

Maharashtra State Electricity Distribution Co. Ltd.

REQUEST FOR SELECTION (RfS)

**FOR PROCUREMENT OF POWER ON LONG TERM BASIS THROUGH
COMPETITIVE BIDDING PROCESS (FOLLOWED BY REVERSE
E-AUCTION) FROM 500 MW INTRA STATE GRID CONNECTED SOLAR
PHOTOVOLTAIC POWER PROJECTS WITH GREEN SHOE OPTION OF
ADDITIONAL UPTO 500 MW**

RfS No. MSEDCL/RE/2023/500 MW Solar/Ph-X/T-19 Dated 14.02.2023

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 Electricity 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: 14.02.2023

Bid Information Sheet

Document Description	RfS Document For Purchase Of Power On Long Term Basis Through Competitive Bidding Process (Followed By Reverse E-Auction) From 500 MW Grid Connected Solar Photovoltaic Power Projects with green shoe option of additional upto 500 MW to be set in the State of Maharashtra only.
RfS No.& Date	MSEDCL/RE/2023/500 MW Solar/PhX/T-19 Dated 14.02.2023
Downloading of tender documents	14.02.2023 Time : 23.00 Hrs
Pre-bid Conference / Clarification Meeting Date & Location	Date: 22.02.2023 (Through VC) (VC link be notified later) Further, Interested Bidders are requested to forward their queries (if any) to MSEDCL through email only on or before 18.02.2023 – 17:00 Hours
Last date & Time for a) Online Submission of Response to RfS and b) All documents as per Section 3.21 A physically at MSEDCL office, Mumbai	Date:17.03.2023 Time : 15.00 Hrs Date:17.03.2023 Time : 15.00 Hrs
Financial Bid Opening	Will be informed to eligible bidders
e - Reverse Auction	Will be informed to eligible bidders. Date and time of e-RA shall be intimated through portal.
Cost of RfS Document (non-refundable)	INR 25000/- (Plus applicable GST) (to be paid through online payment. Account details are as below: Account Name- Maharashtra State Electricity Distribution Co. Ltd. Bank- Bank of Maharashtra Account No.-20045003931 IFSC Code-MAHB0000002 (Kindly provide UTR No. details to MSEDCL at the time of bid submission)

Processing Fee (non-refundable)	INR 3 Lakhs (plus applicable GST) (to be paid through online payment to the above mentioned account details and it is non-refundable in any case. (Kindly provide UTR No. details to MSEDCL at the time of bid submission), along with the response to RfS.														
EMD	Earnest Money @ INR 4 Lakhs/MW is to be submitted in the form of Bank Guarantee along with response to RfS.														
Name, Designation, Address and other details (For Submission of Response to RfS)	Chief Engineer (Renewable Energy) Maharashtra State Electricity Distribution Co. Ltd., Renewable Energy Section, 5th Floor, 'Prakashgad', Bandra (East), Mumbai - 400 051 Tel No. 022- 26474211 (Extn. 2208) Email – ncetendermsedcl@gmail.com														
Details of persons to be contacted in case of any assistance required	1) Mr. Nikhil Meshram , Superintending Engineer (RE), Ph: 022-26474211 (Ext. 2552) Mobile No. 7045271284 2) Mr. Bhalchandra Gawai, Executive Engineer (RE), Ph: 022-26474211 (Ext. 2402) Mobile No. 9920976517														
Bank Details of MSEDCL for Structured Financial Messaging System (SFMS) Confirmation regarding issuance of BG	<table> <tr> <td>Name of Bank</td> <td>Bank of India</td> </tr> <tr> <td>Branch Name</td> <td>Mumbai Large Corporate Branch</td> </tr> <tr> <td>Account No.</td> <td>016020110000033</td> </tr> <tr> <td>Name of Account Holder by Designation</td> <td>Maharashtra State Electricity Distribution Co Ltd.</td> </tr> <tr> <td>IFSC Code</td> <td>BKID0000160</td> </tr> <tr> <td>TYPE OF ACCOUNT</td> <td>CURRENT ACCOUNTS</td> </tr> <tr> <td>Address</td> <td>Mumbai Large Corporate, 70/80, MG Road, Fort, Maharashtra</td> </tr> </table>	Name of Bank	Bank of India	Branch Name	Mumbai Large Corporate Branch	Account No.	016020110000033	Name of Account Holder by Designation	Maharashtra State Electricity Distribution Co Ltd.	IFSC Code	BKID0000160	TYPE OF ACCOUNT	CURRENT ACCOUNTS	Address	Mumbai Large Corporate, 70/80, MG Road, Fort, Maharashtra
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IFSC Code	BKID0000160														
TYPE OF ACCOUNT	CURRENT ACCOUNTS														
Address	Mumbai Large Corporate, 70/80, MG Road, Fort, Maharashtra														
Important Note: Prospective Bidders are requested to remain updated for any notices/amendments/clarifications etc. to the RfS document through the websites https://www.bharat-electronictender.com and No separate notifications will be issued for such notices/amendments/clarifications etc. in the print media or individually.															

For conducting the e-bidding, MSEDCL will use <https://www.bharat-electronictender.com> (E-tender Portal). Bidders are required to register themselves online with M/s ISN Electronic

Tender Services website <https://www.bharat-electronictender.com> (if not registered already) e-tender portal, through the payment gateway facility of the e-bidding portal of INR 3000 (Indian Rupees Three Thousand) (plus applicable taxes as indicated in E Tender portal) and subsequently download the RfS and other Bid Documents from the E-tender Portal. A Bidder, who is already registered on the E-tender Portal need not register again on the E-tender Portal. Additionally, prior to submission of the proposal, a bidder is required to pay online through the payment gateway on the E-bidding portal) a non-refundable ETS bidding/ Reverse Auction fee of INR 15,000 (Indian Rupees Fifteen Thousand only) (plus applicable taxes as indicated in the e-bidding portal).

SECTION 1: INTRODUCTION

Section 1: Introduction

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.

1.1.2 In order to fulfill the renewable power purchase obligation (RPO) and to meet the future power requirements, MSEDCL intends to procure solar power up to capacity of 500 MW from Grid connected Intra-State Solar Projects through Competitive Bidding Process (conducted through electronically facilitated online web based portal of M/s ISN Electronic Tender followed by reverse auction) and additional upto 500 MW power under green shoe option.. MSEDCL shall enter into Power Purchase Agreement (PPA) with the Bidders selected based on this RfS for purchase of solar power for a period of 25 years from the Scheduled Commercial Operation Date in case of proposed/new solar power projects or for a period of 25 years from the date of execution of PPA for existing solar power projects based on the terms, conditions and provisions of the RfS.

1.1.3 The Solar Power Generator shall be responsible for design, finance, procurement of land, engineering, procurement, construction, operation and maintenance of the Project under and in accordance with the provisions of the PPA to be entered into between the Solar Power Generator and MSEDCL.

1.2 Details of Power Procurement:

1.2.1 The bidders selected by MSEDCL based on this RfS, shall be existing solar power project or shall set up Solar Power Projects in accordance with the provisions of

this RfS document and Power Purchase Agreement (PPA). PPA format has been enclosed and can be downloaded from <https://www.bharat-electronictender.com>.

- 1.2.2 MSEDCL shall enter into Power Purchase Agreement (PPA) with the Bidders selected based on this RfS for purchase of solar power for a period of 25 years from the Scheduled Commercial Operation Date in case of proposed/new solar power projects or for a period of 25 years from the date of execution of PPA for existing solar power projects based on the terms, conditions and provisions of the RfS. The tariff payable to Selected Bidder shall be fixed for 25 years as discovered through the e-bidding and e-reverse auction conducted vide this RfS. The tariff shall be inclusive of all statutory taxes, duties, levies, cess etc. applicable as on the last date of bid submission. 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.
- 1.2.3 In case of import of energy during a month for Intra-State projects, the successful bidder shall be required to make payment to MSEDCL at the prevailing tariff for the particular category which is applicable to Solar Power Projects as determined by MERC from time to time. At present the applicable tariff is HT Industry Tariff.

1.3 ELIGIBLE PROJECTS:

- 1.3.1 The Projects to be selected for aggregate capacity of 500 MW to be set up in Maharashtra State in India, provide for deployment of Solar PV Technology. However, the selection of projects would be technology agnostic within the technology mentioned hereinafter. 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 the timely commissioning of the Projects. The trackers may fulfil the criteria as per the Annexure-G or any better technology/specifications.
- 1.3.2 Projects under construction, projects which are not yet commissioned and projects already commissioned but do not have any long-term PPA with any agency and selling power on short-term or merchant plant basis will, however, be considered, in case these projects are not already accepted under any other Central or State Schemes and do not have any obligations towards existing buyers.
- 1.3.3 Bidder shall ensure that the technology to be adopted shall be commercially established technology as per Annexure-A and in accordance with MNRE's Approved Models and Manufacturers of Solar PV Modules (Requirements for Compulsory Registration) Order,

2019 as amended from time to time, whichever is applicable. Final details of the same shall be submitted 30 days before SCOD of project.

- 1.3.4 In order to timely completion of project, the bidder shall submit activity wise Tentative schedule for meeting timelines/milestones as per RfS Schedule- at the time of bid submission such as Grid Connectivity, Material Procurement, tentative date/month of procurement of Solar Modules/Panels, Country of Import, if not domestically procured - Solar Modules/Panels, Start and Completion of construction activities etc. However, if any revision in given schedule, Bidder shall submit it at the time of Financial Closure.

SECTION 2: DEFINITIONS

Section 2: Definitions

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

2.1 Definitions:

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

“Adjusted Equity” shall mean the Equity funded in Indian Rupees and adjusted on the first day of the current month (the “Reference Date”), in the manner set forth below, to reflect the change in its value on account of depreciation and variations in Wholesale Price Index (WPI), and for any Reference Date occurring between the first day of the month of Appointed Date (the date of achievement of Financial Closure) and the Reference Date;

- a. On or before Commercial Operation Date (COD), the Adjusted Equity shall be a sum equal to the Equity funded in Indian Rupees and expended on the Project, revised to the extent of one half of the variation in WPI occurring between the first day of the month of Appointed Date and Reference Date;
- b. An amount equal to the Adjusted Equity as on COD shall be deemed to be the base (the “Base Adjusted Equity”);
- c. After COD, the Adjusted Equity hereunder shall be a sum equal to the Base Adjusted Equity, reduced by 0.333% (zero point three three three percent) thereof at the commencement of each month following the COD [reduction of 1% (one percent) per quarter of a year] and the amount so arrived at shall be revised to the extent of variation in WPI occurring between the COD and the Reference Date;

For the avoidance of doubt, the Adjusted Equity shall, in the event of termination, be computed as on the Reference Date immediately preceding the Transfer Date; provided that no reduction in the Adjusted Equity shall be made for a period equal to the duration, if any, for which the PPA period is extended, but the revision on account of WPI shall continue to be made.

“Affiliate” shall mean a Company that, directly or indirectly,

- i. controls, or
- ii. is controlled by, or
- iii. is under the common control with such Company.

The expression ‘control’ shall mean the ownership, directly or indirectly, of more than 50% of the voting shares of such Company or right to appoint majority Directors.

