REPLIES TO BIDDERS QUERIES FOR PROCUREMENT OF POWER ON LONG TERM BASIS THROUGH COMPETITIVE BIDDING PROCESS (FOLLOWED BY REVERSE E-AUCTION) FROM 500 MW GRID CONNECTED SOLAR PHOTOVOLTAIC POWER PROJECTS (Phase-VIII) **Date: 19.08.2022**

Sr. No	Rfs/ PPA	Clause No. (RfS/PPA)	Existing Clause	Bidder's Query/Requests	MSEDCL Reply
1	RfS	Bid Information Sheet	Cost of RfS Document: INR 25000/- (Plus applicable GST)	We request to kindly clarify if TDS Dedcution allowed from the payment as per organsiation rules. If its allowed, kindly suggest the Applicable percentage for same as per MSEDCL.	Cost of RfS and processing fees are not covered under any TDS provisions.Hence No TDS to be deducted on said payment.
2	RfS	Bid Information Sheet	Processing Fee: Rs. 3 Lakhs plus 18% GST	We request to kindly clarify if TDS Dedcution allowed from the payment as per organsiation rules. If its allowed, kindly suggest the Applicable percentage for same as per MSEDCL.	Cost of RfS and processing fees are not covered under any TDS provisions.Hence No TDS to be deducted on said payment.
3	RfS	Definitions	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.	We request MSEDCL for considering the timeline of 24 months for SCOD considering below mentioned points: 1) RFS have provisions to setup the projects anywhere in India with CTU connectivity, however as you are aware that the in case of Rajasthan, most of the CTU SS have no margin available for connectivity and more margin for connectivity is envisaged in June 2024 post commissioning of Phase III system. 2) Ongoing issue of GIB in state of Rajasthan and Gujarat. 3) Constraints in transmission infrastructure in state of Maharashtra and further strengthning of same is also expected to take some time. in our earlier projects, we have been facing issue regarding grant of MTOA due to constraints in ISTS Network in WR region. 4) Also, in case of STU connectivity, limited options are available.	The request is not accepted.The RfS conditions shall prevail.
4	RfS Details of Power procurement	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.	It is requested to allow the following philosophy. 1. In case of net import of enrergy on monthly basis, bidder has to pay as per previaling HT Traiff. 2. In case of net export of enrgy on monthly basis, billing shall be as per Tariff discovered under the Competitive Bidding.	The request is not accepted.The RfS conditions shall prevail.
			For Inter-State projects, the successful bidder shall be required to make payment for the startup/auxiliary power shall be as per the respective state regulations from time to time.	We request MSEDCL to kindly consider the Net-off in case of Inter-state as there is no separate connectivity available for ISTS conneted project from STU/ Discom. Request MSEDCL to kindly amend the same.	For ISTS connected projects ,the related CERC egulations will be applicable.
5	RfS	1.3.1	The Projects to be selected for aggregate capacity of 500 MW to be set up in any 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 shall fulfil the criteria as per the Annexure-G.	The selection of Trackers should be technology agnostic, and should not be binding on the Bidders. The criteria for the trackers mentioned in Annexure G is currently being provided by only one supplier as per our understanding. This will lead to discovery of abruptly high tariff. Hence, we request MSEDCL to delete this requirement of Annexure G.	The request is partially accepted.The clause 1.3.1 is revised as under: The Projects to be selected for aggregate capacity of 500 MW to be set up in any 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.

6	RfS Financial Closure	3.13 (i)	Self-Undertaking for identification of 100% land for solar project as per the format attached as Annexure-G.	Since this is required to be submitted during financial closure, enclosed annexure format may be modified sutiably.	The revised format of Self-Undertaking for identification of 100% land for solar project (Annexure-F) is attached herewith.
7	RfS	3.16 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	In case the Project is setup by a listed company, then this condition shall not apply	The request is not accepted.The RfS conditions shall prevail.
8	RfS	3.16(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.	In case the Parent company is a listed company, then this condition shall not apply	The request is partially accepted. The clause is amended and read as under: "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 ."
9	RfS	3.18 (10)(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	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 ***31.03.2022***	The request is accepted. In case the networth of the Bidder is not meeting the required criteria as on 31.03.2021 then the bidders can submit the Networth credentials based on latest available as on 31.03.2022
				Kindly confirm that bidder can use the credentials of FY 2021-22 for meeting the crtieria.	Yes.The bidder can use the credentials for FY 2021-22 for meeting the criteria.
10	RfS	3.19 f	All documents of the response to RfS (including RfS, PPA and all other documents uploaded on https://etender.mahadiscom.in as part of this RfS) submitted online must be digitally signed by the person authorized by the Board as per Format 6.4.	Bid Information Sheet states that -" For conducting the e-bidding, MSEDCL will use htttps://www.bharat-electronictender.com (Etender Portal). Bidders are required to register themselves online with **M/s ISN Electronic Tender Services website htttps://www.bharat-electronictender.com**" Request MSEDCL to please confirm and Inline the requirements according to BIS.	The clause is revised as : 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.
11	RfS	3.21 B (1) iii	The bidder will have to fill the Electronic Form provided at https://etender.mahadiscom.in as part of Technical Bid.		The clause is revised as : The bidder will have to fill the Electronic Form provided at https://www.bharat-electronictender.com as part of Technical Bid.
12	RfS	3.21 B (2)	Only single tariff bid for all the Projects shall have to be filled online in the Electronic Form provided at https://etender.mahadiscom.in. 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.		The Clause is revised as under: 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.

13	RfS	3.3	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.	The requirement of identification of land and tentative locations at the time of Bid submission may be removed due to reasons like procurment of land,connectivity is dependent on various factors beyond control of developer and can not be ascertained at the time of Bid and may be allowed and submitted at the time of financial closure.	The request is not accepted.The RfS conditions shall prevail. The bidder has liberty to change location till the time of Financial closure.
14	RfS		The Bidder shall be allowed to change the location of the project once at the time of achievement of Financial Closure	Bidder need to declare the Substation details and land details in Format 6.1. MSEDCL may please confirm that the change in substation is also allowed till FC.	The request is accepted.In format 6.1 ,the column in table mentioning substation details is deleted.The bidder has to submit Grid connetcivity with substation details at the time of financial closure.
15	RfS Eligibility criteria	3.6(1)(i)	The Net-Worth of the Bidder for the financial year ended on 31.03.2021 ….	As audited accounts of last FY 21-22 are already available, it is requested to permit the use of financials of FY21-22.	The request is accepted. The bidders can use financial credentials based on latest available as on 31.03.2022,if available.
16		3.6(1)(ii)	Bidders shall have to furnish a Certificate from Chartered Accountants, certifying the Net worth per MW of quoted capacity as on 31st March, 2021 or…..		
17		3.6(2)(i)	A minimum annual turnover of INR 35.17 lakhs/MW of the quoted capacity during the previous financial year i.e. FY 2020-21.		
18		3.6(2)(ii)	....(PBDIT) for a minimum amount of INR 7.034 Lakhs/MW of the quoted capacity, as on the last date of previous financial year, 2020-21.		
19		3.6(5)	A Company/ Consortium would be required to submit annual audited accounts for the last financial year, i.e. FY 2020-21.....		
20	RfS	3.7.2	The responsibility of getting the grid connectivity with STU i.e. MSETCL or CTU shall entirely be of the successful bidder. The successful bidder shall submit documentary evidence for securing connectivity with grid in its name/developer from STU/CTU 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 case of projects with CTU connectivity, if the construction/commissioning of CTU-GSS gets delayed, will MSEDCL give suitable extension to commission the solar project? For example, we have already received CTU connectivity of 100 MW at Bikaner-3 GSS from PGCIL. However, the said substation will be ready in Q3/Q4-2024 and if we secure project under the current MSEDCL tender, then the project needs to be commissioned in 18 months from PPA signing i.e. in Q2 of 2024. Hence, we would appreciate if MSEDCL allows us to provide extension. Please confirm.	The request is not accepted. The bidder shall choose the location of projects considering the physical progress of corresponding transmission network in order to avoid the scenario of delay . Securing connectivity with the grid shall be the sole responsibility of Solar power generator
				List of STU/ MSETCL substation alongwith available connectivity may kindly be provided to assist SPD selection of Suitable sites and planning.	The indicative substation list is attached herewith.

