

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION COMPANY LTD.

REQUEST FOR SELECTION (RFS)

FOR PROCUREMENT OF SOLAR POWER FROM 1000 MW (100 MW X 10 CLUSTERS) GRID CONNECTED FLOATING SOLAR PV POWER PROJECT TO BE DEVELOPED ON UJJANI DAM IN SOLAPUR DISTRICT OF MAHARASHTRA, INDIA THROUGH COMPETITIVE BIDDING PROCESS FOLLOWED BY E - REVERSE AUCTION

RFS NO. MSEDCL/RE/1000 MW/FLOATING SOLAR/T-40 DATED 24.12.2018

(TENDER SEARCH CODE @ TCIL: MSEDCL-2018-TN000043)

ISSUED BY

Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL),
Renewable Energy Section, 5th Floor, 'Prakashgad', Bandra (East), Mumbai - 400 051

Website: www.mahadiscom.in

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Disclaimer:

1. Though adequate care has been taken while preparing the RfS document, the Bidders shall satisfy themselves that the document is complete in all respects. Intimation of any discrepancy shall be given to this office immediately. If no intimation is received from any Bidder within **fifteen (15) days from the date of notification of RfS/ Issue of the RfS documents**, it shall be considered that the RfS document is complete in all respects and has been received by the Bidder.
2. Maharashtra State Distribution Company Limited (MSEDCL) reserves the right to modify, amend or supplement this RfS document including the draft PPA.
3. While this RfS has been prepared in good faith, neither MSEDCL 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 RfS, even if any loss or damage is caused by any act or omission on their part.

Place : Mumbai

Date : 24.12.2018

Bid Information Sheet

Document Description	RfS Document for purchase of power through competitive bidding process (followed by reverse e-auction) from 1000 MW (100 MW X 10 clusters) grid connected floating solar PV power plant on Ujjani dam in Solapur District of Maharashtra, India.
RfS No.& Date	RFS NO. MSEDCL/RE/1000 MW/FLOATING SOLAR/T-40 DATED 24.12.2018
Downloading of tender documents	From 24.12.2018
Pre-bid Conference / Clarification Meeting	Date: 08.01.2019 Time: 11 AM Venue: 'Prakashgad', Bandra (East), Mumbai - 400 051 RSVP: Phone No: 022-26580645 Email ID: nctendermsedcl@gmail.com
Last Date & Time for Online Submission of Response to RfS and All documents as per Section 3.18 A physically at MSEDCL office, Mumbai	Date : 28.01.2019 Time: 5:00 PM
Technical Bid Opening	Date: 29.01.2019 Time : 11.00 AM
Financial Bid Opening and Reverse e-auction	Will be informed to bidders qualified after the technical evaluation of the submitted bid
Reverse Auction	Will be informed to bidders qualified after the technical evaluation of the submitted bid
Ceiling tariff	INR 3.00/ kWh
Cost of RfS Document (non-refundable)	Rs. 25,000/- plus 18% GST (to be submitted in the form of DD/Pay Order, along with the response to RfS in favour of "Maharashtra State Electricity Distribution Company Ltd",

	payable at Mumbai)
Processing Fee (non-refundable)	Rs. 3 Lakhs plus 18% GST, to be submitted in the form of DD/Pay Order along with the response to RfS in favour of “Maharashtra State Electricity Distribution Company Ltd”, payable at Mumbai).
EMD	Earnest Money @ Rs. 10 Lakh / MW is to be submitted in the form of Bank Guarantee along with the Response to RfS.
Name, Designation, Address and other details (For Submission of Response to RfS)	Chief Engineer (RE) Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL), Renewable Energy Section, 5th Floor, ‘Prakashgad’, Bandra (East), Mumbai - 400 051 Email – ncetendermsedcl@gmail.com Tel No. 022-26580645. Website – www.mahadiscom.in
Details of persons to be contacted in case of any assistance required	1) Mr. S. S. Rajput, Superintending Engineer (RE), Ph: 022-26474211 (Ext. 2322) 2) Mr. S. B. Mane Executive Engineer (RE) Ph: 022-26474211 (Ext. 2402)
Important Note: Prospective Bidders are requested to remain updated for any notices/amendments/clarifications etc. to the RfS document through the websites www.mahadiscom.in and www.tcil-india-electronictender.com . No separate notifications will be issued for such notices/amendments/clarifications etc. in the print media or individually.	

For conducting the e-bidding, MSEDCL is using the portal <https://www.tcil-indiaelectronictender.com> of Telecommunications Consultants India Limited (TCIL), which is a Government of India undertaking (e-bidding Portal). Bidders may register themselves online with TCIL (if they are not already registered), as ‘Supply organization/ Bidder’, by

paying 'Buyer-specific Annual Portal Registration Fee' to TCIL, through the payment gateway facility of the E-bidding Portal of INR 3,000 (Indian Rupees Three Thousand) (plus applicable taxes as indicated in the e-bidding Portal), and subsequently download the RfS and other Bid Documents from the E-bidding Portal.

It is further clarified that in case a Bidder intends to participate in tenders published by any other organization(s) on the E-bidding Portal, the 'Annual Portal Registration Fee' payable is INR 6,000 (Indian Rupees Six Thousand) (plus applicable taxes as indicated in the E-bidding Portal).

A Bidder, who is already validly registered on the E-bidding Portal need not register again on the E-bidding Portal.

Additionally, prior to the submission of the Proposal, Bidders are required to pay online non-refundable ETS bidding fee of INR 15,000 (Indian Rupees Fifteen Thousand only) (plus applicable taxes as indicated in the e-bidding Portal) through the payment gateway facility on the E-bidding Portal.

Further, after opening of Financial Bids, the Bidders who are qualified for e-reverse auction will get intimation through email from the TCIL portal. Within 1 hour from the receipt of such email, the qualified Bidders shall have to make payment of requisite fees of INR 15,000 (Indian Rupees Ten Thousand only) (plus applicable taxes as indicated in the e-bidding Portal) at TCIL Portal for participation in e-reverse auction and have to undertake necessary activities / procedures online at TCIL portal for user authorization etc for participating in the e-reverse auction by logging into TCIL portal. The bidders are expected to make themselves familiar with the above procedures well in advance in consultation with TCIL.

1 INTRODUCTION

1. Introduction

1.1 Introduction

- 1.1.1 The erstwhile Maharashtra State Electricity Board was looking after Generation, Transmission & Distribution of Electricity in the State of Maharashtra barring Mumbai. But after the enactment of Electricity Act 2003, MSEB was restructured into 4 Companies viz. MSEB Holding Co. Ltd., Maharashtra State Electricity Distribution Co. Ltd. (Mahavitaran / MSEDCL), Maharashtra State Power Generation Co. Ltd. (Mahagenco) and Maharashtra State Electricity Transmission Co. Ltd. (Mahatransco) on 6th June 2005. Maharashtra State Electricity Distribution Co. Ltd.
- 1.1.2 Government of Maharashtra, vide Resolution dated 20th July, 2015 has resolved the comprehensive grid connected renewable policy for development of 14400 MW power from new and renewable sources of energy in the State. It has been resolved to develop solar power projects of 7500 MW capacity. Out of which, 2500 MW capacity projects will be developed by MAHAGENECO in Public Private Partnership (PPP) mode and Ten percent (10%) of it shall be implemented at places available along the canals, lakes, water bodies of the Water Resources department or of the local government bodies. The remaining capacity of 5000 MW solar power projects will be developed by other developers.
- 1.1.3 The solar power projects can be developed on lands available with the Water Resources Department and on areas available near canals or above water body by the department itself or through private developers.
- 1.1.4 Further, considering the limitations of the availability of the land for the Solar Projects, and the scope for development of solar projects on the water surface of the rivers, sea, dams, the GoM appointed MSEDCL as implementing agency to set up a 1000 MW Floating Solar PV Power Plant on Ujjani Dam water reservoir in Solapur district of Maharashtra.
- 1.1.5 Accordingly, MSEDCL had invited expression of Interest (EoI) from interested parties for Floating Solar Project of 1000 MW at Ujjani Dam and asked to submit various information available regarding the floating solar project, technology details, clearances required, power evacuation, etc.
- 1.1.6 Also, GoM vide its Resolution dated 21st June, 2018 had set up a Committee to analyze, study and redress various issues and works involved, methodology for implementation, and any other related issues, which may arise during the implementation of Floating Solar power project of 1000 MW at Ujjani Dam, Solapur.
- 1.1.7 In order to fulfill the renewable power purchase obligation (RPO) and to meet the future requirements, MSEDCL intends to procure solar power up to capacity of 1000 MW on BOOT (Build Own Operate Transfer) basis through separate Competitive

Bidding Process [conducted through electronically facilitated online web-based portal followed by separate reverse auction].

- 1.1.8 Based on the recommendations of the committee, **10** locations have been finalized for implementation of 100 MW Capacity at each location and thus a cumulative capacity of 1000 MW floating solar power plant on Ujjani Dam. This RfS is for the development of Floating Solar Power Plant at Ujjani Dam and the clusters details are as follows:

Cluster No.	Location details		Nearby location along the flank	
	Lat	Long	Village	Flank
1	18.233950	75.106521	Between Chikhalthan And Dahigaon	LHS
2	18.226532	75.026956	Kugaon	LHS
3	18.241450	75.039745	Kugaon And Sogaon East	LHS
4	18.255022	75.007044	Near Goyegaon	LHS
5	18.256306	74.870358	Between Pomalwadi And Takali (R)	LHS
6	18.202521	75.075064	Between Takali No.1 And Padasthal	RHS
7	18.190617	75.030604	Between Kalthan No.2 And Padasthal	RHS
8	18.206109	75.003653	Near Kalthan No.1	RHS
9	18.266402	74.939194	Near Chandgaon	RHS
10	18.236518	74.877396	Between Chandgaon And Palasdeo	RHS

The Bidders shall develop a floating solar power plant along with the EHV pooling substation and the entire necessary evacuation infrastructure from the floating solar power plant till the nearest EHV substation of MSETCL/STU at the above specified location as per provisions of Clause 3.2.2. The evacuation infrastructure from the delivery point up to the nearest EHV substation of MSETCL/STU shall be transferred to MSETCL/STU after the construction of such infrastructure is completed.

Further, the successful bidder selected to develop the 100 MW floating solar power project at the location specified in this RfS may choose to develop the EHV pooling substation along with other successful bidder(s) who is/are selected to develop 100 MW floating solar power project at nearby location(s) subject to the prior approval of MSETCL/STU for such connectivity arrangement.

1.2 Details of Power Procurement

- 1.2.1 The bidders selected by MSEDCL based on this RfS, shall set up Solar Power Projects in accordance with the provisions of this RfS document and standard Power Purchase Agreement (PPA). PPA format has been enclosed and can be downloaded from <https://www.tcil-india-electronictender.com>

- 1.2.2 A detailed indicative list providing tentative RE integration capacity (MW) available at different sub-stations in proximity to the Ujjani dam water reservoir has been

provided in Annexure XX of this bidding document.. Bidders shall have to choose the sub-station(s) for their proposed Solar Power Project from the above list.

- 1.2.3 MSEDCL shall enter into PPA with successful bidders for a period of 25 years from the Scheduled Commercial Operation Date (SCOD) of the project. The maximum tariff payable to selected bidder shall be fixed for 25 years from the scheduled commercial operation date of the project, as discovered through the e-bidding and e-Reverse Auction conducted vide this RfS. **The maximum tariff payable to the project developer is fixed at INR 3.00/ kWh for the PPA term.** The bidders will be free to avail fiscal incentives like Accelerated Depreciation, Concessional Customs and Excise Duties, Tax Holidays, benefits from trading of carbon credits, 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 MSEDCL for any liability if bidders are not able to avail fiscal incentives and this will not have any bearing on the applicable tariff
- 1.2.4 In case of import of energy during a month, the successful bidder shall be required to make payment to MSEDCL at prevailing HT Industrial Tariff rate as determined by MERC from time to time.

1.3 Eligible Projects

- 1.3.1 The Projects to be selected under this RfS for capacity of 1000 MW to be installed at 10 different clusters of 100 MW each on Ujjani Dam water reservoir in the Solapur district, Maharashtra, India specified in this RfS, provide for deployment of Floating Solar PV Projects. The selection of solar PV modules would be technology agnostic to suit the floating solar projects where humidity levels are high and moisture ingress is more. The modules with suitable quality back sheets, glass to glass packed modules or any modules with suitable technology (anchoring/ mooring systems) shall be used. The floats, modules used shall have proven design and demonstrated performance. Crystalline silicon or thin film etc., with or without trackers can be installed. Only commercially established and operational technologies can be used to minimize the technology risk and to achieve timely commissioning of the Projects
- 1.3.2 The Successful bidders shall develop floating solar PV power project of capacity as quoted by the bidder in the bidding process subject to the conditions specified in Section 3.2 of this RfS.

1.4 Contingency Fund

- 1.4.1 A contingency fund shall be maintained with MSEDCL for clearance of project site or to meet any other eventuality/emergency situations after completion of 25 years or useful life of the project.

- 1.4.2 A part of the tariff i.e. Rs.0.02/kWh, discovered through the competitive bidding process, shall be allocated for creation of such fund. The bidder shall keep this part of tariff in consideration while bidding. The successful bidders shall submit their monthly invoice as per their actual generation and the tariff as per their PPA which is inclusive of above-mentioned tariff component for contingency fund i.e. Rs.0.02/kWh. However, MSEDCL shall process payment towards such invoices after deducting the tariff component towards contingency fund i.e. Rs.0.02/kWh.
- 1.4.3 In the event of a Force Majeure Event, the FSPD shall ensure that the floating solar power project is reinstated to its original operating condition with no additional cost burden on MSEDCL. The FSPD shall follow all Prudent Utility Practices and shall also take necessary Insurance Covers against all the risks associated with the project.

2 DEFINITIONS

2. Definitions

Following terms used in the document will carry the meaning and interpretations as described below:

"Act" or "Electricity Act, 2003" shall mean the Electricity Act, 2003 and include any modifications, amendments and substitution from time to time;

"Affiliate" in relation to a Company shall mean a person who

- (i) controls, or
- (ii) is controlled by, or
- (iii) is under common control with, a Company developing a Project or a Member in a Consortium developing the Project and control means ownership by one Company with at least 26% (twenty-six percent) of the voting rights/ paid up share capital of the other Company.

"Bidder" shall mean Bidding Company or a Limited Liability Company (LLC) or a Bidding Consortium submitting the Bid. Any reference to the Bidder includes Bidding Company/ LLC/Bidding Consortium/Consortium Member of a Bidding Consortium including its successors, executors and permitted assigns and Lead Member of the Bidding Consortium jointly and severally, as the context may require.;

"Bid Capacity" means the quantum of floating solar project proposed by a bidder in its bid.

"Bidding Consortium" or "Consortium" refers to a group of Companies that has collectively Submitted the response in accordance with the provisions of these guidelines.

"Capacity Utilization Factor (CUF)" shall have the same meaning as provided in CERC (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2009 as amended from time to time;

"Chartered Accountant" for bidders or its Parent, Affiliate or Ultimate Parent or any Group Company incorporated in India, **"Chartered Accountant"** shall mean a person practicing in India or a firm whereof all the partners practicing in India as a Chartered Accountant(s) within the meaning of the Chartered Accountants Act, 1949; For bidders or its Parent, Affiliate or Ultimate Parent or any Group Company incorporated in countries other than India, "Chartered Accountant" shall mean a person or a firm practicing in the respective country and designated / registered under the corresponding Statutes/laws of the respective country.;

"CERC" shall mean Central Electricity Regulatory Authority

"Company" shall mean a body corporate incorporated in India under the Companies Act, 1956 or the Companies Act, 2013, as applicable;

"Commissioning" with respect to the Project as certified by SLDC/MSEDCL/MSETCL shall mean when all equipments as per rated capacity has been installed and energy has flown into the grid.

"Commercial Operation Date" shall mean the date on which the Project/ Unit is commissioned (certified by SLDC/MSEDCL/MSETCL) and available for commercial operation for which the Successful Bidders shall have to provide a written notice to MSEDCL at least 30 days in advance.

"Contracted Capacity" shall mean the capacity (in MW AC) contracted with MSEDCL for supply by the successful bidder at the Delivery Point from the Floating Solar Power Project.

"Contract Year" shall mean, with respect to the initial Contract Year, the period beginning on the Commercial Operation Date and ending at 12.00 midnight on 31st March of that Fiscal Year. Each successive Contract Year shall coincide with the succeeding Fiscal Year, i.e., a period of twelve months commencing on April 1 and ending on following March 31, except that the final Contract Year shall end on the date of expiry of the Term or on Termination of this Agreement whichever is earlier.

"Control" shall mean the ownership, directly or indirectly, of more than 50% (fifty per cent) of the voting shares of such Company or right to appoint majority Directors

"Controlling shareholding" shall mean not less than 51% of the voting rights or paid up share capital in the Company/Consortium.

"CTU or Central Transmission Utility" shall mean the Power Grid Corporation of India Limited.

"Day" shall mean calendar day.

"Discom" means Maharashtra State Distribution Company Limited,

"Delivered Energy" means the kilowatt hours of Electricity actually fed and measured by the energy meters at the Delivery Point and as certified by MSEDCL/MSETCL/SLDC.

"Delivery Point / Interconnection Point" shall be the point or points of connection at which Electricity is delivered into the Grid System i.e. the interconnection point at the LV side (33 kV) of the EHV pooling substation of the FSPD.

"Electricity" shall mean the electrical energy in kilowatt-hours.

"Electricity Laws" shall mean the Electricity Act, 2003 and the relevant rules, notifications, and amendments issued thereunder and all other Laws in effect from time to time and applicable to the development, financing, construction, ownership, operation or maintenance or regulation of electric generating companies and Utilities in India, the rules, regulations and amendments issued by CERC/ MERC from time to time.

"Effective Date" shall mean the date of execution of Power Purchase Agreement (PPA) by both the parties;

"Financial Closure" or "Project Financing Arrangements" means arrangement of necessary funds by FSPD either by way of commitment of funds by the Company from its internal

resources and/or tie up of funds through a bank / financial institution by way of a legally binding agreement for commitment of such finances.

"Financing Documents" shall mean the agreements and documents (including asset leasing arrangements) entered/to be entered into between the bidder and the Financing Parties relating to the financing of the Project.

"Financing Parties" means Parties financing the Project, pursuant to Financing Documents.

"Floating Solar" means a floating solar array or floating solar farm, refers to an array of photovoltaic panels on a structure that floats on a body of water, typically a reservoir or lake;

"FSPD" shall mean a Bidding Company or a Bidding Consortium participating in the bid and having been selected and allocated the Floating solar capacity by MSEDCL through a competitive bidding process.

"Group Company" of a Company means

- (i) a Company which, directly or indirectly, holds 10% (ten percent) or more of the share capital of the company, or
- (ii) a company in which the company, directly or indirectly, holds 10% (ten percent) or more of the share capital of such company, or
- (iii) company in which the company, directly or indirectly, has the power to direct or cause to be directed the management and policies of such company whether through the ownership of securities or agreement or any other arrangement or otherwise, or
- (iv) a company which, directly or indirectly, has the power to direct or cause to be directed the management and policies of the Company whether through the ownership of securities or agreement or any other arrangement or otherwise, or
- (v) a company which is under common control with the company, and control means ownership by one company of at least 10% (ten percent) of the share capital of the other company or power to direct or cause to be directed the management and policies of such company whether through the ownership of securities or agreement or any other arrangement or otherwise.

