

MAHARASHTRA ELECTRICITY REGULATORY COMMISSION (FORECASTING, SCHEDULING AND DEVIATION SETTLEMENT FOR SOLAR AND WIND GENERATION) REGULATIONS, 2018

No. MERC/Admin / Regulation / 2018 / 107.— In exercise of the powers conferred under sub-section (3) of Section 32, sub-section (4) of Section 33, Clauses (b), (e) and (h) of sub-section (1) of Section 86, and Clauses (g) and (zp) of sub-section (2) of Section 181 of the Electricity Act, 2003 (36 of 2003) and all other powers hereunto enabling, and after previous publication, the Maharashtra Electricity Regulatory Commission makes the following Regulations.

PRELIMINARY

Short Title, Commencement and Extent

1.1 These Regulations may be called the “Maharashtra Electricity Regulatory Commission (Forecasting, Scheduling and Deviation Settlement for Solar and Wind Generation) Regulations, 2018”.

1.2 These Regulations shall come into force from the date of their publication in the *Official Gazette*:

Provided that Regulation 5.14 and the Commercial Arrangements specified in Part C of these Regulations, and the related provisions regarding Deviation Charges and penalty, shall come into force from the date to be notified separately which shall not be later than nine months from the date of notifications of these Regulations.

Definitions

2.1 **In these Regulations, unless the context otherwise requires:**

(a) “Absolute Error” means the difference between the scheduled and the actual generation injected by Solar or Wind Energy Generators in relation to their Available Capacity (AvC) in each time block, and may be computed in percentage terms by applying the following formula:

$$\text{Absolute Error (\%)} = 100 \times \frac{[\text{Actual Generation} - \text{Scheduled Generation}]}{\text{AvC}}$$

AvC

(b) “Act” means the Electricity Act, 2003 (36 of 2003), as amended from time to time;

(c) “Actual Drawal” in a time block means the electricity drawn by a Procurer, as measured by the interface meters;

(d) “Actual Generation” in a time block means the electricity generated and injected into the Grid by a Generator, as measured by the interface meters;

(e) “Available Capacity” (or “AvC”) of Wind or Solar Energy Generators means the cumulative capacity rating of the Wind turbines, Solar inverters or Solar thermal generators that are capable of generating power in a given time block as declared by such Generators or QCA, as the case may be;

(f) “Commission” means the Maharashtra Electricity Regulatory Commission;

(g) “De-Pooling” means the disaggregation and apportionment of the deviations and the applicable charges among the Generators at a Pooling Sub-Station;

- (h) “Deviation” in a time block means the difference between the actual injection of energy and scheduled generation;
- (i) “Forecasting” means the projection of likely future electricity generation based on scientific analysis of meteorological data and other relevant parameters;
- (j) “Grid Code” means the State Grid Code specified by the Commission under Section 86(1) (h) of the Act;
- (k) “Indian Electricity Grid Code” (or “IEGC”) means the Grid Code specified by the Central Electricity Regulatory Commission under section 79(1)(h) of the Act;
- (l) “Interface Meter” shall have the same meaning as in the Regulations of the Central Electricity Authority governing the installation and operation of Meters;
- (m) “Inter-connection point” means the interface point of a generation facility with the transmission or distribution system; and shall mean, in relation to a Wind or Solar Energy facility, the line isolator on the outgoing feeder on the High Voltage (HV) side of the Pooling Sub-Station;
- (n) “Pool Account” means the State Account for receipts and payments on account of deviations by Wind and Solar Energy Generators;
- (o) “Pooling Sub-Station” means a Sub-Station consisting of a step-up transformer and associated switchgear to the Low Voltage (LV) side of which several Wind or Solar Energy Generators are connected:

Provided that, where a Generating Unit is connected through a common or an individual feeder terminating at a Sub-Station of a Distribution Licensee, the State Transmission Utility or the Central Transmission Utility, such Sub-Station shall be treated as the Pooling Sub-Station for such Wind or Solar Energy Generator for the purposes of these Regulations;

