JHARKHAND STATE ELECTRICITY REGULATORY COMMISSION

(Forecasting, Scheduling, Deviation Settlement and Related Matters of Solar and Wind Generation Sources) Regulations, 2016, Dated: 28-09-2016 with amendment Dated: 09-02-2021

Sl. No.	Description	Summary
1.	**Control Period**	N.A.
2.	**Applicability**	1. Wind power generators supplying power to the Discoms, or to the third party consumers through Open Access (OA) or for captive consumption through OA within or outside the State: • Wind power generators having individual or combined capacity of 5 MW and above whether connected to the State Grid independently or through pooling stations; • Wind power generators of any capacity connected to the State Grid through pooling station with total capacity of 5 MW and above. 2. Solar power generators supplying power to the Discoms, or to the third party consumers through Open Access (OA) or for captive consumption through OA within or outside the State: • Solar power generators having Individual or combined capacity of 5 MW and above whether connected to the State Grid independently or through pooling stations and/or solar parks; • Solar power generators of any capacity connected to the State Grid through pooling station and /or solar park with total capacity of 5 MW and above.
3.	**Forecasting and Scheduling Code**	1. These Regulations provide 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. Appropriate meters shall be provided for energy accounting. Telemetry/communication system & Data Acquisition System shall also be provided for transfer of information to the SLDC. 2. Forecasting shall be done by wind and solar generators connected to the State grid or by QCAs on their behalf. 3. The QCA (Qualified Coordinating Agency) 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. 4. 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. Such revisions shall be effective from 4th time block, the first being the time-block in which notice was given. 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 maximum of 16 revisions during the day. 5. Any commercial impact on account of deviation from schedule based on the forecast shall be borne by the wind and solar generator, either directly or transacted via the representing QCA.
4.	**Metering, Telemetry and Data Communication**	Wind and Solar generators covered under these Regulations shall be governed under interface metering requiring installation of Special Energy Meters (SEM) with a provision for recording and storing all the load survey and billing parameters for every 15-minute time block. Monthly meter readings shall be forwarded to the SLDC in addition to data acquisition through SCADA for energy accounting.
5.	**Commercial and Deviation Settlement**	• 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.

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In the event of actual generation of a generating station or a pooling station, as the case may be, being less or more than the scheduled generation, the deviation charges for shortfall or excess generation shall be payable by the wind and solar generator or the QCA, as the case may be, to the State DSM Pool, as given in the table below:

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<tr><th>Sr. No.</th><th>Absolute Error in the 15-minute time block</th><th>Deviation Charges payable to State DSM Pool</th></tr>
<tr><td>1.</td><td>< = 15%</td><td>None</td></tr>
<tr><td>2.</td><td>>15% but <=25%</td><td>At Rs. 0.50 per unit for the shortfall or excess energy for absolute error beyond 15% and upto 25%</td></tr>
<tr><td>3.</td><td>>25% but <=35%</td><td>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%</td></tr>
<tr><td>4.</td><td>> 35%</td><td>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%</td></tr>
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The QCA shall also de-pool the energy deviations as well as deviation charges to each generator in proportion to actual generation units for each time-block for each generator.
The payment of charges for deviation shall have a high priority and the concerned constituent shall pay the indicated amounts within 10 (ten) days of the issue of Statement of Charges for deviation by the SLDC, into the State DSM Pool Account.
The charges payable for deviation from schedule by the wind and solar generators which are supplying power outside the State, i.e., regional entities, shall be accounted for and settled in accordance with the provisions of the CERC (Deviation Settlement Mechanism and Related Matters) Regulations, 2014 as amended from time to time

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