“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.;

“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 Utilisation Factor (CUF)” is the ratio of Delivered Energy by SPD over the year to the equivalent energy output at its rated capacity over the yearly period. The number of hours in a year for calculation of capacity utilization factor shall be considered as 8766. However, for avoidance of any doubt, it is clarified that the CUF shall be calculated on the Contracted Capacity;

In any Contract Year, if ‘X’ MWh of energy has been delivered out at the Delivery Point for ‘Y’ MW Contract capacity, $CUF = (X \text{ MWh} / (Y \text{ MW} * 8766)) * 100\%$;

“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;

“Company” shall mean a body 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/DISCOM shall mean when all equipment’s as per rated capacity has been installed and energy has flown into the grid.

“Commercial Operation Date” with respect to the Project shall mean the date certified in the commissioning certificate is issued upon successful commissioning of the full capacity of the Project or the last part capacity of the Project (certified by SLDC/MSEDCL) as the case may be and such date as specified in a written notice given at least 30 days in advance by the Successful Bidder to MSEDCL.”

“Contracted Capacity” shall mean the capacity (in MW AC) contracted with MSEDCL for supply by the successful bidder at the Delivery Point from the 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 percent) 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.

“Day” shall mean calendar day.

“Delivered Energy” means the kilowatt hours of energy actually measured by the energy meters/scheduled energy (as may be applicable) at the Delivery Point and as certified by SLDC/DISCOM.

“Delivery Point” shall mean the point(s) of connection(s) at which energy is delivered into the Grid System:

- For existing intra - state projects, at the existing metering point(s).
- For new intra - state projects, at the voltage level of 33 kV or above of STU/MSETCL sub-station.

“Electricity Laws” shall mean the Electricity Act, 2003 and the relevant rules, notifications, and amendments issued there under 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 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” shall mean as defined under clause 3.13 of the RfS document.

“Financing Documents” means 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.

“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) 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, nonbanking 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.

“Interconnection Points”; shall mean the point(s) of connection(s) at which the project is connected to the grid:

- For existing intra - state projects, at the existing metering point(s).
- For new intra - state projects, at the voltage level of 33 kV or above of STU/MSETCL sub-station, including the transmission line (dedicated/sharing) connecting the solar power project.

“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 contract.

“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.

“Metering Point”; For existing intra - state projects, metering shall be at the existing metering point(s); For new intra - state projects, metering shall be at the voltage level of 33 kV or above of STU/MSETCL sub-station including the transmission line (dedicated/sharing) connecting the solar power project.

All expenses including wheeling charges and losses between the Project and the Metering Point shall be paid by the Solar Power Generators without any reimbursement by the MSEDCL. All expenses including wheeling charges and losses in relation to the transmission and distribution beyond the Metering Point shall be borne by the MSEDCL.

“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:

- Paid-up equity share capital
- Fully, compulsorily and mandatorily convertible Preference shares
- Fully, compulsorily and mandatorily convertible Debentures

“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;

“Part Commissioning” shall mean a part of the Solar PV Capacity (AC MW) commissioned as per clause 3.14.5 under Section 3 of the RfS

“Performance Bank Guarantee” shall mean the irrevocable unconditional bank guarantee to be submitted by the successful bidder as per Section 3.9.

“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 Solar Photovoltaic Grid Interactive Power Station existing or to be established by the successful bidder 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, upon which the Project and its related infrastructure will be located.

“Project Capacity” means the AC capacity of the project to be contracted with MSEDCL for supply from the Solar Power Project at the Delivery point.

“Project Developer” or “Developer” or “Solar Power Developer (SPD)” or “Bidder” or “Solar Power Generator” shall mean the Bidding Company or a Bidding Consortium participating in the bid and having been selected and allocated a project capacity by MSEDCL (through a competitive bidding process), including the SPV formed by the selected bidder/ consortium for the purpose of setting up of this project exclusively and signing of PPA with MSEDCL;

“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 15 (fifteen) months from the date of execution of the PPA, for projects being set up in Solar park, and 18 (eighteen) months from the date of execution of the PPA, for projects being set up outside Solar park.

“SEA” means the State Energy Account issued by State Load Dispatch Centre 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.

“STU or “State Transmission Utility” shall mean the State Transmission Utility notified by respective State Government under Sub-section (1) of Section 39 of the Act.

“SNA” means State Nodal Agency.

“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.

“**Week**” shall mean calendar week.

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

“**Quoted Tariff/Discovered Tariff**” means the tariff quoted/discovered by the power producer which is inclusive of all taxes, duties, cess and etc..

SECTION 3: BID INFORMATION AND INSTRUCTION TO BIDDERS

Section 3: Bid Information and Instructions 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 <https://www.bharat-electronictender.com>. Interested bidders have to download the official copy of RfS & other documents after logging into <https://www.bharat-electronictender.com> by using the Login ID & Password provided by M/s ISN Electronic Tender Portal during registration (Refer Annexure – D).
- 3.1.2 The bidders shall be eligible to submit/ upload the bid document only after logging into the <https://www.bharat-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 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 Total Capacity Offered:

1. Total Capacity:

Selection of Grid-connected Solar PV Projects for total capacity of 500 MW(Phase-X) with Green Shoe option of additional upto 500 MW will be carried out through e-bidding followed by e-Reverse Auction process.

2. Minimum Capacity of Project:

The minimum project capacity shall be 25 MW at single location with minimum bid capacity of 50 MW for projects.

Note: The maximum bidding capacity to single bidder is 500 MW subject to satisfying technical and financial criterion. Further, the project capacity shall be in the multiples of 25 MW beyond minimum project capacity (25 MW).

3.3 Project Scope:

The successful bidder shall set up Solar PV Power Project(s) including the transmission network up to the Delivery Point in line with **Section 3.7**, 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. 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. 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 and as specified by MNRE from time to time whichever is applicable.

The Bidder shall identify 100% land required for the project and submit tentative locations at the time of submission of bid in Format 6.1. The Bidder shall be allowed to change the location of the project once at the time of achievement of Financial Closure i.e. within 9 (nine) months from the date of execution of the Power Purchase Agreement for projects being set up in Solar park, and within 12 (twelve) months from the date of execution of the Power Purchase Agreement, for projects being set up outside Solar park.

3.4 Eligibility for Project capacity allocation:

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

1. A bidder including its Parent, Affiliate or Ultimate Parent or any Group Company can only submit a single bid, subject to minimum bidding capacity as specified in Clause 3.2.2.
2. Multiple bids from same company including its Parent/ Ultimate Parent/ Affiliates /Group Companies shall make all the bids submitted by the group invalid.
3. The evaluation of bids shall be carried out as described in Section 4. The methodology of allocation of projects is elaborated in Section 4.
4. In case the bidder wishes to set up a project at more than one location, then they would need to be physically identifiable with separate boundary wall, separate inter-connection points and metering arrangement.
5. MSEDCL shall exercise the Green-Shoe Option to allocate additional capacity up to 500 MW to the successful bidder if discovered tariff is found economical to MSEDCL. In order to avail the Green-Shoe Option, the successful bidder need to match the lowest discovered tariff (L1 tariff) of this tender corresponding to the Green-Shoe quantity. The Successful bidder shall avail the capacity to the extent of their respective quoted capacity or higher quantum (in case of the L1,L2,L3.... Successful Bidder does not accept the additional quantum offered under the ‘Green shoe Option’) to the extent of green shoe capacity. It would be voluntary for Successful Bidder(s) to opt for green-shoe option. For the avoidance of doubt, capacity allocation under ‘Green Shoe’ shall only be for the successful bidders i.e., bidders winning e-RA.

The successful bidder shall submit his acceptance for availing the "Green-Shoe Option" maximum within 07 (Seven) days from the date of e intimation by MSEDCL. Successful Bidder(s) intending to avail the Green shoe Capacity shall have to meet the eligibility criteria for the capacity intended to be entered into PPA under ‘Green shoe Option’. Successful Bidder(s) shall have to comply with the same

by making submissions required in accordance with Clause 3.5 and 3.6 of the RfS along with Bank Guarantee related to Earnest Money Deposit (EMD) as per the Clause 3.9 of the RfS to the capacity won under "Green-Shoe Option" (in addition to the capacity won previously) within a period of 10 days from the date of acceptance of Green Shoe Option by the successful bidder.

The Successful Bidders shall sign separate PPAs for base (awarded) capacity and green shoe capacity.

The terms & conditions as well as obligations & rights of Successful Bidder(s) as well as MSEDCL shall be identical for additional capacity allocated under the 'Green shoe Option' as for the base capacity of 500 MW under this RfS.

3.5 Qualification Requirements:

1. Bidder as defined in Section 2 is eligible to participate under this RfS.
2. The Bidding Entity should be incorporated in India under the Companies Act 1956 or Companies Act, 2013, as applicable.
3. A bidder which has been selected as successful Bidder based on this RfS can also execute the Project through a Special Purpose Vehicle (SPV) i.e. a Project company especially incorporated as a fully owned subsidiary Company (100% subsidiary) of the successful bidder for setting up of the Project which has to be registered under the Indian Companies Act, 2013, before signing of PPA. Further, the successful bidder 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.
4. 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., i.e. the Project Company incorporated shall have the same shareholding pattern at the time of signing of PPA 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) years from the COD, except with the prior approval of MSEDCL.
5. 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 participating as a member of consortium, the Clause 3.5.3 shall be applicable.

6. 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 Clause 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.

3.6 Eligibility Criteria:

1) Net Worth:

- i. The Net-Worth of the Bidder for the financial year ended on 31.03.2022 shall not be less than INR 1.00 Crores per MW (of the capacity quoted). In case of foreign companies the applicable financial year shall be as per the applicable laws of the country of Incorporation.
- ii. Bidders shall have to furnish a Certificate from Chartered Accountants, certifying the Net worth per MW of quoted capacity as on 31st March, 2022 or 31st December 2021 as the case may be, certifying the Net worth per MW of quoted capacity as on 31st March, 2022 or 31st December 2021 as the case may be.
- iii. However, 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 is not meeting the criteria as mentioned in above para (i), 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 as on latest available date supported with bank statement shall be required to be submitted.
- iv. 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, writeback of depreciation and amalgamation.
- 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, then the Bidder shall be qualified for such lesser quantum, provided that such quantum is not less than minimum bid capacity i.e. as specified in Clause 3.2.2.

