

REPLIES TO BIDDERS QUERIES 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 - RIS No. MSEDCL/RE/2022/500 MW Solar Ph-VII/T-03 Dated 08.06.2022					
Sr. No	Rfs/ PPA	Clause No. (RFS/PPA)	Existing Clause	Bidder's Query/Requests	MSEDCL Reply
1	RFS	Definitions	"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.	Kindly furnish the list of exiting and planned/ under ctrsruction STU /DISCOM Sub-stations with margin available for Solar integration to enable us for submitting a competitive bid. It is requested to allow ISTS connection within the state for Delivery point.	The substation list is attached herewith. The request is not accepted. The bidders have to adhere to RFS conditions only.
2	RFS	Section 1: Introduction: Clause No. 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 energy on monthly basis, bidder has to pay as per prevailing HT Tariff. 2. In case of net export of energy on monthly basis, billing shall be as per Tariff discovered under the Competitive Bidding.	The request is not accepted. The bidders have to adhere to RFS conditions only.
3	RFS	Section 1: Introduction: Clause No. 1.3.1	The Projects to be selected for aggregate capacity of 500 MW to be set up in Maharashtra State, 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	We can choose any mounting structure (specifically- solar tracker) and no need to follow strict guidelines as per new MSEDCL and MAHAGENCO tenders published after Phase VI tender?	The Clause shall be read as under: The Projects to be selected for aggregate capacity of 500 MW to be set up in Maharashtra State, 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 fulfill the criteria as specified under Annexure-G
4	RFS	Section 3: Clause No. 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.	Request to allow change of location/interconnection point within the State up to SCOD in line with requirement to demonstrate 100% possession of land as per PPA. The requirement of identification of land and tentative locations at the time of Bid submission may be removed due to reasons like procurement 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 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 till commissioning of the project once at the time of achievement of Financial Closure.	The request is not accepted. The bidders have to adhere to RfS conditions only.
5	RFS	Section 3: Eligibility Criteria Clause No. 3.6.1	However, in case the Bidder is a newly formed company, supported by documentary evidence of its recent formation at ROC or in case the net worth 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.	Request to allow usage of Net worth of Foreign Parent Company by at least 7 days prior to Bid Submission which could help in entry of more players in the Bid. Further, it is standard clause.	The request is accepted. As mentioned in Clause 3.6, the bidders may seek qualification on basis of financial capabilities of it's affiliates. However, MSEDCL shall accept the same subject to submission of documents mentioned at Section 3.18.
6			The Net-Worth of the Bidder for the financial year ended on 31.03.2021 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..... A minimum annual turnover of INR 35.17 lakhs/MW of the quoted capacity during the previous financial year i.e. FY 2020-21.(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. A Company/ Consortium would be required to submit annual audited accounts for the last financial year, i.e. FY 2020-21.....	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. In case the network 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.
7	RFS	Section 3: Connectivity with the Grid	List of Substation	Request you to share the latest updated list of sub- stations Please share the list of substation with availability of spare capacity Provide List of STU substation & connectivity details Please provide latest list of S/s of MSETCL List of STU/ MSETCL substation along with available connectivity may kindly be provided to assist SPD selection of Suitable sites and planning. We request you to provide the updated list of substation with available spare capacity for RE integration. The list available of MSETCL website is dated 17.02.2020.We request MSEDCL to share updated list.	The substation list is attached herewith.
8	RFS	Section 3: Connectivity with the Grid Clause No.3.7.5	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.	If the project is connected to a substation of MSEDCL/MSETCL, there won't be any wheeling charges or losses . What is the wheeling charges/losses referred to in the tender?	All transmission charges and losses up to metering/delivery point shall be borne by the Solar Power Generators .
9	RFS	Section 3: Connectivity with the Grid Clause No.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 up to financial closure.	Request to extend this timeline till SCOD or extended SCOD as Connectivity and matching land and connectivity readiness is time consuming process. The Bidder shall be entitled to deemed generation in case of delay in grant of connectivity on account of reasons not attributable 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. We request to add provision for time extension in case of delay in readiness of MSETCL evaluation infrastructure. The suggested modification is as below; The Successful Bidder shall not be entitled to deemed generation in case of any delay in grant of connectivity. In case of any delay in readiness of power evacuation infrastructure of STU, the developer would get extension of time in Scheduled Commissioning Date (SCD) beyond the 60 days from actual readiness of power evacuation infrastructure of STU.	Securing connectivity with the grid shall be the sole responsibility of solar project developer. So, the successful bidder shall not be entitled to deemed generation and no extension shall be allowed for any delay in grant of connectivity. The request is not accepted.The bidder shall adhere to terms and conditions of tender.
10	RFS	Section 3: Clause 3.9.ii	The bidders selected by MSEDCL, based on this RFS shall submit the Performance Bank Guarantee (PBG) of INR 11 Lakh/MW.....	The Bidders selected by MSEDCL, based on this RFS shall submit the Performance Bank Guarantee (PBG)/ Payment On Order Instrument (POI) from PFC/IREDA/REC of INR 8 Lakh/MW... Request to reduce the PBG amount to 8 Lakh/MW and Please also include POI as alternative to PBG as done in SECI, NTPC bids.	The request is not accepted. The bidders have to adhere to RfS conditions only.
11	RFS	Section 3: Clause 3.9.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).	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). Rationale: MSEDCL to consider reduction of penalty amount in case of extension of Financial Closure from INR 10,000/- per day per MW to INR 1000 /- per day per MW as per other central tenders.	The request is not accepted. The bidders have to adhere to RfS conditions only.
		Section 3: Connectivity with the Grid Clause No.3.13	..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).	Request to make a provision for return of such Extension charges on SCOD if FC conditions are met within the duration of extended FC.	The request is not accepted. The bidders have to adhere to RfS conditions only.