21	RfS	3.7.6	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.	The Bidder shall be entitled to deemed generation in case of delay in grant of connectivity on account of reasons not attibutable to SPD Grant of Connectivity is beyond reasonable control of bidder. Hence bidder shall be compensated and further bidder shall not be penalised on account of this delay. Please modify clause accordingly.	The request is not accepted.
				We request to kindly consider to allow bidder to choose the location of project considering the availability of connectivity upto SCOD of project. E.g. In case of Rajasthan, most of CTU SS have no margins and the margin / connectivity is available tentatively from June 2024 onwards as phase III system will be commissioned at that time. In line with that, MSEDCL may please extend the SCOD timeline to 24 months matching the upcoming SS timelines of CTU in Rajasthan.	The request is not accepted. The bidder shall choose the location of projects considering the physical progress of corresponding transmission network in order to avoid the scenario of delay . Securing connectivity with the grid shall be the sole responsibility of Solar power generator.
22	RFS	3.9(i)	Earnest Money Deposit (EMD) of I N R 4 . 7 2 L a k h (INR 4 Lakh / MW plus GST @18%) 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 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.	As EMD is a Bank Guarantee we request MSEDCL to exclude the GST component.	The request is not accepted.The RfS conditions shall prevail.
				We request to keep the EMD as INR 4 Lakh/MW, similar to earlier tenders of MSEDCL.	
				The EMD Rs. 11.00 Lakhs / MW is very high. It should be Rs. 5.00 Lakhs / MW	
23	RfS	3.9 (ii)	The Bidders selected by MSEDCL, based on this RfS shall submit the Performance Bank Guarantee (PBG) of INR 12.98 Lakh/MW (INR 11 Lakh/MW plus GST@18%)	We request to keep the PBG as INR 8 Lakh/MW, similar to earlier tenders of MSEDCL as the increase in PBG and EMD BG values will increase the additional financial obligation on bidder which in turn will increase the tariff.	The request is not accepted.The RfS conditions shall prevail.
24	RfS	3.13	….. 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).	We request to reduce the penalty amount to INR 1000 + GST as the mentioned Penalty amount is on higher side and it will create another significant financial obligation for a bidder if bidder need to take extension.	The request is not accepted.The RfS conditions shall prevail.
25	RfS	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.	We request to kindly consider to procure the power @100% of applicable PPA tariff in case of early part-commissioning as well to encourage the bidders for participation in the bid.	The request is not accepted. The clause is in line with MoP Competitive bidding guidelines.
26	RfS	4.2- B iii)	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.	We request MSEDCL to remove this clause (elimination of H1 bidder)	The request is not accepted.The RfS conditions shall prevail.
27	RfS	4.4.6	Also, MSEDCL shall reserve the right to short close the capacity lower than 500 MW at its discretion if prices are abruptly high.	We request MSEDCL to remove this clause. If not, then short closing the capacity should be subject to the acceptance of bidder	The request is not accepted.The RfS conditions shall prevail.

28	Rfs	Format 6.1	Details in Format 6.1 regarding Project capacity, location and SS details	We request MSEDCL to kindly confirm if: 1) Bidder can change the Offered project at ISTS during bid submission to STU connected project post award of project i.e. PPA signing or after PPA signing. 2) Can Bidder break the offered capacity say 500 MW as offered in covering letter into ISTS connected and STU connected project post award of project.	1) Yes.The bidder can change the location of entire awarded project capacity at ISTS to STU connected project once till Financial closure. 2) The request is not accepted.
29	RfS		Delay in project commissioinng / SCOD due to delay in operationalisation of the CTU SS / evacuation system of ISTS network	We request MSEDCL to kindly incorporate the provisions regarding extension in SCOD of atleast 60 days from the date of opetationalisation of Substation. The Project / plant delay in commissioing is because of the delay in operationalisation of ISTS SS or its associated infrastructure is beyond the reasonable control.	The request is not accepted. The bidder shall choose the location of projects considering the physical progress of corresponding transmission network in order to avoid the scenario of delay . Securing connectivity with the grid shall be the sole responsibility of Solar power generator.
30	RfS	3.16(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.	To secure and expedite the process, bidder may submit the Bid on name of SPV company using the credentials of Parent company. In line with that, we request MSEDCL to kindly confirm that the parent company required to maintain min. 51% at any time prior to 1 (one) year from the COD, except with the prior approval of MSEDCL as per clause 3.16 (ii). We request MSEDCL to kindly accept.	The request is not accepted.The RfS conditions shall prevail.
				We have formed a new company “TSN Energy Pvt. Ltd.” to participate in e tender bidding. The same company has not completed its financial year. So can we use the financials (Balance sheet etc.) of “TS Wind Power Developers” instead of “TSN Energy Pvt. Ltd.”?	The request is not accepted.The RfS conditions shall prevail.
31	PPA Generation compensation due to evacuation issues at the time of SCOD	3.4	Generation compensation due to evacuation issues at the time of SCOD: i) Upon the occurrence of an Emergency in CTU/STU’s / DISCOM evacuation system for safe operation of its Grid, CTU/STU / DISCOM reserves the right to shut down the line and has no obligation to evacuate the power. ii) If plant is ready before Schedule Commercial Operation Date, but the off take is constrained because of incomplete power evacuation infrastructure, no compensation shall be payable. [Applicable only in case of new plant yet to be commissioned]	May please align with TBCB Guidelines as this is not SPD default and hence, they should be compensated. Further the standard following provision may also be added “for any delays in grant of connectivity/LTA by the CTU and/or delay in readiness of the ISTS substation at the Delivery Point, including readiness of the power evacuation and transmission infrastructure of the ISTS network SCD shall be extended by MSEDCL”	The bidder has to adhere to the Rfs provisions.
32	PPA Part Commissioning	4.1.6	For intra - state projects, the part commissioning of the project may be accepted by MSEDCL subject to the condition that minimum capacity for acceptance of first and subsequent part commissioning shall be 50 MW…..	Minimum capacity for part commissionig may be revised to 5 MW.	The request is not accepted.The RfS conditions shall prevail.
33	PPA	4.1.7	In case of part commissioning till SCOD as described in Section 4.1.6 above, MSEDCL will purchase the generation till SCOD at 75% of PPA tariff,	We request MSEDCL to purchase the generation in case of early part commissioning at PPA tariff	The bidder has to adhere to the Rfs provisions.

34	PPA PBG	4.2.2	If the Solar Power Developer fails to achieve Financial Closure as prescribed in Clause 3.13 of the RfS and Article 3.1.(ii) of this PPA, 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 Producer, on advance payment of extension charges of Rs. 10,000/- per day per MW plus GST @ 18%, (if applicable). In case of any delay in depositing this extension charge, the Solar Power Producer has to pay an interest on this extension charge for the days lapsed beyond due date of financial closure @ SBI MCLR (1 Year).	As per TBCB guidelines	The bidder has to adhere to the Rfs provisions.
35	PPA Start-up power/ Auxiliary consumption	5.3	MSEDCL shall supply electricity to the Power Producer at the MSEDCL″s prevailing HT Industrial Tariff rate in force from time to time and Generator shall pay for this electricity at applicable tariff. MSEDCL shall ensure that the power as required by the Power Producer under reasonable notice time shall be available without delay.	It is requested to allow the following philosophy. 1. In case of net import of enrergy on monthly basis, bidder has to pay as per previaling HT Traiff. 2. In case of net export of enrgy on monthly basis, billing shall be as per Tariff discovered under the Competitive Bidding	The request is not accepted. The bidder has to adhere to the Rfs provisions.
36	PPA	5.4.3	Excess Generation - In case the Procurer purchases the excess generation, excess generation over and above 10% of declared annual CUF, the same may be done at 75% of the PPA tariff.	We request MSEDCL to purchase the excess generation over and above 10% of declared annual CUF at PPA Tariff	The request is not accepted.The bidder has to adhere to the Rfs provisions.
37	PPA DC Oversizing	5.5	DC Capacity for Change in Law = AC Contracted Capacity x (Declared CUF/ Minimum CUF stipulated in RFS)	As per the industry practise, there is no limit on the DC capacity for compensation under change in law. However, if at all to be specified, it may be limited to 150%.	The request is not accepted.The bidder has to adhere to the Rfs provisions.
38	PPA	5.6	Generation Compensation in off take constraint due to transmission	We acknowledge that the generation loss shall be compensated by MSEDCL procuring excess generation in the succeeding 3 contract years. But in case of long period of grid unavailability or transmission contraint, the excess generation may not be able to compensate for the total loss of deemed generation during that period. We request you to consider it as deemed generation elligible for regular payments if this condition persist for more than 1 month.	The request is not accepted.The bidder has to adhere to the Rfs provisions.
39	PPA Generation compensation due to Backed down	5.7	It is clarified that Article 5.7 shall not be applicable, if in future, Merit Order Despatch is made applicable to generation from renewable sources; from Solar power project in this case.	It is requested to consider Merit Order Despatch applicability under Change in law and to be dealt accordingly.	The request is not accepted.The bidder has to adhere to the Rfs provisions.
40	PPA Late payment	6.3	In the event of delay in payment of Monthly bill by MSEDCL thirty (30) days beyond its due date, a late Payment charge shall be payable by MSEDCL to the Power Producer at the rate of 1.25% (percent) in excess of the SBI, 1 year Marginal Cost of Funds Based Lending Rate (MCLR) per annum / any replacement thereof by SBI.	As per Electricity (Late Payment Surcharge) Rules, 2021 issued by MoP on 22.02.2021, base rate of Late Payment Surcharge means the marginal cost of funds based lending rate for one year of the State Bank of India, as applicable on the 1st April of the financial year in which the period lies, plus five percent .	The request is not accepted. The clause is in line with MERC (Terms and Conditions for Determination of Renewable Energy Tariff) Regulations, 2019.
				Request MSEDCL to please clarify the Due date Due date of payment may pleae be clarified.	The definition of "Due Date of Payment" is provided as under: “Due Date of Payment” in respect of a Tariff Invoice means the date, which is 30 (thirty) days from the date of receipt of such invoices by the designated official of the MSEDCL."
41	PPA	6.5	Payment Security	Request MSEDCL to clarify Whether the timely payment to developer is guaranted by Government of Maharashtra through a guarantee agreement	No, The state Government Guarantee will not be provided. The RfS and PPA conditions shall prevail.