Provided that a financial institution, scheduled bank, foreign institutional investor, non-banking financial company, and any mutual fund shall not be deemed to be Group Company, and its shareholding and the power to direct or cause to be directed the management and policies of a company shall not be considered for the purposes of this definition unless it is the Project Company or a Member of the Consortium developing the Project.

"Insurance Cover" shall mean the aggregate of the maximum sums insured under the insurances taken out by the Floating Solar Project Developer (FSPD) for the Project, and shall include all insurances required to be taken out by the (FSPD) in terms of the Prudent Utility Practices but not actually taken, and when used in the context of any act or event, it shall

mean the aggregate of the maximum sums insured and payable or deemed to be insured and payable in relation to such act or event;

“Lead Member of the Bidding Consortium” or “Lead Member”: There shall be only one Lead Member, having shareholding more than 51% in the Bidding Consortium which cannot be changed till 1 year from the Commercial Operation Date (COD) of the Project.

“Letter of Award” or “LOA” shall mean the letter issued by Maharashtra State Electricity Distribution Company Ltd. (MSEDCL) to the Selected Bidder for award of the Project.

“Limited Liability Partnership” or “LLP” shall mean a Company governed by Limited Liability Partnership Act 2008 or as amended.

“LLC” shall mean Limited Liability Company.

“Member in a Bidding Consortium” or “Member” shall mean each Company in a Bidding Consortium. In case of a Technology Partner being a member in the Consortium, it has to be a Company.

“MERC” shall mean Maharashtra Electricity Regulatory Commission.

“MEDA” shall mean Maharashtra Electricity Development Agency.

“Metering Point” shall mean the point at which energy shall be measured and supplied to MSEDCL and shall be at the LV side (33 kV) of the EHV pooling substation.

“Month” shall mean calendar month.

“Net-Worth” means the Net-Worth as defined in Section 2 of the Companies Act 2013.

“Paid-up share capital” shall include:

- (i) Paid-up equity share capital
- (ii) Fully, compulsorily and mandatorily convertible Preference shares
- (iii) Fully, compulsorily and mandatorily convertible Debentures.

“Part Commissioning” shall mean a part of the Solar PV Capacity (AC MW) commissioned as per Section 3.13.1.

“Parent” means a company, which holds not less than 51% equity either directly or indirectly in the Project Company or a Member in a Consortium developing the Project;

“Performance Bank Guarantee” shall mean the irrevocable unconditional bank guarantee to be submitted by the successful bidder as per Section 3.8.4.

“PPA” shall mean the Power Purchase Agreement signed between the successful bidder and MSEDCL according to the terms and conditions of the standard PPA enclosed with this RfS;

“Project” shall mean a Floating Solar Photovoltaic Grid Interactive Power Station to be established by the successful bidder on Ujjani Dam, Maharashtra comprising of number of units at single/multiple locations, and shall include land, buildings, plant, machinery,

ancillary equipment, material, switch-gear, transformers, protection equipment and the like necessary to deliver the Electricity generated by the Project to MSEDCL at the Delivery Point.

“Project Site” means any and all parcels of real property, rights-of-way, easements and access roads located in Maharashtra, upon which the Project and its related infrastructure will be located.

“Project Capacity” means the AC capacity of the project at the generating terminal(s) and to be contracted with MSEDCL for supply from the Solar Power Project.

“Prudent Utility Practices” shall mean the practices, methods and standards that are generally accepted internationally from time to time by electric utilities / solar power generators for the purpose of ensuring the safe, efficient and economic design, construction, commissioning, operation and maintenance of solar power stations and power generation equipment and which practices, methods and standards shall be adjusted as necessary, to take account of the:

- (i) operation and maintenance guidelines recommended by the manufacturers of the Power Station and equipment to be incorporated in the Project;
- (ii) the requirements of Applicable Law; and the
- (iii) physical conditions at the Power Project Land;

“RfS Document” shall mean the bidding document issued by MSEDCL including all attachments, clarifications and amendments thereof.

“SCADA” means the Supervisory Control and Data Acquisition System (SCADA) installed for recording and transferring the online data.

“SCOD” or “Scheduled Commercial Operation Date” shall mean the date as declared by the Successful Bidder in the PPA which shall not exceed 21 (twenty one) months from the date of execution of the PPA.

“SEA” means the State Energy Account issued by State Load Dispatch Centre, Maharashtra and amendment thereto.

“Selected Bidder or Successful Bidder” shall mean the Bidder selected pursuant to this RfS to set up the Project and supply electrical output as per the terms of PPA.

“SLDC” means the State Load Dispatch Center as notified by the State Government.

“Solar PV Project” means the solar Photo Voltaic Power project that uses sunlight for direct conversion into electricity through Photo Voltaic technology.

“SNA” means the State Nodal Agency.

“STU or “State Transmission Utility” or “Mahatransco” shall mean the Maharashtra State Electricity Transmission Company Limited (MSETCL).

“TOE” shall mean Tender Opening Event.

“Ultimate Parent” shall mean a Company, which owns not less than fifty-one percent (51%) equity either directly or indirectly in the Parent and Affiliates.

“Unit” shall mean one set of Solar Photovoltaic Grid Interactive power plant and all the auxiliary equipment and facilities, required to constitute a solar Project.

“Voltage of Delivery” means the voltage at which the Electricity generated by the Project is required to be delivered to the MSEDCL.

“Week” shall mean calendar week.

“WRD” means the Water Resource Department of Maharashtra.

3 BID INFORMATION AND INSTRUCTION TO BIDDERS

3. BID INFORMATION AND INSTRUCTION TO BIDDERS

3.1 Obtaining RfS Document, Cost of Documents & Processing Fees

- 3.1.1 The RfS document can be downloaded from the website of TCIL <https://www.tcil-india-electronictender.com> A link of the same is also available at www.mahadiscom.in Interested bidders have to download the official copy of RfS & other documents after logging into the TCIL website by using the Login ID & Password provided by TCIL during registration (Refer Annexure – D).
- 3.1.2 The bidders shall be eligible to submit / upload their response to bid document only after logging into the <https://www.tcil-india-electronictender.com> and downloading the official copy of RfS.
- 3.1.3 Prospective Bidders interested to participate in the bidding process are required to submit their Project proposals in response to this RfS document along with a non-refundable processing fee as mentioned in the Bid Information Sheet. The bids submitted without cost of the RfS document and/or Processing Fee and/or Bank Guarantee against EMD, shall not be considered for the bidding and such bids shall not be opened by MSEDCL.

3.2 Capacity Offered & Project Scope

3.2.1 Total Capacity Offered

Total 1000 MW capacity under this RfS is divided into 10 clusters of 100 MW each.

The selection of Grid-connected Floating Solar PV Projects for capacity of 100 MW for each cluster will be carried out through e-bidding followed by e-Reverse Auction process.

3.2.2 Capacity Allocation

The modality for allocation of the 1000 MW (10 clusters of 100 MW each) floating solar project shall be as under:

- (i) Selection of Grid Connected Floating Solar Power Projects for capacity of 1000 MW (10 clusters of 100 MW each) will be carried out through e-bidding followed by e-Reverse Auction process. There will be 10 separate e-reverse auction process for each 100 MW cluster. The Project will be developed at the location specified in Clause 1.1.8 and Clause 3.2.3 on Ujjani Dam, Solapur District, Maharashtra, India. The interested Bidders are required to participate in the Request for Selection (RfS) for installation of Grid Connected Floating Solar Photovoltaic Power Plants on Build – Own – Operate – Transfer (BOOT) basis. The ownership of the project, the evacuation infrastructure from the project till the delivery point shall be transferred to MSEDCL after completion of the entire PPA period without any consideration whereby the terminal value shall be considered as

nil. Upon transfer of ownership to MSEDCL, the Operation & Maintenance (O&M) of the floating solar power project may be given to the FSPD through mutual agreement between MSEDCL and the FSPD. Further the FSPD shall transfer the ownership of the evacuation infrastructure from the delivery point up to the nearest EHV substation of MSETCL/STU to MSETCL/STU after the construction of such infrastructure is completed.

- (ii) Single successful bidder shall be selected for the development of 100 MW floating solar power plant for each cluster (Location) on Ujjani Dam as per provision of Clause 1.1.8 and the project shall be connected to the nearest EHV substation of STU/MSETCL.
- (iii) The Bidders shall quote only a single levelized tariff for the entire PPA term for the fixed capacity of 100 MW offered to be developed by the bidder for that particular cluster. Further, the PPA for 100 MW capacity shall be signed with the successful bidder at the tariff discovered after the cluster-wise e-reverse auction.

3.2.3 Project Locations:

The FSPDs shall develop Floating solar PV power project at **xxxxxx cluster/location** on Ujjani Dam, Solapur. The details of the project location as given in Clause 1.1.8 are as follows:

Cluster No.	Location details		Nearby location along the flank	
	Lat	Long	Village	Flank
1				
2				
3				
.....				

3.2.4 Minimum Capacity of Project / Project Package:

The minimum project capacity shall be 100 MW i.e. a single project of 100 MW capacity shall be developed at the particular cluster/location specified in Clause 1.1.8 and Clause 3.2.3

3.2.5 Project Scope and Technology Selection:

The FSPD shall develop and operate the Project in accordance with the terms of this RfS and the PPA and Prudent Utility Practices. The FSPD shall set up Floating Solar PV Power Project(s) including the transmission network up to the nearest EHV substation of STU/MSETCL and including the transmission infrastructure at the Delivery Point i.e. the EHV pooling substation developed by the FSPD in line with the provisions of this RfS document, at its own cost (including but not limited to open access charges till the delivery point) and in accordance to the provisions of this RfS

document. Further, the successful bidder selected to develop the 100 MW floating solar power project at the cluster/location specified in this RfS may choose to develop the EHV pooling substation along with other successful bidder(s) who is/are selected to develop 100 MW floating solar power project at nearby location(s) subject to the prior approval of MSETCL/STU for such connectivity arrangement. All approvals, permits and clearances required for setting up of the Project (including connectivity) and those required from State Government and local bodies shall be in the scope of the successful bidder. The FSPDs need to bear the land lease charges of INR 1 per land per year (i.e. land for the each 100 MW cluster) and shall pay the same directly to the Water Resource Department, Maharashtra. A tripartite agreement shall be signed through MSEDCL for handing over the land from Water Resource Department to the FSPD within 1 month from the date of signing of PPA. The land lease shall be valid from the date of signing of the tri-partite agreement for the term of the PPA (i.e. a period of 25 years from the date of Scheduled Commercial Operation Date) or the term of the extended PPA or the termination of the PPA, whichever is earlier.

The selection of solar PV modules would be technology agnostic to suit the floating solar projects where humidity levels are high and moisture ingress is more. The modules with suitable quality back sheets, glass to glass packed modules or any modules with suitable technology (anchoring/ mooring systems) shall be used. The floats, modules used shall have proven design and demonstrated performance. Crystalline silicon or thin film etc., with or without trackers can be installed. Only commercially established and operational technologies can be used to minimize the technology risk and to achieve timely commissioning of the Projects. However, the selection of Projects would be technology agnostic within PV technology and crystalline silicon or thin film, etc. with or without Trackers can be installed. In order to ensure only quality systems are installed, the Bidders shall strictly comply with the technical parameters detailed in the **Annexure -A**.

3.3 Eligibility for Project Capacity Allocation

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

- (i) A bidder including its Parent, Affiliate or Ultimate Parent or any Group Company can only submit a single application/bid for the total capacity offered to be developed subject to the minimum capacity as specified in Section 3.2.4.
- (ii) Multiple bids from the same company towards this RfS including its Parent / Ultimate Parent / Affiliates / Group Companies shall make all the bids submitted by the group invalid.
- (iii) The evaluation of bids shall be carried out as described in 4. The methodology of allocation of projects is elaborated in 4.

3.4 Qualification Requirements

- 3.4.1 Bidder as defined in 2 is eligible to participate under this RfS. The successful bidder, if being a single company, shall ensure that its shareholding in the SPV (special purpose vehicle)/ project company executing the PPA shall not fall below 51% (fifty-one per cent) at any time prior to 1 (one) year from the COD, except with the prior approval of MSEDCL.
- 3.4.2 Any consortium, if selected as Successful Bidder for the purpose of supply of power to MSEDCL, shall incorporate a Project company / Special Purpose Vehicle (SPV) with equity participation by the Members in line with Consortium Agreement (to be submitted along with the response to RfS) before signing of PPA with MSEDCL, i.e. the Project Company incorporated shall have the same shareholding pattern as given at the time of submission of response to RfS. The combined shareholding of the consortium members in the SPV / Project company executing the PPA, shall not fall below 51% at any time prior to 1 (one) year from the COD, except with the prior approval of MSEDCL. Transfer of controlling shareholding within the same group of companies will however be allowed with the permission of MSEDCL, subject to the condition that, the management control remains within the same group of companies. The shareholding pattern of members within the consortium shall not change till the signing of PPA.
- 3.4.3 Foreign Companies are allowed to participate and foreign companies participating in the bidding process shall be registered as companies as per the rules of their country of origin. A foreign company can also participate on standalone basis or as a member of consortium at the RfS stage. In case of foreign company participating on standalone basis and its selection as successful bidder, it has to form an Indian Company registered under the Companies Act, 2013 as its fully owned subsidiary Company (i.e. 100% subsidiary) before signing of PPA. In case the foreign company is participating as a member of consortium, the provisions of Section 3.5.1 of this RfS shall be applicable.
- 3.4.4 Any Foreign Bidder, if selected as successful bidder for the purpose of supply of power to MSEDCL, shall incorporate a subsidiary Special Purpose Vehicle (SPV) / Project Company to be registered under Indian Companies Act 2013 before signing of PPA with MSEDCL. Further, in case a Foreign Bidder is selected as the successful bidder, it shall comply with all the laws and provisions related to Foreign Direct Investment in India.
- 3.4.5 Limited Liability Companies (LLC) shall be eligible. Further, if such Limited Liability Companies are selected as successful Bidders, they will have to register as a Company under the Indian Companies Act, 1956 or Companies Act, 2013, as applicable, before signing of PPA, keeping the original shareholding of LLC unchanged. In such cases, it will also be mandatory on the part of such Limited Liability Companies to either

demonstrate or infuse the capital in form of his own equity in line with the requirement stipulated in Section 3.6 given below. In case LLC fails to incorporate as an Indian company before signing of PPA or unable to demonstrate/ infusion of capital in form of his own equity in to the Company registered in India or not able to sign PPA with MSEDCL, EMD of such Bidders shall be forfeited.

Note: Limited Liability Companies (LLC) shall be eligible only for those LLCs which are formed by companies.

3.4.6 Limited Liability Partnership (LLPs) are not eligible for participation.

3.5 Eligibility Criteria

3.5.1 The bidder should meet the following eligibility criteria as mentioned below.

- (i) The Net-Worth of the Bidder or its Affiliate or Parent / Ultimate Parent for the financial year¹ ending on 31.03.2018 shall not be less than INR 1.10 Crores per MW (of the capacity quoted). Bidders shall have to furnish Certificates from Chartered Accountants, certifying the Net worth as on 31st March, 2018.
Provided that the bidder shall produce the details of network for the total cumulative capacity for which it has submitted the bid, under this RFS.
- (ii) The net worth to be considered for the above purpose will be the cumulative net-worth of the bidding company or consortium together with the network of those Affiliates of the bidder(s) that undertake to contribute the required equity funding and performance bank guarantees in case the bidder(s) fail to do so in accordance with the RfS.
- (iii) For avoidance of doubt, "net worth" as per section 2 (57) of the Companies Act 2013 means the aggregate value of the paid-up share capital and all reserves created out of the profits and securities premium account, after deducting the aggregate value of the accumulated losses, deferred expenditure and miscellaneous expenditure not written off, as per the audited balance sheet, but does not include reserves created out of revaluation of assets, write-back of depreciation and amalgamation.
- (iv) For meeting the above financial eligibility criteria, if data is provided by the Bidder in USD, equivalent rupees of Net Worth and other financial parameters will be calculated by Bidder using Reserve Bank of India's reference rates prevailing on the date of closing of accounts for the respective financial year.
- (v) Pursuant to evaluation of Net Worth Criteria as part of technical bid, if it is found by MSEDCL that the Bidder is eligible for lesser quantum than the quantum for which bid has been submitted provided that such quantum is

¹ FOR STANDALONE BIDDING COMPANIES OF FOREIGN NATIONALITY OR FOREIGN COMPANIES BIDDING AS A PART OF A CONSORTIUM, CERTIFICATES NEED TO BE FURNISHED FOR THE LAST COMPLETED FINANCIAL YEAR

not less than minimum bid capacity of 100 MW, then the bidder shall be disqualified.

3.5.2 **Liquidity:** In order to ascertain that the Bidder has sufficient means to manage the fund requirements for the Project, the Bidder shall be required to demonstrate at least one of the following parameters:

- (iv) A minimum annual turnover of Rs. 25 crores during the previous financial year. It is hereby clarified that "Other Income" as indicated in the annual accounts of the Bidder shall not be considered for arriving at the annual turnover.
- (v) Internal resource generation capability, in the form of Profit Before Depreciation Interest and Taxes (PBDIT) shall be atleast Rs. 10 crores as on the last date of previous financial year.
- (vi) In-principle sanction letter from the lending institutions/banks of the Bidder, committing a Line of Credit for a minimum amount of Rs. 12.5 crores towards meeting the working capital requirement of the project quoted under this RfS. Such letter can also be obtained by the Affiliate(s) of the Bidder.

3.5.3 The Bidder may seek qualification on the basis of financial capability of its Affiliate(s) for the purpose of meeting the qualification requirements as per the Sections 3.5.1 & 3.5.2 above. In case of the Bidder being a Bidding Consortium, any Member may seek qualification on the basis of financial capability of its Affiliate(s). In such cases, the Bidder shall be required to submit Board Resolutions from the respective Affiliate(s), undertaking to contribute the required equity funding.

3.6 Connectivity with the Grid

- 3.6.1 The project should be designed for delivery of energy at STU/MSETCL periphery.
- 3.6.2 The responsibility of getting the grid connectivity with STU/MSETCL shall entirely be of the Successful Bidder.
- 3.6.3 The FSPD shall be responsible for creation of evacuation infrastructure required from the inverters to the EHV pooling substation and the EHV lines for connectivity to the existing EHV substation of STU/MSETCL.
- 3.6.4 All the expenditure / cost of power evacuation from the Floating Solar Power Project (Inverter) to its EHV pooling substation and the EHV lines up to STU/MSETCL substation along with the corresponding end bays shall be borne by FSPD.
- 3.6.5 The FSPD shall spare land for at least four (4) numbers of 33 kV bay in each pooling substation for the connectivity of the project to the local distribution network, which will be used to cater to the local agricultural load during day-time under Mukhyamantri Solar Agricultural Feeder Scheme.
- 3.6.6 The FSPD shall approach the STU/MSETCL for the requirement of power evacuation capacity at the existing STU/MSETCL sub-station for injection of the generation in the state transmission grid. MSETCL/STU shall ensure the capability of its existing

substations and lines to evacuate the power from this project.

