

# JOINT ELECTRICITY REGULATORY COMMISSION FOR THE STATES OF MANIPUR & MIZORAM

**(Forecasting, Scheduling, Deviation Settlement and Related Matters of Solar and Wind Generation Sources) Regulations, 2016, Dated: 18-07-2016**

Sl. No.	Description	Summary												
1.	<b>Control Period</b>	N.A.												
2.	<b>Applicability</b>	These Regulations shall apply to all wind and solar generators connected to the State grid, including those connected via pooling stations, and selling power within or outside the State.												
3.	<b>Forecasting and Scheduling</b>	<ol style="list-style-type: none"> <li>1. This code provides methodology for day-ahead scheduling of wind and solar energy generators which are connected to the State grid and re-scheduling them on one and half hourly basis, and the methodology of handling deviations of such wind and solar energy generators.</li> <li>2. Appropriate meters shall be provided for energy accounting. Telemetry/communication system &amp; Data Acquisition System shall also be provided for transfer of information to the SLDC.</li> <li>3. Forecasting shall be done by wind and solar generators connected to the State grid, or by QCAs (via Qualified Coordinating Agencies) on their behalf.</li> <li>4. The QCA or the wind and solar generator shall submit a day-ahead and week-ahead schedule for each pooling station or each generating station, as the case may be. Day- ahead schedule shall contain wind or solar energy generation schedule at intervals of 15 minutes (time-block) for the next day, starting from 00:00 hours of the day, and prepared for all 96 time-blocks. Week-ahead schedule shall contain the same information for the next seven days.</li> <li>5. The schedule of wind and solar generators connected to the State grid (excluding collective transactions) may be revised by giving advance notice to the SLDC.</li> </ol>												
4.	<b>Commercial and Deviation settlement</b>	<ol style="list-style-type: none"> <li>1. The wind or solar generators connected to the State grid and selling power within the State shall be paid by the buyer as per actual generation.</li> <li>2. The wind or solar generators connected to the State grid and selling power outside the State shall be paid by the buyer as per scheduled generation.</li> <li>3. The QCA shall undertake all commercial settlement on behalf of the generator(s) connected to the respective pooling station(s).</li> </ol> <p><b>Deviation Charges in case of under or over-injection, for sale of power within the State</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Sr. No.</th> <th style="text-align: center;">Absolute Error in the 15- minute time block</th> <th style="text-align: center;">Deviation Charges payable to State DSM Pool</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">&lt;= 10%</td> <td style="text-align: center;">None</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">&gt;10% but &lt;=20%</td> <td style="text-align: center;">At Rs. 0.50 per unit for the shortfall or excess energy for absolute error beyond 10% and upto 20%</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">&gt;20% but &lt;=30%</td> <td style="text-align: center;">At Rs. 0.50 per unit for the shortfall or excess energy beyond 10% and upto 20% + Rs. 1.0 per unit for balance energy beyond 20% and upto 30%</td> </tr> </tbody> </table>	Sr. No.	Absolute Error in the 15- minute time block	Deviation Charges payable to State DSM Pool	1	<= 10%	None	2	>10% but <=20%	At Rs. 0.50 per unit for the shortfall or excess energy for absolute error beyond 10% and upto 20%	3	>20% but <=30%	At Rs. 0.50 per unit for the shortfall or excess energy beyond 10% and upto 20% + Rs. 1.0 per unit for balance energy beyond 20% and upto 30%
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		4	> 30%	At Rs. 0.50 per unit for the shortfall or excess energy beyond 10% and upto 20% + Rs. 1.0 per unit for shortfall or excess energy beyond 20% and upto 30% +Rs. 1.50 per unit for balance energy beyond 30%
		<b>Deviation Charges in case of under or over-injection, for wind or solar generators commissioned prior to the date of effect of these regulations, and selling power within the State</b>		
		Sr. No.	Absolute Error in the 15- minute time block	Deviation Charges payable to State DSM Pool
		1	<= 15%	None
		2	>15% but <=25%	At Rs. 0.50 per unit for the shortfall or excess energy for absolute error beyond 15% and upto 25%
		3	>25% but <=35%	At Rs. 0.50 per unit for the shortfall or excess energy beyond 15% and upto 25% + Rs. 1.0 per unit for balance energy beyond 25% and upto 35%
		4	>35%	At Rs. 0.50 per unit for the shortfall or excess energy beyond 15% and upto 25% + Rs. 1.0 per unit for shortfall or excess energy beyond 25% and upto 35% + Rs. 1.50 per unit for balance energy beyond 35%
5.	<b>Metering</b>	Interface Metering for intra-state entities shall be undertaken on an urgent basis. Every entity must be metered with a Special Energy Meter (SEM).		
6.	<b>Energy Accounting</b>	Every intra-State grid connected entity shall be metered with a Special Energy Meter (SEM), and the energy accounting for each such entity shall be done in the following manner: (a) Distribution Companies (Drawal) (b) Open Access Consumers (Drawal) (c) Conventional Generators (Generation) (d) Renewable Energy Generators at Pooling Station Level (Generation)		