42	PPA Letter of Credit	6.5(1)(c)(iii)	The MSEDCL shall replenish the Letter of Credit to bring it to the original amount within 30 days in case of any valid drawdown.	As per the industry practice, the Letter of Credit should be replenished immediately in cases of any valid drawdown.	The request is not accepted.The RfS conditions shall prevail.
43	PPA	8	Force Majeure	Request MSEDCL to include "Pandemic" as a force majeure event.	The request is not accepted. The clause is in line with MoP Competitive bidding guidelines.
44	PPA	8.2.2	Non - Natural Force Majeure Event	Request MSEDCL to include Delay in permits, consent, Administrative approvals from Govt authorities as a non-natural force-majeure event	The request is not accepted. The clause is in line with MoP Competitive bidding guidelines.
45	PPA	8.5.1	The Affected Party, to the extent rendered unable to perform its obligations or part of the obligation thereof under the PPA as a consequence of the Force Majeure Event, shall be excused from performance of the obligations, provided that the period shall not exceed 180 (one hundred and eighty) Days from the date of issuance of the FM Notice. The Parties may mutually agree to extend the period for which performance is excused due to a Force Majeure Event.	In addition to extension in SCOD due to Force Majeure, SPD should also be entitled to get compensation if Force Majeure event gets extended beyond 3 months causing loss to the Developer	The request is not accepted. The bidders have to adhere to PPA conditions only.
46	PPA Available Relief for a Force Majeure Event	8.9.3	Provided that no payments shall be made by either Party affected by a Force Majeure Event for the period of such event on account of its inability to perform its obligations due to such Force Majeure Events.	As per the guidelines, Payments during such FM event can be deferred. Therefore, provision may be modified accordingly.	The request is not accepted. The bidders have to adhere to PPA conditions only.
47			Change in law R = annual rate of interest on loan component (in %) as considered by the CERC in its order for Tariff Determination from Conventional or Renewable Energy Sources (Whichever is applicable) for the year in which the Project is commissioned. In absence of relevant orders of CERC for the concerned year, the interest rate shall be average interest rate plus 200 basis points above the average State Bank of India marginal cost of funds based leading rate, of one year tenor, prevalent during the last available six months for such period.	We request MSEDCL to kindly consider the interest rate as average interest rate plus 300 basis points above the average State Bank of India marginal cost of funds based leading rate, of one year tenor, prevalent during the last available six months for such period.	The request is not accepted.The RfS conditions shall prevail.
48	PPA	9.1.1	In this Article 9, the term “Change in Law” shall refer to the occurrence of any of the following events pertaining to this project only after [Insert last date of bid submission] including any enactment or amendment or repeal of any law, leading to corresponding changes in the cost requiring change in tariff, and includes a change in interpretation of any law by a competent court; or a change in any domestic tax, including duty, levy, cess, charge or surcharge by the Government Instrumentality leading to corresponding changes in the cost; or a change in any condition of an approval or license obtained or to be obtained for purchase, supply or transmission of electricity, unless specifically excluded in the agreement for the purchase, supply or transmission of electricity, which results in any change in the cost, but does not include:	We request MSEDCL to include government of all other states in Government Instrumentality	The request is not accepted.The RfS conditions shall prevail.
49	PPA	9.1.1 (B)	change in respect of deviation settlement charges or frequency intervals by an MERC/CERC;	We request MSEDCL to include this under Change in Law	The request is not accepted.The RfS conditions shall prevail.

50	PPA	9.2.2	Subject to Clause 9.2.1, in the event of occurrence of any of events as provided under Article 9.1 which results in any increase/ decrease in the Project Cost (i.e. the cost incurred by the power producer towards supply and services only for the Project concerned, upto the Actual Commissioning Date of the last part capacity or Scheduled Commissioning Date/extended Scheduled Commissioning Date, whichever is earlier), the solar power producer/MSEDCL shall be entitled for compensation by the other party, as the case may be, subject to the condition that the such "Change in Law"is recognized by the MERC. Compensation payment on account of such 'Change in Law' shall be determined and shall be effective from such date as may be decided by the MERC.	Request MSEDCL to consider the entitlement for compensation due to change in law for the operation period post commissioning as well	The request is not accepted.The RfS conditions shall prevail.
51	PPA	General	Generation compensation in off take constarint due to transmission infrastructure not complete / ready beyond delivery point in PPA.	We request MSEDCL to include Generation compensation in off take constraint due to transmission infrastructure not complete / ready beyond delivery point in PPA.	The request is not accepted.The RfS conditions shall prevail.
52	PPA Dispute resolution	11.5	In the event of a dispute as to the amount of any Tariff Invoice, MSEDCL shall notify the Solar Power Producer of the amount in dispute and MSEDCL shall pay the Solar Power Producer 100% of the undisputed amount within the due date provided either party shall have the right to approach the MERC to effect a higher or lesser payment on the disputed amount	90% of Disputed amount may pleaes be considered to be released.	The request is not accepted.The RfS conditions shall prevail.
53	Definition: Appropriate Commission	New	Appropriate commission	Appropriate Commission may please be defined In line with TBCB Guidelines/Electricity Act and accordingly the role of Appropriate Commission may be defined.	The Appropriate Commission in line with MoP TBCB (Tariff Based Competitive Bidding) guidelines is Maharashtra Electricity Regulatory Commission (i.e.MERC).
54	Tariff adoption and Procurement approval	New	Tariff adoption and procurement approval	As per TBCB Guidelines, MSEDCL is required to get the tariff adopted by the Appropriate Commission. Accordingly, such clause may please be incorporated.	The Appropriate Commission in line with TBCB guidelines is Maharashtra Electricity Regulatory Commission (i.e.MERC).
55	Time extension in SCD for offtake constraints due to Transmisison Infrastructure not complete/ ready	New	No clause regarding Time extension in SCD for offtake constraints due to Transmission Infrastructure not complete/ ready. Kindly include the proposed clause.	It is requested to include the clause pertaining to Time extension for the SCD of the project in case of delay in grant/ operationalization of LTA by the STU and/or there is a delay due to transmission infrastructure not complete/ ready (Transmission constraint) beyond Delivery Point as this is beyond control of SPD.	The request is not accepted.The RfS conditions shall prevail.
56	Generation compensation for offtake constraints due to Transmisison Infrastructure not complete/ ready	New	No clause regarding Generation compensation for offtake constraints due to Transmission Infrastructure not complete/ ready.	It is requested to include the clause pertaining to Generation Compensation for offtake constraint due to Transmission Infrastructure not complete/ ready (Transmission constraint) beyond Delivery Point as this is beyond the control of SPD.	The request is not accepted.The RfS conditions shall prevail.
57	General		Issuance of LOA	We request MSEDCL to kindly consider issuance of LOA on name of SPV company, as Bidders face issue in securing the connectivity on name of SPV company or the process gets delayed if the connectivity applied post signing of PPA. In view of that, we request MSEDCL to kindly issue LOA on SPV name which will helpful in expediting the process.	The request is not accepted.The RfS conditions shall prevail.
58	General			The Partnership firm should parcipate in the bid	The request is not accepted.The RfS conditions shall prevail.

STU Substation List

Power evacuation capacity available in MSETCL substations as on 25/06/2022

Note: ***The availability of power evacuation capacity and issuance of grid connectivity will be governed by following conditions:***

a) The capacity mentioned for substations is indicative only and does not guarantee the grid connectivity feasibility at that substation.

b) Grid connectivity feasibility will be confirmed after application by developer for grid connectivity and after technical feasibility & detailed Load Flow Study.

c) The availability of required feeder bays at substation, space available inside switchyard, issues of line corridor, ROW, building control line etc. needs to to be checked separately at the time of joint survey for technical feasibility.

d) The data provided is given as on date which may change in future due to changes in grid structure and change in power flow dynamics at that time.

e) The grid connectivity applications will be processed as per prevailing GOM RE Policy & methodology formulated under policy and Grid Connectivity Procedure under MERC Open Access Regulation-2016.