- 3.6.7 The STU i.e. MSETCL shall prepare its plan for enhancement of its existing EHV network for evacuation of power from the floating Solar project, if required. Further, the STU/MSETCL shall implement its project of strengthening of existing/proposed network in coordination with evacuation arrangements of developer so that power evacuation arrangement shall be ready before commissioning of the specific cluster of Floating Solar Power Plant.
- 3.6.8 The arrangement of connectivity can be made by the successful bidder through a dedicated transmission line which the FSPD needs to construct on its own. The entire cost of transmission including cost of construction of line, maintenance, losses etc. from the project up to the STU/MSETCL Sub-Station will be borne by the Successful Bidder, however the delivery point/Interconnection point will be the LV side of the EHV Pooling Sub-Station of the FSPD for the purpose of measurement of the energy and the calculation of the losses. The transmission charges for evacuation of power shall be as determined by Maharashtra Electricity Regulatory Commission or as per the Point of Connection (POC) mechanism as and when notified by the appropriate regulatory commission.
- 3.6.9 The successful bidder for each of the 100 MW Floating Solar Power Project may choose to develop the complete evacuation arrangement including the EHV pooling substation and the EHV lines up to the EHV substation of MSETCL/STU on its own or along with the successful bidders of other 100 MW floating solar power projects by forming a separate Special Purpose Vehicle (SPV). The successful bidder(s) developing the above transmission system shall obtain prior approval of the MSETCL/STU for such connectivity arrangement. Further, the operation and maintenance of the EHV pooling substation and the entire transmission network up to the EHV substation of MSETCL/STU shall be the responsibility of the successful bidder(s) or the SPV developing it, as the case may be.
- 3.6.10 The transmission of power up to the point of interconnection and energy accounting infrastructure shall be the responsibility of the successful bidder at his own cost. The maintenance of Transmission system up to the STU/MSETCL Sub-Station shall be responsibility of the Successful Bidder/SPV.
- 3.6.11 All expenses including wheeling charges and losses between the Project and the Delivery Point shall be paid by the FSPD without any reimbursement by MSEDCL. The Successful Bidder shall not be entitled to deemed generation in case of any delay in grant of connectivity.
- 3.6.12 The Successful Bidder shall comply with the MERC / CERC regulations on Forecasting, Scheduling and Deviation Settlement, as applicable and are responsible for all liabilities related to Connectivity.

3.7 Clearances Required from the State Government and other Local Bodies

3.7.1 The FSPD shall seek appropriate consent to establish the project during construction and consent to operate the project after the commissioning of the plant from Maharashtra Pollution Control Board (MPCB).

3.7.2 The FSPD shall engage the third party like NEERI or IIT for assessment of the impact of project on environment in consultation with the Environment department and shall arrange to prepare the Terms of Reference (ToR) for the study of the impact on environment due to the project. Further, the ToR shall be vetted by the Environment department. The Third party in consultation with Environment Department will prepare the study report and same will be vetted by Environment Department. The action as per Environment Department/third party report shall be taken by FSPD. The FSPD shall ensure that the above studies are completed and vetted by the Environment Department and all necessary actions as mentioned in the study report have been taken before the start of any erection/construction work at the project site.

The FSPD shall also ensure that all the studies / reports carried out and prepared as mentioned above shall solely be used for the purpose of this floating solar power project and shall not be used for any other project / purposes thereof. Further, MSEDCL shall have all the rights on all such studies and reports regarding the floating solar power project.

3.7.3 It is mandatory for the FSPD to provide necessary gaps between the adjacent groups of floating structures which will provide sufficient exposure of sunlight and air, to the water surface of the reservoir so as to avoid any effect on the aquatic life.

3.7.4 Notwithstanding anything stated above from 3.7.1 to 3.7.3, the Bidders are required to undertake various studies if needed and obtain necessary clearances and permits (including environmental clearance and grid connectivity) as required for setting up the Floating Solar Power Projects.

3.7.5 Any neglect or omission or failure on the part of the bidder in obtaining necessary clearances and reliable information upon the forgoing or any other matter affecting the bid shall not relieve him from any risks or liabilities or the entire responsibility for completion of the work in accordance with the bid.

3.8 Earnest Money Deposit (EMD) and Performance Bank Guarantees (PBG)

3.8.1 The Bidder shall provide the following Bank Guarantees to MSEDCL in a phased manner as follows:

- Earnest Money Deposit (EMD) of Rs. 10 Lakh / MW in the form of Bank Guarantee along with RfS.

- Performance Bank Guarantee (PBG) of Rs. 25 Lakh / MW at the time of signing of PPA
- 3.8.2 The Bank Guarantees against EMD shall be returned to the Successful Bidders after PBGs submitted by them are verified by MSEDCL and PPAs are signed.
- 3.8.3 The Successful Bidders are required to sign PPA with MSEDCL in line with the timeline given as per this RfS in the Section 3.10. In case, the selected bidder refuses to execute the PPA within the stipulated time period, the Bank Guarantee equivalent to EMD shall be encashed by MSEDCL as penalty. In case the Project is not selected, MSEDCL shall release the EMD within 30 days upon execution of all PPAs with the Successful Bidders.
- 3.8.4 The PBGs shall be valid upto a period of 6 months from Scheduled Commercial Operation Date (SCOD) of the Project. The PBGs will be returned to the Successful Bidders immediately after successful commissioning of their Project, after taking into account any penalties due to delays in commissioning as per provisions stipulated in Section 3.11.
- (i) Earnest Money Deposit (EMD) of Rs.10 Lakh / MW per Project/cluster in the form of Bank Guarantee according to Format 6.3 A and valid for 06 months from the last date of bid submission, shall be submitted by the Bidder along with their bid failing which the bid shall be summarily rejected. The Bank Guarantees towards EMD have to be in the name of the Bidding Company / Lead Member of Bidding Consortium.
 - (ii) The Bidder shall furnish the Bank Guarantees towards EMD from any of the Banks listed at Annexure – C in favor of MSEDCL.
 - (iii) Performance Bank Guarantee (PBG): Bidders selected by MSEDCL based on this RfS shall submit Performance Guarantee for a value of @ Rs 25 Lakh / MW at the time of signing of PPA. It may be noted that successful Bidders shall submit the Performance Guarantee according to the Format 6.3 B, issued in favor of MSEDCL, for a value @ Rs 25 Lakh/MW with a validity period upto 6 months from Scheduled Commercial Operation Date. On receipt and after successful verification of the total Performance Bank Guarantee in the acceptable form, the BG submitted towards EMD shall be returned by MSEDCL to the successful Bidder.
 - (iv) The Bidder shall furnish the Performance Bank Guarantees (PBGs) from any of the Banks listed at Annexure – C to MSEDCL.
 - (v) The format of the Bank Guarantees prescribed in the Formats 6.3 A (EMD) and 6.3 B (PBG) shall be strictly adhered to and any deviation from the above Formats shall result in rejection of the EMD/PBG and consequently, the bid. In case of deviations in the formats of the Bank Guarantees, the corresponding PPA shall not be signed by MSEDCL.
 - (vi) The Successful Bidders are required to sign PPA with MSEDCL within 30 days from the date of issuance of LoA. Subsequent extension in this timeline shall be finalized and agreed by MSEDCL. In case, MSEDCL offers to execute the PPA with the Selected Bidder and if the Selected Bidder does not submit the

requisite documents or does not meet eligibility criteria upon submission of documents or does not execute the PPA within the stipulated time period, then the Bank Guarantee submitted towards EMD shall be encashed by MSEDCL and the selected Project shall stand cancelled.

- (vii) The Bank Guarantees have to be executed on non-judicial stamp paper of Rs. 500.
- (viii) All expenditure towards execution of Bank Guarantees such as stamp duty etc. shall be borne by the bidder.
- (ix) In order to facilitate the Bidders to submit the Bank Guarantee as per the prescribed format and in line with the requirements, checklist in Annexure-B has been attached. Bidders are advised to take note of the above checklist while submitting the Bank Guarantees.
- (x) After the bidding process is over, MSEDCL shall release the Bank Guarantees towards EMD of the Unsuccessful Bidders / project capacities within 30 days of the date of issuance of LoA to Successful Bidders.

3.9 Forfeiture of EMD

The BG towards EMD shall be encashed by MSEDCL in following cases:

- (i) If the bidder withdraws or varies the bid after due date and time of bid submission and during the validity of the bid;
- (ii) In case, MSEDCL offers to execute the PPA with the Selected Bidder and if the Selected Bidder does not submit the requisite documents or does not execute the PPA within the stipulated time period;
- (iii) If after date of issue of LOA, it is found that the documents furnished by the bidder during RfS are misleading or misrepresented in any way and that relevant facts have been suppressed;
- (iv) If the bidder fails to furnish required Performance Bank Guarantee in accordance with Section 3.8.

3.10 Power Purchase Agreement

3.10.1 A copy of Standard Power Purchase Agreement, to be executed for 100 MW cluster between MSEDCL and the Successful Bidder or its subsidiary Special Purpose Vehicle (SPV), as defined under Section 3.4 of this RfS, shall be provided by MSEDCL along with this RfS. The PPA shall be signed within 30 days from the date of issue of Letter of Award (LoA). PPA will be executed between MSEDCL and Selected Bidders which shall be valid for a period of 25 years from the date of SCOD as per the provisions of PPA unless extended upon mutual agreement between MSEDCL and the FSPD.

3.10.2 Before signing of PPA between MSEDCL and the Selected Bidders, MSEDCL will verify the documents furnished by the Bidders at the time of submission of response to RfS including the shareholding of the Project Company along with a copy of complete documentary evidence supported with the original documents. Bidders will also be required to furnish the documentary evidence for meeting the RfS Qualification

Requirements as per Section 3.4

- 3.10.3 Any extension of the PPA period beyond 25 years from the SCOD of the project shall be through mutual agreements between the Successful Bidder and MSEDCL. Upon extension of the PPA term, the tri-partite agreement for the land lease shall also be extended and shall be valid till the term of the extended PPA.
- 3.10.4 FSPD will have the option to utilize any float material for the project, subject to the safety and the life of the Floating Solar Plant.

3.11 Power Generation by Successful Bidder

3.11.1 **Criteria for Generation:** The Successful Bidder will declare the annual CUF of his Project at the time of submission of response to RfS, which shall be allowed to be modified at the time of signing of PPA and once within the first year of COD. Thereafter, the declared CUF for the Project shall remain unchanged for the entire term of the PPA. The declared annual CUF shall in no case be less than 19%. Successful Bidder shall maintain generation so as to achieve annual CUF within $\pm 10\%$ of the declared value till the end of the entire term of the PPA. The lower limit will, however, be relaxable by MSEDCL to the extent of non-availability of grid for evacuation which is beyond the control of the Successful Bidder. The annual CUF will be calculated every year from 1st April of the year to 31st March next year.

3.11.2 **Shortfall in Generation:** During the term of the PPA, if for any Contract Year, it is found that the Successful Bidder has not been able to generate minimum energy corresponding to the value of annual CUF within the permissible lower limit of CUF declared by the Successful Bidder, such shortfall in performance shall make the Successful Bidder liable to pay the compensation @ 25% of the PPA tariff to MSEDCL. This will, however, be relaxable by MSEDCL to the extent of grid non-availability for evacuation (beyond nearest STU/MSETCL EHV substation) which is beyond the control of the Successful Bidder. This compensation shall be applied to the amount of shortfall in generation during the Contract Year.

However, this compensation shall not be applicable in events of Force Majeure identified under the PPA with MSEDCL, affecting supply of solar power by the Successful Bidder.

3.11.3 **Excess Generation:** In case the generation is over and above 10% of declared annual CUF, the Successful Bidder will be free to sell it to any other entity provided first right of refusal will vest with MSEDCL. In case MSEDCL purchases the excess generation, the same may be done at 75% (seventy-five per cent) of the PPA tariff. MSEDCL shall inform the FSPD for procurement of excess power within 15 days of receiving a written intimation from the FSPD for such excess generation. If in case MSEDCL fails to reply to the FSPD within the above stipulated time period then the generator shall be free to sell it to any other entity.

3.11.4 **Repowering:** The FSPD shall be allowed to repower the project as per its requirement for a maximum cumulative period of six (6) months during the entire PPA term. The generator shall not be in default for non-supply of power during this period of repowering. However, MSEDCL will be obliged to buy power only within the range of effective CUF, specified in the PPA. Any excess generation will be dealt as specified in Section 3.11.3 of RfS.

3.11.5 **Generation Compensation in Offtake Constraint due to Transmission Infrastructure not Complete / Ready Beyond Delivery Point (Transmission Constraint):**

After the scheduled commissioning date, if the plant is ready but the necessary power evacuation / transmission infrastructure beyond delivery Point (i.e. LV side of the EHV pooling substation) is not ready, leading to offtake constraint, no compensation shall be permissible to the generator.

3.11.6 **Generation Compensation in Offtake Constraints Due to Grid Unavailability Beyond Delivery Point:**

During the operation of the plant, there can be some periods where the plant can generate power but due to temporary transmission unavailability the power is not evacuated, for reasons not attributable to the Floating Solar Power Generator. In such cases the generation compensation shall be addressed by the Procurer in following manner:

Duration of Grid unavailability	Provision for Generation Compensation
Grid unavailability in a \contract year as defined in the PPA: (only period from 8 am to 6 pm to be counted):	<p>Generation Loss = [(Average Generation per hour during the contract year) × (number of hours of grid unavailability during the contract year)]</p> <p>Where, Average Generation per hour during the contract year (kWh) = Total generation in the contract year (kWh) ÷ Total hours of generation in the contract year</p> <p>The excess generation by the Solar Power Developer equal to this generation loss shall be procured by the Procurer at the PPA tariff so as to offset this loss in the succeeding 3 (three) Contract Years.</p>

3.11.7 **Offtake Constraints Due to Back down-** The Successful Bidder and MSEDCL shall follow the forecasting and scheduling process as per the regulations in this regard by the MERC. The Government of India, as per Clause 5.2(u) of the Indian Electricity Grid Code (IEGC), encourages a status of “must-run” to solar power projects. Accordingly,

no Solar Power Plant, duly commissioned, should be directed to back down by a DISCOM / Load Dispatch Centre (LDC). In case such eventuality of Back down arises, except for the cases where the Back down is on account of events like consideration of grid security or safety of any equipment or personnel or other such conditions, the Successful Bidder shall be eligible for a Minimum Generation Compensation, from MSEDCL, in the manner detailed below.

Duration of Back down	Provision for Generation Compensation
Hours of Back down during a monthly billing cycle.	<p><i>Minimum Generation Compensation = 50% of [(Average Generation per hour during the month) × (number of Back down hours during the month)]X PPA Tariff</i></p> <p>Where, Average Generation per hour during the Contract Year (kWh) = Total generation in the Contract Year (kWh) ÷ Total hours of generation in the Contract Year.</p>

The Generation Compensation is to be paid as part of the energy bill for the successive month after receipt of State Energy Accounts (SEA) / as certified by SLDC/MSEDCL/MSETCL.

- 3.11.8 The Successful Bidders shall transfer the ownership of the project to MSEDCL after completion of entire PPA period of 25 years from the SCOD of the Project. However, any extension of the PPA period beyond 25 years from the SCOD of the project shall be upon receiving a written request from the FSPD atleast 6 months prior to the completion of the term of the PPA and through mutual agreement between the Successful Bidder and MSEDCL. Further, the tri-partite agreement between MSEDCL, Water Resource Department and the successful FSPD for the land lease shall also be extended according to the revised PPA term.

3.12 Financial Closure or Project Financing Arrangements

- 3.12.1 The Successful Bidder shall report tie-up of Financing Arrangements for the Project(s) within 12 months from the date of execution of PPA. In this regard, the SPD shall submit a certificate from all financing agencies regarding the tie-up of funds indicated for the Project. Additionally, the SPD shall furnish documentary evidence towards the following within 12 months from the date of execution of PPA.

- (i) The orders placed/ agreements entered into, for supply of plants and equipment for the Project.

- (ii) A tri-partite agreement for handing over of land from Water Resource Department, Maharashtra to successful FSPD to be executed through MSEDCL. The FSPDs need to bear the land lease charges of INR 1 per land per year (i.e. land for each 100 MW cluster/project) and shall pay the same directly to the Water Resource Department, Maharashtra.
- (iii) Power evacuation / connectivity arrangement of Successful Bidder with STU/MSEDCL. A letter from STU/MSEDCL, if applicable confirming technical feasibility of connectivity of the Plant upto the connection point at the nearest EHV substation of MSEDCL/STU.
- (iv) Evidence of clear possession of Project Site selected by Successful Bidder along with the following documentary evidences:
 - a. Sworn affidavit/ any other agreement from the authorized signatory of the FSPD listing the details of the location and certifying that total water body required for the Project is under clear possession of the SPD.
 - b. No Objection Certificate (NOC) / Environmental clearance (if applicable) for the Project.
 - c. Approval for Water from the concerned authority (if applicable) required for the Project.
- (v) The technology adopted as per Annexure - A.
- (vi) For avoidance of doubt, it is hereby clarified that change in location shall be allowed subject to the condition that the timeline for commissioning i.e. SCOD shall not be changed and consequences of delay in commissioning shall be solely on the account of bidders.
- (vii) If the FSPD fails to tie up Financing Arrangement for the project within 12 months as prescribed above or if the FSPD fails to report such tie-up then the MSEDCL, shall forfeit the performance Bank Guarantee (PBG) unless the delay is on account of delay caused due to force majeure.
- (viii) An extension for the attainment of the financial closure can however be considered by MSEDCL, on the sole request of the Successful Bidder, on advance payment of extension charges of Rs. 10,000/- per day per MW. In case of any delay in depositing this extension charge, the Successful Bidder has to pay an interest on this extension charge for the days lapsed beyond due date of Financial Closure @ SBI MCLR (1 Year). This extension will not have any impact on the SCOD. Any extension charges paid so, shall be returned to the Successful Bidder without any interest on achievement of successful commissioning within the SCOD, on pro-rata basis, based on the Project Capacity commissioned on SCOD. However, in case of any delay in commissioning of the project beyond the Scheduled Commissioning Date, the amount as deposited above by the Successful Bidder shall not be refunded by MSEDCL.

3.13 Commissioning and penalty for delay in commissioning

The Commissioning of the Projects shall be carried out by the Successful Bidder selected based on this RfS, in line with the Procedure elaborated in standard PPA document. The Successful Bidder shall be required to obtain Developer and / or

Transfer Permission, Key Plan drawing etc. from MEDA prior to mounting of the solar panels and submit the same to MSEDCL prior to actual commissioning of the Project. Commissioning certificates shall be issued by the State Load Dispatch Centre after successful commissioning of Project.