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:

- i. A minimum annual turnover of INR 35.17 lakhs/MW of the quoted capacity during the previous financial year i.e. FY 2021-22. 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.
 - ii. Internal resource generation capability, in the form of Profit Before Depreciation Interest and Taxes (PBDIT) for a minimum amount of INR 7.034 Lakhs/MW of the quoted capacity, as on the last date of previous financial year, 2021-22.
 - iii. In-principle sanction letter from the lending institutions/banks of the Bidder, committing a Line of Credit for a minimum amount of INR 8.79 Lakhs/MW of the quoted capacity, 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) 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 Clause 3.6.1 & 3.6.2 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 and performance bank guarantees in case the Bidder(s) fail to do so in accordance with the RfS. In case of non-availability of the Board Resolution as required above, a letter from the CEO/Managing Director of the respective Affiliate(s), undertaking the above, shall be required to be submitted and the requisite Board Resolution from the Affiliate(s) shall be required to be submitted prior to signing of PPA.
- 4) For the purposes of meeting financial requirements, only latest unconsolidated audited annual accounts shall be used. However, audited consolidated annual accounts of the Bidder may be used for the purpose of financial requirements provided the Bidder has at least twenty six percent (26%) equity in each Company whose accounts are merged in the audited consolidated account.
- 5) A Company/ Consortium would be required to submit annual audited accounts for the last financial year, i.e. FY 2021-22 or as on the day at least 7 days prior to the bid

submission deadline, along with net worth, annual turnover and PBDIT certificate (as applicable) from a practicing Chartered Accountant/ Statutory Auditor to demonstrate fulfillment of the criteria. In case of foreign companies, the Bidders shall be required to submit the annual audited accounts for the last respective financial year as per the general norm in the country where the Bidder or its Affiliate(s) is/ are located.

Note: In case of foreign Bidders, in the event the Bidder is unable to furnish the audited annual accounts for the previous financial year as per the prevalent norm in the respective country, the Bidder shall submit the annual audited accounts of the last financial year for which the audited accounts are available. This, however, would be acceptable, subject to the condition that the last date of response to this RfS falls on or within the deadline for completion of audit of annual accounts of companies, as stipulated by the laws/rules of the respective country, and the Bidder shall submit the corresponding documentary evidence against the same. In case the annual accounts are submitted in a language other than English, a certified English translation from an approved translator shall be required to be submitted by the Bidder.

- 6) For meeting the above financial eligibility criteria, if the data is provided by the Bidder in a foreign currency, equivalent Indian Rupees of Net Worth and other financial parameters will be calculated by the Bidder using Reserve Bank of India's reference rates prevailing on the date of closing of the accounts for the respective financial year.
- 7) In case of any currency for which RBI reference rate is not available, Bidders shall convert such currency into USD as per the exchange rates certified by their banker prevailing on the relevant date and used for such conversion. After such conversion, Bidder shall follow the procedure/ submit document as elaborated in Clause 6 above.
- 8) In case the response to RfS is submitted by a Consortium, then the financial requirement (both the Net-Worth and Turnover requirements, if applicable) to be met by each Member of the Consortium shall be computed in proportion to the equity commitment made by each of them in the Project Company.

For example, if two companies A and B form a Consortium with equity participation in 70:30 ratio and submit their bid for a capacity of 100MW, then, total Net-Worth to be met by the Consortium is Rs. 1.00 Crores x 100MW = Rs. 100 Crores. Minimum requirement of Net-Worth to be met by Lead Member A would be minimum Rs. 70 Crores and to be met by Consortium Member B would be Rs. 30 Crores. Similar methodology shall be followed for computation of turnover and other liquidity requirement.

3.7 Connectivity with the Grid:

1. The project should be designed for delivery of energy at delivery point.
2. The responsibility of getting the grid connectivity with STU i.e MSETCL shall entirely be of the successful bidder. The successful bidder shall submit documentary evidence for securing connectivity with grid in its name/ or its developer from STU within 9 (nine)

months from the date of execution of the Power Purchase Agreement, for projects being set up in Solar park, and within 12 (twelve) months from the date of execution of the Power Purchase Agreement, for projects being set up outside Solar park.

Provided that if Successful Bidder/SPV with whom PPA has been executed have the Grid connectivity in name of its developer, the successful bidder shall submit Memorandum of Understanding (MoU) between successful bidder and its developer for utilization of grid connectivity of its developer by the successful bidder under this Tender. However, successful bidder shall fulfill all the responsibilities under PPA.

3. 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 interconnection point shall be responsibility of the Bidder.
4. The arrangement of connectivity can be made by the successful bidder through a dedicated line or sharing of a line. The dedicated line may be constructed by the successful bidder or through any other agency. The entire cost of transmission including cost of construction of line, maintenance, losses etc. from the project up to the delivery point will be borne by the successful bidder. The arrangement of connectivity can be made through sharing of a line, however sharing of line shall be at the discretion of the bidder provided there is a legally binding agreement between the bidder and the other parties sharing the same line for a period not less than 25 years and the bidder shall indemnify MSEDCL for any loss arising out of failure of such shared line.
5. All expenses including wheeling charges and losses between the Project and the Delivery Point shall be paid by the Successful Bidder without any reimbursement by MSEDCL.
6. The successful bidder shall not be entitled to deemed generation in case of any delay in grant of connectivity. The bidder shall choose the location of the project considering the grid connectivity availability upto financial closure.
7. The successful bidder shall comply MERC regulations on Forecasting, Scheduling and Deviation Settlement, as applicable and are responsible for all liabilities related to Connectivity.

3.8 Clearances required from the State Government and other local bodies:

The Bidders are required to obtain necessary clearances and permits as required for setting up the Solar Power Projects.

3.9 Earnest Money Deposit (EMD) and Performance Bank Guarantees (PBG):

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

- i. **Earnest Money Deposit (EMD)** of **INR 4 Lakh / MW** in the form of Bank Guarantee along with RfS according to Format 6.3 A and valid for 06 months from the

last date of bid submission with claim period of 07 months and 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 Maharashtra State Electricity Distribution Company Ltd. (MSEDCL) by the Bidding Company / Lead Member of Bidding Consortium.

The Bidder shall furnish the Bank Guarantees towards EMD from any of the Banks listed in **Annexure-C** in favour of MSEDCL.

In case of Bank Guarantee issued by foreign branch of Bank from bank list (As given in Annexure C) in the RfS is to be endorsed by the Indian branch of the same Bank or State Bank of India.

ii. **Performance Bank Guarantee (PBG):**

The Bidders selected by MSEDCL, based on this RfS shall submit the **Performance Bank Guarantee (PBG) of INR 11 Lakh/MW** according to the Format 6.3 B, issued in favor of MSEDCL with a validity period **up to 6 months** from Scheduled Commercial Operation Date (SCOD) with claim period of 12 months, 2 days prior to signing of PPA. The Bidder shall furnish the Performance Bank Guarantees (PBGs) from any of the Banks listed at **Annexure - C** to MSEDCL. In case of Bank Guarantee issued by foreign branch of Bank from bank list (As given in Annexure C) in the RfS is to be endorsed by the Indian branch of the same Bank or State Bank of India.

- iii. 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.
- iv. The successful bidders are required to sign PPA with the MSEDCL within 30 days after the date of issue 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 as per Section 3.11 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 forfeited by MSEDCL and the selected Project(s) shall stand cancelled.
- v. If the Successful Bidder fails to achieve Financial Closure as prescribed in Clause 3.13, the MSEDCL shall encash the Performance Bank Guarantee (PBG) unless the delay is on account of delay caused due to a Force Majeure. An extension for the attainment of the financial closure can however be considered by MSEDCL, on the sole request of the Solar Power Generator, on payment of penalty of Rs.10000/- per

day per MW (excluding 18% GST. If applicable). This extension will not have any impact on the Scheduled Commissioning Date (SCOD). However such amount of penalty paid so shall be returned to the Solar Power Generator without any interest within a period of 30 days of achievement of successful commissioning provided such commissioning is within the Scheduled Commissioning Date (SCOD).

- vi. All expenditure towards execution of Bank Guarantees such as stamp duty etc. shall be borne by the bidder.
- vii. In order to facilitate the Bidders to submit the Bank Guarantee as per the prescribed format and in line with the requirements, guidelines/instructions for issuance of Bank Guarantee and checklist at Annexure-B has been attached. Bidders are advised to take note of the above checklist while submitting the Bank Guarantees.
- viii. After the bidding process is over, MSEDCL shall release the Bank Guarantees towards EMD of the unsuccessful Bidders within 15 days after the completion of e- reverse auction. The PBG of the solar power generator / bidder shall be returned within 30 days of successful commissioning of their projects as per Terms of PPA, after taking into account any liquidated damages due to delays in commissioning as per Clause 3.14 of RfS and Article 3.3 of PPA.
- ix. On receipt and after successful verification of the total Performance Bank Guarantee in the acceptable form and signing of PPA, the BG submitted towards EMD shall be returned by MSEDCL to the successful Bidder.

3.10 Forfeiture of EMD:

The BG towards EMD shall be forfeited 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 as per Section 3.11;
- 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 3.9.

3.11 Power Purchase Agreement:

1. A copy of Power Purchase Agreement, to be executed between MSEDCL and the successful bidder or its 100% subsidiary Special Purpose Vehicle (SPV), shall be provided by MSEDCL along with this RfS. The PPA shall be signed within 1 month from the date of issue of Letter of Award (LoA). A single PPA shall be executed between MSEDCL and the selected bidder for the awarded capacity. The PPA shall be

valid for a period of 25 years from the Scheduled Commercial Operation Date in case of proposed/new solar power projects or for a period of 25 years from the date of execution of PPA for existing solar power projects based on the terms, conditions and provisions of the RfS, irrespective of dates of early part commissioning or early full commissioning.

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.
3. The successful bidders shall be free to operate their projects after expiry of the 25 years from the SCOD of the project, if other conditions like land lease etc., permits. However, any extension of the PPA period beyond 25 years from the Scheduled Commercial Operation Date in case of proposed/new solar power projects or for a period of 25 years from the date of execution of PPA for existing solar power projects shall be through mutual agreements between the successful bidder and MSEDCL.

3.12 Capacity Utilisation Factor (CUF):

“Declared CUF” shall mean the % capacity utilization factor of the project mentioned in Clause No. 5.4.2 of the PPA and which shall be allowed to revise the same only once at the time of first anniversary of the project i.e. on completion of 1 year from COD. Such revision of the CUF shall be done within 1 month of completion of 1 (one) year from COD and no such revision shall be allowed thereafter and it shall remain unchanged for the balance term of the PPA.

3.12.1 Criteria for generation:

The Successful Bidder/Power producer will declare the CUF of their project at the time of PPA and will be allowed to revise the same once within 1 month of completion of 1 (one) year from COD and no such revision shall be allowed thereafter. The CUF so revised shall be applicable after completion of 1 year from COD till remaining period of PPA. The declared CUF shall in no case be less than 19% over a year. They shall maintain generation so as to achieve annual CUF within + 10% and -15% of the declared value till the end of 10 years from COD, subject to the annual CUF remaining minimum of 17%, and within +10% and -20% of the declared value of the annual CUF thereafter till the end of the PPA duration of 25 years. The lower limit will, however, be relaxable by MSEDCL to the extent of grid non-availability for evacuation which is beyond the control of the developer. The annual CUF will be calculated every year from 1st April of the year to 31st March next year on the energy supplied at delivery point.

3.12.2 Shortfall in minimum generation:

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, on account of reasons solely attributable to 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 the Delivery Point) which is beyond the control of the Successful Bidder. This penalty shall be applied to the amount of shortfall in generation during the Contract Year.

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

3.12.3 Excess Generation:

During any contract year, 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 Solar Power Producer for procurement of excess power within 15 days of receiving a written intimation from the Solar Power Producer for such excess generation. If in case MSEDCL fails to reply to the Solar Power generator within the above stipulated time period then the generator shall be free to sell it to any other entity.