Sr. No	Rfs/PPA RFS	Clause No. (RFS/PPA)	Existing Clause	Bidder's Query/Requests	MSEDCL Reply
12			Self-Undertaking for identification of 100% land for solar project as per the format attached as Annexure-G.	As per TBCB guidelines, possession of land is to be demonstrated prior to SCOD of the project. Hence, this undertaking at the time of bid submission is not required. May kindly remove this requirement	The clause shall be read as under : "Self undertaking for identification of 100% land for solar project as per the format attached as Annexure-F. The Self-Undertaking for identification of 100% land for Solar Project as per the format attached as Annexure-F is required to be submitted at the time of Financial closure and not at the time of Bid submission."
13	RFS	Section 3: Connectivity with the Grid Clause No.3.14.3	Evidence of clear possession of Project Site selected by Successful Bidder shall be submitted 30 (Thirty) days before the Scheduled Commercial Operation Date 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.	As per Bidding Guidelines, the Land is to be in possession of Successful Bidder up to the date of SCOD or extended SCOD. The clause may be suitably amended. Further, allowance should be made for Bidders to demonstrate possession of land equivalent to part capacity to be commissioned. This would help in part commissioning of the Project.	The request is partially accepted and the clause is amended as below: "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. Bidders to demonstrate possession of land equivalent to part capacity to be commissioned."
14	RFS	Section 3: Clause No.3.14.5 Part Commissioning of RFS and Clause No.4.1.6 of PPA.	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.	As the minimum project capacity is 25 MW at single location, minimum capacity for part commissioning may be revised to 5 MW.	The request is not accepted. The bidders have to adhere to RFS conditions only.
15	RFS	Section 3: Clause No.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 bidders have to adhere to RFS conditions only.
16	RFS	Section 3: Clause No.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.	Proposed Modifications: In case, the financial eligibility and qualification is attained through financials of Parent Company, then the controlling shareholding of the Parent Company in the Bidding Company shall not change till the achievement of Financial Closure and the controlling shareholding of the bidding entity shall not change till one year from the date of COD. Rationale: MSEDCL shall not restrict parent and bidder from changing shareholding as we have equity infusion, ESOP allocation etc. Further bidder is unable to ascertain the timelines of PPA signing. There may be cases where certain investors and new stakeholders are brought into company at HODLCO and SPV level at a time between bid submission, PPA signing, FC and SCOD of project. Therefore it will be a problem to bidder. Hence it shall be deleted.	The request is not accepted. The bidders have to adhere to RFS conditions only.
				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 . "
17	RFS	Section 3 : Clause no. 3.18(10) vii) Structuring of Bid proposal	Certificate from Chartered Accountants, certifying the Net worth 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	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. 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.
18	RFS	Section 3 : Clause no. 3.18(10) ix)	Activity wise Tentative schedule for meeting timelines/milestones as per RFS at the time of bid submission such as.....	To be deleted Project development activities are started after PPA signing and Tariff Adoption approval from MERC. Hence bidders are unable to submit schedule at this stage.	The request is not accepted. The bidders have to adhere to RFS conditions only.