Sr. No.	Name of Substation	Dist.	Latitude	Longitude	Cluster Capacity (MW)
1	220/132/33kV Kawalewada	Gondia	21.440995	79.887583	80
2	132/33/11kV Gondia	Gondia	21.47807	80.13654	
3	132/33kV Amgaon	Gondia	21.37273	80.39122	
4	132/33/11kV Madgi	Bhandara	21.33576	79.779193	80
5	220/132/33/11kV Bhandara	Bhandara	21.230526	79.6402	100
6	132/33kV Sakoli	Bhandara	21.090255	80.000614	80
7	132/33kV Kardha	Bhandara	21.1388	79.673	
8	132/33kV Gose khurd	Bhandara	20.874845	79.621687	
9	132/33kV Asgaon	Bhandara	20.803388	79.725639	
10	132/33kV Lakhandur	Bhandara	20.763221	79.889557	
11	132/33kV Bramhapuri	Chandrapur	20.62217	79.84809	
12	132/33kV Morgaon Arjuni	Gondia			
13	132 kV Kolari	Nagpur	20.703821	79.559204	80
14	132/33kV Ambhora	Nagpur	21.01503	79.59955	
15	220/132/33/11kV Kanhan	Nagpur	21.224745	79.246233	200
16	220/33kV Umred	Nagpur	20.8319	79.3648	
17	132/33kV Mansar	Nagpur	21.394211	79.281263	60
18	132/33kV Uppalwadi	Nagpur	21.2016	79.122	88
19	132/33kV Mouda	Nagpur	21.16341	79.378387	80
20	220/132/11kV Ambazari	Nagpur	21.142967	78.96809	100
21	220/33kV Wardha	Wardha	20.7277	78.6073	
22	220/33kV Butibori-III	Nagpur	20.9371	78.9341	
23	220kV Khaperkheda -I	Nagpur	21.2822	79.1131	0
24	132/33/11kV Hingna 1	Nagpur	21.121	79.007	80
25	132/33/11kV Hingna 2	Nagpur	21.1132	78.9815	
26	132/33/11kV Mankapur	Nagpur	21.1852	79.0751	
27	132/33/11kV Pardi	Nagpur	21.145	79.169	
28	220/132/33kV Butibori	Nagpur	20.9321	78.947612	0
29	132/33kV Khapri	Nagpur	21.03374	79.070674	80
30	132/33/11kV Besa	Nagpur	21.1087	79.1256	
31	220/132/33/11kV Kalmeshwar	Nagpur	21.233104	78.895171	0
32	132/33kV Saoner	Nagpur	21.405286	78.857783	0
33	132/33/11kV Katol	Nagpur	21.288702	78.593285	0
34	132/33kV Bharsingi	Nagpur	21.348951	78.468821	
35	220/66/33kV Warora	Chandrapur	20.2337	79.0187	0
36	220/33kV Wani	Yavatmal	20.0403	78.9774	0
37	220/33kV Sicom	Chandrapur	19.963	79.3379	0
38	132/33kV Seloo	Wardha	20.83329	78.69891	60
39	132/33kV Deoli	Wardha	20.6644	78.4777	60

Power evacuation capacity available in MSETCL substations as on 25/06/2022

Note: ***The availability of power evacuation capacity and issuance of grid connectivity will be governed by following conditions:***

a) The capacity mentioned for substations is indicative only and does not guarantee the grid connectivity feasibility at that substation.

b) Grid connectivity feasibility will be confirmed after application by developer for grid connectivity and after technical feasibility & detailed Load Flow Study.

c) The availability of required feeder bays at substation, space available inside switchyard, issues of line corridor, ROW, building control line etc. needs to to be checked separately at the time of joint survey for technical feasibility.

d) The data provided is given as on date which may change in future due to changes in grid structure and change in power flow dynamics at that time.

e) The grid connectivity applications will be processed as per prevailing GOM RE Policy & methodology formulated under policy and Grid Connectivity Procedure under MERC Open Access Regulation-2016.

Sr. No.	Name of Substation	Dist.	Latitude	Longitude	Cluster Capacity (MW)
40	220/132/33kV Hinganghat	Wardha	20.5373	78.79822	**100**
41	220/132/33kV Bhugaon	Wardha	20.70637	78.62795	
42	132/33kV Jam	Wardha	20.61325	78.92055	**80**
43	132/66/33kV Ashti	Gadchiroli	19.6654	79.7988	**80**
44	132/33kV Chamorshi	Gadchiroli	19.976	79.875	
45	132/66/33kV Allapalli	Gadchiroli	19.43218	80.05416	
46	132/33kV Mul	Chandrapur	20.0662	79.688	
47	132/33kV Sindewahi	Chandrapur	20.29404	79.65653	
48	220/33kV Tadali	Chandrapur	20.00024	79.1876	**0**
49	220/33kV MIDC Chandrapur	Chandrapur	19.9837	79.2294	**0**
50	220/33kV Ghugus (Matradevi)	Chandrapur	19.9626	79.1225	**0**
51	220/33kV Ballarshah	Chandrapur	19.87560556	79.34166389	**0**
52	220/66/33kV Gadchandur	Chandrapur	19.7375	79.1572	**0**
53	220/132/33kV Virur	Chandrapur	19.64418	79.42224	**200**
54	220/132/33kV Gadchiroli	Gadchiroli	20.16842	79.95785	
55	220/132/33kV Karanja	Wardha	21.11959	78.50156	**0**
56	220/132/11kV Amravati	Amravati	20.9534	77.7739	**100**
57	220/33kV Badnera	Amravati	20.8602	77.7569	
58	220/33kV Dhamangaon	Amravati	20.8081	78.1515	
59	132/33/11kV Chandur bazar	Amravati	21.2387	77.7639	**80**
60	132/33/11kV Achalpur	Amravati	21.2744	77.5166	
61	132/33kV Tiwsa	Amravati	21.0879	78.0695	**0**
62	132/33kV Talegaon	Wardha	21.0986	78.2003	
63	132/33kV Arvi	Wardha	20.9907	78.2264	**80**
64	132/33kV Pulgaon	Wardha	20.71832	78.32365	
65	132/33/11kV Lalkhedi	Amravati	20.9606	77.7322	**80**
66	132/33kV Durgwada	Akola	20.8331	77.388	
67	220/132/33kV Nandgaonpeth	Amravati	21.0941	77.9031	**0**
68	132/33/11kV Morshi	Amravati	21.3272	78.0107	**20**
69	132/33/11kV Warud	Amravati	21.4784	78.2657	
70	220/132/33kV Anjangaon-II (Vihigaon)	Amravati	21.110449	77.315134	**100**
71	132/33kV Daryapur	Amravati	21.1723	77.3212	**80**
72	132/33/11kV Anjangaon	Amravati	20.9352	77.3099	**55**
73	132/33/11kV Akot	Akola	21.0839	77.0576	
74	132/33kV Hiwarkhed	Akola	21.1266	76.8534	
75	220/132/33kV Akola (Apatapa)	Akola	20.7527	77.0248	**100**
76	220kV S.Y. Paras	Akola	20.713	76.7962	**0**
77	132/33/11kV MIDC Akola	Akola	20.687	77.0545	**30**
78	132/33kV Murtijapur	Akola	20.673618	77.358175	
79	220kV Malkapur	Buldhana			**0**

Power evacuation capacity available in MSETCL substations as on 25/06/2022

Note: ***The availability of power evacuation capacity and issuance of grid connectivity will be governed by following conditions:***

a) The capacity mentioned for substations is indicative only and does not guarantee the grid connectivity feasibility at that substation.

b) Grid connectivity feasibility will be confirmed after application by developer for grid connectivity and after technical feasibility & detailed Load Flow Study.

c) The availability of required feeder bays at substation, space available inside switchyard, issues of line corridor, ROW, building control line etc. needs to to be checked separately at the time of joint survey for technical feasibility.

d) The data provided is given as on date which may change in future due to changes in grid structure and change in power flow dynamics at that time.

e) The grid connectivity applications will be processed as per prevailing GOM RE Policy & methodology formulated under policy and Grid Connectivity Procedure under MERC Open Access Regulation-2016.