- (p) “Procurer” means a person, including a Distribution Licensee, Trading Licensee or an Open Access consumer, procuring electricity through a transaction Scheduled in accordance with the Regulations Governing Open Access;
- (q) “Qualified Co-ordinating Agency” (or “QCA”) means the agency appointed by the Wind or Solar Energy Generators connected to a Pooling Sub-Station, or by an individual Generator connected directly to a Sub-Station, to perform the functions and discharge the obligations specified in these Regulations;
- (r) “Scheduled Generation”, for a time block or other time period, means the Schedule of Generation in MW or MWh ex-bus provided by the State Load Despatch Centre;
- (s) “Scheduled Drawal” for a time block or other time period means the Schedule of despatch in MW or MWh ex-bus provided by the State Load Despatch Centre;
- (t) ‘Seller’ means a person, including a Generating Station supplying electricity through a transaction scheduled in accordance with the Regulations Governing Open Access;
- (u) ‘State DSM Pool Account’ means the State Account for receipts and payments on account of deviations by Procurers and Sellers including Wind or Solar Energy Generators;
- (v) “State Entity” means a Solar or Wind Generator in the area of control of the State Load Despatch Centre and whose metering and energy accounting is undertaken at the State level;

- (w) “State Load Despatch Centre” (or “SLDC”) means the Load Despatch Centre of Maharashtra established under Section 31(1) of the Act and responsible for coordinating the scheduling of the State Entities in accordance with the provisions of the State Grid Code;
- (x) “Time block” means a period of 15 minutes for which specified electrical parameters and quantities are recorded by a Special Energy Meter, with the first time block starting at 00.00 hrs., or such other period as the Commission may stipulate.
- 2.2 Words or expressions used and not defined in these Regulations shall have the meaning assigned to them in the Act, or the Rules or other Regulations framed thereunder.

PART A GENERAL

3 Objective

- 3.1 These Regulations are intended to facilitate Grid integration of Wind and Solar energy generated in Maharashtra while maintaining Grid stability and security as envisaged under the State Grid Code and the Act, through forecasting, scheduling and a mechanism for the settlement of deviations by such Generators.
- 3.2 In order to maintain system security, stability and reliability, the SLDC shall take into consideration the forecasts of Wind and Solar generation for Week-Ahead, Day-Ahead and intra-Day operations and scheduling, and longer term forecasts for its planning.
- 3.3 The SLDC shall make use of the flexibility provided by conventional Generating Units and the capacity of inter-Grid tie-lines to accommodate Wind and Solar energy generation to the largest extent possible subject to Grid security.

4 Applicability

- 4.1 These Regulations shall apply to all Wind and Solar Energy Generators in Maharashtra connected to the Intra-State Transmission System, including those connected through Pooling Sub-Stations, and using the power generated for self-consumption or sale within or outside the State :

Provided that the combined installed capacity of the Solar or Wind Generators connected to a particular Pooling Sub-Station, or that of an individual Generator connected to some other Sub-Station, shall not be less than 5 MW.

- 4.2 The Commission shall review these Regulations including formulation of Absolute Error, Accuracy Band and Deviation charge thereof as stipulated under Regulation 7.2 and Annexure; after two years, or earlier if it considers necessary.

PART B

TECHNICAL ARRANGEMENTS: FORECASTING AND SCHEDULING CODE

5 Forecasting and Scheduling Code

- 5.1 This Forecasting and Scheduling Code specifies the methodology for Day-Ahead scheduling of Wind and Solar Energy Generators connected to the Intra-State Transmission Network, its revisions on a one and a half hourly basis, and the treatment of their deviations from such Schedules.