3.12.4 Repowering:

The Successful bidder shall be allowed to repower the project from time to time during the PPA duration. The generator shall not be in default for non-supply of power during this period of repowering. The bidder shall maintain generation so as to achieve annual CUF within + 10% and -15% of the declared value till the end of 10 years from COD, subject to the annual CUF remaining minimum of 17%, and within +10% and -20% of the declared value of the annual CUF thereafter till the end of the PPA duration of 25 years and MSEDCL will be obliged to buy power only within the Capacity Utilization Factor (CUF) range laid down in Power Purchase Agreement (PPA) and compensation against change in law for the repowered capacity shall not be allowed. Any excess generation will be dealt as specified in clause 3.12.3 of RfS.

3.13 Financial Closure or Project Financing Arrangements:

The Successful bidder shall report 100% tie-up of Financing Arrangements for the projects within 9 (nine) months from the date of execution of the Power Purchase Agreement, for projects being set up in Solar park, and within 12 (twelve) months from the date of execution of the Power Purchase Agreement, for projects being set up outside Solar park. In this regard, the SPD shall submit a certificate/necessary documents from all financing agencies regarding the tie-up of 100% of the funds indicated for the Project, including arrangements of funds in the form of Equity. Accordingly, the successful bidder shall furnish the following documents at the time of reporting Financial Closure i.e.

- a) Tie-up of Financing Arrangements: internal resources and/or 100% tie up of funds through a bank / financial institution by way of a legally binding agreement. In case of legally binding agreement is not available at that time, sanction letter for commitment of such finances shall also be considered. The bidder shall submit the undertaking that legally binding agreement shall be submitted within two months from the date of FC.
- b) For internal resources, Copy of Board Resolution, Audited/Certified Balance sheet, Profit & Loss Account Statement, Bank Statement and Cash Flow Statement in support of availability of Internal resources of the Project Company and of the Company other than Project Company (in case the required funding will be raised from Company other than Project Company).
- c) Submit power evacuation/ connectivity agreement of successful bidder with STU/DISCOM;
- d) Copy of Final Detailed Project Report (DPR);
- e) Copy of Agreement/ MOU entered into / Purchase Order with acceptance, for the supply of Plants and Equipment;
- f) Certificate from Project Company that Technical specifications and directives given in Annexure-A of the RfS.
- g) **Ownership of the SPD:** Latest Shareholding Pattern of the Project Company certified by Chartered Accountant.
- h) Activity wise final schedule for meeting timelines/milestones as per RfS, Material Procurement, final date/month of delivery of Solar Modules/Panels at site, Country of Import, if not domestically procured - Solar Modules/Panels, Start and Completion of construction activities etc.
- i) Self-Undertaking for identification of 100% land for Solar Project as per the format attached as Annexure-F.

If the Project Developer fails to tie-up Financing Arrangement for the projects within 9 (nine) months from the date of execution of the Power Purchase Agreement, for projects being set up in Solar park, and within 12 (twelve) months from the date of execution of the Power Purchase Agreement, for projects being set up outside Solar park, as prescribed above or if the Project Developer 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 a Force Majeure, an extension for the attainment of the financial closure can however be considered by MSEDCL, on the sole request of the Solar Power Generator, on payment of penalty of Rs.10000/- per day per MW (excluding 18% GST, if applicable). This extension will not have any impact on the Scheduled Commissioning Date (SCOD).

3.14 Commissioning and penalty for delay in commissioning:

- 3.14.1 The Projects shall be commissioned within a period of 15 (fifteen) months from the date of execution of the PPA, for projects being set up in Solar park, and within a period of

18 (eighteen) months from the date of execution of the PPA, for projects being set up outside Solar park.

- 3.14.2 The Successful Bidder shall be required to obtain Developer and / or Transfer Permission, Copy of key plan drawing showing survey number, plot number, point of installation of solar project with capacity.
- 3.14.3 Further, evidence of clear possession of Project Site selected by Successful Bidder shall be submitted 30 (Thirty) days before the Scheduled Commercial Operation Date or extended SCOD for which the Successful Bidder shall provide documents/ Lease Agreement to establish possession/ right to use 100% (hundred per cent) of the required land in the name of the Successful Bidder or its Affiliate. In case the land is in the name of Affiliate, the land should be transferred in the name of Successful Bidder prior to Scheduled Commercial Operation Date (SCOD). Wherever leasing of private land is involved, the lease should allow transfer of land to lenders or MSEDCL, in case of default of the Successful Bidder. For lease of Government land, if the lease is not available upfront for the entire term of the PPA, then the Successful Bidder shall be required to give an undertaking stating that they shall be solely responsible for securing the extension of required land for the balance period of term of PPA. For lease of private land, the lease period shall cover the entire term of PPA. Sworn affidavit from the authorized person of the Successful Bidder listing the details of the land and certifying total land required for the Project under clear possession of the Successful Bidder shall be submitted by the Successful Bidder 30 (thirty) days before SCOD. Commissioning of the Project will not be allowed until the demonstration of land possession by the successful bidder. Such delay in commissioning, if any, shall lead to liquidated damages as per clause 3.14.7.
- 3.14.4 Synchronization permission shall be issued by MSLDC and after successful commissioning of Project , commissioning certificate shall be issued by MSEDCL.
- 3.14.5 **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 50 MW, without prejudice to the imposition of penalty, in terms of the PPA on the part which is not commissioned. However, the SCOD (Scheduled 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. In case of commissioning of project delayed beyond SCOD, MSEDCL will purchase the generation for the period from Scheduled COD to Commercial Operation Date at 75% of PPA tariff.
- 3.14.6 **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 case of early full commissioning, till SCOD, MSEDCL will purchase the generation till SCOD at PPA tariff. 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 without any additional Tariff on account of Change in Law till the SCoD.
- 3.14.7 The Project shall be commissioned by the Scheduled Commercial Operation Date. In case

of failure to achieve this milestone, MSEDCL shall forfeit the Performance Bank Guarantee (PBG) in the following manner.

- a) **Delay upto Six (6) months from SCOD** – MSEDCL will forfeit total Performance Bank Guarantee on per day basis and proportionate to the Capacity not commissioned.
- b) **In case the commissioning of the project is delayed beyond Six (6) months from SCOD** :-- The maximum time period allowed for commissioning of the full Project Capacity with encashment of Performance Bank Guarantee shall be limited to 21 (Twenty One) months from the date of execution of the PPA, for projects being set up in Solar park, and within a period of 24 (Twenty Four) months from the date of execution of the PPA, for projects being set up outside Solar park.
- c) In case, the Commissioning of the Project is delayed beyond this period as mentioned in Section (b) above, the power producer's Event of Default as per clause 10.3 of PPA, shall be considered to have occurred and the contracted capacity shall stand reduced / amended to the project Capacity Commissioned upto the maximum time period allowed for commissioning of the full Project capacity and the PPA for the balance Capacity not commissioned shall be terminated and shall be reduced from the selected Project Capacity.

3.15 Commercial Operation Date (COD):

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

3.16 Minimum Paid up Share Capital to be held by Project Promoter

- i) The Company developing the project shall provide complete information in their bid in reference to RfS about the Promoters and their shareholding in the company indicating the controlling shareholding before signing of PPA with MSEDCL.
- ii) 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.
- iii) 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.

- iv) 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.
- v) Any change in the shareholding after the expiry of 1 (one) year from the COD can be undertaken under intimation to MSEDCL.
- vi) 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. However, in case Parent company is a listed company, then shareholding pattern of promoters of Parent Company shall not be changed.
- vii) In the event the Solar Power Generator is in default to the lender(s), lenders shall be entitled to undertake “Substitution of Promoter” in concurrence with MSEDCL.
- viii) 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 INR 10 Lakh per Project 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.

3.17 Structuring of the Bid selection process:

Single stage, double envelope bidding followed by reverse auction has been envisaged under this RfS. Bidders have to submit both Technical bid and Financial bid (Fixed Tariff) together in response to this RfS online. The preparation of bid proposal has to be in the manner described in **Section 3.18 & 3.21**.

3.18 Instructions to Bidders for structuring of bid proposals in Response to RfS

The bidder including its Parent, Affiliate or Ultimate Parent or any Group Company shall submit single response to RfS.

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

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

1. Covering Letter as per **Format 6.1**.

2. 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**.

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.

3. Earnest Money Deposit (EMD) in the form as per **Format 6.3 A**.
4. Performance Guarantee (to be submitted before signing of PPA as specified in Section 3.9) in the form as per **Format 6.3 B**.
5. 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.
6. 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.
7. Bidder shall ensure that the technology to be adopted shall be commercially established technology as per **Annexure A** and is under operation for at least one year. The cells and modules used in the Project shall be sourced only in accordance with MNRE's O.M. dated 10.03.2021 on the subject "Approved Models and Manufacturers of Solar Photovoltaic Modules (Requirement of Compulsory Registration) Order, 2019- Implementation-Reg." and its subsequent amendments

and clarifications, and updated anytime between the bid submission deadline upto the date of commissioning of the Project. However, Bidder shall submit the details of Modules, atleast 30 days before SCOD. Further, the bidder shall submit Declaration Format associated with Implementation of ALMM Order as per the Annexure-E attached to this RfS

8. Tie-up of Financing Arrangements for the projects within 9 (nine) months from the date of execution of the Power Purchase Agreement, for projects being set up in Solar park, and within 12 (twelve) months from the date of execution of the Power Purchase Agreement, for projects being set up outside Solar park.
9. **Format 6.6:** Format for Disclosure.
10. Attachments:
 - i) Memorandum of Association, Section of Association needs to be attached along with the bid. The bidder should also highlight the relevant provision which highlights the objects relating to generation and sale of Power/ Energy/ Renewable Energy/ Solar Power plant development.
 - ii) In case, there is no mention of the above provisions in the MoA/ AoA 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.
 - iii) Certificate of Incorporation of Bidding Company / all member companies of Bidding Consortium.
 - iv) 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 one week prior to the last date of bid submission.
 - v) Documents containing information about the Promoters and their shareholding in the Company (as on a date within one week 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 3.16. 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.
 - vi) Certified copies of annual audited accounts for the last financial year 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 as on latest available date supported with bank statement (if available) shall be required to be submitted. In case Final Audited Annual Accounts for the last financial

year are not available, then MSEDCL shall accept the Provisional Accounts which are duly certified by a practicing Chartered Accountant of India. Provided that an undertaking is submitted by the bidder confirming that Final Audited Annual Accounts for the last financial year are not available as on date of bid submission. Foreign Bidders shall be required to 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.

- vii) Certificate from Chartered Accountants, certifying the Networth of the bidder per MW of quoted capacity as per Section 2 of the Companies Act 2013 as on date of financial year ending i.e. 31.03.2021 or 31.12.2021 as the case may be, 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 is not meeting the criteria as per Clause 3.6 (i), 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 as on latest available date supported with bank statement shall be required to be submitted.
- viii) In case a bidder submits the Net-worth credentials of its Parent / Affiliate, an undertaking from such Parent / Affiliate shall be submitted, stating that in case the bidder(s) fails to contribute required equity funding and performance bank guarantee, the same shall be done by such Parent / Affiliate in line with Clause 3.6(ii) of the RFS.
- ix) Activity wise Tentative schedule for meeting timelines/milestones as per RfS at the time of bid submission such as Grid Connectivity, Material Procurement, tentative date/month of procurement of Solar Modules/Panels, Country of Import, if not domestically procured - Solar Modules/Panels, Start and Completion of construction activities etc. However, if any revision in given schedule, Bidder shall submit it at the time of Financial Closure.