Sr. No.	Name of Substation	Dist.	Latitude	Longitude	Cluster Capacity (MW)
80	220/132/33kV Balapur	Akola	20.6749	76.8063	**0**
81	132/33/11kV Gaurakshan	Akola	20.6975	77.01	**80**
82	132/33kV Jalgaon Jamod	Buldhana	21.07083	76.512125	**80**
83	132/33kV Warwat Bakal	Buldhana	21.0147	76.715	**80**
84	132/33/11kV Khamgaon	Buldhana	20.7086	76.5854	
85	220/132/33kV Chikhali	Buldhana	20.3519	76.2412	**200**
86	132/33kV Deulgaon Mahi	Buldhana	20.1079	76.1903	**0**
87	132/33kV Dusrabid	Buldhana	20.0057	76.3014	
88	132/33kV Deulgaon Raja	Buldhana	20.017196	76.066867	
89	132kV Mantha	Jalna	19.6654	76.3910	
90	132/33kV Buldhana	Buldhana	20.5067	76.2012	**80**
91	132/33kV Motala	Buldhana	20.4165	75.9736	
92	132/33kV Dhad	Buldhana	20.6853	76.2252	**80**
93	220/132kV Malegaon -II (Zodga)	Washim	20.189471	77.043161	**0**
94	132/33kV Washim	Washim	20.1115	77.162	**0**
95	132/33kV Manglurpir	Washim	20.295	77.3219	
96	132/33kV Karanja lad	Washim	20.4657	77.5233	
97	132/33kV Malegaon tn.	Washim	20.2347	76.9833	**160**
98	132/33kV Mehkar	Buldhana	20.1539	76.5762	**80**
99	132/33kV Risod	Washim	19.9795	76.7711	**0**
100	132kV Jintur	Parbhani	19.6130	76.6800	
101	132/33kV Patur	Akola	20.4791	76.9009	**75**
102	220/132/33kV Yavatmal	Yavatmal	20.3852	78.1535	**100**
103	132/33kV Pandharkawda	Yavatmal	20.0228	78.5383	**80**
104	132/33kV Ghatanji	Yavatmal	20.1515	78.3223	
105	132/33kV Ralegaon	Yavatmal			**80**
106	132/33kV MIDC Yavatmal	Yavatmal	20.378011	78.06859	**80**
107	220/132/33kV Ghatodi	Yavatmal	19.9784	77.5912	**0**
108	132/33kV Darwha	Yavatmal	20.3042	77.7778	**0**
109	132/33kV Digras	Yavatmal	20.1176	77.6821	
110	132/33kV Arni	Yavatmal	20.138149	77.95359	
111	132/33kV Jambazar	Yavatmal	19.9545	77.5001	**150**
112	220/132/33kV Pusad	Yavatmal	19.8962	77.5515	**100**
113	132/33kV Gunj	Yavatmal	19.8544	77.7268	**0**
114	132kV Umarkhed	Yavatmal	19.586	77.687	
115	220kV Bhokar	Nanded	19.1994	77.6623	**0**
116	132kV Kinwat	Nanded	19.6065	78.2063	**50**
117	132kV Himayatnagar	Nanded	19.4239	77.8894	
118	220 kV Waghala	Nanded	19.0969	77.3214	**250**
119	220kV Krishnoor	Nanded	18.9272	77.5019	**0**

Power evacuation capacity available in MSETCL substations as on 25/06/2022

Note: ***The availability of power evacuation capacity and issuance of grid connectivity will be governed by following conditions:***

a) The capacity mentioned for substations is indicative only and does not guarantee the grid connectivity feasibility at that substation.

b) Grid connectivity feasibility will be confirmed after application by developer for grid connectivity and after technical feasibility & detailed Load Flow Study.

c) The availability of required feeder bays at substation, space available inside switchyard, issues of line corridor, ROW, building control line etc. needs to to be checked separately at the time of joint survey for technical feasibility.

d) The data provided is given as on date which may change in future due to changes in grid structure and change in power flow dynamics at that time.

e) The grid connectivity applications will be processed as per prevailing GOM RE Policy & methodology formulated under policy and Grid Connectivity Procedure under MERC Open Access Regulation-2016.

Sr. No.	Name of Substation	Dist.	Latitude	Longitude	Cluster Capacity (MW)
120	132kV Tamsa	Nanded	19.3789	77.6050	**50**
121	132kV Umri	Nanded	19.0479	77.6537	**80**
122	132kV Kundalwadi	Nanded	18.8184	77.7769	
123	132kV Mukhed	Nanded	18.7215	77.3910	
124	132kV Kandhar	Nanded	18.8758	77.1781	
125	132kV Degloor	Nanded	18.6075	77.5702	**0**
126	132kV Narsi	Nanded	18.7588	77.5654	
127	132kV Jangamwadi	Nanded	19.1810	77.3013	**80**
128	132kV Ardhapur	Nanded	19.2775	77.3742	**80**
129	132kV Elichpur	Nanded	19.1371	77.3556	**80**
130	220 kV Hingoli	Hingoli	19.6924	77.1032	**250**
131	132kV Hingoli	Hingoli	19.7334	77.1530	**80**
132	132kV Kurunda	Hingoli	19.4080	77.2161	**80**
133	132kV Akhadabalapur	Hingoli	19.5787	77.4010	
134	132kV Basmath	Hingoli	19.3228	77.1413	**25**
135	132kV Purna	Parbhani	19.1754	77.0430	
136	132kV Sengaon	Hingoli	19.8350	76.8764	**80**
137	220 kV Parbhani	Parbhani	19.2674	76.8069	**250**
138	132kV Parbhani	Parbhani	19.2797	76.7605	**80**
139	132kV Pathri	Parbhani	19.2784	76.4325	**0**
140	132kV Gangakhed	Parbhani	18.9494	76.7362	**80**
141	132kV Sonpeth	Parbhani	18.9697	76.4935	**0**
142	220 kV Harangul	Latur	18.3875	76.5004	**150**
143	132kV Latur (Koyna)	Latur	18.3921	76.5901	**120**
144	132kV Latur MIDC	Latur	18.4217	76.5401	
145	132kV Ahmedpur	Latur	18.7027	76.9238	
146	132kV Renapur	Latur	18.5006	76.5820	
147	132kV Chakur	Latur	18.5233	76.8801	**50**
148	132kV Udgir	Latur	18.3616	77.1311	
149	220 kV Narangwadi	Osmanabad	17.0863	76.5847	**0**
150	132kV Killari	Latur	18.0570	76.5869	**0**
151	132kV Nilanga	Latur	18.1224	76.7672	**0**
152	132kV Omerga	Osmanabad	17.8353	76.6402	**0**
153	132kV Ausa	Latur	18.2575	76.5140	**0**
154	132kV Ujani	Latur	18.1172	76.3090	
155	132kV Niwali	Latur	18.3755	76.3101	
156	220 kV Jalkot	Latur	18.5907	77.2089	**0**
157	132kV Majalgaon	Beed	19.1691	76.1961	**0**
158	132kV Pangari	Beed	18.8765	76.4694	
159	132kV Telgaon	Beed	18.9887	76.1789	

Power evacuation capacity available in MSETCL substations as on 25/06/2022

Note: ***The availability of power evacuation capacity and issuance of grid connectivity will be governed by following conditions:***

a) The capacity mentioned for substations is indicative only and does not guarantee the grid connectivity feasibility at that substation.

b) Grid connectivity feasibility will be confirmed after application by developer for grid connectivity and after technical feasibility & detailed Load Flow Study.

c) The availability of required feeder bays at substation, space available inside switchyard, issues of line corridor, ROW, building control line etc. needs to to be checked separately at the time of joint survey for technical feasibility.

d) The data provided is given as on date which may change in future due to changes in grid structure and change in power flow dynamics at that time.

e) The grid connectivity applications will be processed as per prevailing GOM RE Policy & methodology formulated under policy and Grid Connectivity Procedure under MERC Open Access Regulation-2016.

Sr. No.	Name of Substation	Dist.	Latitude	Longitude	Cluster Capacity (MW)
160	132kV Parli	Beed	18.8713	76.5264	**0**
161	220 kV Georai	Beed			**250**
162	132kV Beed	Beed	18.9913	75.7742	**0**
163	132kV Georai	Beed	19.2585	75.7577	
164	132kV Mahakala	Jalna	19.3986	75.7051	
165	132kV Raimoha	Beed	18.9942	75.5188	**0**
166	220kV Girwali	Beed	18.7489	76.4561	**0**
167	220kV OLD GCR Parli	Beed	18.8708	76.5239	
168	220kV New GCR Parli	Beed	18.9070	76.5400	
169	220kV Parli Unit No. 8	Beed	18.9132	76.5511	
170	220 kV Manjarsumba	Beed	18.8256	75.7473	**0**
171	220 kV Patoda	Beed	18.8070	75.4978	
172	220kV Beed	Beed	18.9913	75.7742	
173	132kV Kaij	Beed	18.7169	76.0776	**0**
174	132kV Kallamb	Osmanabad	18.5681	76.0138	
175	132kV Bhoom	Osmanabad	18.4637	75.6692	
176	132/33kV Kharda	Ahmednagar	18.64830	75.47270	
177	220 kV Osmanabad	Osmanabad	18.1870	76.0536	**0**
178	220 kV Barshi	Solapur	18.2502	75.7014	
179	220 kV Paranda	Osmanabad	18.2870	75.4549	
180	220 kV Tuljapur	Osmanabad	17.9540	76.0270	**0**
181	220 kV Murud	Latur	18.4012	76.2279	
182	132kV Naldurg	Osmanabad	17.8189	76.2621	**0**
183	132kV Akkalkot	Solapur	17.5282	76.199	
184	132kV Waghdari	Solapur			
185	220 kV Partur	Jalna	19.6094	76.2437	**0**
186	132kV Partur	Jalna	19.5952	76.2127	**0**
187	220 kV Nagewadi	Jalna	19.8792	75.8336	**250**
188	220kV Jalna	Jalna	19.8584	75.8442	**250**
189	132kV Jalna (MIDC)	Jalna	19.8515	75.8609	**80**
190	132kV Jalna (Old)	Jalna	19.8674	75.9046	
191	132kV Jafrabad	Jalna	20.2054	76.0088	
192	132kV Ambad	Jalna	19.6164	75.7985	**0**
193	132kV Ghansawangi	Jalna	19.5163	75.9895	
194	132kV Badnapur	Jalna	19.8653	75.7473	**0**
195	132kV Rajur	Jalna	20.0474	75.8596	**0**
196	220 kV Phulambri	Aurangabad	20.1181	75.4704	**250**
197	220 kV Bhokardhan	Jalna	20.2462	75.7800	**250**
198	132kV Sillod	Aurangabad	20.3155	75.6553	**80**
199	132kV Soygaon	Aurangabad	20.5970	75.6056	**0**

