected Floating Solar PV projects with Battery Energy Storage System (BESS) on the lagoons of Agatti and Kavaratti Islands of Lakshadweep under RESCO mode through tariff-based competitive bidding.”**
- 2.3 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.

- 2.4 Bidder shall submit its proposal along with non-refundable Bid Processing Fees and Earnest Money Deposit (EMD) (if applicable) complete in all respect as per the Bid Information Sheet. Techno-Commercial bids will be opened as per the Bid Information Sheet in online presence of authorized representatives of bidders who wish to be present online. Bid proposals received without the Bid Processing Fees and/or Earnest Money Deposit (EMD) (as applicable) 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.**

RfS documents which include Eligibility Criteria, Technical Specifications, various Conditions of Contract, and 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.

- 2.5 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.

## **2.6 INTERPRETATIONS**

- Words comprising the singular shall include the plural & vice versa.
- An applicable law shall be construed as reference to such applicable law including its amendments or re-enactments from time to time.
- A time of day shall save as otherwise provided in any agreement or document be construed as a reference to Indian Standard Time.
- 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.
- 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 Solar Power Developer (SPD) shall be required to set up Grid-Connected Floating Solar PV (FSPV) Projects with BESS, with the primary objective of supplying Solar Power to LED, as per the provisions of the RfS and draft standard Power Purchase Agreement (PPA).
- 3.2 The Projects shall be set up under the RESCO Mode as defined by MNRE. The scope of Work of the SPD, inter alia, includes all design & engineering, procurement & 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, licenses, installation and incidentals, insurance at all stages, erection, testing, commissioning, obtaining No Objection Certificate (NOC) for grid connectivity (if required) and synchronization with existing Distribution Network Grid for individual Grid Interactive Floating Solar PV Power projects having cumulative capacity of 2.7 MW (AC) with BESS at two (02) locations.
- 3.3 Obtaining Grid Connectivity of the Project under this tender would be the responsibility of the bidder in accordance with the prevailing guidelines of the respective State Regulators (JERC/SERC) or Central Electricity Authority (CEA) or the DISCOM in the respective area. LEDA/LED could facilitate connectivity and necessary approvals; however, the entire responsibility lies with the SPD only.
- 3.4 The SPD shall take all necessary Permits, Approvals and Licenses, Insurance etc., provide training and such other items and services required to complete the scope of work mentioned above.
- 3.5 The SPD shall abide by all Statutory Laws, By Laws, Labour Laws, Factory laws, etc.
- 3.6 The Projects to be selected under this scheme provide for deployment of Solar Photovoltaic Technology. However, the selection of Projects would be technology agnostic.
- 3.7 The detailed Scope of Work, Technical Specifications & Standards for Grid-Connected Floating Solar PV Power Projects is enclosed in Annexure-B.

### **4** *Total capacity offered*

Selection of Grid-Connected Floating Solar PV Power Projects for a cumulative capacity of **2.7 MW** will be carried out through e-bidding process. The projects will be constructed on the Islands of Lakshadweep as per the following details:

S. No.	Name of the Project/ Island	Project Rated Capacity (MW)	Solar PV- AC Capacity (MW)	Minimum DC capacity (MWp)	Minimum BESS Capacity
1	Agatti	0.95	4.00	5.20	2.5 MW, 16 MWh
2	Kavaratti	1.75	5.00	6.00	2.5 MW, 16 MWh

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

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

- 5.1 A total of 2 Projects will be allocated under this tender, as specified at clause 4 above. A Bidder, including its Parent, Affiliate or Ultimate Parent or any Group Company shall submit a single bid offering tariff, separately, for maximum 02 projects.

**Note:** In case a common Company/Companies directly or indirectly hold(s) more than 10% but less than 26% shareholding in more than one Bidder participating in the RfS, each one of such Bidders will be required to submit the Disclosure as per Format 7.8A. In all other cases, Format 7.8 will be applicable.

- 5.2 The maximum capacity that will be allocated to a Bidder including its Parent, Affiliate or Ultimate Parent or any Group Company shall be limited to the cumulative capacity of the said 2 projects.
- 5.3 The evaluation of bids shall be carried out as described in Section-5 of the RfS. The methodology for allocation of projects is elaborated in Section-5 of the RfS.
- 5.4 Subject to the exception as per Clause 5.1 above, multiple bids from same company including its Parent/ Ultimate Parent/Affiliates/Group Companies shall make all the bids submitted by the group invalid.