- 3.13.1 **Part Commissioning:** Part commissioning of the Project shall be accepted by MSEDCL subject to the condition that the Minimum Capacity for acceptance of first and subsequent part(s) commissioning shall be 25% of the capacity specified by bidder in its bid, without prejudice to the imposition of penalty, in terms of the PPA on the part which is not commissioned. However, the SCOD (Schedule Commercial Operation Date) will not get altered due to part-commissioning. Irrespective of dates of part commissioning or full commissioning, the PPA will remain in force for a period of 25 (twenty-five) years from the SCOD.
- 3.13.2 **Early Commissioning:** The Successful Bidder shall be permitted for full commissioning as well as part commissioning of the Project even prior to the SCOD. In cases of early part-commissioning, till SCOD, MSEDCL may purchase the generation till SCOD, at 75% (seventy-five per cent) of the PPA tariff. However, in case the entire capacity is commissioned prior to SCOD, MSEDCL may purchase the generation at PPA Tariff. Further, early part/ full commissioning of the Project and subsequent energy procurement from the same shall be subject to the approval of MSEDCL.
- 3.13.3 **Penalty for Delay in Commissioning:** The Project shall be commissioned by the Scheduled Commercial Operation Date. In case of failure to achieve this milestone, MSEDCL shall encash the Performance Bank Guarantee (PBG) in the following manner.
- a) **Delay upto six (6) months from SCOD** – MSEDCL will encash total Performance Bank Guarantee on per day basis and proportionate to the balance Capacity not commissioned.
 - b) **In case the commissioning of the project is delayed beyond Six (6) months from SCOD**, the tariff discovered after e-Reverse Auction shall be reduced at the rate of 0.50 paise / kWh (half paise per Kwh) per day of delay for the delay in such remaining capacity which is not commissioned for the entire term of the PPA. The maximum time period allowed for commissioning of the full Project Capacity with encashment of Performance Bank Guarantee and reduction in the fixed tariff shall be limited to 33 months from the date of execution of PPA or till the discovered tariff becomes zero, whichever is earlier.
 - c) In case, the Commissioning of the Project is delayed beyond this period as mentioned in Point (b) above, the PPA capacity shall stand reduced / amended to the Capacity Commissioned and the PPA for the balance Capacity will stand terminated and shall be reduced from the selected Project Capacity.

3.14 Commercial Operation Date (COD):

Commercial Operation date (COD) shall be the date on which the Project/Unit is commissioned (certified by SLDC/MSEDCL/MSETCL) and available for commercial operation at full capacity of the Project or the last part capacity (in case of part commissioning) of the Project as the case may be. Successful Bidders shall have to provide a written notice to MSEDCL at least 30 days in advance for the same.

3.15 Minimum Paid up Share Capital to be Held by Project Promoter

- 3.15.1 The Company developing the project shall provide complete information in their bid in reference to the RfS about the Promoters and their shareholding in the company indicating the controlling shareholding before signing of PPA with MSEDCL.
- 3.15.2 The successful bidder, if being a single company, shall ensure that its shareholding in the SPV/project company executing the PPA shall not fall below 51% (fifty-one per cent) at any time prior to 1 (one) year from the COD, except with the prior approval of MSEDCL. However, in case the Project is being set up by a Public Limited Company, this condition will not be applicable.
- 3.15.3 In the event the successful bidder is a consortium, then the combined shareholding of the consortium members in the SPV/project company executing the PPA, shall not fall below 51% at any time prior to 1 (one) year from the COD, except with the prior approval of the MSEDCL.
- 3.15.4 However, in case the successful bidder shall be itself executing the PPA, then it shall ensure that its promoters shall not cede control (Control shall mean ownership, directly or indirectly, of more than 50% (fifty per cent) of the voting shares of such Company or right to appoint majority Directors) till 1 (one) year from the COD, except with the prior approval of MSEDCL. In this case it shall also be essential that the successful bidder shall provide the information about its promoters and their shareholding to MSEDCL before signing of the PPA with MSEDCL.
- 3.15.5 Any change in the shareholding after the expiry of 1 (one) year from the COD can be undertaken under intimation to MSEDCL.
- 3.15.6 In case, the financial eligibility and qualification is attained through financials of Parent Company, then the shareholding pattern of the Parent Company shall not change till the achievement of Financial Closure and the shareholding pattern of the bidding entity shall not change till one year from the date of COD.
- 3.15.7 In the event the Floating Solar Power Developer is in default to the lender(s), lenders shall be entitled to undertake "Substitution of Promoter" in concurrence with MSEDCL.
- 3.15.8 In the event of Change in Shareholding/Substitution of Promoters triggered by the

Financial Institutions leading to signing of fresh PPA with a New Entity, an amount of ₹10 Lakh per Transaction as Facilitation Fee (non-refundable) shall be deposited by power producer/bidder to MSEDCL. However, the new entity should be of the same financial strength as the Successful Bidder.

3.16 Structuring of the Bid Selection Process

3.16.1 Single stage, double envelope bidding followed by e-reverse auction has been envisaged under this RfS. Bidders have to separately submit both Technical bid and Financial bid (as per Format 6.7) together in response to this RfS online for the particular cluster/Location. The preparation of bid proposal has to be in the manner described in Sections 3.17 and 3.18

3.17 Instructions to Bidders for Structuring of Bid Proposals in Response to RfS

3.17.1 The bidder including its Parent, Affiliate or Ultimate Parent or any Group Company shall submit separate response for the particular cluster under this RfS.

3.17.2 Detailed Instructions to be followed by the bidders for online submission of response to RfS as stated at Annexure – D and Annexure – E.

3.17.3 Submission of bid proposals by Bidders in response to RfS shall be in the manner described below:

- (i) Covering Letter as per Format 6.1.
- (ii) In case of a Bidding Consortium, a Power of Attorney in favour of the Lead Member issued by the other Members of the Consortium shall be provided in original as per format attached hereto as Format 6.2.
- (iii) In the event any Member of the Bidding Consortium (other than Lead Member) is a foreign entity, it may submit Board Resolutions in place of Power of Attorney for the purpose of fulfilling the requirements under this Section. Provided that, such Board Resolutions shall be supported by an unqualified opinion issued by the legal counsel of such foreign entity stating that the Board Resolutions are in compliance with the applicable laws of the respective jurisdictions of the issuing Company and the authorizations granted therein are true and valid.
- (vii) The USD – INR exchange rate shall be considered as the corresponding Telegraphic Transfer (TT) buying rate specified by SBI 7 days before the last date of submission of bid.
- (iv) Earnest Money Deposit (EMD) in the form as per Format 6.3 A.
- (v) Performance Guarantee (to be submitted before signing of PPA as specified in (Section 3.8) in the form as per Format 6.3 B.
- (vi) Board Resolutions, as per prescribed formats enclosed as Format 6.4 duly certified by the Company Secretary or the Director of the relevant Bidder, as applicable to the Bidder and mentioned hereunder:
 - (a) Board resolution from the Bidding Company or the Lead Member of the Consortium, as the case may be, in favour of the person signing

- the response to RfS and in the event of selection of the Projects, to sign the PPA with the MSEDCL. Board Resolution from each of the Consortium Members in favour of the person signing Consortium Agreement
- (b) Board Resolution from the Bidding Company committing one hundred percent (100%) of the equity requirement for the Project / Board Resolutions from each of the Consortium Members together in aggregate committing to one hundred percent (100%) of equity requirement for the Project (in case of Bidding Consortium); and
 - (c) Board Resolutions from each of the Consortium Members and Lead member contributing such additional amount over and above the percentage limit (specified for the Lead Member and other member in the Consortium Agreement) to the extent becoming necessary towards the total equity share in the Project Company, obligatory on the part of the Consortium pursuant to the terms and conditions in the Consortium Agreement.
- (vii) In case of a Consortium, the Consortium Agreement between the Members in the Consortium as per Format 6.5 along with Board resolution from each Member of the Consortium for participating in Consortium.
 - (viii) Bidder shall ensure that the technology to be adopted shall be commercially established technology as per Annexure A. Final details of the same shall be submitted within 7 months from the date of execution of PPA.
 - (ix) Format 6.6: Format for Disclosure
 - (x) Tie-up of Financing Arrangements for the projects within 12 months from the date of issue of LoA. Bidder shall give an undertaking for Commitment to Financial Closure as per Format 6.8
 - (xi) Attachments
 - (a) Memorandum of Association (MoA), Articles of Association (AoA) needs to be attached along with the bid. The bidder should also highlight the relevant provision in the Object Clause of the MoA relating to generation and sale of Power / Energy / Renewable Energy / Solar Power Plant development.
 - (b) In case, there is no mention of above provision in the MoA of the bidding company, the same has to be amended and submitted prior to signing of PPA, if the bidder is selected as Successful bidder.
 - (viii)
 - (ix) If the selected bidder wishes to execute the project through a Special Purpose Vehicle (SPV), MoA, AoA of the SPV highlighting the relevant provision of Object Clause relating to generation and sale of Power / Energy / Renewable Energy / Solar Power plant development has to be submitted prior to signing of PPA.
 - (x)
 - (c) Certificate of Incorporation of Bidding Company / all member companies of Bidding Consortium.
 - (d) A certificate of shareholding of the bidding company, its Parent and Ultimate Parent (if any), duly certified by a practicing Chartered Accountant / Company Secretary as on a date within two weeks prior to the last date of bid submission.

- (e) Documents containing information about the Promoters and their shareholding in the Company (as on a date within 30 days prior to the last date of bid submission) to MSEDCL indicating the controlling shareholding at the stage of submission of response to RfS to MSEDCL as per Section 3.4. MSEDCL reserves the right to seek additional information relating to shareholding in promoter companies, their parents/ ultimate parents and other group companies to satisfy themselves that RfS conditions have been complied with and the bidder will ensure submission of the same within the required time lines.
- (f) Certified copies of annual audited accounts for the last financial year, i.e. FY 2017-18 shall be required to be submitted; OR in case the Bidder is a newly formed company, supported by documentary evidence of its recent formation at RoC, then the certificate issued by a Chartered Accountant with certified copy of Balance sheet, Profit & Loss account, Schedules and cash flow statement supported with bank statement (if available) shall be required to be submitted.
- (g) In case Final Audited Annual Accounts for FY 2017-18 are not available, then MSEDCL shall accept the Provisional Accounts of FY 2017-18 which are duly certified by a practicing Chartered Accountant of India along with the audited final accounts for the FY 2016-17.
- (h) Foreign Bidders following other than April-March as financial year, may submit their audited annual accounts of previous two years as per relevant laws / acts of their country of origin and the same shall be duly certified by a practicing Chartered Accountant of India.
- (i) Certificate from Chartered Accountants, certifying the Networth of the bidder per MW of quoted capacity as on 31st March, 2018 or in case the Bidder is a newly formed company, supported by documentary evidence of its recent formation at ROC or in case the networth of the Bidder as on 31st March 2018 is not meeting the criteria as per Section 3.4, then the certificate issued by a Chartered Accountant computing net worth based on certified copy of Balance Sheet, Profit & Loss account, Schedules and cash flow statement supported with bank statement shall be required to be submitted. In case of a company with foreign nationality, the criteria provided in Section 3.5 shall be applicable.

3.18 Important Notes and Instructions to Bidders

- 3.18.1 Wherever information has been sought in specified formats, the Bidders shall fill in the details as per the prescribed formats and shall refrain from any deviations and referring to any other document for providing any information required in the prescribed format.
- 3.18.2 The Bidders shall be shortlisted based on the declarations made by them in relevant provisions of RfS. The documents submitted online will be verified before signing of PPA.

- 3.18.3 If the Bidder / Member in a Bidding Consortium conceals any material information or makes a wrong statement or misrepresents facts or makes a misleading statement in its response to RfS, in any manner whatsoever, MSEDCL reserves the right to reject such response to RfS and/or cancel the Letter of Award, if issued, and the Bank Guarantee provided up to that stage shall be encashed. Bidder shall be solely responsible for disqualification based on their declaration in the submission of response to RfS.
- 3.18.4 If the event specified at Section 3.18.3 above is discovered after the execution of PPA, consequences specified in PPA shall apply.
- 3.18.5 Response submitted by the Bidder shall become the property of the MSEDCL and MSEDCL shall have no obligation to return the same to the Bidder. However, the EMDs submitted by unsuccessful Bidders shall be returned as specified in Section 3.8.
- 3.18.6 All documents of the response to RfS (including RfS, PPA, Corrigenda (if any) Addenda (if any) and all other documents uploaded on <https://www.tcil-india-electronicstender.com> as part of this RfS) submitted online must be digitally signed by the person authorized by the Board as per Format 6.4.
- 3.18.7 The response to RfS shall be submitted as mentioned in Sections 3.17 and 3.18. No change or supplemental information to a response to RfS will be accepted after the scheduled date and time of submission of response to RfS. However, MSEDCL reserves the right to seek additional information from the Bidders, if found necessary, during the course of evaluation of the response to RfS.
- 3.18.8 All the information should be submitted in English language only. In case of foreign bidders having documents in other than English language, then the documents shall be translated in English language by certified translator and submitted. .
- 3.18.9 Bidders shall mention the name of the contact person, contact number, email address and complete address of the Bidder in the covering letter.
- 3.18.10 Response to RfS that are incomplete, which do not substantially meet the requirements prescribed in this RfS, will be liable for rejection by MSEDCL.
- 3.18.11 Response to RfS not submitted in the specified formats will be liable for rejection by MSEDCL.
- 3.18.12 Bidders delaying in submission of additional information or clarifications sought will be liable for rejection.
- 3.18.13 Non-submission and/or submission of incomplete data/ information required under the provisions of RfS shall not be construed as waiver on the part of MSEDCL of the obligation of the Bidder to furnish the said data/information unless the waiver is in writing.
- 3.18.14 Only MERC and/ or Bombay High Court shall have exclusive jurisdiction in all matters

pertaining to this RfS.

3.19 Non-responsive Bid

3.19.1 The electronic response to RfS submitted by the bidder along with the documents submitted offline to MSEDCL shall be scrutinized to establish “Responsiveness of the bid”. Each bidder’s response to RfS shall be checked for compliance with the submission requirements set forth in this RfS.

3.19.2 Any of the following conditions shall cause the Bid to be “Non-responsive”:

- a. Non-submission of Cost of RfS and/or Processing fee as mentioned in the Bid Information Sheet.
- b. Non-submission of EMD in acceptable form along with RfS document.
- c. Response to RfS (offline as well as online) not received by the due date and time of bid submission;
- d. Non-submission of correct, valid and operative Pass-Phrase to decrypt either the Technical Bid Part or Financial Bid Part offline before due date and time of submission of bid;
- e. Non-submission of the original documents mentioned in Section 3.20 A by due date and time of bid submission;
- f. Any indication of tariff in any part of response to the RfS, other than in the financial bid.
- g. Data filled in the Electronic form of financial bid (Second envelope), not in line with the instructions mentioned in the same electronic form.
- h. Bidder or any of its Affiliates is a willful defaulter to any lender
- i. Major litigation pending or threatened against the bidder or any of its Affiliates which are of a nature that could cast a doubt on the ability or the suitability of the bidder to undertake the Project
- j. In case it is found that the Bidding Company including Ultimate Parent Company / Parent Company / Affiliate / Group Companies have submitted more than one response to this RfS, then all these bids submitted shall be treated as non-responsive and rejected.
- k. Conditional bids shall be summarily rejected.

3.20 Method of Submission of Response to RfS by the Bidder

A. Documents to be Submitted Offline (in Original):

The bidder has to submit the cluster-wise separate documents for the cluster where it wants to bid, in original as part of Response to RfS to the address mentioned in Bid Information Sheet before the due date and time of bid submission.

Bidding Envelope: Superscribed as “Bidding Envelope containing Covering Envelope, Pass Phrase Envelope -1 & Pass Phrase Envelope -2” at the top of the Envelope and “Name & Address of the Bidder alongwith cluster details” on the left-hand side bottom must contain the following:

- (i) **Covering Envelope:** Superscribed as “Covering Envelope Containing Cost of RfS Document, Processing Fee, Bank Guarantee towards EMD for each cluster, and Covering Letter, Power of Attorney (if applicable), Consortium Agreement (if applicable), Board Resolution” must contain the following:
- DD/Pay order towards Cost of RfS Document as mentioned in Bid Information Sheet.
 - Processing Fees in the form DD/Pay Order as mentioned in the Bid Information Sheet
 - Bank Guarantee towards EMD for each cluster as mentioned in the Bid Information Sheet (as per Format 6.3A).
 - Covering Letter as per Format-6.1,
 - Power of Attorney as per Format 6.2 (if applicable),
 - Board Resolution as per Format 6.4
 - Consortium Agreement as per Format 6.5 (if applicable)
 - Letter for Disclosure, as per Format 6.6
 - Undertaking for commitment to Financial Closure as per Format 6.8
 - CA Certificate certifying Net Worth
 - List of Shraeholders / Promoters / Directors
- (ii) **Pass-Phrase Envelope-1:** Containing Pass Phrase for Technical Bid duly stamped and signed by the authorized signatory in sealed envelope
- (iii) **Pass-Phrase Envelope-2:** Containing Pass Phrase for Financial Bid duly stamped and signed by the authorized signatory in sealed envelope

The bidding envelope shall contain the following sticker: (illustration)

RESPONSE TO RfS FOR PURCHASE OF POWER THROUGH COMPETITIVE BIDDING PROCESS (FOLLOWED BY REVERSE E-AUCTION) FROM 1000 MW (10 CLUSTERS OF 100 MW) GRID CONNECTED FLOATING SOLAR PHOTOVOLTAIC PROJECTS TO BE SETUP ON UJJANI DAM WATER RESERVOIR IN SOLAPUR DISTRICT OF MAHARASHTRA, INDIA.	
CAPACITY OF PROJECT	_____MW
NO. OF PACKAGES BID FOR	
RfS REFERENCE NO.	RfS NO. MSEDCL/RE/1000 MW/FLOATING SOLAR/T-40 DATED 24.12.2018
SUBMITTED BY	(ENTER FULL NAME AND ADDRESS OF THE BIDDER)
AUTHORIZED SIGNATORY	(SIGNATURE OF THE AUTHORIZED SIGNATORY) (NAME OF SIGNATORY) (STAMP OF BIDDER)
BID SUBMITTED TO	CHIEF ENGINEER (RENEWABLE ENERGY) MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD. (MSEDCL), RENEWABLE ENERGY SECTION, 5TH FLOOR, 'PRAKASHGAD', BANDRA (EAST), MUMBAI - 400 051

B. Documents to be submitted Online:

Detailed instructions to be followed by the bidders for online submission of response to RfS are stated as **Annexure-D and E**. The bidders shall strictly follow the instructions mentioned in the electronic form in respective technical bid and financial bid while filling the form.

If the Bidder has submitted offline documents and fails to submit the online bid, then the same shall be treated as incomplete bid and Cost of RfS, Processing fee submitted shall be encashed and the EMD(s) shall be returned.

All documents of the response to RfS submitted online must be digitally signed on <https://www.tcil-india-electronictender.com> which should contain the following:

1. “Technical Bid (First Envelope)”

The Bidder shall upload single technical bid for each cluster containing the scanned copy of following documents duly signed and stamped on each page by the authorized person as mentioned below.

- (i) Formats - 6.1, 6.2 (if applicable), 6.3 A, 6.4, 6.5 (if applicable), 6.6, 6.8
- (ii) All supporting documents regarding meeting the eligibility criteria
- (iii) The bidder will have to fill the Electronic Form provided at the <https://www.tcil-india-electronictender.com> as part of Technical Bid.