Power evacuation capacity available in MSETCL substations as on 25/06/2022

Note: ***The availability of power evacuation capacity and issuance of grid connectivity will be governed by following conditions:***

a) The capacity mentioned for substations is indicative only and does not guarantee the grid connectivity feasibility at that substation.

b) Grid connectivity feasibility will be confirmed after application by developer for grid connectivity and after technical feasibility & detailed Load Flow Study.

c) The availability of required feeder bays at substation, space available inside switchyard, issues of line corridor, ROW, building control line etc. needs to to be checked separately at the time of joint survey for technical feasibility.

d) The data provided is given as on date which may change in future due to changes in grid structure and change in power flow dynamics at that time.

e) The grid connectivity applications will be processed as per prevailing GOM RE Policy & methodology formulated under policy and Grid Connectivity Procedure under MERC Open Access Regulation-2016.

Sr. No.	Name of Substation	Dist.	Latitude	Longitude	Cluster Capacity (MW)
200	220 kV Deogaon Rangari	Aurangabad	20.0527	75.0801	**250**
201	220 kV Sawangi	Aurangabad	19.9522	75.3401	**250**
202	132kV Pishor	Aurangabad	20.3019	75.3542	**0**
203	132kV Kagzipura	Aurangabad	19.9783	75.2143	**80**
204	132kV Kannad	Aurangabad	20.2500	75.1303	**0**
205	220 kV Padegaon	Aurangabad	19.8910	75.2879	**250**
206	132kV Harsool	Aurangabad	19.9125	75.3495	**80**
207	132kV Chikalthana	Aurangabad	19.8841	75.3719	
208	132kV Paithan	Aurangabad	19.5349	75.3807	**80**
209	132kV Waluj MIDC	Aurangabad	19.8383	75.2421	**80**
210	132kV Gangapur	Aurangabad	19.7131	75.0080	**80**
211	132kV Vaijapur	Aurangabad	19.9223	74.7121	**80**
212	220 kV Shendra	Aurangabad	19.8679	75.4766	**200**
213	220 kV Chitegaon	Aurangabad	19.7258	75.2825	**250**
214	132kV Satara (Deolai)	Aurangabad	19.8254	75.3294	**80**
215	220kV Kekatnimbhora	Jalgaon			**0**
216	132kV Deepnagar	Jalgaon	21.04825	75.84450	**0**
217	132kV Savda	Jalgaon	21.13803	75.89317	**100**
218	132kV Nimbhora	Jalgaon	21.17342	75.96717	**80**
219	132kV Raver	Jalgaon	21.24203	76.02081	
220	132kV Muktainagar	Jalgaon	21.04561	76.04981	**0**
221	132kV Bodwad	Jalgaon	20.88411	75.98894	
222	132kV Varangaon	Jalgaon	21.03467	75.91911	
223	132/33/11kV Malkapur	Buldhana	20.9135	76.2084	
224	132kV Yawal	Jalgaon	21.17739	75.70525	**80**
225	132kV Chopda	Jalgaon	21.24556	75.30817	
226	132kV Jalgaon (O)	Jalgaon	20.99856	75.58344	**80**
227	132kV New MIDC Jalgaon	Jalgaon	20.99964	75.59531	
228	132kV Pachora	Jalgaon	20.67975	75.34483	**0**
229	132kV Pahur	Jalgaon	20.69869	75.66919	
230	132kV Khedi	Jalgaon	21.01385	75.78621	
231	132/33 kV Kothali	Jalgaon			
232	220kV Bambhori	Jalgaon	21.02961	75.44189	**200**
233	132kV Dharangaon	Jalgaon	21.01919	75.25772	**80**
234	132kV Amalner	Jalgaon	21.02744	75.03636	**0**
235	132kV Parola	Jalgaon	20.88958	75.11164	
236	132kV Erandol	Jalgaon	20.91124	75.29580	
237	132kV Dhule	Dhule	20.86500	74.77100	**80**
238	132kV Nardana	Dhule	21.18030	74.82400	**80**
239	132kV Shirpur	Dhule	21.35070	74.94650	

Power evacuation capacity available in MSETCL substations as on 25/06/2022

Note: ***The availability of power evacuation capacity and issuance of grid connectivity will be governed by following conditions:***

a) The capacity mentioned for substations is indicative only and does not guarantee the grid connectivity feasibility at that substation.

b) Grid connectivity feasibility will be confirmed after application by developer for grid connectivity and after technical feasibility & detailed Load Flow Study.

c) The availability of required feeder bays at substation, space available inside switchyard, issues of line corridor, ROW, building control line etc. needs to to be checked separately at the time of joint survey for technical feasibility.

d) The data provided is given as on date which may change in future due to changes in grid structure and change in power flow dynamics at that time.

e) The grid connectivity applications will be processed as per prevailing GOM RE Policy & methodology formulated under policy and Grid Connectivity Procedure under MERC Open Access Regulation-2016.

Sr. No.	Name of Substation	Dist.	Latitude	Longitude	Cluster Capacity (MW)
240	220kV Gangapur	Nandurbar			0
241	220kV Jamde	Dhule	21.20680	74.34980	
242	220kV Valve	Dhule	21.20400	74.23110	
243	220kV Shivajinagar	Dhule	21.07050	74.38180	
244	132kV Sakri	Dhule	20.99540	74.32760	
245	220kV Dondaicha	Dhule	21.3302	74.5441	0
246	220kV Amalner	Jalgaon	21.03758	75.08908	
247	220kV Dhule	Dhule	20.9333	74.8167	
248	220kV Viroda	Jalgaon			100
249	220kV Bhadli	Jalgaon			100
250	132kV Nandurbar	Nandurbar	21.39980	74.26440	30
251	132kV Visarwadi	Nandurbar	21.18360	73.95010	
252	132kV Dondaicha	Dhule	21.33170	74.54840	0
253	220/132kV Shahada.	Nandurbar	21.536	74.4601	0
254	132kV Taloda	Nandurbar	21.58550	74.21430	50
255	132kV Samsherpur	Nandurbar			
256	220kV Satana	Nashik	20.57760	74.20170	0
257	132/33kV Taharabad	Nashik	20.79640	74.11910	0
258	132/33kV Dindori	Nashik	20.20780	73.82100	50
259	132kV Kalwan	Nashik	20.48930	74.02870	
260	132kV Lasalgaon	Nashik	20.15257	74.21904	80
261	132kV Chandwad	Nashik	20.27060	74.26320	
262	132kV Ozar	Nashik	20.10750	73.94190	60
263	132kV Ranwad	Nashik	20.15890	74.09720	
264	132kV Ramache Pimplas	Nashik	20.08970	74.02410	160
265	132KV Adgaon	Nashik	20.03200	73.87530	
266	132kV Takali	Nashik	19.99850	73.80560	
267	132KV Mhasrul tn	Nashik	20.05330	73.78950	
268	132kV Satpur MIDC	Nashik	20.00080	73.71820	
269	132kv Satpur	Nashik	19.98950	73.74310	
270	132kV Ambad	Nashik	19.95890	73.74080	
271	132KV Igatpuri	Nashik	19.69540	73.60100	0
272	132kV Pachpatta	Nashik	19.71100	73.80970	
273	132KV MIDC Sinnar	Nashik	19.87140	73.97420	0
274	132KV Khaprale	Nashik	19.82240	73.93320	
275	132KV Sinnar	Nashik	19.84690	73.98720	
276	132/33/11kV Sangamner	Ahmednagar	19.58840	74.19990	0
277	132/33kV Akole	Ahmednagar	19.51930	74.00870	
278	132kV Rajur	Ahmednagar	19.51205	73.91129	
279	132/33/11kV MIDC Nagar	Ahmednagar	19.15114	74.69883	60
280	132/33/11kV Rahuri	Ahmednagar	19.37510	74.64810	

Power evacuation capacity available in MSETCL substations as on 25/06/2022

Note: ***The availability of power evacuation capacity and issuance of grid connectivity will be governed by following conditions:***

a) The capacity mentioned for substations is indicative only and does not guarantee the grid connectivity feasibility at that substation.

b) Grid connectivity feasibility will be confirmed after application by developer for grid connectivity and after technical feasibility & detailed Load Flow Study.

c) The availability of required feeder bays at substation, space available inside switchyard, issues of line corridor, ROW, building control line etc. needs to to be checked separately at the time of joint survey for technical feasibility.

d) The data provided is given as on date which may change in future due to changes in grid structure and change in power flow dynamics at that time.

e) The grid connectivity applications will be processed as per prevailing GOM RE Policy & methodology formulated under policy and Grid Connectivity Procedure under MERC Open Access Regulation-2016.

