

Bhopal, the 14th March 2024

No. 691/MPERC/2024 In exercise of powers conferred by Section 181 of the Electricity Act 2003, (36 of 2003) and all other powers enabling it in that behalf, the Madhya Pradesh Electricity Regulatory Commission hereby makes the following Regulations to amend Madhya Pradesh Electricity Regulatory Commission (Forecasting, Scheduling, Deviation Settlement Mechanism and related Matters of wind and Solar Generating Stations) Regulations, 2018 ({G-44 of 2018} herein after referred to as “the Principal Regulations” namely: -

SECOND AMENDMENT TO MADHYA PRADESH ELECTRICITY REGULATORY COMMISSION (FORECASTING, SCHEDULING, DEVIATION SETTLEMENT MECHANISM AND RELATED MATTERS OF WIND AND SOLAR GENERATING STATIONS) REGULATIONS, 2018

1. Short Title and Commencement-

- 1.1.** These Regulations shall be called “**Madhya Pradesh Electricity Regulatory Commission (Forecasting, Scheduling, Deviation Settlement Mechanism and related Matters of wind and Solar Generating Stations) Regulations, 2018 (Second Amendment) {AG-44(ii) of 2024}**”.
- 1.2.** These Regulations shall come into force from the date of their publication in the Madhya Pradesh Gazette.
- 1.3.** These Regulations shall extend to the whole of Madhya Pradesh.

2. Amendment to Regulation 2 of the Principal Regulations.

- 2.1** A new sub-clause (va) shall be inserted after sub-clause (v) of sub-clause (1) of clause 2 of the Principle Regulations, namely:

“Solar Wind Hybrid Generation Project” means a project, which generates power by combining Wind and Solar Energy Sources with or without Energy Storage subject to the condition that the rated capacity of one resource (wind or solar) shall be at least 33% of the total contracted capacity on case-to-case basis”

- 2.2.** The sub-clause (d) of sub-clause (1) of clause 2 of the Principal Regulations is substituted by following sub-clause, namely:

“(d) ‘Available Capacity (AvC)’ for wind or solar generators which are state entities, is the cumulative capacity rating of the wind turbines or solar invertors that are capable of generating power in a given time-block:

Provided that in case of Solar Wind Hybrid Generation project, the Available Capacity shall be the cumulative capacity rating of the wind turbines

and solar invertors that are capable of generating power in a time-block but not exceeding the quantum in MW for which connectivity permission is granted and for the same BPTA has been executed.”

2.3 The sub-clause (i) of sub-clause (1) of clause 2 of the Principal Regulations shall be omitted.

2.4 The sub-clause (o) of sub-clause (1) of clause 2 of the Principal Regulations is substituted by following sub-clause, namely:

“(o) ‘RE Projects’ shall mean all Wind Generating Projects, Solar Generating Projects and Solar Wind Hybrid Generation Projects irrespective of their dates of Commissioning and the term RE Projects shall be construed accordingly;”

2.5 The sub-clause (r) of sub-clause (1) of clause 2 of the Principal Regulations is substituted by following sub-clause, namely:

“(r) ‘Pooling Station’ means the sub-station where pooling of generation of individual wind generators or solar generators or wind /solar generators of Solar Wind Hybrid Generation Project is done for interfacing with the next higher voltage level:

Provided that where there is no separate pooling station for a wind or solar or Solar Wind Hybrid Generator(s) and the generating station is connected through common feeder and terminated at a sub-station of distribution company/STU/CTU, the substation of distribution company/STU/CTU shall be considered as the pooling station for such wind or solar or Solar Wind Hybrid Generator(s), as the case may be;

Provided further that Solar Wind Hybrid Power Project may be located at same or maximum 2 different locations and in case of not being Co-located, a hybrid project is to be connected at 2 points at different locations. However, connection with grid at both the points in such a case shall be through dedicated feeders only.”