2. “Financial Bid (Second Envelope)”

Bidders shall submit the Financial Bid for each cluster in electronic mode only. Bidders shall submit the single Financial Bid containing the scanned copy of following document(s):

- (i) Covering letter as per Format-6.7 of this RfS document;

Only single tariff bid for all the Projects shall have to be filled online in the Electronic Form provided at the <https://www.tcil-india-electronictender.com>. The instructions mentioned in the Financial Bid Electronic Form have to be strictly followed without any deviation; else the bid shall be considered as non-responsive.

Important Note:

- (i) Any Financial Bid received in the physical form shall be considered as a non-responsive Bid and would be rejected.
- (ii) In the event a Bidder quotes the Tariff higher than the ceiling tariff as specified in this RfS and any subsequent amendments issues by MSEDCL, then such Bid shall be summarily rejected by MSEDCL.
- (iii) The Bidders shall not deviate from the naming and the numbering formats mentioned above, in any manner.
- (iv) Wherever mentioned, the Bidder must clearly indicate the Category under which the respective Project is being proposed. In case of any discrepancy, the Bid will be liable for rejection.

- (v) In each of the Envelopes, all the documents enclosed shall be indexed and flagged appropriately, with the index list indicating the name of the document against each flag.
- (vi) All the Envelopes shall be properly sealed with the signature of the Authorized Signatory running across the sealing of the envelopes.

3.21 Validity of the Response to RfS

3.21.1 The Bidder shall submit the response to RfS which shall remain valid up to One Hundred Eighty (180) days from the last date of submission of response to RfS ("Bid Validity"). MSEDCL reserves the right to reject any response to RfS which does not meet the aforementioned validity requirement.

3.22 Bid Preparation Cost

3.22.1 The Bidder shall be responsible for all the costs associated with the preparation of the response to RfS and participation in discussions and attending pre-bid meeting(s), etc. MSEDCL shall not be responsible in any way for such costs, regardless of the conduct or outcome of the bid process.

3.23 Clarifications / Pre Bid meeting / Enquires / Amendments

3.23.1 Clarifications / Doubts, if any, on RfS document may be emailed and/or through <https://www.tcil-india-electronictender.com>

3.23.2 MSEDCL will make effort to respond to the same in the Pre-Bid Meeting to be held as mentioned in the Bid Information Sheet. A compiled list of such questionnaire and MSEDCL's response will be uploaded on MSEDCL's website as well as TCIL's website <https://www.tcil-india-electronictender.com> If necessary, amendments, clarifications, elaborations shall be issued by MSEDCL which will be notified on MSEDCL / TCIL websites. No separate reply / intimation will be given for the above, elsewhere.

3.23.3 A Pre-Bid Meeting shall be held as mentioned in the Bid Information sheet. _

3.24 Right of MSEDCL to Reject a Bid

3.24.1 MSEDCL reserves the right to reject any or all of the responses to RfS or cancel the RfS or annul the bidding process for any project at any stage without assigning any reasons whatsoever and without thereby any liability.

3.25 Pre and Post LoA Compliance

3.25.1 Timely completion of all milestones i.e. signing of PPA, meeting Financial Closure requirements, commissioning, etc. will be the sole responsibility of the Successful Bidders and MSEDCL shall not be liable for issuing any intimations / reminders to

them for timely compliance of milestones and/or submission of compliance documents.

Any checklist shared with the Bidders / Successful Bidders by MSEDCL for compliance of milestones shall be for the purpose of facilitation only. Any additional documents required as per the conditions of RfS and PPA must be timely submitted by the Bidders / Successful Bidders.

4 BID EVALUATION AND SELECTION OF PROJECTS

4. BID EVALUATION METHODOLOGY AND SELECTION OF PROJECTS

4.1 Bid Evaluation

- 4.1.1 Bid evaluation will be carried out considering the information furnished by Bidders as per the provisions specified in 3 of this RfS. To ensure competitiveness, the minimum number of qualified Bidders required would be two. If the number of qualified bidders is less than two, even after three attempts of bidding, MSEDCL may continue with the bidding process with the consent of MERC.
- 4.1.2 The detailed evaluation procedure and selection of bidders are described in this Section.

4.2 Techno-commercial Evaluation of bidders

A. First Envelope (Technical Bid) Evaluation (Step-1):

- (i) The first envelope (Technical Bid submitted online) of only those bidders will be opened by MSEDCL whose required documents as mentioned in Section 3.20 are received at MSEDCL's office on or before the due date and time of bid submission.
- (ii) Bid responses received after the bid submission deadline specified in the Bid Information Sheet shall be rejected and returned unopened, if super-scribed properly with address, to the bidder.
- (iii) Subject to Section 3.20, MSEDCL will examine all the documents submitted by the Bidders and ascertain meeting of eligibility conditions prescribed in the RfS. During the examination of the bids, MSEDCL may seek clarifications / additional documents to the documents submitted etc. from the Bidders if required to satisfy themselves for meeting the eligibility conditions by the Bidders. Bidders shall be required to respond to any clarifications / additional documents sought by MSEDCL within 2 days from the date of such intimation from MSEDCL. All correspondence in this regard shall be made through email / <https://www.tcil-india-electronictender.com> only. It shall be the responsibility of the Bidder to ensure that the email id of the authorized signatory of the Bidder is functional. The Bidder may provide an additional email id of the authorized signatory in the covering letter. No reminders in this case shall be sent. It shall be the sole responsibility of the Bidders to remove all the discrepancies and furnish additional documents as requested. MSEDCL shall not be responsible for rejection of any bid on account of the above.
- (iv) The response to RfS submitted by the Bidder shall be scrutinized to establish Techno- Commercial eligibility as per RfS. MSEDCL will declare the list of eligible bidders as per the terms and conditions mentioned in this RfS.

B. Second Envelope (Financial Bid) Evaluation (Step-2):

In this step, cluster-wise evaluations shall be done based on the “Tariff” quoted by the bidders in the Electronic Form of Financial Bid. After this step, the shortlisted bidders shall be invited for the e-Reverse Auction.

- (i) Second Envelope (containing Tariff) of only those bidders shall be opened whose technical bids are found to be qualified.
- (ii) The bidders including its Parent, Affiliate or Ultimate Parent or any Group Company will have to submit bid (single application) quoting tariff per kWh for the project. Tariff can be quoted up to two places of decimal only. If it is quoted with more than two digits after decimal, it shall be ignored after first two decimal places. (For e.g. if the quoted tariff is ₹3.337, then it shall be considered as ₹3.33).

In this step, evaluation will be carried out based on tariff quoted by the Bidders. Tariff has to be less than INR 3.00/ kWh. Those bids where the tariff quoted is more than INR 3.00/ kWh, shall be summarily rejected.

Note: On completion of Techno-commercial bid evaluation, if it is found that only one bidder is eligible, opening of the financial bid of the bidder will be at the discretion of MSEDCL. Thereafter MSEDCL will take appropriate action by taking necessary approval with MERC.

- (iii) If the first-round tariff quoted is same for two or more bidders, then all the bidders with same tariff shall be considered of equal rank/ standing in the order.
- (iv) All qualified bidders shall be eligible for e-reverse auction round.
- (v) Ranking of bidders after Financial Bid Evaluation: In case of financial bids received from all bidders are in the form of tariff, ranking of bidders shall be done accordingly. For example:

Bidder	Submitted Financial bid	Ranking
B8	Rs. 2.30 (Tariff in Rs./ kWh)	L1
B5	Rs. 2.70 (Tariff in Rs./ kWh)	L2
B1	Rs. 2.80 (Tariff in Rs./ kWh)	L3
B4	Rs. 2.80 (Tariff in Rs./ kWh)	L3
B2	Rs. 2.90 (Tariff in Rs./ kWh)	L4
B3	Rs. 2.91 (Tariff in Rs./ kWh)	L5
B7	Rs. 2.95 (Tariff in Rs./ kWh)	L6
B6	Rs. 3.00 (Tariff in Rs./ kWh)	L7

Bidder	Submitted Financial bid	Ranking
B10	Rs. 3.10 (Tariff in Rs./ kWh)	L8
B9	Rs. 3.20 (Tariff in Rs./ kWh)	L9
B11	Rs. 3.20 (Tariff in Rs./ kWh)	L9

4.3 Reverse Auction (Step-3)

4.3.1 The reverse auction shall be conducted with L1 bidder rate separately for each cluster on <https://www.tcil-india-electronictender.com>. Reverse Auction shall be carried out as specified in “Bid Information Sheet” of this RfS. MSEDCL shall inform the schedule for the e-reverse auction to the eligible bidders.

4.3.2 Shortlisted bidders for Reverse Auction will be able to login into <https://www.tcil-india-electronictender.com> for reverse auction 15 minutes before the start time of reverse auction.

- (i) During 15 minutes prior to start of reverse auction process, the respective tariff along with the total project capacity of the bidder shall be displayed on its window.
- (ii) The minimum decrement value for tariff shall be ₹ 0.01 per kWh. The bidder can mention its revised tariff which has to be at least 01 (one) paisa less than its current tariff.
- (iii) Bidders can only quote any value lower than their previous quoted tariff taking into consideration of the minimum decrement value mentioned in previous Section. However, at any stage, increase in tariff will not be permissible. Bidders can improve their ranking by quoting the tariff lower than their last quoted tariff.
- (iv) During Reverse Auction, the bidder shall not have the option of changing the total project capacity while quoting tariff during reverse auction.
- (v) In the bidder’s bidding window, the following information can be viewed by the bidder:
 - a. Its tariff as their initial start price and there after last quoted tariff along with project capacity for which the bidder is qualified;
 - b. The list of all the bidders with their following details: Pseudo Identity, last quoted tariff and project capacity
- (vi) The initial auction period will be of 60 minutes (sixty minutes) with a provision of auto extension by eight minutes from the scheduled / extended closing time if any fresh bid is received in last five minutes of auction period or extended auction period. If no valid bid is received during last five minutes of auction period or extended auction period, then the reverse auction process will get closed.

4.4 Selection of Successful Bidders

- 4.4.1 The bidder with the lowest quoted tariff (being L1) shall be selected for the development of 100 MW floating solar power project at the cluster/location specified in Clause 1.1.8 and Clause 3.2.33.2.2.
- 4.4.2 In case of tie, among two or more bidders (i.e. their last quoted tariff being the same) they will be considered in the chronological order of their last bid with preference to that bidder who has quoted his last bid earlier than others.
- 4.4.3 In the above case (as mentioned in previous Section), if the time of quote also becomes exactly same among the bidders at a tie, then the ranking among these bidders shall be done as follow:
- Step – 1: Lowest rank will be given to the bidder who has quoted the lowest in Financial Bid (Electronic Form) and so on. If there is also a tie among any of these bidders, then the following step (Step 2) will be followed.
 - Step – 2: Ranking will be done based on draw of lots.
- 4.4.4 At the end of selection process, Letter of Award (LOA) will be issued to the Successful Bidder. In case of Consortium being selected as Successful Bidder, the LOA shall be issued to the Lead Member of the Consortium.

In all cases, MSEDCL's decision regarding selection of bidder through Reverse Auction or otherwise based on tariff or annulment of tender process shall be final and binding on all participating bidders.

5 OTHER PROVISIONS

5. Other Provisions

5.1 Role of MEDA (as State Nodal Agency)

5.1.1 MEDA will provide necessary support to facilitate the required approvals and sanctions so as to achieve commissioning of the Projects. This may include facilitation in the following areas: -

- (xi) Issuance of commissioning certificates after due verification of documents relating to land acquisition and connectivity with MSETCL / MSEDCL and verification of technical specifications of solar project as per Annexure A.
 - While certifying commissioning, MEDA shall ensure that all equipment as per rated project capacity has been installed and energy has flown into the grid.

5.2 Role of MSETCL

5.2.1 It is envisaged that the MSETCL will provide transmission system to facilitate the evacuation of power from the Projects which may include the following:

- Upon application for Connectivity as per MERC Regulations, MSETCL shall coordinate with the concerned agencies for grant of connectivity.

6 FORMATS FOR BID SUBMISSION

6. Formats for Bid Submission

The following formats are required to be submitted as part of the RfS. These formats are designed to demonstrate the Bidder's compliance with the Qualification Requirements set forth in Section 3.7, 3.15, 3.18 of Section 3 and other submission requirements specified in the RfS.

- i) Format of Covering Letter (Format 6.1)
- ii) Format for Power of Attorney (Format 6.2)
- iii) Format for Earnest Money Deposit (EMD) (Format 6.3 A)
- iv) Format for Performance Bank Guarantee (Format 6.3 B)
- v) Format for Board Resolutions (Format 6.4)
- vi) Format for the Consortium Agreement (Format 6.5)
- vii) Format for Disclosure (Format 6.6)
- viii) Format for submission of Financial Bid (Format 6.7)
- ix) Format of commitment to Financial Closure (Formats 6.8)
- x) Technical Requirements for Grid Connected Solar Power Projects (Annexure - A)
- xi) Check List for Bank Guarantees (Annexure-B)
- xii) List of Banks (Annexure-C)
- xiii) Special Instructions to Bidders for e-Tendering and Reverse Auction (Annexure-D)
- xiv) Terms & Conditions of Reverse Auction Procedure (Annexure-E)

The Bidder may use additional sheets to submit the information for their detailed response.

FORMAT 6.1

Covering Letter

(The covering letter should be on the Letter Head of the Bidding Company / Lead Member of the Bidding Consortium)

Date: Reference No:

From: (Insert name and address of Bidding
Company/ Lead Member of the Bidding Consortium)

Tel. #: Fax#:

E-mail address#

To.

Chief Engineer (PP)

Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL),

Renewable Energy Section, 5th Floor, 'Prakashgad',

Bandra (East), Mumbai - 400 051

Email – nctendermsedcl@gmail.com

Tel No.022-26580645.

Website – www.mahadiscom.in

Sub: Response to RFS NO. MSEDCL/RE/1000 MW/FLOATING SOLAR/T-40 DATED 24.12.2018 for purchase of power through Competitive Bidding Process (followed by reverse e-auction) from 100 MW grid connected floating solar on Ujjani dam water reservoir in Solapur district of Maharashtra, India.

Dear Sir/Madam,

We, the undersigned [insert name of the 'Bidder'] having read, examined and understood in detail the RFS NO. MSEDCL/RE/1000 MW/FLOATING SOLAR/T-40 DATED 24.12.2018 & Addendums thereto, if any including Qualification Requirements in particular, terms and conditions of the standard PPA for supply of power for 25 years from SCOD of the project by MSEDCL and hereby submit our response to RfS. We confirm that in response to the aforesaid RfS, neither we nor any of our Ultimate Parent Company / Parent Company /

Affiliate / Group Company has submitted response to RfS other than this response to RfS, directly or indirectly, in response to the aforesaid RfS (as mentioned in Format 6.6 under Disclosure). We are submitting application for the development of Floating Solar Project at Ujjani Dam, Solarpur.

1. We give our unconditional acceptance to the RfS dated XX.XX.XXXX, standard PPA and Addendums thereto, if any. In token of our acceptance to the RfS and PPA along with the amendments and clarifications issued by MSEDCL, the same have been digitally signed by us and enclosed with the response to RfS. We shall ensure that the PPA is executed as per the provisions of the RfS, and provisions of PPA shall be binding on us. Further, we confirm that the Project shall be commissioned within 21 months from the date of execution of the PPA.
2. Earnest Money Deposit (EMD): - (Please read Section 3.8 carefully before filling) We have enclosed EMD of Rs... (Insert Amount) in the form of bank guarantee no..... [Insert bank guarantee number] dated [Insert date of bank guarantee] as per Format 6.3A from [Insert name of bank providing bank guarantee] and valid up to.....in terms of Section 3.8 of this RfS. The total capacity of the Solar Power Project offered by us is MW and the CUF shall be%.
3. We hereby declare that in the event our Project gets selected and we are not able to submit Bank Guarantee of the requisite value(s) towards PBG for the Project within due time as mentioned in Section 3.8, respectively on issue of LOA by MSEDCL for the Project and/or we are not able to sign PPA with MSEDCL within 1 month from date of issue of LOA or as intimated by MSEDCL, MSEDCL shall have the right to encash the EMD submitted by us and return the balance amount (if any) for the value of EMD pertaining to unsuccessful capacity.
4. We have submitted our response to RfS strictly as per Section – 6 (Formats) of the RfS , without any deviations, conditions and without mentioning any assumptions or notes in the said Formats.
5. We hereby declare that during the selection process, in the event our Project happens to be the last Project and MSEDCL offers a capacity which is less than our quoted capacity due to overall bid capacity limit, we shall accept such offered capacity.

6. Acceptance: We hereby unconditionally and irrevocably agree and accept that the decision made by MSEDCL in respect of any matter regarding or arising out of the RfS shall be binding on us. We hereby expressly waive and withdraw any deviations and all claims in respect of this process.
7. Familiarity with Relevant Indian Laws & Regulations: We confirm that we have studied the provisions of the relevant Indian laws and regulations as required to enable us to submit this response to RfS, execute the PPA in the event of our selection as Successful Bidder.
8. In case of our selection as the Successful bidder and the project being executed by a Special Purpose Vehicle (SPV) incorporated by us then we shall ensure that our shareholding in the (special purpose vehicle) SPV / project company executing the PPA shall not fall below 51% (fifty-one per cent) at any time prior to 1 (one) year from the COD, except with the prior approval of MSEDCL. We shall infuse necessary equity to the requirements of RfS. Further we will submit a Board Resolution prior to signing of PPA with MSEDCL, committing total equity infusion in the SPV as per the provisions of RfS.
9. We hereby undertake that in the event of our project is selected, we shall be solely responsible for getting the connectivity within the period of 7 months from the date of execution of PPA. In the event of delay in commissioning, the provisions of Section 3.8 & 3.11 of the RfS / relevant Articles of PPA shall be applied. Further, the project shall not be considered as commissioned unless the connectivity with STU / CTU grid is established and MEDA issues certificate of commissioning.
10. We are submitting our response to the RfS with formats duly signed as desired by you in the RfS online for your consideration.
11. It is confirmed that our response to the RfS is consistent with all the requirements of submission as stated in the RfS, including all clarifications and amendments and subsequent communications from MSEDCL.
12. The information submitted in our response to the RfS is correct to the best of our knowledge and understanding. We would be solely responsible for any errors or omissions in our response to the RfS.

13. We confirm that all the terms and conditions of our Bid are valid up to (Insert date in dd/mm/yyyy) for acceptance (i.e. a period of one hundred eighty (180) days from the last date of submission of response to RfS).

14. Contact Person

Details of the representative to be contacted by MSEDCL are furnished as under

Name:

Designation:

Company :

Address :

Phone Nos. :

Mobile Nos. :

Fax Nos. :

E-mail address:

15. We have neither made any statement nor provided any information in this Bid, which to the best of our knowledge is materially inaccurate or misleading. Further, all the confirmations, declarations and representations made in our Bid are true and accurate. In case this is found to be incorrect after our selection as Successful Bidder, we agree that the same would be treated as a Successful Bidder's event of default under PPA and consequent provisions of PPA shall apply.

Dated the day of __, 2018...