19	RFS	Section 4 :Clause No.4.2 -B(iii) Techno-commercial Evaluation of bidders	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 bidders have to adhere to RFS conditions only.
20	RFS	Section 4 :Clause No.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 bidders have to adhere to RFS conditions only.
21	PPA	Section 3: Clause no. 3.1.xiii	The Power Producer cannot inject power three months earlier to Scheduled Commercial Operation Date from Project without MSEDCL's consent.	Request to withdraw this clause as this would disincentivize SPDs to commission the Plant early and deny the benefit of fulfilling RPO to MSEDCL.	The request is accepted. The clause is revised as under: "The Power producer can inject power earlier to Scheduled Commercial operation Date(SCOD) with MSEDCL's consent."
22	PPA	Section 4: Clause No. 4.1.7	Early Commissioning: The early commissioning of solar power Generator is permitted for full commissioning as well as part commissioning prior to SCOD. In case of early full commissioning, MSEDCL will purchase the generation till SCOD at PPA tariff. 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 without any additional Tariff on account of Change in Law till the SCOD.	Request to consider procuring power from partly early commissioned tariff at 100% to incentivize the SPD and inclusion of CIL tariff for this in the interest of natural justice.	The request is not accepted. The clause is in line with MNRE Competitive bidding guidelines.
			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	
23	PPA	Section 5: Clause No.5.3	Start-up power/Auxiliary consumption: 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.	Request to allow netting off import power from the Grid as is prevailing in other States. It is requested to allow the following philosophy. 1. In case of net import of energy on monthly basis, bidder has to pay as per prevailing HT Tariff. 2. In case of net export of energy on monthly basis, billing shall be as per Tariff discovered under the Competitive Bidding	There will be no netting of Export and Import of energy. The Successful bidder has to avail separate connection for import of energy. 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.
24	PPA	Section 5: Clause No.5.4.1	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 either 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 from the date of execution of PPA for existing solar power projects	Request to increase the requirement of minimum CUF to be +/-20% in line with requirements of other tenders.	The request is not accepted. The bidders have to adhere to RFS conditions only.
25	PPA	Section 5: Clause No.5.4.3	Excess generation: In case the availability is more than the maximum CUF specified, the Solar Power Producer will be free to sell it to any other entity provided first right of refusal will vest with the MSEDCL. In case the Procuree 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.	Request to increase the requirement of minimum CUF to be +/-20% in line with requirements of other tenders. Further, the word 'may' be substituted with 'shall'.	The request is not accepted. The bidders have to adhere to RFS conditions only.
				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 bidders have to adhere to RFS conditions only.
26	PPA	Section 5: Clause No.5.5 DC Oversizing	DC Capacity for Change in Law = AC Contracted Capacity x (Declared CUF / Minimum CUF stipulated in RFS)	No limit should be given in Compensation due to change in law or it may be limited to 150% of AC capacity. 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 bidders have to adhere to RFS conditions only.