3.19 Important notes and instructions to Bidders:

- a) 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.
- b) 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.
- c) 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.

- d) If the event specified at point (c) above is discovered after the Effective Date of PPA, consequences specified in PPA shall apply.
- e) 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 3.9 (ix).
- f) All documents of the response to RfS (including RfS, PPA and all other documents uploaded on <https://www.bharat-electronictender.com> as part of this RfS) submitted online must be digitally signed by the person authorized by the Board as per Format 6.4.
- g) The response to RfS shall be submitted as mentioned in Section 3.21. 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.
- h) 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.
- i) Bidders shall mention the name of the contact person and complete address of the Bidder in the covering letter.
- j) Response to RfS that are incomplete, which do not substantially meet the requirements prescribed in this RfS, will be liable for rejection by MSEDCL.
- k) Response to RfS not submitted in the specified formats will be liable for rejection by MSEDCL.
- l) Bidders delaying in submission of additional information or clarifications sought will be liable for rejection.
- m) 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.
- n) Only MERC and/ or Bombay High Court shall have exclusive jurisdiction in all matters pertaining to this RfS.
- o) The bidders are advised to take cognizance of the O.M. dated 09.03.2021 issued by MNRE, on the subject of “Imposition of Basic Customs Duty (BCD) on Solar Cells & Modules/Panels”, while preparation of their response to this RfS. The above O.M.

and its associated orders issued by the Ministry of Finance will be applicable on this tender and imposition of taxes/duties as laid out in the above OM, will not be considered under “Change in Law” under the PPA.

3.20 Non-responsive Bid:

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.

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 the original documents mentioned at **Section 3.21 A** by due date and time of bid submission;
- e) Any indication of tariff in any part of response to the RfS, other than in the financial bid.
- f) Data filled in the Electronic form of financial bid (Second envelope), not in line with the instructions mentioned in the same electronic form;
- g) Bidder or any of its Affiliates is a willful defaulter to any lender;
- h) 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;
- i) 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.
- j) Conditional bids shall be summarily rejected.

3.21 Method of Submission of Response to RfS by the bidder

A. Documents to be submitted Offline (in Original)

The bidder has to submit the documents 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,” at the top of the Envelope and “Name & Address of the Bidder” on the left hand side bottom must contain the following:

- (a) Covering Envelope: **Superscribed as** “Covering Envelope Containing Cost of

RfS Document, Processing Fee, Bank Guarantee towards EMD, and Covering Letter, Power of Attorney (if applicable), Consortium Agreement (if applicable), Board Resolution” **must contain the following:**

- i) Payment details for RfS Document as mentioned in Bid Information Sheet.
- ii) Payment Details for Processing Fee as mentioned in the Bid Information Sheet
- iii) Original Bank Guarantee towards EMD as mentioned in the Bid Information Sheet (as per Format 6.3A). One EMD may be submitted for the cumulative capacity quoted by the bidder.
- iv) Covering Letter as per Format-6.1,
- v) Power of Attorney as per Format 6.2 (if applicable),
- vi) Board Resolution as per Format 6.4
- vii) Consortium Agreement as per Format 6.5 (if applicable)
- viii) Letter for Disclosure, as per format 6.6
- ix) Timelines of the Milestones (Formats 6.8)
- x) Bidders’ Declaration Format associated with Implementation of ALMM Order (Annexure-E)

(b) Pass-Phrase Envelope-1: Containing Pass Phrase for Technical Bid duly stamped and signed by the authorized signatory in sealed envelope.

(c) Pass-Phrase Envelope-2: Containing Pass Phrase for Financial Bid duly stamped and signed by the authorized.

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

<i>Response to RfS for procurement of 500 MW of Power from Intra-State Grid-Connected Solar Power Projects with Green shoe option upto 500 MW (Phase –X)</i>	
<i>Cumulative Capacity of the project applied for</i>	<i>___MW</i>
<i>No. of Locations Bid for</i>	
<i>RfS Reference No.</i>	
<i>Submitted by</i>	<i>(Enter Full name and address of the Bidder)</i>
<i>Authorized Signatory</i>	<i>(Signature of the Authorized Signatory) (Name of the Authorized Signatory) (Stamp of the Bidder)</i>

<i>Bid Submitted to</i>	Chief Engineer (Renewable Energy) Maharashtra State Electricity Distribution Co. Ltd. Office of the Chief Engineer (Renewable Energy) “Prakashgad”, 5th Floor, Station Road, Bandra (E), Mumbai -400 051. Tel.: 26474211
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B. Documents to be submitted Online:

Detail instructions to be followed by the bidders for online submission of response to RfS as stated as **Annexure-D**. 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.bharat-electronictender.com> which should contain the following:

1. “Technical Bid (First Envelope)”

The Bidder shall upload single technical bid 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
- ii. All supporting documents regarding meeting the eligibility criteria.
- iii. The bidder will have to fill the Electronic Form provided at <https://www.bharat-electronictender.com> as part of Technical Bid.

2. “Financial Bid (Second Envelope)”

Bidders shall submit the single Financial Bid containing the scanned copy of following document(s):

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 <https://www.bharat-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:

- a) The Bidders shall not deviate from the naming and the numbering formats mentioned above, in any manner.
- b) 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.

- c) 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.
- d) All the Envelopes shall be properly sealed with the signature of the Authorized Signatory running across the sealing of the envelopes.

3.22 Validity of the Response to RfS

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 with Earnest Money Deposit (EMD) claim period of 07 months as per clause 3.9 of the RfS (“Bid Validity”) or as may be extended by MSEDCL. Further, MSEDCL reserves the right to reject any response to RfS which does not meet the aforementioned validity requirement.

3.23 Bid Preparation cost

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.

3.24 Clarifications/Pre Bid meeting/ Enquires/ Amendments

- i. Clarifications /Doubts, if any, on RfS document may be emailed and/or through <https://www.bharat-electronictender.com>
- ii. 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 in the <https://www.bharat-electronictender.com>. If necessary, amendments, clarifications, elaborations shall be issued by MSEDCL which will be notified on <https://www.bharat-electronictender.com>. No separate reply/intimation will be given for the above, elsewhere.
- iii. A Pre Bid Meeting shall be held as mentioned in the Bid Information sheet.

3.25 Right of MSEDCL to reject a Bid:

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.

3.26 Pre and Post LoA Compliance :

Timely completion of all milestones i.e. signing of PPA, meeting Financial Closure requirements, conditions subsequent, 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.

SECTION 4: BID EVALUATION AND SELECTION OF PROJECTS

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

In this step evaluations shall be done based on the “Tariff” quoted by the bidders in the Electronic Form of Financial Bid.

- i. The bidders including its Parent, Affiliate or Ultimate Parent or any Group Company will have to submit bid (single application) quoting a 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).
- ii. In this step, evaluation will be carried out based on tariff quoted by the Bidders.
- iii. On completion of Techno-commercial bid evaluation, if it is found that the total aggregate capacity of the Solar Power Projects short-listed is lower than or equal to 500 MW, then further process shall be as follows:

Assuming-

ST=Capacity of the total number of techno-commercially qualified bidders

SE=Eligible Capacity for Award

SE=Eligible Capacity for award	In Case $ST \leq 500$ MW, $SE=0.8 \times ST$
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Total eligible bidders for e-Reverse Auction in case $(0.8 \times ST) \leq 500$ MW – All techno-commercially qualified bidders whose financial bids are in accordance with the provisions of the RfS, will be shortlisted for e-RA.

Note: In case of each category, 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 in consultation with MERC. If more than 5 bidders submitted their bids, then the bidder or bidders with the highest quoted Tariff shall be disqualified from this Tender process.

- i. 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.
- ii. 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	INR 2.30 (TARIFF IN INR/ KWH)	L1
B5	INR 2.70 (TARIFF IN INR/ KWH)	L2
B1	INR 2.80 (TARIFF IN INR/ KWH)	L3
B4	INR 2.80 (TARIFF IN INR/ KWH)	L3

B2	INR 3.00 (TARIFF IN INR/ KWH)	L4
B3	INR 3.30 (TARIFF IN INR/ KWH)	L5
B7	INR 3.50 (TARIFF IN INR/ KWH)	L6
B6	INR 3.60 (TARIFF IN INR/ KWH)	L7
B10	INR 3.90 (TARIFF IN INR/ KWH)	L8
B9	INR 4.00 (TARIFF IN INR/ KWH)	L9
B11	INR 4.00 (TARIFF IN INR/ KWH)	L9

In above illustration both L9 bidders (B9 and B11) shall be disqualified.

Example: If L5 and L6 or above have same highest quoted Tariff, then MSEDCL shall disqualify L6 and above, taking consideration of the bid submission date and time.

4.3 Reverse Auction (Step-3):

4.3.1 The reverse auction shall be conducted on <https://www.bharat-electronictender.com> Reverse Auction shall be carried out as specified in “Bid Information Sheet” of this RfS.

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

- a) During the 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.
- b) 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.
- c) Bidders can only quote any value lower than their previous quoted tariff taking into consideration of the minimum decrement value mentioned in the 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.
- d) During Reverse Auction, the bidder shall not have the option of changing the total project capacity while quoting the tariff.
- e) In the bidder’s bidding window, the following information can be viewed by the bidder:
 - i. Its tariff as their initial start price and there after last quoted tariff along with project capacity for which the bidder is qualified;
- f) The initial auction period will be of 30 minutes with a provision of auto extension by Eight minutes from the scheduled/extended closing time if any

fresh bid is received in last eight (8) minutes of auction period or extended auction period. If no valid bid is received during last Eight 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 bidders shall be selected in the ascending order with lowest quoted tariff (being L1) till the capacity is exhausted.

4.4.2 The lowest quoting bidder will be allotted its qualified project capacity and then, next higher bidder will be allotted its qualified project capacity and so on, till the total capacity (i.e. 500 MW) is exhausted.

4.4.3 In case of the last selected bidder, if the balance project capacity is less than the total project capacity mentioned by the bidder, then the balance capacity shall be awarded to the bidder till the total capacity (i.e. 500 MW) is exhausted. However, if the allocated capacity is less than the 50% of the offered capacity by the bidder then right to refusal shall be lie with the bidder. In case the last selected bidder opts for right of refusal as stated above, the bidder shall intimate MSEDCL about its refusal within two working days after e- Reverse Auction event in writing. This balance capacity will be offered to next eligible bidders at MSEDCL's discretion.

4.4.4 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.

4.4.5 In the above case (as mentioned in previous Section), if the time of quote also become 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.

4.4.6 At the end of selection process, a letter of Award (LOA) will be issued to all the successful bidders. In case 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 other- wise based on tariff or annulment of tender process shall be final and binding on all participating bidders.