- 5.2 The Wind and Solar Energy Generators at each Pooling Sub-Station shall appoint a QCA:
 Provided that an individual Generator not connected to a Pooling Sub-Station may opt to be its own or to appoint a separate entity as its QCA.
- 5.3 The QCA shall be treated as a State Entity.
- 5.4 Every QCA shall be registered with the SLDC in accordance with the Detailed Procedure prescribed in pursuance of Regulation 5.21.
- 5.5 Notwithstanding the appointment of a QCA, the onus of complying with the relevant provisions of these Regulations shall remain that of the concerned Generators, and the commercial and other arrangements between them and their QCA shall be governed by their inter-se agreements or terms of engagement.
- 5.6 The QCA shall be appointed by the Generators for the purposes specified in these Regulations, including but not limited to the following:
- (a) Meter reading and data collection and its communication, and co-ordination with the Distribution Licensees, the SLDC and other agencies;
 - (b) De-pooling of amounts payable on behalf of the constituent Generator of the Pooling Sub-Station from the State DSM Pool Account and settling them with each Generator;
 - (c) Settlement of the Deviation Charges specified in these Regulations with the SLDC on behalf of the Generators.
- 5.7 The QCA shall be the single point of contact between the SLDC and its Generators for the purposes of these Regulations.
- 5.8 The QCA shall furnish the technical specifications of the Generators whom it represents to the SLDC in the prescribed format, at the time of its registration or within such period thereafter as may be stipulated by the SLDC in its Detailed Procedure, and when there is a change in these specifications.
- 5.9 The QCA shall provide real-time data relating to the power generation parameters and weather-related data, as may be required, to the SLDC.
- 5.10 Meters shall be installed for energy accounting in accordance with the relevant provisions of the Central Electricity Authority (CEA) Regulations governing metering, along with telemetry /communication and Data Acquisition Systems for the transfer of information to the SLDC by the QCA.
- 5.11 The QCA shall furnish to the SLDC the aggregated forecasts relating to its Wind and Solar Energy Generators connected to the intra-State Transmission network, with details of their Availability.
- 5.12 The SLDC shall also undertake forecasting of the Wind and Solar energy generation expected to be injected into the intra-State Transmission network at each location, by engaging forecasting agencies if required, so as to enable it to better plan for the balancing resources required for secure Grid operation.
- 5.13 The QCA shall aggregate the Schedules of all Generators connected to a Pooling Sub-Station and communicate them to the SLDC. QCA can undertake forecasting and scheduling for multiple

pooling substations, however scheduling, energy accounting and deviation monitoring for each pooling substation of wind or solar power generation shall be undertaken separately.

5.14 No Wind or Solar energy generation shall be considered for despatch by the SLDC if it is not scheduled by the QCA on behalf of the Generators in accordance with the provisions of these Regulations.

5.15 The QCA may adopt the forecast of the SLDC for preparing its Schedule or provide SLDC with a Schedule based on its own forecast, which shall be the reference Schedule for the purposes of deviation determination and settlement:

Provided that, if the QCA opts to adopt the forecast of the SLDC, the consequences of any error in such forecast which results in a deviation from scheduling shall be borne by the concerned Generators through their QCA.

5.16 The SLDC shall recover such charges as may be approved by the Commission for providing its forecasting services to the QCA; and the amount so recovered shall be treated as 'other income' in the Aggregate Revenue Requirement of the SLDC for the determination of its Fees and Charges.

5.17 The QCA shall provide to the SLDC a Day-Ahead and a Week-Ahead Schedule for each Pooling Sub-Station or each stand-alone Generating Station, as the case may be, to enable it to assess the Availability of energy and the margin available in the State Grid.

5.18 The Day-Ahead Schedule shall comprise the Wind or Solar energy generation to be scheduled in each 15-minute time block starting from 00:00 hours of the following day, and for all 96 time blocks of that day; and the Week-Ahead Schedule shall contain the same information for the next seven days.

5.19 The QCA may revise the Schedule of Generators connected to the Intra-State Transmission Network (excluding collective transactions) by giving advance notice to the SLDC;

Provided that, such revisions shall be effective from the 4th time block following the time block in which notice was given;

Provided further that, there may be one revision for each time slot of one and half hours starting from 00.00 hours of a particular day, subject to a maximum of 16 revisions during the day.

5.20 The plan for data telemetry, formats of forecast submission and other modalities and requirements shall be stipulated in the Detailed Procedure to be submitted by the SLDC within three months, which the Commission shall endeavour to approve within a month thereafter.

Provided that, SLDC shall undertake stakeholder consultation by uploading the Draft Procedure on SLDC's website before submission to the Commission for approval.