Sr. No	Rfs/PPA	Clause No. (RFS/PPA)	Existing Clause	Bidder's Query/Requests	MSEDCL Reply
27	PPA	Section 5: Clause no.5.6	Generation Compensation in off take constraint due to transmission	We acknowledge that the generation loss shall be compensated by PSPCL procuring excess generation in the succeeding 3 contract years. But in case of long period of grid unavailability or transmission constraint, 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 eligible for regular payments if this condition persist for more than 1 month.	The request is not accepted. The clause is in line with MNRE Competitive bidding guidelines.
28	PPA	Section 5: Clause No. 5.7 Generation compensation due to Backed down	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.	May kindly remove this clause. It is requested to consider Merit Order Despatch applicability under Change in law and to be dealt accordingly.	The request is not accepted. The bidders have to adhere to RFS conditions only.
29	PPA	Section 6: Clause no.6.3	Late Payment: 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.	Recent amendments in Late Payment Surcharge Rules'22 may be suitably incorporated.	The request is not accepted. The clause is in line with MERC (Terms and Conditions for Determination of Renewable Energy Tariff) Regulations, 2019.
30				Request MSEDCL to please clarify the Due date	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."
31	PPA	Section 6: Clause no.6.5	Payment Security	Request MSEDCL to clarify Whether the timely payment to developer is guaranteed by Government of Maharashtra through a guarantee agreement	No, The state Government Guarantee will not be provided. The RFS and PPA conditions shall prevail.
32	PPA	Section 8:	Force Majeure	Request MSEDCL to include "Pandemic" as a force majeure event.	The request is not accepted. The clause is in line with MNRE Competitive bidding guidelines.
33	PPA	Section 8: Clause No. 8.2.1	Force Majeure	Pandemic, Epidemic may also be included in FM events.	The request is not accepted. The clause is in line with MNRE Competitive bidding guidelines.
34	PPA	Section 8: Clause No.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 MNRE Competitive bidding guidelines.
35	PPA	Section 8: Clause no.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.
36	PPA	Section 9: Clause no.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, up to 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 bidders have to adhere to PPA conditions only.
37	PPA	Section 9: Clause No.9.2.4	If a Change in Law results in the Power Producer's costs directly attributable to the Project being decreased or increased by one percent (1%), of the estimated revenue from the Electricity for the Contract Year for which such adjustment becomes applicable or more, during Operation Period, the Tariff Payment to the Power Producer shall be appropriately increased or decreased with due approval of MERC.	Already increase/decrease in Project cost and/or subsequently tariff has been incorporated in incidental clauses, the same is not required. Such restriction is contrary to the intention of compensation.	The request is not accepted. The bidders have to adhere to PPA conditions only.
38	PPA	Section 10: Clause 10.4.1	Termination for POWER PRODUCER s Default: The Power Producer shall have liability to make payment within 30 days from the date of termination notice toward compensation to MSEDCL 6 (Six) months or balance PPA period whichever is less, of charges for its contracted capacity at declared Capacity Utilization factor (CUF).	To be deleted The penalty mechanism as indicated in the PPA under Cl. No. 10.4.1 is very stringent & duplicate in nature, over & above the encashment of Performance Bank Guarantee as penalty. Thus this condition is becoming a major hurdle for the participation in this tender as lenders are also not allowing for its acceptance. We would like to inform that the PPAs of SECI wind RFS' till date does not contain this additional penalty mechanism, even though such power is also being procured by the DISCOMs for meeting their RPO compliance. In view of above, we request you to kindly delete such additional penalty from the PPA under Cl. No. 10.4.1, which shall surely encourage the maximum participation in your tender & increase the competition.	The request is not accepted. The bidders have to adhere to PPA conditions only.
39	PPA	General		PPA may be made effective and binding only on adoption of tariff by MERC.	The PPA shall be signed after adoption of tariff by MERC only.
40	New Clause	Time extension in SCD for offtake constraints due to Transmission Infrastructure not complete/ ready	No clause regarding Time extension in SCD for offtake constraints due to Transmission Infrastructure not complete/ ready. Kindly include the proposed clause.	Subsequent to grant of connectivity, in case there is a delay in grant/operationalization of LTA by the STU and/or there is a delay in readiness of the STU substation at the Delivery Point, including readiness of the power evacuation and transmission infrastructure of the STU network until SCD of the Project, The above shall be treated as delays beyond the control of the SPD and SCD for such Projects shall be revised as the date as on 60 days subsequent to the readiness of the Delivery Point and power evacuation infrastructure and/or operationalization of LTA. 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 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 and all transmission charges and losses up to delivery point shall be to the account of solar power generator.
41	New Clause	New Clause: Generation compensation for offtake constraints due to Transmission Infrastructure not complete/ ready	No clause regarding Generation compensation for offtake constraints due to Transmission Infrastructure not complete/ ready.	After the scheduled commissioning date, if the plant is ready but the necessary power evacuation/ transmission infrastructure is not ready, for reasons not attributable to the Solar Power Generator, leading to offtake constraint, the provision for generation compensation is as per TBCB guidelines 5.5.1 (a). 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 bidders have to adhere to PPA conditions only.

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 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			80
13	132 kV Kolari	Nagpur	20.703821	79.559204	
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

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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

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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 Umarched	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

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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	80
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	

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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	0
182	132kV Naldurg	Osmanabad	17.8189	76.2621	
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

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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	

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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 Khaprle	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	

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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

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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 Ionawala	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

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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 Puluji	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	

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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 Shirol	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

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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	