Also, MSEDCL shall reserve the right to short close the capacity lower than 500 MW at its discretion if prices are abruptly high. Additionally, the discretion to allot or not to allot the additional upto 500 MW capacity under Green Shoe option shall be vested solely with MSEDCL.

SECTION 5: OTHER PROVISIONS

Section 5: Other Provisions

5.1 General Design of the Facility:

The Bidder shall ensure to operate and maintain the Facility in accordance with the relevant technical standards in terms of the Electricity Act 2003 and Rules, Regulations, Orders and Policy decisions there under.

The Bidder shall ensure that the Facility at all times (Applicable for Intra-State Projects only):

- a. Have SCADA installation/ any other continuous communication facility for transferring the data of Solar Energy generated from the Facility's switchyard to the State Grid's Sub-Station;
- b. Have installed Special Energy Meter (SEM) with telecommunication facility with Availability Based Tariff (ABT) and Automated Meter Reading (AMR) feature as per relevant CEA specifications / regulations as may be applicable.
- c. Moreover, it shall be mandatory to provide real time visibility of electricity generation to MSLDC at Airoli, Navi Mumbai, Maharashtra through RTU-DC, V-SAT.

SECTION 6: FORMATS FOR BID SUBMISSION

Section 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 **Sections 3.5, 3.16, 3.18** of Section 3 and other submission requirements specified in the RfS.

- a) Format of Covering Letter (Format 6.1)
- b) Format for Power of Attorney (Format 6.2)
- c) Format for Earnest Money Deposit (EMD) (Format 6.3 A); Format for Performance Bank Guarantee (Format 6.3 B)
- d) Format for Board Resolutions (Format 6.4)
- e) Format for the Consortium Agreement (Format 6.5)
- f) Format for Disclosure (Format 6.6)
- g) Format for submission of financial bid (Formats 6.7)
- h) Format regarding Timelines of the milestones (Format 6.8)
- i) Technical Requirements for Grid Connected Solar Power Projects (Annexure - A)
- j) Check List for Bank Guarantees (Annexure-B)
- k) List of Banks (Annexure-C)
- l) Special Instructions to Bidders for e-Tendering and Reverse Auction (Annexure-D)
- m) Bidders' Declaration Format associated with Implementation of ALMM Order (Annexure-E)
- n) Self-Undertaking for identification of 100% land for solar project (Annexure-F).
- o) Tracker Specifications (Annexure-G)

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:

GST number:

To

Chief Engineer (Renewable Energy)
Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL),
Renewable Energy Section, 5th Floor, 'Prakashgad',
Bandra (East), Mumbai - 400 051
Email – ncetendersedcl@gmail.com
Tel. No.022-26474211.

Sub: Response to **RfS No. MSEDCL/RE/2023/500 MW Solar/Ph-X/T- 19 Dated 14.02.2023**
for purchase of power from ----- MW grid connected solar power projects through
competitive bidding process (followed by reverse e-auction) with Greenshoe option of
additional upto 500 MW.

Dear Sir,

We, the undersigned [insert name of the 'Bidder'] having read, examined and understood in detail the RfS including Qualification Requirements in particular, terms and conditions of the standard PPA for supply of power for a period of 25 years from the Commercial Operation Date in case of proposed/new solar power projects i.e. the date on which full commissioning of the project capacity is achieved or for a period of 25 years from the date of execution of PPA for existing solar power projects 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 following

Solar Power Project(s):-

	Capacity (MW)	Location of Project (Village, Taluka, District.,	Sub-station Details
01			
02			

(Note: 1. The bidder must ensure the project capacity mentioned should be as per Section 3.2 (2).

2. Delete/Insert the rows as applicable, and number the Projects and envelopes accordingly).

1. We give our unconditional acceptance to the RfS dated ----- and PPA.

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 a period of 15 (fifteen) months from the date of execution of the PPA, for projects being set up in Solar park, and within a period of 18 (eighteen) months from the date of execution of the PPA, for projects being set up outside Solar park.

2. Earnest Money Deposit (EMD): - (Please read Section 3.9 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 3.9 of this RfS. The total capacity of the Solar Power Project offered by us is MW.

3. We hereby declare that in the event our Project get selected and we are not able to submit Bank Guarantee of the requisite value(s) towards PBG for the selected Projects within due time as mentioned in 3.9 , respectively on issue of LOA by MSEDCL for the selected Projects 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 forfeit 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 this 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 which shall be our 100% subsidiary, 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 9 (nine) months from the date of execution of the Power Purchase Agreement, for projects being set up in Solar park, and within 12 (twelve) months from the date of execution of the Power Purchase Agreement, for projects being set up outside Solar park. In the event of delay in commissioning, the provisions of Section 3.14 of the RfS/ relevant Sections of PPA shall be applied on such projects. Further, the project shall not be considered as commissioned unless the connectivity with STU /DISCOM grid is established, SNA/MEDA registration and SLDC/DISCOM issues certificate of commissioning. We are submitting our response to the RfS with formats duly signed as desired by you in the RfS online for your consideration.

10. 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.

11. 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.

12. 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 with Earnest Money Deposit (EMD) claim period of 07 months as per clause 3.9 of the RfS or as may be extended by MSEDCL).

13. 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:.....

14. 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 Power Producer's event of default under PPA and consequent provisions of PPA shall apply.

Dated the day of __, 20...

Thanking you,

Yours faithfully,

(Name, Designation and Signature of Person Authorized by the board as per Section 3.18 (5) (a))

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 atand 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/2023/500 MW Solar/Ph-X/T-19 Dated 14.02.2023.**

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

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/Projects of the cumulative capacity of MW [Insert cumulative Project capacity proposed] for Procurement of up to ---- MW of Power from grid-Connected Solar Power Projects for long term basis, in response to the RfS No. _____ -- issued 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 INR 4 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 3.9 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 INR _____ (INR only).

Our Guarantee shall remain in force until [insert date of validity in accordance with Section 3.9 of this RfS]. MSEDCL shall be entitled to invoke this Guarantee till[insert date of validity in accordance with Section 3.9 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 Mumbai 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, 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 herein:

- (i) *Our liability under this Bank Guarantee shall not exceed Rs. _____ (Rupees ___ only)*
- (ii) *This Bank Guarantee shall be valid up to _____ and*
- (iii) *We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before..*
... .. (mention period of the guarantee as found under clause (ii) above plus claim period of at least 6 months)

IN WITNESS WHEREOF THE BANK, through its authorised officer has set its hand and stamp on this day of _____ in the city of _____ i.

This Bank Guarantee shall be effective only when the BG message is transmitted by the issuing Bank through SFMS to Bank of India, Mumbai large corporate branch M.G. Road Fort, Mumbai - 400001

Signature :
Name:
Designation with Bank Stamp:
Official Address:

Witness 1
Signature :
Name:

Witness 2
Signature:
Name :

FORMAT- 6.3 B

Format for Performance Bank Guarantee for Solar Power Project

Ref. __ Bank Guarantee No. _____ Date: _____

In consideration of the ----- [Insert name of the Bidder] (hereinafter referred to as selected Solar Power Developer') 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 from _____ MW _____ (mentioned the Source) Power Projects through competitive bidding process (followed by reverse e-auction), in response to the RfS No. _____ dated..... issued by Maharashtra State Electricity Distribution Company Limited (hereinafter referred to as MSEDCL) and MSEDCL considering such response to the RfS of[insert the name of the selected Solar Power Developer] (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 Solar Power Developer and issuing Letter of Intent No. ----- to (Insert Name of selected Solar Power Developer) 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 selected Solar Power Developer or a Project Company, M/s -----.

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 the MSEDCL] 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 selected Solar Power Developer / Project Company].

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 INR__ only.

Our Guarantee shall remain in force until..... MSEDCL shall be entitled to invoke this Guarantee till(**mention validity period as per clause 3.9 (ii) of the RfS**)

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 selected Solar

Power Developer/Project Company; as applicable] 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 selected Solar Power Developer / Project Company, to make any claim against or any demand on the selected Solar Power Developer/Project Company or to give any notice to the selected Solar Power Developer / Project Company or to enforce any security held by MSEDCL or to exercise, levy or enforce any distress, diligence or other process against the selected Solar Power Developer / Project Company .

The Guarantor Bank acknowledges that this BANK GUARANTEE is not personal to MSEDCL and may be assigned, 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 herein:

- (i) *Our liability under this Bank Guarantee shall not exceed Rs. _____ (Rupees ___ only)*
- (ii) *This Bank Guarantee shall be valid up to _____ and*
- (iii) *We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before..
.. (mention period of the guarantee as found under clause (ii) above plus claim period of at least 6 months)*

IN WITNESS WHEREOF THE BANK, through its authorised officer has set its hand and stamp on this day of _____ in the city of _____ i.

This Bank Guarantee shall be effective only when the BG message is transmitted by the issuing Bank through SFMS to **Bank of India, Mumbai large corporate branch M.G. Road Fort, Mumbai - 400001**

Signature :
Name:
Designation with Bank Stamp:
Official Address:

Witness 1
Signature :
Name:
Witness 2
Signature:
Name :.

FORMAT-6.4

Format for Board Resolutions

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 vide **RfS No.** _____ for purchase of power from ---- MW Grid connected solar power projects through competitive bidding process (followed by reverse e-auction) with additional upto 500 MW under Green Shoe option including signing and submission of all documents and providing information / response to RfS to Maharashtra State Electricity Distribution Company Limited(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 Sr. No. 2, the following resolutions are to be provided]

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%).**

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)**

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 submitted separately for each Project)

(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. _____ issued by 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 500 MW Grid connected solar power projects through competitive bidding process (followed by reverse e-auction) with Green Shoe option of additional upto 500 MW WHEREAS, MSEDCL had invited response to RfS vide its Request for Selection (RfS) dated **MSEDCL/RE/2023/500 MW Solar/Ph-X/T-19 Dated 14.02.2023.**

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 Power Producer 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 there under.

- 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:

3) Signature -----

Name:

Address:

4) Signature -----

Name:

Address:

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

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

Witnesses:

5) Signature -----

Name:

Address:

6) Signature -----

Name:

Address:

Signature and stamp of Notary of the place of execution

Note: - Technology Partner in a Consortium shall be a Company with equity participation less than 10%.

FORMAT- 6.6

Format for Disclosure

[On the letter head of Bidding Company/ Each Member in a Bidding Consortium]

Disclosure

We hereby declare and confirm that only we are participating in the RfS Selection process for the RfS No..... 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 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 forfeited 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 (RE)
Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL),
Renewable Energy Section, 5th Floor, 'Prakashgad',
Bandra (East), Mumbai - 400 051

Sub: Response to RfS No..... FOR PURCHASE OF POWER FROM 500 MW GRID CONNECTED SOLAR POWER PROJECTS THROUGH COMPETITIVE BIDDING PROCESS (FOLLOWED BY REVERSE E-AUCTION) WITH GREEN SHOE OPTION OF ADDITIONAL UPTO 500 MW

(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 with Earnest Money Deposit (EMD) claim period of 07 months as per clause 3.9 of the RfS or as may be extended by MSEDCL such further period as may be mutually agreed upon .