5.21 The Detailed Procedure shall address the following aspects:

- (a) The procedure and requirements, including the payment of fees and penalties for the registration and de-registration of QCAs by the SLDC and payment security mechanism.
- (b) The information and data, and the formats, required by the SLDC from the QCAs and to be provided by the SLDC to them.
- (c) The mode and protocol of communication for exchange of information and data between the QCAs and the SLDC.

- (d) The guidelines for energy and deviation accounting of Wind and Solar energy transactions under the State energy accounting framework, with illustrative examples, in accordance with the principles specified in these Regulations.
- (e) The mechanism for monitoring compliance of the Forecasting and Scheduling Code by the QCAs.
- (f) The default conditions in the State Pool Settlement by QCAs and their treatment.

5.22 The commercial impact of deviations from Schedules based on the forecasts shall be borne by the Generators through their QCAs.

5.23 Treatment for mis-declaration of Available Capacity:

- (a) Any intentional mis-declaration of Available Capacity to the SLDC for its own undue commercial gain or that of a Generator shall constitute a breach of these Regulations.
- (b) The QCA shall be liable to pay a penalty of three times the Deviation Charges that would have been applicable had the Available Capacity been correctly declared.
- (c) The amount of penalty shall be payable by the QCA to the State Deviation Settlement Mechanism (DSM) Pool, through the SLDC.
- (d) The SLDC may, after giving due notice and as stipulated in the Detailed Procedure, cancel the registration of the QCA upon repeated events of mis-declaration.

Principles of appointment of QCA

6.1. The Generators at a Pooling Sub-Station may appoint one amongst themselves or any other entity as a QCA:

Provided that an individual Generator not connected through a Pooling Sub-Station may opt to be its own QCA or to appoint a separate entity.

6.2. The QCA shall be appointed with the approval of at least 51% of the Generators at a Pooling Sub-Station, in terms of their combined installed capacity.

6.3. The Generators shall satisfy themselves that the QCA is technically and financially competent to undertake on their behalf the functions and discharge the obligations specified in these Regulations.

6.4. The terms of engagement of the QCA shall include provisions on the following aspects:

- (a) The respective roles and responsibilities of the QCA and Generators;
- (b) The metering, billing and energy accounting arrangements;
- (c) The modalities for recovery of Deviation Charges from the Generators and their settlement, including the principles for de-pooling;
- (d) The payment security mechanism and related provisions;
- (e) The events of default and their mitigation.

PART C
COMMERCIAL ARRANGEMENTS

7 Deviation Settlement for Intra-State Transactions

7.1 The sale of power within Maharashtra by Solar and Wind Energy Generators connected to the Intra-State Transmission Network shall be settled by the Procurers on the basis of their actual generation, whereas the Deviation Settlement shall be undertaken as specified in these Regulations.

Solar or Wind Energy Generator who deviates from its given Schedule shall be liable to pay a Deviation Charge under the provisions of these Regulations.

7.2 In respect of sale or self-consumption of power within Maharashtra, if the actual injected generation of a stand-alone Generator or the aggregate of such generation at a Pooling Sub-Station, as the case may be, differs from the scheduled generation, the Deviation Charge for the excess or shortfall shall be payable by the QCA to the Pool Account, through the SLDC, as specified in Table 1 below:—

Table 1: Deviation Charge for under- or over-injection, for sale or self-consumption of power within Maharashtra

Sr. No.	Absolute Error in %age terms in 15-minute time block	Deviation Charge payable to Pool Account for Wind/Solar Generation
1	<= 15%	None*
2	>15% but <=25%	At Rs. 0.50 per unit for the shortfall or excess beyond 15% and upto 25%
3	>25% but <=35%	At Rs. 0.50 per unit for the shortfall or excess beyond 15% and upto 25% + Rs. 1.00 per unit for the balance energy beyond 25% and upto 35%
4	>35%	At Rs. 0.50 per unit for the shortfall or excess beyond 15% and upto 25% + Rs. 1.00 per unit for the shortfall or excess beyond 25% and up to 35% + Rs. 1.50 per unit for the balance energy beyond 35%

[* : subject to the conditions specified in Regulation 12]

7.3. The SLDC and the QCA shall maintain records and accounts of the time block-wise Schedules, the actual generation injected and the deviations, for the Pooling Sub-Station and the individual Generators separately.