Sr. No.	Name of Substation	Dist.	Latitude	Longitude	Cluster Capacity (MW)
281	132/33/11kV Newasa	Ahmednagar	19.56140	74.92380	**60**
282	220/132/33kV Bhenda	Ahmednagar	19.46990	75.01580	**200**
283	132/33/11kV Pathardi	Ahmednagar	19.17893	75.17246	**0**
284	132/33kV Shevgaon	Ahmednagar	19.36770	75.20260	
285	132kV Ghodegaon	Ahmednagar	19.31710	74.85930	
286	220/132 /33kV Sonewadi	Ahmednagar	19.04940	74.70120	**250**
287	220132kV Belwandi	Ahmednagar	18.68460	74.62640	
288	132kV Ashti	Beed	18.8064	75.1653	**0**
289	132/33kV Khandake	Ahmednagar	19.08910	74.87750	**0**
290	132/33/11kV Kedgaon	Ahmednagar	19.06810	74.71460	**0**
291	132/33kV Supa	Ahmednagar	18.95220	74.53870	
292	132kV Wadzire	Ahmednagar			
293	132kV Shirur	Pune	18.8269	74.3681	
294	132kV Kuruli	Pune	18.6012	74.4292	
295	220/132 /33kV Kopargaon	Ahmednagar	19.89840	74.48490	**100**
296	220/132kV Manmad	Nashik	20.26972	74.45597	**50**
297	132KV Yeola	Nashik	20.05230	74.47800	**80**
298	220kV Chalisgaon	Jalgaon	20.446	74.9817	**100**
299	132kV Chalisgaon	Jalgaon	20.45110	74.98510	**0**
300	132kV Pimperkhed	Nashik	20.30630	74.75490	**0**
301	220kV Malegaon	Nashik	20.5524	74.4849	**0**
302	220KV Kalwan Bhendi	Nashik	20.50461	74.07676	
303	132kV Malegaon	Nashik	20.56040	74.50210	**0**
304	132kV Nampur	Nashik	20.72360	74.31100	**0**
305	220kV Sayne	Nashik	20.56105	74.59520	**0**
306	132/33kV Karjat	Ahmednagar	18.56720	74.99957	**0**
307	132/33kV Rashin	Ahmednagar	18.46430	74.80070	
308	132kV Karmala	Solapur	18.440664	75.189506	
309	132/33/11kV Shrigonda	Ahmednagar	18.60780	74.69240	**0**
310	132kV Alegaon	Pune	18.4248771	74.6342881	
311	132kV Daund	Pune	18.461039	74.569338	
312	220kV Alephata	Pune	19.1804	74.1104	**250**
313	220kV Kathapur	Pune	18.9728	74.1026	
314	132kV Narayangaon	Pune	19.1073	73.9713	**60**
315	132kV Chakan	Pune	18.7719	73.8419	
316	132kV Pimpalgaon	Pune	19.1881	73.7086	**60**
317	132kV Kavthe Yamai	Pune			
318	220kV Chakan II	Pune	18.792492	73.758107	**200**

Power evacuation capacity available in MSETCL substations as on 25/06/2022

Note: ***The availability of power evacuation capacity and issuance of grid connectivity will be governed by following conditions:***

a) The capacity mentioned for substations is indicative only and does not guarantee the grid connectivity feasibility at that substation.

b) Grid connectivity feasibility will be confirmed after application by developer for grid connectivity and after technical feasibility & detailed Load Flow Study.

c) The availability of required feeder bays at substation, space available inside switchyard, issues of line corridor, ROW, building control line etc. needs to to be checked separately at the time of joint survey for technical feasibility.

d) The data provided is given as on date which may change in future due to changes in grid structure and change in power flow dynamics at that time.

e) The grid connectivity applications will be processed as per prevailing GOM RE Policy & methodology formulated under policy and Grid Connectivity Procedure under MERC Open Access Regulation-2016.

Sr. No.	Name of Substation	Dist.	Latitude	Longitude	Cluster Capacity (MW)
319	220kV Bhosari I	Pune	18.632	73.832	200
320	220kV Bhosari II	Pune	18.628212	73.839329	
321	220kV Telco	Pune	18.6568	73.8125	
322	220kV Khadki	Pune	18.5772	73.854	
323	220kV VSNL	Pune	18.59855	73.869026	
324	220kV Chinchwad	Pune	18.638	73.774	
325	220kV Chinchwad II	Pune			
326	132kV Markal	Pune	18.669	73.9166	80
327	132kV Rahatni	Pune	18.5969	73.7813	80
328	132kV NCL	Pune	18.5501	73.8055	
329	132kV Kothrud	Pune	18.4965	73.8175	
330	132kV Ganeshkhind	Pune	18.5393	73.8306	
331	132kV Varasgaon	Pune	18.3875	73.6139	
332	100kV Talegaon	Pune	18.7283	73.6716	0
333	100kV lonawala	Pune	18.7603	73.4339	
334	100kV Andra lake	Pune	18.514677	73.342051	
335	100kV Pawna	Pune	18.6819	73.4951	
336	220kV Hinjewadi I	Pune	18.5859	73.7371	100
337	220kV Hinjewadi II	Pune	18.5879	73.7062	
338	220kV Pirangut	Pune	18.523900	73.669100	
339	220kV Urse	Pune	18.7201	73.6411	0
340	220kV Talegaon Ambi	Pune	18.7789	73.6877	
341	220kV Sahara	Pune			
342	220kV Nanded City	Pune	18.464149	73.798878	100
343	220kV Kondhwa GIS	Pune	18.42634	73.897775	
344	220kV Parvati	Pune	18.4909	73.8357	80
345	132kV Rastapeth GIS	Pune	18.5194	73.8701	
346	220kV Jejuri	Pune	18.264169	74.172415	100
347	220kV Phursungi	Pune	18.4754	73.9555	
348	132kV Mundhwa	Pune	18.522	73.9169	80
349	132kV Phursungi	Pune	18.4788	73.9568	
350	132kV Kamthadi	Pune	18.2573	73.9022	60
351	132kV Shirwal	Satara	18.1253	73.9863	
352	220kV Theur	Pune	18.517	74.0468	100
353	220kV Magarpatta	Pune	18.5229	73.9373	
354	132kV Kharadi	Pune	18.5679	73.9336	80
355	132kV Yawat	Pune	18.472407	74.283725	40
356	132kV Janai	Pune	18.3926612	74.4098385	
357	132kV Purandar	Pune			80
358	220kV Rajangaon	Pune	18.7881852	74.2867	100
359	132kV Sanaswadi	Pune	18.643	74.0982	80

Power evacuation capacity available in MSETCL substations as on 25/06/2022

Note: ***The availability of power evacuation capacity and issuance of grid connectivity will be governed by following conditions:***

a) The capacity mentioned for substations is indicative only and does not guarantee the grid connectivity feasibility at that substation.

b) Grid connectivity feasibility will be confirmed after application by developer for grid connectivity and after technical feasibility & detailed Load Flow Study.

c) The availability of required feeder bays at substation, space available inside switchyard, issues of line corridor, ROW, building control line etc. needs to to be checked separately at the time of joint survey for technical feasibility.

d) The data provided is given as on date which may change in future due to changes in grid structure and change in power flow dynamics at that time.

e) The grid connectivity applications will be processed as per prevailing GOM RE Policy & methodology formulated under policy and Grid Connectivity Procedure under MERC Open Access Regulation-2016.