- 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.bharat-electronictender.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.
- 4) Conditional proposal shall be considered as non-responsive and summarily rejected.
- 5) In the event of any discrepancy between the values entered in figures and in words, the values entered in words shall be considered.
- 6) The tariff should be mentioned up to two places of decimal only.
- 7) 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 Regarding Timelines of the Milestones

D represents Effective Date of PPA		
S. No.	Query item	Response
a.	Tentative date/month of procurement of RE generating equipment's such as Solar Modules/Panels etc	- Solar Modules/Panels– D + ---- months
b.	Country of Import, if not domestically procured	- Solar Modules/Panels -----
C1.	Land Procurement	By D + ----- months
C2.	Grid Connectivity	-----
C3.	Material Procurement	D + ----- months
C4.	Start and Completion of construction activities	Start of construction activities – D + ---- month onwards
		Completion of construction – D + ----- months
C5.	Testing and Commissioning	D + ----- months
C6.	Scheduled Commercial Operation Date (SCOD)	D + ----- months

Annexure – A: Technical Parameter of PV Module and various other components for use in Grid Connected Solar Power Plants

All components of the PV plant 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) 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.

Crystalline Silicon Solar Cell Modules	IEC 61215
Thin Film Modules	IEC 61646
Concentrator PV modules	IEC 62108

In addition, PV modules must qualify to IEC 61730 for safety qualification testing @1000 V DC or higher. For the PV modules to be used in a highly corrosive atmosphere throughout their lifetime, they must qualify to IEC 61701.

2) 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	IEC 61683
Environmental Testing	IEC 60068-2/ IEC 62093
Electromagnetic Compatibility	IEC 61000-6-2, IEC 61000-6-4 & other relevant parts of IEC 61000
Electrical Safety	IEC 62103/ 62109-1&2
Protection against Islanding of	IEEE1547/IEC 62116/ UL1741 or equivalent EN/BIS Standards
LVRT Compliance	As per the latest CERC Guidelines/ Order/ Regulations
Grid Connectivity	Relevant 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 50°C shall be considered) in kW will be considered as inverter rated

3) **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 COD of the project i.e. the date on which full commissioning of the project capacity is achieved and voltages as per latest IEC standards. (**Note:** IEC Standard for DC cables for PV systems is under development. It is recommended that in the interim, the Cables of 600 - 1800 Volts DC for outdoor installations should comply with the BS EN50618:2014/2pfg 1169/08.2007 or equivalent IS for service life expectancy of 25 years).

4) **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

5) **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.

6) **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 i.e. the date on which full commissioning of the project capacity is achieved.
- 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.

7) **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/m^2 , AM 1.5, 25°C)
- 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.
- xi) Site owners would be required to maintain accessibility to the list of Module IDs along with the above parametric data for each module.

8) 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.

Appendix-A-2

Installation Report

(To be provided by POWER PRODUCER and to be submitted at least 10 days prior to commissioning date by Appropriate Authority of State)

Sr. No.	Capacity of the Project (MW)	
	Capacity already commissioned (MW)	
	Capacity proposed to be commissioned (MW)	
I.	Technology used (Mono/Multi Crystalline / thin film / Others; please specify along with capacity of each type)	
II.	Rating of the each module (Wp)	
III.	Angle from horizontal at which array is installed	
IV.	Number of modules installed of each type	
V.	Source(s) of the cells installed of each type	
VI.	Source(s) of the Modules installed of each type	
VII.	Number of PCUs / Inverters installed	
VIII.	Source of the PCUs / Inverters (Name of supplier with address)	
IX.	Rating of PCUs / Inverters	
X.	Date of installation of full capacity (as per capacity proposed to be commissioned)	-----
	PV arrays	
	PCUs / Inverters	
	Transformers	

Appendix-A-3

Sample Connectivity Report

(To be provided by concerned STU/Transmission Utility/Discoms)

This is in compliance to the office order of the -----,----- Discom, <Place> issued vide office order <No.><dated>, the committee constituted vide said order has completed the work for commissioning of <kV> Bay & Metering Equipment to interconnect the <MW> Solar Power Generation Plant (having <technology>) with Grid installed at <Village>, <Tehsil>, <District> in the <State> on <date>. The details of Solar Power Plant are as under:-

S. No	Name of Solar Power Developer & Location	Capacity Mentioned in PPA	Connectivity	Details of Solar Power Plant (Transformer, Inverter, Modules, Switchgear)
1	<M/s> <Village> <Tehsil> <District>	<> MW	Metering Detail at Delivery Point (<Village>) S.No. of <kV> CT i) <R- Phase> ii) <Y-Phase> iii) <B- Phase> S.No. of <kV> PT i) <R- Phase> ii) <Y-Phase> iii) <B Phase> S.No. of Main<ABT Meter> S.No. of Check <ABT Meter> Metering Equipment installed at Receiving end on dated: <> 33 kV GSS, <>, <>, (<Distt.>)	i) Transformer < Make/Type :> < Sr. No.> ii) Inverters <Make/Type:> <Sr. No.> iii) Modules <Make: > <W>, < W > <Total: Nos.> iv) Switchgear Panels <Make/Type:> <Sr. No.> v) Protection Provided: Under/Over voltage, Over current & Earth fault.

The Commissioning date of various equipment is as under:

<kV> line from --- to -----, completed on date -----.

Line Bay at < kV > GSS, ----- charged for ---- on -----.

<kV> line charged from -----to----- on date-----.

Main & check metering commissioned on (initial record of main/Check meters at the time of Commissioning is to be taken and enclosed) Complete system commissioned on date-----

The Joint Inspection Report of metering arrangement & copy of permission of Electrical Inspector is enclosed herewith.

Sample Synchronization Certificate

It is certified that ----- MW (Capacity) Solar Photovoltaic Power Project of M/s. -----, Village ----- Tehsil/Taluka -----, District ----- was Grid connected on (Date) at----- ---- Hrs.

It is further certified that the Project was synchronized and supply of power into the grid from the Project connected on (Date) at ----- Hrs.

The above certificate is issued on the basis of MRI record. NB:

- (i) The above certificate shall be issued by concerned STU/ Transmission Utility/ Discoms
- (ii) Copy of duly signed MRI is to be enclosed.

**Sample Part Commissioning / Full Commissioning
Certificate of Solar PV Power Project**

This is to certify that <M/s> having its registered office at ----- has successfully commissioned Capacity < MW > out of total <MW> installed Capacity on (Date) of their Solar PV Power Generation Project at Village -----, Tehsil/Taluka ----- & Dist. -----

The Commissioning Certificate has been issued on the basis of the following documents enclosed:

- (i) Installation Report including Snap shots of the Project from various angles
- (ii) Electrical Inspector Report
- (iii) Connectivity Report
- (iv) Synchronization Certificate including MRI record

NB: To be issued by as mentioned in clause 3.17.

Annexure – B:

Instructions/guidelines for Issuance Bank Guarantee

1. Bank guarantee to be submitted shall be as per the format attached.
2. Bank guarantee shall be executed on the non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution. The Stamp Paper should be in the name of the Executing Bank and of appropriate value.
3. Bank guarantee shall be submitted along with the banker's covering letter.
4. **Bank guarantee issued should ensure the compliance with the SFMS (Structured Financial Messaging System) requirement, as mandated by RBI.**
5. **Bank guarantee issued without SFMS compliance will not be accepted.**
6. MSEDCL Bank details for Earnest Money Deposit and Performance Bank Guarantee are as follows:

Name	Maharashtra State Electricity Distribution Co. Ltd.
Address	Prakashgad", 5th Floor, Anant kanekar Marg, Bandra (E), Mumbai -400 051
Bank Name	Bank of India
Branch Name and address	Mumbai Large Corporate Branch Bank of India Building, 4 th Floor, 70-80 M.G. Road, Fort Mumbai-400 001
Account No	016020110000033
IFSC Code	BKID0000160
MICR Code	400013127

7. While issuing the bank guarantee, Bank should adhere to the RBI guidelines in respect of same. Each page of Bank guarantee should bear the BG number and signatures of officials.
8. The Bank Guarantee shall be executed from the List of Banks mentioned in this Rfs.
9. **The Complete address of issuing Bank & branch** to be mentioned in the Bank guarantee also the details like email address and contact nos to be provided with bank guarantee.
10. Bidder must adhere to the above instruction/guidelines while submitting the Bank guarantee. Bank guarantee will not be accepted if its found to be in any deviation of above instruction/guidelines.

Check list for Bank Guarantees

Sl. no.	Details of Checks	Yes/No
1.	Is the BG on non-judicial Stamp paper of INR500	
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

(Refer to para 2(b) of notification dated April 13, 2020)

List of Scheduled Commercial Banks

PUBLIC SECTOR BANKS		PRIVATE BANKS	
1	State Bank of India	1	Axis Bank Ltd.
2	Bank of Baroda (Including Vijaya Bank and Dena Bank)	2	Catholic Syrian Bank Ltd.
3	Bank of India	3	City Union Bank Ltd.
4	Bank of Maharashtra	4	Development Credit Bank Ltd.
5	Canara Bank (Including Syndicate Bank)	5	Dhanlaxmi Bank Ltd.
6	Central Bank of India	6	Federal Bank Ltd.
7	Indian Bank (Including Allahabad Bank)	7	HDFC Bank Ltd.
8	Indian Overseas Bank	8	ICICI Bank Ltd.
9	Punjab National Bank (including Oriental Bank of Commerce and United Bank of India)	9	IndusInd Bank Ltd.
10	Punjab & Sind Bank	10	Jammu & Kashmir Bank Ltd.
11	Union Bank of India (including Andhra Bank and Corporation Bank)	11	Karnataka Bank Ltd.
12	UCO Bank	12	Karur Vysya Bank Ltd.
		13	Kotak Mahindra Bank Ltd.
		14	Lakshmi Vilas Bank Ltd.
		15	Nainital Bank Ltd.
		16	Ratnakar Bank Ltd.
		17	South Indian Bank Ltd.
		18	Tamilnad Mercantile Bank Ltd.
		19	Yes Bank Ltd.
		20	Bandhan Bank
		21	IDFC Bank Ltd.
		22	IDBI Bank Ltd

FOREIGN BANKS

1	The Royal Bank of Scotland N.V	23	Mizuho Corporate Bank Ltd.
2	Abu Dhabi Commercial Bank Ltd.	24	Oman International Bank
3	Antwerp Diamond Bank N.V	25	SocieteGenerale
4	Arab Bangladesh Bank Ltd.(AB Bank)	26	Sonali Bank
5	Bank International Indonesia	27	Standard Chartered Bank
6	Bank of America	28	State Bank of Mauritius
7	Bank of Bahrain & Kuwait B.S.C	29	JSC - VTB Bank
8	Bank of Ceylon	30	UBS AG
9	Bank of Nova Scotia	31	American Express Banking Corporation
10	Bank of Tokyo - Mitsubishi Ltd.	32	First Rand Bank Ltd.
11	Barclays Bank	33	Commonwealth Bank of Australia
12	BNP Paribas	34	United Overseas Bank Ltd.
13	China Trust Bank	35	Credit Suisse A.G
14	Shinhan Bank	36	Sberbank
15	Citibank N.A	37	Australia and New Zealand Banking Group Ltd.
16	Credit Agricole Corporate and Investment Bank	38	Rabobank International
17	Deutsche Bank	39	National Australia Bank
18	DBS Bank Ltd.	40	Woori Bank
19	Hongkong and Shanghai Banking Corpn. Ltd.	41	Industrial & Commercial Bank of China
20	J.P.Morgan Chase Bank N.A	42	Sumitomo Mitsui Banking Corporation
21	Krung Thai Bank	43	Westpac Banking Corporation
22	Mashreqbank	44	Doha Bank

Annexure – D: Special instructions to Bidders for e-Tendering

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, **Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL)** has decided to use the portal <https://www.bharat-electronictender.com> through ISN Electronic Tender Services Private Limited (referred as ISN-ETS). 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:

Sealed Bid System

- *Single Stage Two Envelope*

Auction

The sealed bid system would be followed by an ‘e-Reverse Auction’

Broad Outline of Activities from Bidder’s Perspective:

1. Procure a Class-III Digital Signing Certificate (DSC)
2. Register on Electronic Tender System[®] (ETS)
3. Create Marketing Authorities (MAs), Users and assign roles on ETS. It is mandatory to create at least one MA.
4. View Notice Inviting Tender (NIT) on ETS
5. For this tender -- Assign Tender Search Code (TSC) to an 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. Bid-Submission on ETS
8. Participate in e-Reverse Auction on ETS

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-III, issued by a Certifying Authority (CA) licensed by Controller of Certifying Authorities (CCA) [refer <http://www.cca.gov.in>].