7.4. The QCA shall undertake de-pooling of the energy deviations and the Deviation Charges against each Generator at the Pooling Sub-Station as specified in Regulation 16.

7.5. The QCA shall undertake the settlement of the Deviation Charges with the SLDC on behalf of the concerned Generators.

- 7.6. The Deviation Charges for under or over-injection by Generators connected to the Intra-State Transmission Network and selling or consuming power outside Maharashtra shall be governed by the Regulations of the Central Electricity Regulatory Commission (CERC) governing the Inter-State Deviation Settlement Mechanism and related matters; and the accounting for this purpose shall be done by the SLDC limited to the deviations in the Intra-State Transmission Network resulting from such under- or over-injection.

8 Deviation Settlement for Inter-State Transactions

- 8.1 The sale or self-consumption of power outside Maharashtra by Solar and Wind Energy Generators connected to the Intra-State Transmission Network shall be settled by the Procurers on the basis of their scheduled generation.
- 8.2 Inter-State transactions at a Pooling Sub-Station shall be permitted only if the concerned Generator is connected through a separate feeder.
- 8.3 The Generator shall submit, through the QCA, a separate Schedule for its energy generation, in accordance with these Regulations, to the SLDC and the concerned Regional Load Despatch Centre (RLDC).
- 8.4 The SLDC shall prepare the deviation settlement account for such Generator on the basis of measurement of the deviation in the energy injected and its impact at the State periphery.
- 8.5 The Generator shall pay the Deviation Charges applicable within Maharashtra in case of deviations in the State DSM Pool Account, the consequences of such deviation at the Inter-State level being governed by the CERC Regulations governing the Deviation Settlement Mechanism and related matters.
- 8.6 The Deviation Charges for under- or over-injection by Generators connected to the Intra-State Transmission Network and selling or consuming power outside Maharashtra shall be as specified in the Annexure to these Regulations, the accounting for which shall be done by the SLDC.

9 Deviation Settlement for Inter- and Intra-State Transactions: other provisions

- 9.1 Deviations in respect of Inter-State and Intra-State transactions shall be accounted for separately at each Pooling Sub-Station.
- 9.2 The SLDC shall provide separate energy and DSM accounts for Inter-State and Intra-State transactions to the QCA, who shall settle the Deviation Charges with the concerned Generators.

PART D

IMPLEMENTATION ARRANGEMENTS

10 Implementation Procedure

10.1 Metering

Every Pooling Station and stand-alone Generator with installed capacity of 5 MW or above shall have a Special Energy Meter (SEM) capable of recording the energy in 15-minute time blocks as specified in the CEA Regulations governing metering.

The QCA shall furnish weekly meter readings to the SLDC by 00.00 hours on the Thursday of the previous week, in addition to the data provided to the Supervisory Data and Control Acquisition (SCADA) Centre, for the purpose of energy accounting under these Regulations.

10.2 Energy Accounting

The energy accounting shall be undertaken on the basis of the data recorded by the SEM referred to in Regulation 10.1.

11 Communication between QCA and SLDC

11.1 The Detailed Procedure prescribed by the SLDC shall set out the protocol for communication and exchange of information between the QCA and the SLDC, including with regard to the following aspects:

(a) Communication of the Day-Ahead, intra-Day and Week-Ahead Schedule and any revisions to the SLDC.

(b) Communication of the real-time generation at the Pooling Sub-Station or by the stand-alone Generator

(c) Communication of Grid constraints and curtailments by the SLDC to the QCA.

11.2 The SLDC shall equip itself with the necessary Information Technology (IT)-enabled communication platform and software for communication between it and the QCA.

11.3 The QCA shall provide the IT-enabled communication software log-in details to enable the SLDC to access live data of all Schedules and deviations and facilitate the timely billing and payment of Deviation Charges.