## 6 *Project Location*

- 6.1 The Projects shall be installed at the designated locations on the lagoons of Agatti and Kavaratti islands. The projects shall be installed by the successful Bidder at its own cost, risk and responsibility. Floating Solar PV projects along with BESS to be installed on each Island of Lakshadweep shall be as per Clause 4.

To facilitate the Bidders, list of Islands of Lakshadweep with the details of the project has been enclosed as Annexure-B. Prospective Bidders may visit the respective sites and assess the feasibility of projects. However, the entire responsibility of identifying the site and supply the minimum energy requirement as per the RfS and PPA will be of the Successful Bidder. **SECI shall not bear any responsibility in this regard.**

## 6.2 **Project Configuration:**

The term “Project” shall have the meaning as defined in Section 4 of the RfS. PPA for each project will be signed separately.

## **7 *Connectivity with the Grid***

- 7.1 The Project should be designed for interconnection with the grid in accordance with prevailing SERC/JERC/DISCOM regulations in this regard. For interconnection with the grid and metering, the SPD shall abide by applicable Grid Code, Grid Connectivity Standards, Regulations on Communication System for transmission of electricity and other regulations/procedures (as amended from time to time) issued by Appropriate Commissions and Central Electricity Authority (CEA), and any other regulations of the concerned DISCOM where the Project is located.
- 7.2 The interconnection of each of the projects with the grid shall be as per connectivity details mentioned for each project/island mentioned in Annexure-B.
- 7.3 The responsibility of getting connectivity and necessary approvals for grid connection and metering shall entirely be with the SPD and shall be at the risk and cost of the SPD. The transmission of power up to, and including at the point(s) of interconnection where metering is done for energy accounting, shall be the responsibility of the SPD at its own cost. The maintenance of transmission system up to and including at the Interconnection Point shall be responsibility of the SPD, to be undertaken entirely at its risk and cost.
- 7.4 Metering arrangement of each Project shall have to be adhered to in line with relevant clauses of the PPA. The entire cost of transmission (if applicable) including cost of construction of line, wheeling charges, SLDC/Scheduling charges, SOC, MOC, maintenance, losses etc. and any other charges from the Project up to and including at the Interconnection Point will be borne by the SPD.

## **8 *Energy Supply by the Solar Power Developer***

### **8.1 Criteria for Energy Supply**

- 8.2 The Committed Annual Energy to be supplied from Projects to be set up in Islands of Lakshadweep by the Bidders is as follows:

S. No.	Name of the Project/Island	Committed Annual Energy Supply (MUs)
1	Agatti	6.85
2	Kavaratti	8.37

- 8.3 It shall be the responsibility of the SPD, entirely at its cost and expense to install such number of Solar panels and associated equipment as may be necessary to achieve the

required Annual Energy supply. For any Contract Year, except for the Contract Year ending on 31<sup>st</sup> March immediately after the date of commencement of power from the Project, the SPD shall annually supply minimum energy amounting to 90 % of the committed Annual Energy (i.e., lower limit) from the project as per table above, till the end of the PPA term. The lower limit will, however, be relaxable to the extent of non-availability of grid, during solar generation hours, for evacuation which is beyond the control of the SPD. The annual Energy Supply will be calculated every year from 1st April of the year to 31<sup>st</sup> March next year. Relaxation to the non-availability of grid beyond the control of SPD need to be certified by LED. Further, duly signed hindrance register shall be maintained during the time of execution and O&M.

#### 8.4 **Shortfall in Energy Supply**

Subsequent to Project commissioning, if for any Contract Year, except for the first year after Project commissioning, it is found that the SPD has not been able to supply energy within the permissible lower limit as per Clause 8.3 above, the penalty shall be levied on the SPD at the PPA tariff for the shortfall in energy terms, in accordance with provisions of the PPA.

### 9 *Commissioning of Projects*

Commissioning of the Project shall be carried out by the SPD in line with the procedure as per the PPA document. SECI/LEDA/LED may authorize any individual or committee or organization to witness and validate the commissioning procedure on site. Commissioning certificates shall be issued by the SECI/LEDA/LED after successful commissioning.