3. Amendment to Regulation 3 of the Principal Regulations.

The sub-clause (2) of clause 3 of the Principal Regulations is substituted by following sub-clause, namely:

“(2) These Regulations shall be applicable to Seller(s) involved in the transactions facilitated through short-term open access or medium-term open access or long-term open access in intra-state transmission or distribution of electricity (including intra-state wheeling of power), as the case may be, in respect of all wind power generators having a combined installed capacity of 10 MW and above, solar power generators having installed capacity of 5 MW and above and hybrid of wind & solar power generators having installed capacity of

10MW and above including those connected via pooling stations and selling power within the State:

Provided that these Regulations shall also be applicable to all wind, solar and Solar Wind Hybrid Generation projects selling power outside the State under open access and having combined installed capacity of 1 MW and above.”

4. Amendment to Annexure - I of the Principal Regulations.

4.1 Amendment to Clause 6 of the Annexure - I of the Principal Regulations.

4.1.1 The sub-clause (a) of clause 6 of the Annexure - I of the Principal Regulations is substituted by following sub-clause, namely:

“a. SLDC shall compute the deviation charges of qualified Wind, Solar and Hybrid of Solar & Wind Pooling Stations, based on the Schedules issued by SLDC and SEM data received by SLDC from concerned Licensee or through AMR System.”

4.1.2 The sub-clause (I) of sub-clause (e) of clause 6 of the Annexure - I of the Principal Regulations is substituted by following sub-clause, namely:

“I. Wind or Solar or Hybrid of Solar & Wind Generating Stations undertaking Inter-State transactions:”

4.1.3 The sub-clause (ii) of sub-clause (I) of sub-clause (e) of clause 6 of the Annexure - I of the Principal Regulations is substituted by following sub-clauses, namely:

“(ii) In the event of actual generation being lesser than the scheduled generation, the deviation charges for shortfall in generation shall be payable by such wind or solar generator or hybrid of solar & wind generators, which are State entities into State Deviation Pool Account as given in Table-IA and IIA enclosed at the end of operating procedure.”

4.1.4 The sub-clause (iii) of sub-clause (I) of sub-clause (e) of clause 6 of the Annexure - I of the Principal Regulations is substituted by following sub-clause, namely:

“(iii) In the event of the actual generation being more than the scheduled generation, the deviation charges for excess generation shall be payable to the wind or solar generators or hybrid of Solar & Wind generators, which are State entities from State Deviation Pool

Account as given in Table- IB and IIB enclosed at the end of operating procedure.”

4.1.5 The sub-clause (iv) of sub-clause (I) of sub-clause (e) of clause 6 of the Annexure - I of the Principal Regulations is substituted by following sub-clause, namely:

“(iv) The Fixed Rate referred under Table-IA & IB and Table-IIA & IIB is the PPA rate as determined by the Commission under section 62 of the Electricity Act 2003 or adopted by the Commission under section 63 of the Electricity Act 2003. In case of multiple PPAs, the weighted average of the PPA rates shall be taken as the Fixed Rate. The wind, solar and Hybrid Solar Wind Generators shall furnish the PPA rates on affidavit for the purpose of deviation charge account preparation to SLDC supported by copy of the PPA.”

4.1.6 The sub-clause (v) of sub-clause (I) of sub-clause (e) of clause 6 of the Annexure - I of the Principal Regulations is substituted by following sub-clause, namely:

“(v) Fixed Rate for Open Access participants where no PPA rate is available shall be the Average Power Purchase Cost (APPC) rate at the National level, as may be determined by the Central Commission from time to time through separate order.”

4.1.7 The heading of sub-clause (II) of sub-clause (e) of clause 6 of the Annexure - I of the Principal Regulations is substituted by following heading, namely:

“(II) Wind or Solar or Hybrid Solar Wind Generating Stations undertaking Intra-State transactions:”

4.1.8 The sub-clause (i) of sub-clause (II) of sub-clause (e) of clause 6 of the Annexure - I of the Principal Regulations is substituted by following sub-clause, namely:

“(i) The Wind or Solar or Hybrid Solar Wind Generating Stations which are State Entities undertaking Intra State transactions shall be paid as per actual generation.”