11.4 The IT-enabled communication platform and software should enable the SLDC and QCA to exchange information, including with regard to the following:

(a) Generator outages and their reasons;

(b) Deviation Charges payable by the QCA;

(c) Site characteristics and details of the Wind Turbines, Solar Inverters, etc.;

(d) Schedules and generation handled by the QCA.

12 Deviation Accounting

12.1 The methodology for deviation settlement for the State shall be as follows:

(a) The Deviation Charge payable or receivable for the State as a whole at the State periphery shall be determined by the SLDC.

(b) The SLDC shall compute the impact of the deviation of the Solar and Wind Energy Generation and its contribution to the Deviation Charge at the State periphery.

(c) The SLDC shall compute the Absolute Error, i.e. the difference between the scheduled and the actual energy injected, in respect of each Pooling Sub-Station and each Generator feeding energy directly to another Sub-Station, and shall accordingly determine the amounts payable on account of the Deviation Charge in accordance with Regulations 7 and 8.

(d) Any shortfall in the aggregate amount of Deviation Charge payable by Solar and Wind Energy Generators at the State periphery and the amount receivable from them by the Pool Account shall be paid by the respective QCAs in proportion to their deviation reflected at the State periphery.

12.2 Settlement of Deviation Charges

The SLDC shall compute the deviations from the Schedule, determine the Deviation Charges payable and bill the QCA accordingly.

13 Payment Mechanism for Deviation Settlement

13.1 The QCA shall pay the amount of Deviation Charges to the SLDC, and collect it from the concerned Generators in proportion to their actual generation:

Provided that the onus of ensuring the payment of the Deviation Charges to the SLDC by the QCA shall remain that of the concerned Generators.

13.2 The Deviation Charges shall be paid within ten days from the issue of the accounts and billing by the SLDC, failing which a late payment surcharge amounting to 1.25% per month shall be levied for the period of delay.

14 Intimation of Curtailment

14.1 Any curtailment imposed on the energy injection for reliable and secure Grid operation in emergency situations shall be communicated by the SLDC to the QCA through an IT-enabled communication, and no Deviation Charges shall be payable for any consequent deviations if the SLDC fails to do so.

14.2 In case of any curtailment planned and communicated by the SLDC due to line maintenance or other reasons in certain time blocks of a day, the QCA shall be responsible for curtailing the generation at site and amending the Schedule accordingly, failing which the SLDC shall revise the Schedule as required.

15 Energy Accounting

15.1 All accounts relating to deviations shall be prepared by the QCA on a weekly basis based on inputs from the SLDC, and be accessible to the SLDC through an IT-enabled system and software.

15.2 The SLDC shall furnish the processed data on a weekly basis by Thursday mid-night for the seven-day period ending on the previous Sunday mid-night to the concerned QCA in the prescribed format, for the preparation of weekly Energy Accounts of energy from the Pooling Sub-Station or the stand-alone Generator, as the case may be.

15.3 Any discrepancy communicated by the QCA within 15 days shall be corrected forthwith by the SLDC after verification.

16 De-Pooling of Deviation Charges

The QCA shall de-pool the energy deviations and the Deviation Charges against each Generator in proportion to its actual generation.

PART E
MISCELLANEOUS

17 Practice Directions

Subject to the provisions of the Act, the Commission may, from time to time, issue Practice Directions with regard to the implementation of these Regulations.

18 Power to amend

The Commission may, at any time, vary, alter, modify or amend any provisions of these Regulations.

19 Power to remove difficulties

If any difficulty arises in giving effect to the provisions of these Regulations, the Commission may, by general or specific order, make such provisions not inconsistent with the provisions of the Act, as may appear to be necessary for removing the difficulty.

Mumbai,
Dated 20th July, 2018.

ABHIJIT DESHPANDE,
Secretary,
Maharashtra Electricity Regulatory Commission.