Thanking you,

Yours faithfully,

(Name, Designation and Signature of Person Authorized by the board)

FORMAT 6.2

(Applicable only in case of Consortiums)

Format for Power of Attorney

(To be provided by each of the other members of the Consortium in favor of the Lead Member)

Power of Attorney

(To be executed on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution.)

Know all men by these presents that M/s.....having its registered office at ,and M/s having its registered office at , (Insert names and registered offices of all Members of the Consortium) the Members of Consortium have formed a Bidding Consortium named (Insert name of the Consortium if finalized) (hereinafter called the 'Consortium') vide Consortium Agreement dated..... and having agreed to appoint M/s.....as the Lead Member of the said Consortium do hereby constitute, nominate and appoint M/s.....a company incorporated under the laws ofand having its Registered /Head Office atas our duly constituted lawful Attorney (hereinafter called as Lead Member) to exercise all or any of the powers for and on behalf of the Consortium in regard to submission of the response to RFS NO. MSEDCL/RE/1000 MW/FLOATING SOLAR/T-40 DATED 24.12.2018.

We also authorize the said Lead Member to undertake the following acts:

- i) To submit on behalf of Consortium Members response to RfS.
- ii) To do any other act or submit any information and document related to the above response to RfS Bid.

It is expressly understood that in the event of the Consortium being selected as Successful Bidder, this Power of Attorney shall remain valid, binding and irrevocable until the Bidding Consortium achieves execution of PPA.

We as the Member of the Consortium agree and undertake to ratify and confirm all whatsoever the said Attorney/Lead Member has done on behalf of the Consortium Members pursuant to this Power of Attorney and the same shall bind us and deemed to have been done by us.

IN WITNESS WHEREOF M/s as the Member of the Consortium have executed these presents on this..... day ofunder the Common Seal of our company.

For and on behalf of Consortium Member M/s.....

----- (Signature of person authorized by the board)

(Name, Designation, Place, Date)

Accepted

(Signature, Name, Designation and Address

of the person authorized by the board of the Lead Member)

Attested

(Signature of the executant)

(Signature & stamp of Notary of the place of execution)

Place: -----

Date: -----

Note: - Lead Member in the Consortium shall have the controlling shareholding in the Company as defined in Section 2 of the RfS.

FORMAT 6.3 A

Format for Earnest Money Deposit

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution.)

Ref. Bank Guarantee No. Date:

In consideration of the ---- [Insert name of the Bidder] (hereinafter referred to as 'Bidder') submitting the response to RfS inter alia for selection of the Project of the cumulative capacity of MW [Insert cumulative Project capacity proposed] for Procurement of up to 100 MW of Power from grid- Connected Floating Solar Power Projects for long term basis, in response to the RFS NO. MSEDCL/RE/1000 MW/FLOATING SOLAR/T-40 DATED 24.12.2018 and Addendums thereto, if any issued by MSEDCL and MSEDCL considering such response to the RfS of [insert the name of the Bidder] as per the terms of the RfS, the [insert name & address of bank] hereby agrees unequivocally, irrevocably and unconditionally to pay to MSEDCL at [Insert Name of the Place from the address of MSEDCL] forthwith on demand in writing from MSEDCL or any Officer authorized by it in this behalf, any amount up to and not exceeding Rupees ----- [Insert amount not less than that derived on the basis of Rs. 10 Lakhs per MW of cumulative capacity proposed, only, on behalf of M/s. [Insert name of the Bidder] .

This guarantee shall be valid and binding on this Bank up to and including _ [insert date of validity in accordance with Section 3.8 of this RfS] and shall not be terminable by notice or any change in the constitution of the Bank or the term of contract or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between parties to the respective agreement.

Our liability under this Guarantee is restricted to Rs. (Rs. Only).

Our Guarantee shall remain in force until [insert date of validity in accordance with Section 3.8 of this RfS]. MSEDCL shall be entitled to invoke this Guarantee till..... [insert date of validity in accordance with Section 3.8 of this RfS].

The Guarantor Bank hereby agrees and acknowledges that the MSEDCL shall have a right to invoke this BANK GUARANTEE in part or in full, as it may deem fit.

The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand by MSEDCL, made in any format, raised at the above mentioned address of the Guarantor Bank, in order to make the said payment to MSEDCL.

The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection by ----- [Insert name of the Bidder] and/or any other person. The Guarantor Bank shall not require MSEDCL to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against MSEDCL in respect of any payment made hereunder.

This BANK GUARANTEE shall be interpreted in accordance with the laws of India and the courts at Maharashtra shall have exclusive jurisdiction.

The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

This BANK GUARANTEE shall not be affected in any manner by reason of merger, amalgamation, restructuring or any other change in the constitution of the Guarantor Bank.

This BANK GUARANTEE shall be a primary obligation of the Guarantor Bank and accordingly MSEDCL shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against the Bidder, to make any claim against or any demand on the Bidder or to give any notice to the Bidder or to enforce any security held by MSEDCL or to exercise, levy or enforce any distress, diligence or other process against the Bidder.

The Guarantor Bank acknowledges that this BANK GUARANTEE is not personal to MSEDCL and may be assigned under intimation to us, in whole or in part, (whether absolutely or by way of security) by MSEDCL to any entity to whom MSEDCL is entitled to assign its rights and obligations under the PPA.

Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to Rs. _____ (Rs. only) and it shall remain in force until _____ [Date to be inserted on the basis of Section 3.8 of this RfS]. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if MSEDCL serves upon us a written claim or demand.

Signature

Name

Power of Attorney No.

For

[Insert Name of the Bank]

E-mail ID of the bank:

Banker's Stamp and Full Address. Dated this day of __, 20

Notes:

- 1. The Stamp Paper should be in the name of the Executing Bank and of appropriate value.**
- 2. The Bank Guarantee shall be executed by any of the Bank from the List of Banks mentioned in Annexure C of the RfS.**

FORMAT 6.3 B

Format for Performance Guarantee for Solar Power Project

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution.)

In consideration of the ----- [Insert name of the Successful Bidder] (hereinafter referred to as Successful Bidder) submitting the response to RfS inter alia for selection of the Project of the capacity of MW, at[Insert name of the place] for purchase of power through Competitive Bidding Process (followed by e-reverse auction) from 100 MW grid connected Floating Solar Photovoltaic Projects to be setup on Ujjani Dam, Maharashtra in response to the RFS NO. MSEDCL/RE/1000 MW/FLOATING SOLAR/T-40 DATED 24.12.2018 and Addendums thereto, if any issued by Maharashtra State Electricity Distribution Company Ltd (hereinafter referred to as MSEDCL) and MSEDCL considering such response to the RfS of[insert the name of the Successful Bidder] (which expression shall unless repugnant to the context or meaning thereof include its executors, administrators, successors and assignees) and selecting the Solar Power Project of the Successful Bidder and issuing Letter of Award No ----- to(Insert Name of Successful Bidder) as per terms of RfS and the same having been accepted by the selected bidders resulting in a Power Purchase Agreement (PPA) to be entered into, for purchase of Power [from Successful Bidder / M/s --- ----- {a Special Purpose Vehicle (SPV) formed for this purpose}, if applicable]. As per the terms of the RfS, the [insert name & address of bank] hereby agrees unequivocally, irrevocably and unconditionally to pay to MSEDCL at Mumbai forthwith on demand in writing from MSEDCL or any Officer authorised by it in this behalf, any amount up to and not exceeding Rupees----- [Total Value] only, on behalf of M/s -----[Insert name of the Successful Bidder / SPV]

This guarantee shall be valid and binding on this Bank up to and including..... and shall not be terminable by notice or any change in the constitution of the Bank or the term of contract or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between parties to the respective agreement.

Our liability under this Guarantee is restricted to Rs..... only.

Our Guarantee shall remain in force until..... MSEDCL shall be entitled to invoke this Guarantee till

The Guarantor Bank hereby agrees and acknowledges that MSEDCL shall have a right to invoke this BANK GUARANTEE in part or in full, as it may deem fit.

The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand by MSEDCL, made in any format, raised at the above mentioned address of the Guarantor Bank, in order to make the said payment to MSEDCL.

The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection by -----[Insert name of the Successful Bidder / SPV] and/or any other person. The Guarantor Bank shall not require MSEDCL to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against MSEDCL in respect of any payment made hereunder

This BANK GUARANTEE shall be interpreted in accordance with the laws of India and the courts at Maharashtra shall have exclusive jurisdiction.

The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

This BANK GUARANTEE shall not be affected in any manner by reason of merger, amalgamation, restructuring or any other change in the constitution of the Guarantor Bank.

This BANK GUARANTEE shall be a primary obligation of the Guarantor Bank and accordingly MSEDCL shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against the [-----][Insert name of the Successful Bidder / SPV], to make any claim against or any demand on the [-----][Insert name of Successful Bidder / SPV] or to give any notice to the [-----][Insert name of the Successful Bidder / SPV] or to enforce any security held by MSEDCL or to exercise, levy or enforce any distress, diligence or other process against the [-----][Insert name of Successful Bidder / SPV].

The Guarantor Bank acknowledges that this BANK GUARANTEE is not personal to MSEDCL and may be assigned under intimation to us, in whole or in part, (whether absolutely or by way of security) by MSEDCL to any entity to whom MSEDCL is entitled to assign its rights and obligations under the PPA.

Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to Rs (Rs. only) and it shall remain in force until

We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if MSEDCCL serves upon us a written claim or demand.

Signature

Name

Power of Attorney No.

For

[Insert Name of the Bank]

E-mail ID of the bank:

Banker's Stamp and Full Address. Dated this day of __, 20

Witness:

1. Signature

Name and Address

2. Signature

Name and Address

Notes:

- 1. The Stamp Paper should be in the name of the Executing Bank and of appropriate value.**
- 2. The Bank Guarantee shall be executed by any of the Bank from the List of Banks mentioned in Annexure C of the RfS.**

FORMAT-6.4

Format for Board Resolution

The Board, after discussion, at the duly convened Meeting on (Insert date), with the consent of all the Directors present and in compliance of the provisions of the Companies Act, 1956 or Companies Act 2013, as applicable, passed the following Resolution:

1. RESOLVED THAT Mr/Ms....., be and is hereby authorized to do on our behalf, all such acts, deeds and things necessary in connection with or incidental to our response to RFS NO. MSEDCL/RE/1000 MW/FLOATING SOLAR/T-40 DATED 24.12.2018 and Addendums thereto, if any for purchase of power through Competitive Bidding Process (followed by reverse e-auction) from 100 MW grid connected Solar Photovoltaic Projects to be setup at xxxx location on Ujjani Dam, Maharashtra as per provision of Clause 1.1.8 and Clause 3.2.3 including signing and submission of all documents and providing information / response to RfS to Maharashtra State Electricity Distribution Company Ltd (MSEDCL), representing us in all matters before MSEDCL, and generally dealing with MSEDCL in all matters in connection with our bid for the said Project. (To be provided by the Bidding Company or the Lead Member of the Consortium)
2. FURTHER RESOLVED THAT pursuant to the provisions of the Companies Act, 1956 or Companies Act, 2013, as applicable and compliance thereof and as permitted under the Memorandum and Articles of Association of the Company, approval of the Board be and is hereby accorded to invest total equity in the Project. (To be provided by the Bidding Company)

[Note: In the event the Bidder is a Bidding Consortium, in place of the above resolution at Sl. No. 2, the following resolutions are to be provided]

3. FURTHER RESOLVED THAT pursuant to the provisions of the Companies Act, 1956 or Companies Act, 2013, as applicable and compliance thereof and as permitted under the Memorandum and Articles of Association of the Company, approval of the Board be and is hereby accorded to invest (----%) equity [Insert the % equity commitment as specified in Consortium Agreement] in the Project. (To be provided by each Member of the Bidding Consortium including Lead Member such that total equity is 100%)

4. FURTHER RESOLVED THAT approval of the Board be and is hereby accorded to participate in consortium with M/s ----- [Insert the name of other Members in the Consortium] and Mr/Ms....., be and is hereby authorized to execute the Consortium Agreement. (To be provided by the each Member of the Bidding Consortium including Lead Member)
5. FURTHER RESOLVED THAT approval of the Board be and is hereby accorded to contribute such additional amount over and above the percentage limit (specified for the Lead Member in the Consortium Agreement) to the extent becoming necessary towards the total equity share in the Project Company, obligatory on the part of the Consortium pursuant to the terms and conditions contained in the Consortium Agreement dated executed by the Consortium as per the provisions of the RfS. [To be passed by the Lead Member of the Bidding Consortium]

Certified true copy

(Signature, Name and stamp of Company Secretary)

Notes:

- 1) This certified true copy should be submitted on the letterhead of the Company, signed by the Company Secretary/ Director.
- 2) The contents of the format may be suitably re-worded indicating the identity of the entity passing the resolution.
- 3) This format may be modified only to the limited extent required to comply with the local regulations and laws applicable to a foreign entity submitting this resolution. For example, reference to Companies Act, 1956 or Companies Act, 2013 as applicable may be suitably modified to refer to the law applicable to the entity submitting the resolution. However, in such case, the foreign entity shall submit an unqualified opinion issued by the legal counsel of such foreign entity, stating that the Board resolutions are in compliance with the applicable laws of the respective jurisdictions of the issuing Company and the authorizations granted therein are true and valid.

FORMAT- 6.5

Format for Consortium Agreement

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution)

This Consortium Agreement (“Agreement”) executed on this day of Two thousand between M/s [insert name of Lead Member], a Company incorporated under the laws of and having its Registered Office at (hereinafter called the “Member-1”, which expression shall include its successors, executors and permitted assigns) and M/s , a Company incorporated under the laws of and having its Registered Office at (hereinafter called the “Member-2”, which expression shall include its successors, executors and permitted assigns), M/s , a Company incorporated under the laws of and having its Registered Office at (hereinafter called the “Member-n”, which expression shall include its successors, executors and permitted assigns), [The Bidding Consortium should list the details of all the Consortium Members] for the purpose of submitting response to RfS execution of Power Purchase Agreement (in case of award), against RfS No. MSEDCL / 100 MW / Floating Solar dated 08.06.2018 and Addendums thereto, if any issued by Maharashtra State Electricity Distribution Company (MSEDCL) a Company incorporated under the Companies Act, 1956 or Companies Act, 2013 as applicable, and having its Registered Office at or constituted under

WHEREAS,

each Member individually shall be referred to as the “Member” and all of the Members shall be collectively referred to as the “Members” in this Agreement.

WHEREAS,

MSEDCL desires to purchase power from 100 MW grid connected Floating Solar Power Projects to be setup on Ujjani Dam, Maharashtra through Competitive Bidding Process (followed by reverse e-auction)

WHEREAS,

MSEDCL had invited response to RfS vide its Request for Selection (RfS) dated

WHEREAS,

the RfS stipulates that in case response to RfS is being submitted by a Bidding Consortium, the Members of the Consortium will have to submit a legally enforceable Consortium Agreement in a format specified by MSEDCL wherein the Consortium Members have to commit equity investment of a specific percentage for the Project.

NOW THEREFORE, THIS AGREEMENT WITNESSTH AS UNDER:

In consideration of the above premises and agreements all the Members in this Bidding Consortium do hereby mutually agree as follows:

- 1) We, the Members of the Consortium and Members to the Agreement do hereby unequivocally agree that Member-1 (M/s _), shall act as the Lead Member as defined in the RfS for self and agent for and on behalf of Member-2, -----, Member- n and to submit the response to the RfS.
- 2) The Lead Member is hereby authorized by the Members of the Consortium and Members to the Agreement to bind the Consortium and receive instructions for and on their behalf.
- 3) Notwithstanding anything contrary contained in this Agreement, the Lead Member shall always be liable for the equity investment obligations of all the Consortium Members i.e. for both its own liability as well as the liability of other Members.
- 4) The Lead Member shall be liable and responsible for ensuring the individual and collective commitment of each of the Members of the Consortium in discharging all of their respective equity obligations. Each Member further undertakes to be individually liable for the performance of its part of the obligations without in any way limiting the scope of collective liability envisaged in this Agreement.
- 5) Subject to the terms of this Agreement, the share of each Member of the Consortium in the issued equity share capital of the Project Company is/shall be in the following proportion:

Name	Percentage
Member 1	---
Member 2	---
Member n	---
Total	100%

We acknowledge that after the execution of PPA, the controlling shareholding (having not less than 51% of the voting rights and paid up share capital) in the Project Company developing the Project shall be maintained for a period of (1) one year after commencement of supply of power.

- 6) The Lead Member, on behalf of the Consortium, shall inter alia undertake full responsibility for liaising with Lenders or through internal accruals and mobilizing debt

resources for the Project, and ensuring that the Successful Bidder achieves Financial Closure in terms of the PPA.

- 7) In case of any breach of any equity investment commitment by any of the Consortium Members, the Lead Member shall be liable for the consequences thereof.
- 8) Except as specified in the Agreement, it is agreed that sharing of responsibilities as aforesaid and equity investment obligations thereto shall not in any way be a limitation of responsibility of the Lead Member under these presents.
- 9) It is further specifically agreed that the financial liability for equity contribution of the Lead Member shall not be limited in any way so as to restrict or limit its liabilities. The Lead Member shall be liable irrespective of its scope of work or financial commitments.
- 10) This Agreement shall be construed and interpreted in accordance with the Laws of India and courts at alone shall have the exclusive jurisdiction in all matters relating thereto and arising thereunder..
- 11) It is hereby further agreed that in case of being selected as the Successful Bidder, the Members do hereby agree that they shall furnish the Performance Guarantee in favour of MSEDCL in terms of the RfS.
- 12) It is further expressly agreed that the Agreement shall be irrevocable and shall form an integral part of the Power Purchase Agreement (PPA) and shall remain valid until the expiration or early termination of the PPA in terms thereof, unless expressly agreed to the contrary by MSEDCL.
- 13) The Lead Member is authorized and shall be fully responsible for the accuracy and veracity of the representations and information submitted by the Members respectively from time to time in the response to RfS.
- 14) It is hereby expressly understood between the Members that no Member at any given point of time, may assign or delegate its rights, duties or obligations under the PPA except with prior written consent of MSEDCL.
- 15) This Agreement
 - a) has been duly executed and delivered on behalf of each Member hereto and constitutes the legal, valid, binding and enforceable obligation of each such Member;
 - b) sets forth the entire understanding of the Members hereto with respect to the subject matter hereof; and
 - c) may not be amended or modified except in writing signed by each of the Members and with prior written consent of MSEDCL.
- 16) All the terms used in capitals in this Agreement but not defined herein shall have the meaning as per the RfS and PPA.

IN WITNESS WHEREOF, the Members have, through their authorized representatives, executed these present on the Day, Month and Year first mentioned above.

For M/s----- [Member 1]

(Signature, Name & Designation of the person authorized vide Board Resolution Dated)

Witnesses:

1) Signature-----

Name: Address:

2) Signature -----

Name: Address:

For M/s----- [Member 2]

(Signature, Name & Designation of the person authorized vide Board Resolution Dated)

Witnesses:

1) Signature -----

Name: Address:

2) Signature -----

Name: Address:

For M/s----- [Member n]

(Signature, Name & Designation of the person authorized vide Board Resolution Dated [●])

Witnesses:

1) Signature -----

Name: Address:

(2) Signature -----

Name: Address:

Signature and stamp of Notary of the place of execution

FORMAT- 6.6

Format for Disclosure

[On Stamp Paper duly notarized]

Disclosure

We hereby declare and confirm that only we are participating in the RfS Selection process for the RFS NO. MSEDCL/RE/1000 MW/FLOATING SOLAR/T-40 DATED 24.12.2018 and Addendums thereto, if any and that our Parent, Affiliate or Ultimate Parent or any Group Company with which we have direct or indirect relationship are not separately participating in this selection process.