Registration

To use the Electronic Tender[®] portal <https://www.bharat-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.

Any Instructions for Online/ Offline Payment of Registration Fee

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

Important Note: 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.

ISN-ETS/ ETS Helpdesk:	
Telephone/ Mobile	<i>Customer Support: +91-124 - 4229071, 4229072</i>
E-mail ID	<i>support@isn-ets.com</i> <i>[Please mark CC: support@electronictender.com]</i>
MSEDCL Contact:	
MSEDCL Contact Person	Mr. Nikhil Meshram, (Superintending Engineer) (RE)
Telephone/ Mobile	Ph: 022-26474211 [between 10:00 hrs to 18:00 hrs on working days]
E-mail ID	ncetendermsedcl@gmail.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/ Envelopes
 - *Technical-Part*
 - *Financial-Part*
- *Submission of information pertaining Bid Security/ Earnest Money Deposit (EMD)*
- *Submission of digitally signed copy of Tender Documents/ Addendum*
- Submission of General Terms and Conditions (with/ without deviations)
- Submission of Special Terms and Conditions (with/ without deviations)

Offline Submissions:

The bidder is requested to submit the following documents offline to the under mentioned address before the start of Public Online Tender Opening Event in a Sealed Envelope.

Chief Engineer (Renewable Energy)
 Maharashtra State Electricity Distribution Co. Ltd.,
 Renewable Energy Section, 5th Floor
 'Prakashgad', Bandra (East), Mumbai - 400 051
 Tel No. 022- 26474211 (Extn. 2208)
 Email – nctendermsedcl@gmail.com

The envelope shall bear (the project name), the tender number and the words 'DO NOT OPEN BEFORE' (due date & time).

1. *Original copy of the Bid Security in the form of a Bank Guarantee as per Tender Documents*
2. *Original copy of the letter of authorization shall be indicated by written power-of-attorney if applicable*
3. *Bid Processing Fee as per the Tender Documents*
4. *INR 15000/ plus applicable GST towards 'ETS Bidding Fee' for use of ETS to be paid as per the way described on the e-Tendering portal. Note: Failure to pay this amount will result in rejection of the bid.*

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 multi-dimensional 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 (eg 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.

Typically, ‘Pass-Phrase’ of the Bid-Part to be opened during a particular Public Online Tender Opening Event (TOE) is furnished online by each bidder during the TOE itself, when demanded by the concerned Tender Opening Officer.

Additionally, the bidder shall make sure that the Pass-Phrase to decrypt the relevant Bid-Part is submitted to MSEDCL Name 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.

Some Bidding related Information for this Tender (e-Reverse Auction)

e-Reverse Auction would be conducted after the opening of the Prequalification/ Financial-Part.

The following would be parameters for e-Reverse Auction:

S#	Parameter	Value
1	Date and Time of Reverse-Auction Bidding Event	Will be informed to eligible bidders later.
2	Duration of Reverse-Auction Bidding Event	30 Minutes
3	Automatic extension of the ‘Reverse-Auction Closing Time’, if last bid received is within a ‘Pre-defined Time-Duration’ before the ‘Reverse-Auction Closing Time’	Yes
3.1	Pre-defined Time-Duration	<i>8 Minutes</i>
3.2	Automatic extension Time-Duration	<i>8 Minutes</i>
3.2	Maximum number of Auto-Extension	<i>Unlimited</i>
4	Criteria of Bid-Acceptance	A bidder can go ‘decreasing’ his own bid without taking into

		cognizance the 'Starting Price' or 'Rank-1' bid
5	Entity – Start-Price	L1 of the respective Item of Financial-Part/ Specified by Buyer organization
6	Minimum Bid-Decrement	INR 0.01

Other Instructions:

For further instructions, the vendor should visit the home-page of the portal <https://www.bharat-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-III, well in advance of your first 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.

5. 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)
6. 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)
7. 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.

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. If applicable for an e-Reverse Auction (such as in case of a Direct e-Reverse Auction which is not preceded by a sealed-bid stage), pay the Bid Processing Fee well in advance of the start of e-Reverse Auction bidding.
5. It is important to digitally-sign your 'Final bid' after the end of e-Reverse Auction bidding event.

Minimum Requirements at Bidder's End

Computer System having configuration with minimum Windows 7 or above, and Broadband connectivity

Microsoft Internet Explorer 7.0 or above

Digital Certificate(s)

**Reference Bidders' Declaration Format associated with Implementation of ALMM
Order**

(on the letter head of the bidder)

Declaration

To Whomsoever this may concern

Reference: (MSEDCL/RE/2023/500 MW Solar/Ph-X/T-19 Dated 14.02.2023)

1. We hereby declare that we are fully aware of the binding provisions of the ALMM order and the Lists thereunder, while quoting the tariff in the RfS no. [*tender number*] floated by MSEDCL.
2. We understand that the List – I (Solar PV Modules) of ALMM Order, Annexure – I of the OM, issued by MNRE on 10th March 2021 will be updated by MNRE from time to time. We also understand that the Modules to be procured for this project, shall be from the List – I of the ALMM order applicable on the date of invoicing of such modules.
3. We further understand and accept that we shall be liable for penal action, including but not limited to blacklisting and invocation of Performance Bank Guarantee, if we are found not complying with the provisions of ALMM Order, including those mentioned above.

Name:

Designation:

Organization:

Date:

(Signature and Stamp)

Annexure-F

Self-Undertaking for identification of 100% land for solar project

(on the letter head of the bidder)

We, M/s _____, having office at ----- _____, registered Company under the Companies Act 1956/2013 having office at _____ solemnly affirm and state as under:

Whereas, We confirm that we have identified 100% land for the Project of the capacity of..... MW, at[Insert name of the place] for purchase of ____MW power as per Power Purchase Agreement executed on _____ between M/s. _____ and Maharashtra State Electricity Distribution Company Limited (MSEDCL).

Name:

Designation:

Organization:

Date:

(Signature and Stamp)

Main Keywords:

- 1) Made in India
- 2) Distributed Cable Drive Actuator
- 3) Self-Powered Controller and Wind Station.
- 4) Wireless communication for controller and wind station
- 5) Uniform Torque Tube section in the row.

A. Documents and Details Required

1. The single-axis tracking tender, bidder confirmation letters and data shall be provided by the bidders as described below. Studies and reports to be covered in the confirmation letters from the manufacturer:

Stow Strategy Control System: The bidders are responsible for the definition of a stow strategy which clearly demonstrates the safe operation of the tracker during maximum wind speed events as defined in local code or standard for wind loads. The following points should be included:

- Tracker inclination and orientation at stow position.
 - Maximum wind speed as per IS 875-III:2015 basic wind speed map of India.
 - If study from authentic reputed source shows that the wind speed at the proposed site location is different than given in local code or standard for wind loading, such wind speed acceptable per client/owner's request such study and its approval to be provided by client/owner in written format as deviation from local code /standard for wind loading.
 - Preference will be given for submission of Coefficients for computing loads are derived from a Boundary layer Wind tunnel study from a Wind tunnel facility of International repute.
 - Static coefficients along with dynamic Amplification factors to be used to design the structure.
 - Aeroelastic instability analysis for the proposed tracker structure to show that the stow angle will not result in aeroelastic instability. This has to be demonstrated by the supplier.
 - Time period required to move the tracker from maximum tilted working position into stow position considering aero elastic instability study output for the tracker structure. This has to be demonstrated by the supplier.
2. Wind tunnel tests from a recognized wind expert institute to be shown / submitted (CPP Wind Engineering, RWDI or an alternative experienced institute subject to approval by the client). Boundary Layer Wind Tunnel tests should be used to be in supplement calculations using appropriate models of the structure. Successful

tracker dynamic analysis and tests based on the actual tracker configuration, stiffnesses and geometry with investigations of vortex shedding and all possible aeroelastic instabilities.

3. Independent Engineers Bankability review report from reputable agencies like Black and Veatch, DNV or alternative experienced agency to be shown / submitted
4. Structure design review document from any IIT civil/structural certifying department.

General Tracker Specification:

1. Single Axis Tracker: Independent Row Tracker.
2. Tracking Angle: minimum-60/+60.
3. DC Self –powered drive system with battery backup.
4. Suitable material for corrosion category compliance as per Corrosion map of India, EN ISO 14713, EN ISO 1461, EN ISO 12944-5 or ASTM 123.
5. Module Configuration: IP configuration.
6. Actuation: Electro-mechanical.
7. Design wind speed as per site condition, basic wind speed as per wind map of India from IS 875-III: 2015.
8. Stow configuration: optimal Angle, as per aero elastic instability analysis.
9. Operational temp: -10 to 55 degree Celsius.
10. Distributed drive with multi location torsion lock for each tracker table to enhance table structural stability. Tracker supplier to submit calculations to substantiate this.
11. Cleaning mode in control system- Compliant with robotic module cleaning.
12. Uniform minimal gaps between modules in a single table.
13. Individual row-level bi-directional control with communication redundancy through mesh networked controllers.

B. Other technical requirement:

Tracker Bushing:

1. It should be type tested for operation cycles which solar plant will go through in its life of 25 years.
2. Preference will be given to maintenance free and/or lubrication free bushings.
3. Bearing must be resistant to dust, water and any other external elements, test report to be submitted.

Control and Monitoring:

1. The tracker controller must have at least one tilt sensor per tracker table for measurement of tracker tilt angle.
2. Each logical tracker block should have at least one wind station for measuring and monitoring the speed of the wind. The wind speed data should be transmitted to the block wirelessly.

3. Tracker controller should have the Micro-controllers for controlling all the outputs of the sensors. Details of Algorithm used to be submitted to client.
4. Battery back up should be provided for controller. Minimum 2 days of backup and self powered, power consumption less than 0.075% of generated power on per MWp basis (calculation to be submitted).