ANNEXURE

Framework for Deviation Charges for under- or over-injection by Solar and Wind Generators connected to the Intra-State Transmission network and selling or consuming power outside Maharashtra

1. The Deviation Charges in respect of Solar and Wind Energy Generators connected to the Intra-State Transmission Network and selling or consuming power outside Maharashtra shall be as follows:
- (a) If the actual generation is lower than scheduled, the Deviation Charges for the shortfall shall be payable by the QCA to the State DSM Pool Account as given in Table A below :

Table A: Deviation Charges in case of under-injection

Sr. No.	%age Absolute Error in 15-minute time block	Deviation Charges payable to State DSM Pool Account
1	$\leq 15\%$	At the fixed rate for the shortfall in energy for Absolute Error upto 15%
2	$>15\%$ but $\leq 25\%$	At the fixed rate for the shortfall in energy for Absolute Error upto 15% + 110% of the fixed rate for the balance energy beyond 15% and upto 25%
3	$>25\%$ but $\leq 35\%$	At the fixed rate for the shortfall in energy for Absolute Error upto 15% + 110% of the fixed rate for the balance energy beyond 15%, and upto 25% + 120% of the fixed rate for the balance energy beyond 25% and upto 35%
4	$> 35\%$	At the fixed rate for the shortfall in energy for Absolute Error upto 15% + 110% of the fixed rate for the balance energy beyond 15% and upto 25% + 120% of the fixed rate for balance energy beyond 25% and upto 35% + 130% of the fixed rate for the balance energy beyond 35%

The 'fixed rate' referred to in Table A is the Power Purchase Agreement (PPA) rate determined by the Commission under Section 62 of the Act or adopted by the Commission under Section 63. In case of multiple PPAs, the fixed rate shall be the weighted average of the PPA rates. The Solar and Wind Energy Generators shall furnish the PPA rates on affidavit to the SLDC for the purpose of preparation of the Deviation Charge account, along with copies of the PPAs.

The fixed rate for Solar and Wind Energy Captive Power Plants or Open Access Generators selling power which is not counted against the Renewable Purchase Obligation (RPO) compliance of the Procurer shall be the Average Power Purchase Cost (APPC) rate at the national level, as determined by the CERC from time to time.

- (b) If the actual generation is higher than scheduled, the Deviation Charges for the excess generation shall be payable to the Solar or Wind Energy Generator through the QCA from the State DSM Pool Account, as given in Table - B below :

Table B: Deviation Charges in case of over-injection

Sr. No.	%age Absolute Error in 15-minute time block	Deviation Charges payable from State DSM Pool Account
1	<=15%	At the fixed rate for the excess energy upto 10%
2	>15% but <= 25%	At the fixed rate for the excess energy upto 15% + 90% of the fixed rate for excess energy beyond 15% and upto 25%
3	>25% but <=35%	At the fixed rate for the excess energy upto 10% + 90% of the fixed rate for excess energy beyond 15% and upto 25% + 80% of the fixed rate for excess energy beyond 25% and upto 35%
4	> 35%	At the fixed rate for the excess energy upto 15% + 90% of the fixed rate for excess energy beyond 15% and upto 25% + 80% of the fixed rate for excess energy beyond 25% and upto 35% +70% of the fixed rate for excess energy beyond 35%

The 'fixed rate' referred to in Table B is the PPA rate determined by the Commission under Section 62 of the Act or adopted by the Commission under Section 63. In case of multiple PPAs, the fixed rate shall be the weighted average of the PPA rates. The Solar and Wind Energy Generators shall furnish the PPA rates on affidavit to the SLDC for the purpose of preparation of the Deviation Charge account, along with copies of the PPAs.

- (c) The fixed rate for Solar and Wind Energy Captive Power Plants and Open Access Generators selling power which is not counted against the RPO compliance of the Procurer shall be the APPC rate at the national level, as determined by the CERC from time to time. For the balancing of the deemed RPO compliance of Procurers with respect to Schedule, the aggregate deviations by Solar and Wind Energy Generators selling power outside the State shall first be netted off for the entire Pool on a monthly basis, and any remaining shortfall in generation shall be balanced through purchase of equivalent Solar or non-Solar Renewable Energy Certificates (RECs), as the case may be, by the SLDC by utilising funds from the State DSM Pool Account. In case of a positive balance of Solar or Wind Energy generation, equivalent notional RECs shall be credited to the State DSM Pool Account and carried forward for settlement in future.