We further undertake that we / our Parent or Affiliate or Ultimate Parent or any Group Company with which we have direct or indirect relationship are not willful defaulter to any lender and there is no major litigation pending or threatened against us or any of our Affiliates which are of a nature that could cast a doubt on our ability or sustainability to undertake the Project.

We further declare that the above statement is true & correct. We are aware that if at any stage it is found to be incorrect, our response to RfS will be rejected and if LOA has been issued or PPA has been signed, the same will be cancelled and the bank guarantees will be encashed and recoveries will be effected for the payments done.

(Signature & Name of the person Authorized By the board)

Date:

FORMAT- 6.7

Financial proposal

Covering Letter

(On Bidder's letter head)

[Date and Reference]

To,

Chief Engineer (PP)

Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL),

Renewable Energy Section, 5th Floor, 'Prakashgad',

Bandra (East), Mumbai - 400 051

Sub.: Response to RfS No. MSEDCL / 100 MW / Floating Solar dated 08.06.2018 for purchase of power through Competitive Bidding Process (followed by reverse e-auction) from 100 MW grid connected Floating Solar Photovoltaic Projects to be setup on Ujjani Dam, Maharashtra

Dear Sir,

I/ We,

(Applicant's name) enclose herewith the Financial Proposal for

Selection of my / our firm for a cumulative capacity of _____MW as Bidder for above.

I/ We agree that this offer shall remain valid for a period of 180 (One Hundred and Eighty) days from the due date of submission of the response to RfS such further period as may be mutually agreed upon..

Note:

1. There can be only one tariff. If the bidder quotes two tariffs, then the bid shall be considered as non-responsive.
2. If the bidder submits the financial bid in the Electronic Form at <https://www.tcil-india-electrontender.com> not in line with the instructions mentioned therein, then the bid shall be considered as non-responsive.

3. Tariff requirement shall be quoted as a fixed amount in Indian Rupees only. Conditional proposal shall be considered as non-responsive and summarily rejected.
4. In the event of any discrepancy between the values entered in figures and in words, the values entered in words shall be considered.
5. The tariff should be mentioned up to two places of decimal only.
6. The Financial bid is not to be mentioned anywhere other than the Electronic Form and only the financial bid mentioned in the Electronic form will be considered for further evaluation

Authorized Signatory

Name:

Designation

Name of the Firm/Consortium Address

FORMAT- 6.8

Format of Commitment to Financial Closure

[(On Stamp Paper duly notarised)]

We hereby undertake in line with Section 3.10 under the title “Financial Closure” that the following details shall be furnished within 12 (twelve) months from the date of execution of PPA:-

- Evidence of achieving complete tie-up of Project Cost through internal accruals or through external Financing Agency
- Connectivity arrangement with STU and/or CTU, if applicable and requisite consent for Power Evacuation from STU and/or CTU, if applicable confirming technical feasibility of connectivity of the Solar Power Project upto the connection at the nearest EHV substation of MSETCL/STU including the transmission network at the Delivery Point i.e. the EHV pooling substation that shall be developed by the Successful Bidder.
- Evidence of clear possession of the required land for the Project along with the following documentary evidence:-
 - (i) Ownership of lease hold and possession of 100% (hundred per cent) of the required land for the Project in the name of Solar Project Developer
 - (ii) Certificate by the concerned and competent revenue / registration authority for acquisition / ownership / right to use / vesting of land in the name of Solar Project Developer
 - (iii) No Objection Certificate / Environmental clearance (if applicable) for the Project.
 - (iv) Forest Clearance (if applicable) for the land for the Project.
 - (v) Approval for Water from the concerned authority (if applicable) required for the Project.
 - (vi) Sworn affidavit from the authorized person listing the details of the land and certifying total land required for the project under clear possession of the successful bidder.
 - (vii) The technology adopted as per Annexure A.

List of Preferred Locations the bidder chooses to bid for:

Preference Number	Name of Location
-------------------	------------------

1	
2	
...	

Failure or delay on our part in achieving the above conditions shall constitute sufficient grounds for encashment of our Performance Bank Guarantee.

(Signature & Name of the person Authorized By the board)

Date:

ANNEXURE – A: TECHNICAL PARAMETER OF PV MODULE AND VARIOUS OTHER COMPONENTS FOR USE IN GRID CONNECTED FLOATING SOLAR POWER PLANTS

All components of the floating solar PV project shall be in accordance with technical specifications given in relevant IS/IEC Standards. The design and commissioning also shall be as per latest IEC/IS standards. The following are some of the technical measures required to ensure quality of the major components used in grid connected solar power Projects.

1. Site Details and Site Assessment

- a. Each 100 MW Floating Solar Power Plant shall be installed at Ujjani Dam, Solapur, Maharashtra, India.
- b. The Bidder before submitting the bids shall conduct the study regarding Bathymetry and Hydrography so that he has fair understanding of required mooring/anchoring system and associated cost. Bidder shall carry out the detailed site survey, study the bathymetric chart of the water body, shall apprise himself regarding information such water properties, depth of reservoir, variation in the depth of water reservoir, water flow rate, climatic conditions, requirement statutory approvals etc., before submitting the bid. Claims and objections due to ignorance of site condition will not be considered after submission of the bid.
- c. Bidder shall fully acquaint himself as to all conditions and matters, which may in any way affect the work or the cost thereof. The bidder shall be deemed to have independently obtained all necessary information for the purpose of preparing the bid and his bid as accepted shall be deemed to have taken in to account all contingencies as may arise due to such information or lack of the same.
- d. Bidder shall be deemed to have visited and carefully examine the site and surroundings to have satisfied himself about the nature of all existing facilities, infrastructure available for transport and communications and the access to the site for developing Solar PV project.
- e. Bidder is deemed to have acquainted himself of government taxes, laws structure, regulations, levies and other charges relating to the tendered work at site.

2. Floating Solar System

- a. A Grid Connected Floating Solar Photovoltaic (FSPV) System shall consist of mainly the following components but not limited to any other components and accessories.
 - I. Solar panels

- II. Floating system
- III. Module mounting structure
- IV. Mooring and anchoring system
- V. Junction boxes
- VI. Power conditioning unit (PCU)
- VII. Metering system
- VIII. Earthing system
- IX. Cable and accessories

- b. Technical standards for photovoltaic modules, Power Conditioners, invertors, cable, cable connectors, Earthing Systems are available for ground mounted Solar PV Power plants which are useful for the floating solar project also, however the material shall be of marine grading.
- c. The design of Floating system shall be certified by Third Party agency for safety and strength of the system.
- d. The floating system shall be designed in such a way that it shall appropriately incorporate sizing of walking platforms for regular maintenance and inspection.
- e. In regards to the floating structure, Mooring System and Anchoring System, FSPD in absence of specific standards and specifications shall discover standards and specification and shall comply with them so that it withstands maximum wind speed, the variation of water level, the nature forces such as wind/ water flow, the extreme weather conditions such as cyclones, etc.
- f. The design of anchoring system shall be certified by an accredited national / international laboratory. The available data of last 5 years with WRD will be shared with developer regarding maximum rain, wind speed, Maximum solar radiations, wind direction, pressure, temperature, humidity, etc. However, it is recommended that developer should carry out a study at his own before bidding for the project. Accordingly, Suitable anchoring and mooring system shall be designed for maximum water level variation of water body.
- g. Floating structure shall be able to sustain for a minimum period of 25 years without any discoloration. Floats shall be treated with UV stabilizer, chemically resistant to acid, lye, petrol and mineral oil and also partially resistant to benzene. Floating structure shall not contaminate the water of the reservoir.
- h. The floating Structure shall have minimum strength at ambient temperature of the site location or minimum range of (+) 50 to (-) 10 deg Celsius, while it shall be

designed to have safety factor of minimum 1.15 on extreme conditions and shall be able to withstand the maximum wind speed of the location and the weight of O&M Personal, carrying Tools, the forces of nature such as wind/water flow etc.

- i. Standards not limited to any other standard applied from time to time shall be followed for floating Structures, i.e. ASTM D1693, ISO16770, IS 15410:2003, RoHS directive 2002/ 95/EC, ASTM D790, ISO 178, ASTM D638, ISO 527, ASTM D695, ISO 604, SO16770, ASTM D2565, ASTM D4329, ASTM G7/G7M-11, ASTM D5397-07, IS 15410:2003, etc.
- j. Photovoltaic Modules shall comply with the specified latest edition of IEC/ equivalent BEC standards such as IEC 61215-1, IEC 61730-1, IEC 61701, IEC 62716, IEC TS 62804-1, etc.
- k. For Power conditioner and invertors, relevant standards such as IEC 61683, IEC 60068-2/ IEC 62093, IEC 61000-6-2, IEC 61000-6-4 & other relevant parts of IEC 61000, IEC 62103/ 62109-1&2, IEEE1547/IEC 62116/ UL1741 or equivalent BIS Standards, etc. shall be applicable.
- l. In respect to the cable and connectors, it is recommended that the Cables of 600-1800 Volts DC for outdoor installations shall be used and should comply with the BS/ EN EN50618/ TUV 2pfg 1169/08/07 for service life expectancy of 25 years. The Cables which passes through water shall be the marine grade cables. Cables should have adequate protection system to withstand the adverse environmental condition of the site.
- m. Earthing system shall comply with latest revisions and amendments of the relevant IEC standards and IS codes particularly IS 3043, IEEE 80, IEEE 142 and Indian Electricity Rules.

3. PV Module Qualification

The PV modules used in the grid connected solar power Projects must qualify to the latest edition of any of the following IEC PV module qualification test or equivalent BIS standards.

Standard	Description
IEC 61215-1 Ed. 1.0	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1: Test requirements
IEC 61215-1-1 Ed. 1.0	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules
IEC 61730-1Ed. 2.0	Photovoltaic (PV) module safety qualification - Part 1: Requirements for construction

IEC 61730-2 Ed.2	Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing
IEC 61701 Ed.2	Salt mist corrosion testing of photovoltaic (PV) modules (Applicable for coastal and marine environment)
IEC 62716 Ed.1	Photovoltaic (PV) modules - Ammonia corrosion testing
IEC TS 62804-1 Ed.1	Photovoltaic (PV) modules - Test methods for the detection of potential-induced degradation - Part 1: Crystalline silicon

4. Floating Device

The SPD shall follow the below mentioned standard not limited to any other standard applied from time to time.

No.	Standards	Description
1.	ASTM D1693 (or equivalent ISO Standards)	Test for Environmental Stress Cracking of HDPE
2.	ISO16770	Stress cracking resistance of HDPE
3.	IS 15410:2003 or equivalent BS 6920:2014	Test for drinking water compatibility, Material safe for drinking water
4.	RoHS directive 2002/ 95/EC	Test for Restriction of Hazardous Substances
5.	ASTM D790 (or equivalent ISO Standards)	Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials
6.	ISO 178	Plastics -- Determination of flexural properties
7.	ASTM D638, ISO 527	Standard Test Method for Tensile Properties of Plastics
8.	ASTM D695, ISO 604	Standard Test Method for Compressive Strength Properties of Plastics
9.	ISO16770	Full Notch Creep Test (FNCT)
10.	ASTM D2565 (or equivalent ISO Standards)	Standard Practice for Xenon-Arc Exposure of Plastic intended for outdoor Applications
11.	ASTM D4329(or equivalent ISO Standards)	Standard Practice for fluorescent ultraviolet (UV) lamp apparatus exposure of plastics
12.	ASTM G7/G7M-11(or equivalent ISO Standards)	Standard Practice for atmospheric environmental exposure testing of non-metallic
13.	ASTM D1693-15 (or equivalent ISO Standards)	Standard Test Method for Environmental stress cracking of Ethylene plastics

14.	ASTM D5397-07(2012)	Standard Test Method for Environmental stress crack resistance of polyolefin geomembrane
15.	IS 15410:2003 or equivalent BS6920	Containers for Packaging of natural mineral water and package drinking water

- a. The floatation device should be manufactured from appropriate thermoplastic with UV stabilizer such that the life of floatation device shall be able to sustain for a minimum period of 25 years without any discoloration.
- b. Float system should be designed to withstand the maximum wind speed of the location and shall be able to withstand the weight of O&M Personal, carrying Tools, the forces of nature such as wind/water flow etc.
- c. The material used for floatation device shall be chemically resistant to acid, lye, petrol and mineral oil and also partially resistant to benzene does not contaminate the water of the reservoir.
- d. The floatation device, when installed in the raw water reservoir, shall not restrict the process of gas exchange across the air water interface. In order to facilitate this, the design of the floatation device shall be such that appropriate voids and shall form an integral part of the floatation device design.
- e. It is mandatory for the FSPD to provide necessary gaps between the adjacent groups of floating structures which will provide sufficient exposure of sunlight and air to the water surface of the reservoir in order to avoid any effect on the aquatic life.
- f. The floatation device shall have minimum strength at ambient temperature of the site location or minimum range of (+) 50 to (-) 10 deg C, while it shall be designed to have safety factor of minimum 1.15 on extreme conditions.
- g. The floating system shall be tested for aerodynamic design by subjecting to wind tunnel test imposed from all wind directions on real scale and real angle.
- h. PV fixation system shall be of proven design and subjected to Mechanical test to withstand unit failure conditions under static and fatigue conditions for wind speeds to withstand the maximum wind speed of the area.

5. Anchoring/ Mooring System

- a. The minimum Life of the Anchoring system shall be 25 years

- b. The Anchors shall be sturdy enough to withstand minimum wind speed at that location
- c. Anchoring system shall be able to withstand the depth/ level variation of water level
- d. The Anchoring system shall be able to withstand the nature forces such wind/ water flow
- e. The materials used in the anchoring system shall not contaminate the water of the reservoir or affect the aquatic ecosystem.
- f. The anchoring system should withstand the extreme weather conditions
- g. The design of anchoring system shall be certified by an accredited national / international lab to fulfil the above conditions.

6. Power Conditioners/ Inverters

The Power Conditioners/Inverters of the SPV power plants must conform to the latest edition of IEC/ equivalent BIS Standards as specified below:

Efficiency Measurements	IEC 61683
Environmental Testing	IEC 60068-2/ IEC 62093
Electromagnetic Compatibility (EMC)	IEC 61000-6-2, IEC 61000-6-4
Electrical Safety	IEC 62103/ 62109-1&2
Protection against Islanding of Grid	IEEE1547/IEC 62116/ UL1741 or equivalent EN/BIS Standards
LVRT Compliance	As per the latest MERC/ CERC Guidelines/ Order/ Regulations
Grid Connectivity	Relevant MERC/ CERC Regulations (including LVRT compliance) and Grid Code as amended and revised from time to time.
Rated capacity	Nominal/ Rated output power of the inverter (if different power ratings are mentioned at different temperatures, then power rating at 500 C shall be considered) in kW will be considered as inverter rated capacity.

7. Cables and connectors:

All cables and connectors for used for installation of solar field must be of solar grade which can withstand harsh environment conditions for 25 years from the SCOD of the project and voltages as per latest IEC standards. It is recommended that the Cables of 600-1800 Volts DC for outdoor installations should comply with the EN50618/ TUV 2pfg 1169/08/07 or equivalent IS for service life expectancy of 25 years.

Wherever the cables pass through water, the marine grade cables shall be used. Cables should have adequate protection system to withstand the adverse environmental condition of the site.

8. Earthing

Earthing system shall comply with latest revisions and amendments of the relevant IEC standards and IS codes. In particular, Earthing system shall comply with the following standards and codes.

Standard/Code	Description
IS 3043	Code of Practice for Earthing
IEEE 80	IEEE Guide for Safety in AC Substation Grounding
IEEE 142	IEEE Recommended Practice for Grounding of Industrial and Commercial Power Systems
Indian Electricity Rules	

9. Other Sub-systems/Components

Other subsystems/components used in the SPV power plants (Cables, Connectors, Junction Boxes, Surge Protection Devices, etc.) must also conform to the relevant international/national Standards for Electrical Safety besides that for Quality required for ensuring Expected Service Life and Weather Resistance

10. Authorized Test Centres

The PV modules / Power Conditioners deployed in the power plants must have valid test certificates for their qualification as per above specified IEC/ BIS Standards by one of the NABL Accredited Test Centres in India. In case of module types/ equipment for which such Test facilities may not exist in India at present, test certificates from reputed ILAC Member body accredited Labs abroad will be acceptable.

11. Warranty

- a. PV modules used in grid connected solar power plants must be warranted for peak output wattage, which should not be less than 90% at the end of 10 years and 80% at the end of 25 years from the COD of the project.
- b. The modules shall be warranted for at least 10 years for failures due to material defects and workmanship.
- c. The mechanical structures, electrical works and overall workmanship of the grid solar power plants must be warranted for a minimum of 5 years.
- d. The Inverters/PCUs installed in the solar power plant must have a warranty for 5 years.
- e. The Floats should be Warranted for atleast twenty five years.
- f. The Anchoring System should be warranted for atleast twenty five years.

12. Identification and Traceability

Each PV module used in any solar power Project must use a RF identification tag. The following information must be mentioned in the RFID used on each module (This can be inside or outside the laminate, but must be able to withstand harsh environmental conditions):

- i) Name of the manufacturer of PV Module
- ii) Name of the Manufacturer of Solar cells
- iii) Month and year of the manufacture (separately for solar cells and module)
- iv) Country of origin (separately for solar cells and module)
- v) I-V curve for the module at Standard Test Condition (1000 W/m², AM 1.5, 250C)
- vi) Wattage, I_m, V_m and FF for the module
- vii) Unique Serial No. and Model No. of the module
- viii) Date and year of obtaining IEC PV module qualification certificate
- ix) Name of the test lab issuing IEC certificate
- x) Other relevant information on traceability of solar cells and module as per ISO 9000

Site owners would be required to maintain accessibility to the list of Module IDs along with the above parametric data for each module.

13. Performance Monitoring:

All grid solar PV power projects must install necessary equipment to continuously measure solar radiation, ambient temperature, wind speed and other weather

parameters and simultaneously measure the generation of DC power as well as AC power generated from the plant. They will be required to submit this data to MSEDCL and MNRE or MEDA on line and/or through a report on regular basis every month for the entire duration of PPA. In this regard they shall mandatorily also grant access to MSEDCL and MNRE or MEDA to the remote monitoring portal of the power plants on a 24X7 basis.

14. Safe Disposal of Solar PV Modules:

The Bidder will ensure that all Solar PV modules from their plant after their 'end of life' (when they become defective/ non-operational/ non-repairable) are disposed in accordance with the "e-waste (Management and Handling) Rules, 2011" notified by the Government and as revised and amended from time to time.

15. Safety and Risk Management:

It will be the prime responsibility of the FSPD to take all safety precautions related to the project / plant during the construction as well as operation period in view of the possibility of eventuality of the natural calamities, disasters, etc. It shall develop the risk management system which will take care of the project in such incidences and shall make available the appropriate plan for the same.

