TAMIL NADU ELECTRICITY REGULATORY COMMISSION

(Forecasting, Scheduling and Deviation Settlement for Solar and Wind Generation) Regulations, 2017, (Draft)

Sl. No.	Description	Summary
1.	**Review Period**	The Commission shall review these Regulations after two years, or earlier if it considers necessary.
2.	**Applicability**	These Regulations shall apply to all Wind and Solar Energy Generators (excluding Rooftop PV Solar power projects) in Tamil Nadu connected to the Intra-State Transmission System or Distribution System, including those connected through Pooling Sub-Stations, and using the power generated for self-consumption or sale within or outside the State.
3.	**Forecasting and Scheduling**	1. The QCA shall be treated as a State Entity 2. 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. 3. 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. 4. 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. 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. 6. 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. 7. Wind energy generators shall provide time block wise banked energy withdrawal schedule and allocations to captive users on weekly basis. 8. The commercial impact of deviations from Schedules based on the forecasts shall be borne by the Generators through their QCAs.
4.	**Treatment to the Gaming**	1. Any intentional mis-declaration of Available Capacity to the SLDC for its own undue commercial gain or that of a Generator shall be considered as gaming and shall constitute a breach of these Regulations. 2. Upon identification of gaming by SLDC, 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. 3. The amount of penalty shall be payable by the QCA to the State Deviation Settlement Mechanism (DSM) Pool, through the SLDC.
5.	**Appointment of QCAs**	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. Provided that QCA may undertake forecasting and scheduling at feeder level.

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<tr><td>6.</td><td>Deviation Settlement for Intra-State Transactions</td><td colspan="3">Deviation Charge for under- or over-injection, for sale or self-consumption of power within Tamil Nadu:</td></tr>
<tr><td></td><td></td><td>S.N.</td><td>Absolute Error in %age terms in 15-minute time block</td><td>Deviation Charge payable to State DSM Pool</td></tr>
<tr><td></td><td></td><td>1</td><td>< = 10%</td><td>None</td></tr>
<tr><td></td><td></td><td>2</td><td>>10% but <=20%</td><td>At Rs. 0.50 per unit</td></tr>
<tr><td></td><td></td><td>3.</td><td>>20% but <=30%</td><td>At Rs. 0.50 per unit for the shortfall or excess beyond 10% and upto 20% + Rs. 1.00 per unit for the balance energy beyond 20% and upto 30%</td></tr>
<tr><td></td><td></td><td>4.</td><td>>30%</td><td>At Rs. 0.50 per unit for the shortfall or excess beyond 10% and upto 20% + Rs. 1.00 per unit for the shortfall or excess beyond 20% and up to 30% + Rs. 1.50 per unit for the balance energy beyond 30%</td></tr>
<tr><td></td><td></td><td colspan="3">The QCA shall undertake de-pooling of the energy deviations and the Deviation Charges against each Generator at the Pooling Sub-Station.</td></tr>
<tr><td>7.</td><td>Deviation Settlement for Inter-State Transactions</td><td colspan="3">1. Inter-State transactions at a Pooling Sub-Station shall be permitted only if the concerned Generator is connected through a separate feeder.
2. 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. Excess injection over the schedule shall not be accounted for.
3. The Generator shall pay the Deviation Charges applicable within Tamil Nadu in case of deviations in the State DSM Pool, the consequences of such deviation at the Inter-State level being governed by the CERC Regulations governing the Deviation Settlement Mechanism and related matters.</td></tr>
<tr><td>8.</td><td>Metering</td><td colspan="3">1. Every Pooling Station shall have a Special Energy Meter (SEM) capable of recording the energy in time blocks as specified in the CEA Regulations governing metering.
2. 10.1.2 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 Control and Data Acquisition (SCADA) Centre, for the purpose of energy accounting under these Regulations.</td></tr>
<tr><td>9.</td><td>Energy Accounting</td><td colspan="3">The energy accounting shall be undertaken on the basis of the data recorded by the SEM.</td></tr>
<tr><td>10.</td><td>Deviation Accounting</td><td colspan="3">1. The Deviation Charges payable or receivable for the State as a whole at the State periphery shall first be computed by the SLDC.
2. 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 State Deviation Pool Account shall be accounted for separately.</td></tr>
<tr><td>11.</td><td>Settlement of Deviation Charges</td><td colspan="3">The SLDC shall compute the deviations from the Schedule, determine the Deviation Charges payable and bill the QCA accordingly.</td></tr>
<tr><td>12.</td><td>Payment Mechanism for Deviation Settlement</td><td colspan="3">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.
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.</td></tr>
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13.	**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 or in proportion to Available Capacity, as may be mutually agreed between QCA and the Generators.