Sr. No.	Name of Substation	Dist.	Latitude	Longitude	Cluster Capacity (MW)
360	220kV Walchandnagar	Pune	18.0341	74.7893	**150**
361	132kV Walchandnagar	Pune	18.077388	74.774557	
362	132kV Indapur	Pune	18.1221847	75.0247654	
363	132kV Purandwade	Solapur	17.8684	74.8569	**40**
364	132kV Bawda	Pune	17.9724598	75.0015985	
365	220kV Baramati	Pune	18.180825	74.602486	**200**
366	132kV Baramati	Pune	18.1672	74.5939	
367	220kV Kurkambh	Pune	18.410314	74.501476	**100**
368	220kV Shirsuphal	Pune	18.319986	74.568876	
369	220kV Bhigwan	Pune	18.305026	74.758416	**150**
370	220kV Loni Deokar	Pune	18.105459	74.544915	
371	220kV Jeur	Solapur	18.263	75.1516	**100**
372	220kV Tembhurni	Solapur	18.034492	75.223837	
373	220kV Malinagar	Solapur	17.8987	75.0512	
374	132kV Parewadi	Solapur	18.3024	74.9629	**80**
375	132kV Kurdwadi	Solapur	18.0988	75.4321	**40**
376	132kV Shankarnagar	Solapur	17.8623	75.0092	**40**
377	132kV Velapur	Solapur	17.7971	75.0499	
378	220kV Pandharpur	Solapur	17.654838	75.325034	**0**
379	220kV Karkambh	Solapur	17.8616	75.3134	
380	220kV Bhalwani	Solapur	17.708791	75.1241	
381	132kV Mangalwedha	Solapur	17.520443	75.442006	**0**
382	132kV Nimboni	Solapur			**0**
383	132kV Sangola	Solapur	17.446432	75.191036	**0**
384	132kV Manegaon	Solapur	17.332089	75.081111	
385	110kV Pandharpur	Solapur	17.6568	75.3267	**0**
386	220kV Bale	Solapur	17.7055	75.8796	**0**
387	220kV Vairag	Solapur			**0**
388	132kV Mohol	Solapur	17.7998	75.6384	**0**
389	132kV Chincholikate	Solapur	17.741	75.8105	
390	132kV Puluj	Solapur	17.7063	75.5336	
391	132kV Degaon	Solapur	17.6655	75.871	**0**
392	132kV Mandrup	Solapur	17.497935	75.827207	
393	132kV Navives	Solapur	17.6763	75.8916	
394	132kV Soregaon	Solapur	17.586815	75.883411	
395	132kV Karajgi	Solapur	17.44937	76.048484	
396	132kV Solapur MIDC	Solapur	17.6549	75.9361	**60**
397	220kV Phaltan MIDC	Satara	18.0134	74.3329	**0**
398	220kV Lonand	Satara	18.0450	74.1960	**0**
399	132kV Someshwar	Pune	18.105297	74.2793524	**0**
400	132KV Phaltan	Satara	17.9755	74.4544	

Power evacuation capacity available in MSETCL substations as on 25/06/2022

Note: ***The availability of power evacuation capacity and issuance of grid connectivity will be governed by following conditions:***

a) The capacity mentioned for substations is indicative only and does not guarantee the grid connectivity feasibility at that substation.

b) Grid connectivity feasibility will be confirmed after application by developer for grid connectivity and after technical feasibility & detailed Load Flow Study.

c) The availability of required feeder bays at substation, space available inside switchyard, issues of line corridor, ROW, building control line etc. needs to to be checked separately at the time of joint survey for technical feasibility.

d) The data provided is given as on date which may change in future due to changes in grid structure and change in power flow dynamics at that time.

e) The grid connectivity applications will be processed as per prevailing GOM RE Policy & methodology formulated under policy and Grid Connectivity Procedure under MERC Open Access Regulation-2016.

Sr. No.	Name of Substation	Dist.	Latitude	Longitude	Cluster Capacity (MW)
401	132kV Dahiwadi	Satara	17.7011	74.5403	**0**
402	132kV Aundh	Satara	17.5442	74.3422	
403	132kV Satara road	Satara	17.7640	74.1030	**0**
404	132kV Chimangaon Gota	Satara			
405	132kV Wai	Satara	17.9425	73.8917	**0**
406	220kV Ogalewadi	Satara	17.3170	74.2080	**0**
407	110kV Mayani	Satara	17.4508	74.5443	**0**
408	110/33kV Dighanchi	Sangli	17.5210	74.9288	
409	110kV Kaledhone	Sangli			
410	110kV Atit	Satara	17.5308	74.0667	**30**
411	110kV Rethare	Satara	17.1707	74.2543	**0**
412	110kV Tembhu	Satara	17.2794	74.2394	
413	110kV Ashta	Sangli	16.9594	74.4025	
414	110kV Borgaon	Sangli	17.0754	74.3202	
415	110kV Vishrambag	Sangli	16.8431	74.5971	
416	110kV Kale (T)	Satara	17.2078	74.1609	**0**
417	110kV Warna	Sangli			
418	220kV Kadegaon	Sangli	17.2293	74.3634	**100**
419	220kV Wathar	Kolhapur	16.8499	74.2869	**200**
420	110kV Shiroli	Kolhapur	16.7606	74.2733	**0**
421	110kV Chambukhadi	Kolhapur	16.6993	74.1866	
422	220kV Mudshingi (KOP - II)	Kolhapur	16.6785	74.2983	**200**
423	110kV Bapat Camp (Kolhapur - I)	Kolhapur	16.7141	74.2705	**20**
424	110kV Puikhadi	Kolhapur	16.6591	74.1980	
425	110kV Kale	Kolhapur	16.7107	74.0415	
426	110kV Gokulshirgaon	Kolhapur	16.6366	74.2757	**30**
427	110kV Radhanagari	Sindhudurg	16.4046	73.9603	
428	110kV Kothali	Kolhapur	16.5788	74.1332	
429	220kV Tilwani (Ichalkaranji II)	Kolhapur	16.7378	74.4058	**200**
430	220/33kV Five Star MIDC Kagal	Kolhapur	16.6105	74.3701	**200**
431	110kV Ichalkaranji	Kolhapur	16.7048	74.4582	**20**
432	110kV Jaysingpur	Kolhapur	16.7688	74.5339	**20**
433	220kV Miraj	Sangli	16.8165	74.6425	**0**
434	220kV Mhaishal	Sangli	16.7322	74.7019	
435	220kV Jath	Sangli	17.0551	75.1980	
436	110kV Savlaj	Sangli	17.1063	74.7711	**20**
437	110kV Tasgaon	Sangli	17.0220	74.6026	
438	110kV K'Mahankal	Sangli	16.9972	74.9464	**0**
439	110kV Kurundwad	Kolhapur	16.6744	74.5934	**50**

Power evacuation capacity available in MSETCL substations as on 25/06/2022

Note: ***The availability of power evacuation capacity and issuance of grid connectivity will be governed by following conditions:***

a) The capacity mentioned for substations is indicative only and does not guarantee the grid connectivity feasibility at that substation.

b) Grid connectivity feasibility will be confirmed after application by developer for grid connectivity and after technical feasibility & detailed Load Flow Study.

c) The availability of required feeder bays at substation, space available inside switchyard, issues of line corridor, ROW, building control line etc. needs to to be checked separately at the time of joint survey for technical feasibility.

d) The data provided is given as on date which may change in future due to changes in grid structure and change in power flow dynamics at that time.

e) The grid connectivity applications will be processed as per prevailing GOM RE Policy & methodology formulated under policy and Grid Connectivity Procedure under MERC Open Access Regulation-2016.

Sr. No.	Name of Substation	Dist.	Latitude	Longitude	Cluster Capacity (MW)
440	110kV Jath (Old)	Sangli	17.0551	75.1980	**0**
441	110kV Sankh	Sangli	17.0743	75.5001	
442	220kV Peth	Sangli	17.0602	74.2469	**200**
443	132kV Bambawade	Kolhapur	16.8856	74.0255	**0**
444	132kV Shirala	Sangli	16.9759	74.0541	
445	220kV Kharepatan	Sindhudurg	16.5532	73.6294	**200**
446	220kV Oni	Ratnagiri	16.7275	73.5862	
447	132kV Kudal	Sindhudurg	15.9970	73.6824	**60**
448	132kV Talebazar	Sindhudurg	16.3914	73.4864	
449	132kV Kankavli	Sindhudurg	16.2572	73.7152	
450	220kV Nivali phata	Ratnagiri	17.0577	73.4041	**200**
451	220kV Pawas	Ratnagiri	16.9105	73.2993	
452	110kV Aarawali	Ratnagiri	17.3166	73.5182	**0**
453	110kV Ratnagiri	Ratnagiri	16.9980	73.3482	**0**
454	220kV Hamidwada	Kolhapur	16.4259	74.2836	**250**
455	220kV Mumewadi	Kolhapur	16.2569	74.2833	
456	220kV Halkarni	Kolhapur	15.9076	74.3081	
457	220kV Bidri (Mudaltitta)	Kolhapur	16.4286	74.1341	**250**
458	220kV Sawantwadi (Insuli)	Sindhudurg	15.8556	73.8374	
459	220kV Malharpeth	Satara	17.3468	74.0106	**200**
460	220kV Satara MIDC	Satara	17.6673	74.0423	

Annexure -F

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

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)

Annexure – G :

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).