#### 9.1 **Commissioning Schedule and Liquidated Damages Not Amounting to Penalty for Delay in Commissioning**

- a. The Scheduled Commissioning Date (SCD), i.e. the deadline for commissioning the full Project capacity, shall be the date as on **30 months** from the Effective Date of PPA (for e.g. if Effective Date of the PPA is 04.06.2025, then SCD shall be 04.12.2027).
- b. The maximum time period allowed for commissioning of the full Project Capacity with applicable liquidated damages, shall be limited to the date as on **6 months** from the SCD or the extended SCD (if applicable) (for e.g. if SCD of the Project is 04.06.2027, then the above deadline for Project commissioning shall be 04.12.2027).
- c. In case of delay in commissioning of the Project beyond the SCD until the date as per Clause 9.1.b above, as part of the liquidated damages, the total PBG amount for the Project shall be encashed on per-day-basis. For example, in case of a Project of 1 MW capacity, if commissioning of full project capacity is delayed by 18 days beyond the SCD, then the liquidated damages shall be: PBG amount X (18/180). For

the purpose of calculations of the liquidated damages, ‘month’ shall be considered consisting of 30 days.

- d. In case Commissioning of the Project is delayed beyond the date as per Clause 9.1.b above, the PPA capacity shall stand reduced/amended to the Project Capacity commissioned and the PPA for the balance capacity will stand terminated.

## 9.2 Early Commissioning

The SPD shall be permitted for full commissioning of the Project even prior to the Scheduled Commissioning Date, subject to availability of connectivity. Early commissioning of the entire capacity of the Project will be allowed solely at the risk and cost of the SPD, and LED shall purchase the energy from such entire capacity of early commissioned Project at the PPA tariff. UCOD/COD of the Project under the PPA will be the date on which the commissioning certificate is issued upon successful commissioning of the full capacity of the Project.

## 10 *Operation & Maintenance (O&M) Guidelines to be mandatorily followed by the SPD*

- 10.1 The SPD shall be responsible for all the required activities for successful O&M of the Floating Solar PV project during the entire PPA term from the date of commissioning of the Project.
- 10.2 Following guidelines shall be followed in this regard. In addition, following O&M practices shall be strictly followed.
  - i. O&M of the Project shall be compliant with grid requirements to achieve committed energy generation.
  - ii. Deputation of qualified and experienced engineer/ technicians till the O&M period at project site.
  - iii. Periodic cleaning of solar modules. The modules shall be cleaned with a periodic interval of 15 days or as and when required as per actual site conditions. It's the responsibility of the SPD to get the modules cleaned during O&M Period.
  - iv. A “hindrance register” shall be maintained to record any issues affecting Project O&M. The same shall be duly signed by both parties of the PPA, recording
  - v. Periodic checks of the Modules, PCUs and BoS shall be carried out as a part of routine, preventive and breakdown maintenance.
  - vi. Replacement of defective Modules, Invertors/PCUs and other equipment, as and when required, will be carried out within 15 working days from the date of reporting of defect which can be extended based on the site accessibility, etc. as mutually agreed by the two parties.

- vii. Supply of all spares, consumables and fixtures as required. Such stock shall be maintained for all associated equipment and materials as per manufacturer's / supplier's recommendations.
- viii. All the testing instruments required for Testing, Commissioning and O&M for the healthy operation of the Plant shall be maintained by the SPD. The testing equipment must be calibrated once in a year from NABL accredited labs and the certificate of calibration must be kept for reference as required.
- ix. If negligence/ mal-operation on part of the SPD's operator results in failure of equipment, such equipment should be repaired/ replaced by the SPD free of cost.
- x. Co-ordination with LEDA/ LED as per the requirement for Joint Meter Reading (JMR) Report. The person-in-charge present at site from the SPD's side shall take a Joint Meter Reading in the presence of LEDA/LED on a monthly basis.
- xi. Online Performance Monitoring, controlling, troubleshooting, maintaining of logs & records. A maintenance record register is to be maintained by the operator with effect from Commissioning to record the daily generation, regular maintenance work carried out as well as any preventive and breakdown maintenance along with the date of maintenance, reasons for the breakdown, duration of the breakdown, steps taken to attend the breakdown, etc.
- xii. If any jobs covered in O&M Scope as per RfS are not carried out by the SPD during the O&M period, the LED/ LEDA shall take appropriate action as deemed fit. SECI reserves the right to make surprise checks/ inspection visits at its own or through authorized representative to verify the O&M activities being carried out by the SPD. Failure to adhere to above guidelines may result in penal action including debarring from participation in next tender.
- xiii. It is up to SPD and LED/ LEDA to mutually decide on the source and amount of water to be supplied for module cleaning during O&M period.