ANNEXURE – B: CHECK LIST FOR BANK GUARANTEES

Sl. no.	Details of Checks	Yes/No
1.	Is the BG on non-judicial Stamp paper of Rs. 100	
2.	Whether date, purpose of purchase of stamp paper and name of the purchaser are indicated on the back of Stamp paper under the Signature of Stamp vendor? (The date of purchase of stamp paper should be not later than the date of execution of BG and the stamp paper should be purchased either in the name of the executing Bank or the party on whose behalf the BG has been issued.	
3.	In case of BGs from Banks abroad, has the BG been executed on Letter Head of the Bank endorsed by the Indian branch of the same bank or SBI, India?	
4.	Has the executing Officer of BG indicated his name, designation and Power of Attorney No./Signing Power no. on the BG?	
5.	Is each page of BG duly signed / initialed by executant and whether stamp of Bank is affixed thereon? Whether the last page is signed with full particulars including two witnesses under seal of Bank as required in the prescribed proforma?	
6.	Do the Bank Guarantees compare verbatim with the Proforma prescribed in the Bid Documents?	
7.	Are the factual details such as Bid Document No./Specification No./LOA No.(if applicable)/Amount of BG and Validity of BG correctly mentioned in the BG	
8.	Whether overwriting/cutting, if any, on the BG have been properly authenticated under signature & seal of executant?	
9.	Whether the BG has been issued by a Bank in line with the provisions of Bidding documents?	
10.	In case BG has been issued by a Bank other than those specified in Bidding Document, is the BG confirmed by a Bank in India acceptable as per Bidding documents?	

ANNEXURE – C: LIST OF BANKS

Guarantees issued by following Banks will be accepted as EMD / PBG on permanent basis.

Nationalized Banks	Scheduled Private Banks
1. Allahabad Bank	1. Federal Bank Ltd.
2. Andhra Bank	2. Ing Vysya Bank Ltd.
3. Bank Of India	3. Axis Bank Ltd.
4. Bank Of Maharashtra	4. ICICI Bank Ltd.
5. Canara Bank	5. HDFC Bank Ltd.
6. Central Bank Of India.	6. Yes Bank Ltd.
7. Corporation Bank	7. Kotak Mahindra Bank
8. Dena Bank	8. Indusind Bank Ltd.
9. Indian Bank	9. Karur Vysya Bank
10. Indian Overseas	10. Catholic Syrian Bank
11. Oriental Bank Of	11. City Union Bank
12. Punjab National	12. Dhanlaxmi Bank. Ltd
13. Punjab & Sind Bank	13. Jammu & Kashmir Bank Ltd
14. Syndicate Bank	14. Karnataka Bank Ltd
15. Union Bank Of India	15. Laxmi Vilas Bank Ltd
16. United Bank Of India	16. Nainital Bank Ltd
17. UCO Bank	17. Ratnakar Bank Ltd
18. Vijaya Bank	18. South Indian Bank Ltd
19. Bank Of Baroda	19. Tamilnadu Mercantile Bank Ltd
20. State Bank Of India	20. DCB Bank Ltd
21. State Bank Of Indore	21. IDFC Bank

Other Public Sector Banks

1. IDBI Bank

ANNEXURE – D: SPECIAL INSTRUCTIONS TO BIDDERS FOR E-TENDERING

General

The Special Instructions (for e-Tendering) supplement 'Instruction to Bidders', as given in these Tender Documents. Submission of Online Bids is mandatory for this Tender.

E-tendering is a new methodology for conducting Public Procurement in a transparent and secured manner. Now, the Government of India has made e-tendering mandatory. Suppliers/ Vendors will be the biggest beneficiaries of this new system of procurement. For conducting electronic tendering, MSEDCL has decided to use the portal <https://www.tcil-india-electronictender.com>. Through TCIL, a Government of India Undertaking. This portal is based on the world's most 'secure' and 'user friendly' software from Electronic Tender®. A portal built using Electronic Tender's software is also referred to as Electronic Tender System® (ETS).

Benefits to Suppliers are outlined on the Home-page of the portal.

Instructions:

Tender Bidding Methodology:

- (i) Sealed Bid System
- (ii) Single Stage Two Envelope Auction
- (iii) The sealed bid system would be followed by an 'e-Reverse Auction'
- (iv) Broad Outline of Activities from Bidder's Perspective:
 1. Procure a Digital Signing Certificate (DSC)-Class II and above.
 2. Register on Electronic Tendering System® (ETS)
 3. Create Marketing Authorities (MAs), Users and assign roles on ETS
 4. View Notice Inviting Tender (NIT) on ETS
 5. For this tender -- Assign Tender Search Code (TSC) to a MA
 6. Download Official Copy of Tender Documents from ETS. Note: Official copy of Tender Documents is distinct from downloading 'Free Copy of Tender Documents'. To participate in a tender, it is mandatory to procure official copy of Tender Documents for that tender.
 7. Clarification to Tender Documents on ETS
 - a) Query to MSEDCL (Optional)

- b) View response to queries posted by MSEDCL
- 8. Bid-Submission on ETS
- 9. Respond to MSEDCL Post-TOE queries
- 10. Participate in reverse auction if invited

For participating in this tender online, the following instructions are to be read carefully. These instructions are supplemented with more detailed guidelines on the relevant screens of the ETS.

Digital Certificates

For integrity of data and authenticity/ non-repudiation of electronic records, and to be compliant with IT Act 2000, it is necessary for each user to have a Digital Certificate (DC), also referred to as Digital Signature Certificate (DSC), of Class II or above, issued by a Certifying Authority (CA) licensed by Controller of Certifying Authorities (CCA) [refer <http://www.cca.gov.in>].

Registration

To use the ElectronicTender® portal <https://www.tcil-india-electronictender.com>., vendors need to register on the portal. Registration of each organization is to be done by one of its senior persons who will be the main person coordinating for the e-tendering activities. In ETS terminology, this person will be referred to as the Super User (SU) of that organization. For further details, please visit the website/portal, and click on the 'Supplier Organization' link under 'Registration' (on the Home Page), and follow further instructions as given on the site. Pay Annual Registration Fee as applicable.

After successful submission of Registration details and payment of Annual Registration Fee, please contact TCIL/ ETS Helpdesk (as given below), to get your registration accepted/activated

Important Note:

1. Interested bidders have to download official copy of the RfS & other documents after login into the ETS Portal of <https://www.tcil-india-electronictender.com> If the official copy of the documents is not downloaded from ETS Portal of <https://www.tcil-india-electronictender.com> within the specified period of downloading of RfS and other documents, bidder will not be able to participate in the tender.

- To minimize teething problems during the use of ETS (including the Registration process), it is recommended that the user should peruse the instructions given under 'ETS User-Guidance Center' located on ETS Home Page, including instructions for timely registration on ETS. The instructions relating to 'Essential Computer Security Settings for Use of ETS' and 'Important Functionality Checks' should be especially taken into cognizance.

Please note that even after acceptance of your registration by the Service Provider, to respond to a tender you will also require time to complete activities related to your organization, such as creation of users, assigning roles to them, etc.

TCIL/ ETS Helpdesk	
Telephone/ Mobile	<i>Customer Support: +91-11- 26241790(multiple lines) Emergency Mobile Numbers: +91-9868393775, 9868393717, 9868393792</i>
Email-ID	ets_support@tcil-india.com [Please mark CC: najmussaba@tcil-india.com]

Some Bidding related Information for this Tender (Sealed Bid)

The entire bid-submission would be online on ETS (unless specified for Offline Submissions). Broad outline of submissions are as follows:

Submission of Bid-Parts

- Envelope I (Technical-Bid)
- Envelope II (Financial-Bid)

Submission of digitally signed copy of Tender Documents/ Addendum

In addition to the above, the bidders are required to submit certain documents physically offline also as per Section 3.18 A, failing which the technical bids will not be opened.

Note: The Bidder should also upload the scanned copies of all the above mentioned original documents as Bid-Annexures during Online Bid-Submission.

Special Note on Security and Transparency of Bids

Security related functionality has been rigorously implemented in ETS in a multidimensional manner. Starting with 'Acceptance of Registration by the Service Provider', provision for

security has been made at various stages in Electronic Tender's software. Specifically for Bid Submission, some security related aspects are outlined below:

As part of the Electronic Encrypter™ functionality, the contents of both the 'Electronic Forms' and the 'Main-Bid' are securely encrypted using a Pass-Phrase created by the Bidder himself. Unlike a 'password', a Pass-Phrase can be a multi-word sentence with spaces between words (e.g. I love this World). A Pass-Phrase is easier to remember, and more difficult to break. It is mandatory that a separate Pass-Phrase be created for each Bid-Part. This method of bid-encryption does not have the security and data-integrity related vulnerabilities which are inherent in e-tendering systems which use Public-Key of the specified officer of a Buyer organization for bid-encryption. Bid-encryption in ETS is such that the Bids cannot be decrypted before the Public Online Tender Opening Event (TOE), even if there is connivance between the concerned tender-opening officers of the Buyer organization and the personnel of e-tendering service provider.

CAUTION: All bidders must fill Electronic Forms™ for each bid-part sincerely and carefully, and avoid any discrepancy between information given in the Electronic Forms™ and the corresponding Main- Bid. For transparency, the information submitted by a bidder in the Electronic Forms® is made available to other bidders during the Online Public TOE. If it is found during the Online Public TOE that a bidder has not filled in the complete information in the Electronic Forms™, the TOE officer may make available for downloading the corresponding Main-Bid of that bidder at the risk of the bidder. **If variation is noted between the information contained in the Electronic Forms™ and the 'Main- Bid', the contents of the Electronic Forms™ shall prevail.**

In case of any discrepancy between the values mentioned in figures and in words, the value mentioned in words will prevail.

Additionally, the bidder shall make sure that the Pass-Phrase to decrypt the relevant Bid-Part is submitted to MSEDCL in a sealed envelope before the start date and time of the Tender Opening Event (TOE).

There is an additional protection with SSL Encryption during transit from the client-end computer of a Supplier organization to the e-tendering server/ portal.

Other Instructions

For further instructions, the bidder should visit the home-page of the portal <https://www.tcil-india-electronictender.com>, and go to the **User-Guidance Center**.

The help information provided through 'ETS User-Guidance Center' is available in three categories – Users intending to Register / First-Time Users, Logged-in users of Buyer organizations, and Logged- in users of Supplier organizations. Various links (including links for User Manuals) are provided under each of the three categories.

Important Note: It is strongly recommended that all authorized users of Supplier organizations should thoroughly peruse the information provided under the relevant links, and take appropriate action. This will prevent hiccups, and minimize teething problems during the use of ETS.

Seven Critical Do's and Don'ts for Bidders

Specifically, for Supplier organizations, the following 'SEVEN KEY INSTRUCTIONS for BIDDERS' must be assiduously adhered to:

1. Obtain individual Digital Signing Certificate (DSC or DC) of Class II or above well in advance of your tender submission deadline on ETS.
2. Register your organization on ETS well in advance of the important deadlines for your first tender on ETS viz. 'Date and Time of Closure of Procurement of Tender Documents' and 'Last Date and Time of Receipt of Bids'. Please note that even after acceptance of your registration by the Service Provider, to respond to a tender you will also require time to complete activities related to your organization, such as creation of -- Marketing Authority (MA) [ie a department within the Supplier/ Bidder Organization responsible for responding to tenders], users for one or more such MAs, assigning roles to them, etc. It is mandatory to create at least one MA. This unique feature of creating an MA enhances security and accountability within the Supplier/ Bidder Organization.
3. Get your organization's concerned executives trained on ETS well in advance of your first tender submission deadline on ETS
4. For responding to any particular tender, the tender (.i.e. its Tender Search Code or TSC) has to be assigned to an MA. Further, an 'Official Copy of Tender Documents' should be procured/ downloaded before the expiry of Date and Time of Closure of Procurement of Tender Documents.

Note: Official copy of Tender Documents is distinct from downloading 'Free Copy of Tender Documents'. Official copy of Tender Documents is the equivalent of procuring physical copy of Tender Documents with official receipt in the paper-based manual tendering system.

1. Submit your bids well in advance of tender submission deadline on ETS (There could be last minute problems due to internet timeout, breakdown, et al)
2. It is the responsibility of each bidder to remember and securely store the Pass-Phrase for each Bid-Part submitted by that bidder. In the event of a bidder forgetting the Pass-Phrase before the expiry of deadline for Bid-Submission, facility is provided to the bidder to 'Annul Previous Submission' from the Bid-Submission Overview page and start afresh with new Pass-Phrase(s)
3. ETS will make your bid available for opening during the Online Public Tender Opening Event (TOE) 'ONLY IF' your 'Status pertaining Overall Bid-Submission' is 'Complete'. For

your record, you can generate and save a copy of 'Final Submission Receipt'. This receipt can be generated from 'Bid-Submission Overview Page' only if the 'Status pertaining overall Bid-Submission' is 'Complete'.

NOTE:

While the first three instructions mentioned above are especially relevant to first-time users of ETS, the fourth, fifth, sixth and seventh instructions are relevant at all times.

ANNEXURE – E: TERMS & CONDITIONS OF REVERSE AUCTION

Additional DO'S AND DON'TS FOR BIDDERS Participating in

e-Reverse Auction

1. Get your organization's concerned executives trained for e-Reverse Auction related processes on ETS well in advance of the start of e-Reverse Auction.
2. For responding to any particular e-Reverse Auction, the e-Reverse Auction (.i.e. its Reverse Auction Search Code or RASC) has to be assigned to an MA.
3. It is important for each bidder to thoroughly read the 'rules and related criterion' for the e- Reverse Auction as defined by the Buyer organization.
4. It is important to digitally-sign your 'Final bid' after the end of e-Reverse Auction bidding event.

Minimum Requirements at Bidder's End

- (xii) Computer System with good configuration (Min PIV, 1 GB RAM, Windows 7 and above)
- (xiii) Broadband connectivity
- (xiv) Microsoft Internet Explorer 7.0 or above (Recommended version Internet Explorer 11)
- (xv) Digital Certificate(s)

After opening of financial bids and short-listing of bidders based on the tariff and total capacity of project of qualified Project(s), MSEDCL shall resort to "REVERSE AUCTION PROCEDURE". Reverse Auction shall be conducted as per methodology specified in Section-4 and other provisions of Reverse Auction in RfS Documents and their subsequent Addenda / Corrigenda / Amendments / Clarifications. Bidders in their own interest, are advised to go through the documents in entirety. The Terms & Conditions and Business Rules mentioned hereunder are in brief and may not give complete explanations. Further these are supplementary in nature.

1. Bidders shall ensure online submission of their 'Bid Price' within the auction period.
2. Bidders shall ensure to take all necessary training and assistance before commencement of reverse auction to the interested bidders on chargeable basis to be paid directly to TCIL.
3. Business rules for Reverse Auction like event date, time, bid decrement, extension etc. shall be as per the business rules, enumerated in the RfS document or intimated later on, for compliance.

4. Reverse auction will be conducted on scheduled date & time, as mentioned in the RfS document.
5. Bidders should acquaint themselves of the 'Business Rules of Reverse Auction', which is enclosed separately in the RfS document.
6. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, such bids would be considered non-responsive and would be rejected by MSEDCL.
7. The Bidder shall not divulge either his Bids or any other exclusive details of MSEDCL to any other party.
8. Period of validity of Prices received through Reverse Auction shall be same as that of the period of validity of bids offered.
9. Bidders should also note that:
 - a) Bidders may note that, although extension time is '5' minutes, there is a time lag between the actual placing the bid on the local computer of the bidder and the refreshing of the data on to the server for the visibility to the Owner. Considering the processing time for data exchange and the possible network congestion, bidders must avoid the last minute posting of the Financial Bid during reverse auction.
 - b) Participating bidder will agree to non-disclosure of trade information regarding the purchase, identity of MSEDCL, bid process, bid technology, bid documentation and bid details.
 - c) It is brought to the attention of the bidders that the bid event will lead to the final price of bidders only.
 - d) Technical and other non-commercial queries (not impacting price) can only be routed to the MSEDCL contact personnel indicated in the RfS document.
 - e) Order finalization and post order activities such as issuance of LOA, signing of PPA etc. would be transacted directly between successful bidder(s) and MSEDCL.
 - f) LOA shall be placed outside the TCIL e-portal & further processing of the LOA shall also be outside the system.
 - g) In case of any problem faced by the bidder during Reverse Auction and for all Bidding process related queries, bidders are advised to contact the persons indicated in AnnexureD of the RfS document.
 - h) Bidders are advised to visit the auction page and login into the system well in advance to identify / rectify the problems to avoid last minute hitches.

- i) MSEDCL will not be responsible for any PC configuration/Java related issues, software / hardware related issues, telephone line glitches and breakdown / slow speed in internet connection of PC at Bidder's end.
- j) Bidders may note that it may not be possible to extend any help, during Reverse Auction, over phone or in person in relation to rectification of PC / Internet / Java related issues and Bidder may lose the chance of participation in the auction.

10. For access to the Reverse Auction site, the following URL is to be used <https://www.tcil-india-electronictender.com>. No queries shall be entertained while Reverse Auction is in progress.

BUSINESS RULES OF REVERSE AUCTION

Reverse Auction shall be conducted as per methodology specified in 4 and other provisions of Reverse Auction in RfS documents and their subsequent Amendments/ Clarifications/ Addenda. Bidders, in their own interest, are advised to go through the documents in entirety.

The following would be parameters for e-Reverse Auction:

Sl. No.	Parameter	Value
1.	Date and Time of Reverse-Auction Bidding Event	Please refer Bid Information Sheet
2.	Duration of Reverse-Auction Bidding Event	60 minutes
3.	Automatic extension of the 'Reverse-Auction closing Time', if last bid received is within a 'Predefined Time-Duration' before the 'Reverse- Auction Closing Time'	Yes
3.1	Pre-defined Time-Duration	08 minutes
3.2	Automatic extension Time-Duration	08 minutes
3.3	Maximum number of Auto-Extension	Unlimited Extension
4.	Entity-Start-Price	Minimum of all the tariffs quoted by all the bidders in Financial Bid (Filled online)

Online Reverse Auction shall be conducted by MSEDCL on pre-specified date and time, while the bidders shall be quoting from their own offices / place of their choice. Internet connectivity shall have to be ensured by bidders themselves.

During the Reverse Auction, any requests for extension of time will not be considered by MSEDCL. Bidders are therefore requested to make all the necessary arrangements/ alternatives whatever required so that they are able to participate in the Reverse Auction successfully. Failure of power or loss of connectivity at the premises of bidders during the Reverse Auction cannot be the cause for not participating in the Reverse Auction. MSEDCL shall not be responsible for such eventualities.

Bidders are advised to get fully trained and clear all their doubts such as refreshing of Screen, capacity/no. of projects being auctioned, auction rules etc.

MSEDCL reserves the right to cancel/reschedule/extend the Reverse Auction process/ tender at any time, before ordering, without assigning any reason.

MSEDCL shall not have any liability to bidders for any interruption or delay in access to the auction website irrespective of the cause. In such cases, the decision of MSEDCL shall be binding on the bidders.

Other terms and conditions shall be as per bidder's techno-commercial offers and as per the RfS document and other correspondences, if any, till date.