4.1.9 The sub-clause (ii) of sub-clause (II) of sub-clause (e) of clause 6 of the Annexure - I of the Principal Regulations is substituted by following sub-clause, namely:

“(ii) 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 or solar or hybrid of solar & wind generator (s) or the

QCA, as the case may be, to the State Deviation Pool Account, as given in Table - III or Table-IV enclosed at the end of these operating procedure.”

4.1.10 The sub-clause (iv) of sub-clause (II) of sub-clause (e) of clause 6 of the Annexure - I of the Principal Regulations is substituted by following sub-clause, namely:

“(iv) All Wind or Solar or Hybrid of Solar and Wind Generators shall be treated together as a virtual pool within the State Deviation Pool Account. Deviations for and within this virtual pool could be settled first at the rates and methodology stipulated above for wind / solar and hybrid of Solar and Wind generators.

4.2 Amendment to Clause 8 of the Annexure - I of the Principal Regulations.

4.2.1A new sub-clause (iii) (A) shall be added before sub-clause (iii) of clause 8 of the Annexure-I.

“(iii) (A) For Solar Wind Hybrid Generation Projects – Rs 25,000/- per MW for combined installed capacity of Solar and Wind Generating Stations or for the quantum in MW for which connectivity permission is granted which ever is less.

4.2.2 The sub-clause (iii) of clause 8 of the Annexure - I of the Principal Regulations is substituted by following sub-clause, namely:

“(iii) The BG submitted shall be valid for a period of 3 years and issued by any Scheduled Commercial Bank and shall be extended from time to time as required. The payment security shall be reviewed by the SLDC every year by the end of May based on actual incidence of DSM charges during the previous financial year.”

4.3 Amendment to clause 6 of the Principle Regulations.

4.3.1 The clause 6 of the Principle Regulations shall be amended as under, namely:

“For the year “2005” in the 3rd line of Procedure, year “2021” shall be substituted.”

4.4 Following new clauses shall be added after clause 10 of the Principal Regulations, namely:

10(A) “Procedure to be followed for utilisation of funds accumulated in Renewable Energy DSM Pool Account”.

“Subject to the provisions of the Act and these regulations, the Commission may, from time to time, issue orders and practice directions in regard to the procedure to

be followed for utilisation of funds accumulated in Renewable Energy DSM Pool Account.”

10(B) “Procedure to be followed for forecasting, scheduling and deviation charges computation of Solar Wind Hybrid Generation Projects in the State of Madhya Pradesh”.

“Subject to the provisions of the Act and these regulations, the State Load Despatch Center shall prepare a detailed procedure to be followed for forecasting, scheduling and deviation charges computation of Solar Wind Hybrid Generation Projects in Madhya Pradesh and submit it for approval of Commission within a period of 2 months from the date of notification of these regulations.

Provided that till such time the procedure is prepared and approved by the Commission, the Deviation Charges shall be computed by SLDC considering the aggregate schedule and meter data of Pooling Stations, which are not connected at one point but connected separately at 2 different points with the Grid.”

By order of the Commission,
UMAKANTA PANDA, Secy.

Table - IA: Deviation Charges in case of under injection by Solar Generating Stations or Hybrid of Solar – Wind Generating Stations as State Entities undertaking Inter-state transactions.		
Sr. No.	Absolute Error in 15-minute time block.	Deviation Charges payable to State Deviation Pool Account
1.	<= 10%	At the Fixed Rate for the shortfall energy for absolute error upto 10%.
2.	>10% but <=15%	(At the Fixed Rate for the shortfall energy for absolute error upto 10%) + (110% of the Fixed Rate for balance energy beyond 10% and upto 15%)
3.	>15%	(At the Fixed Rate for the shortfall energy for absolute error upto 10%) + (110% of the Fixed Rate for balance energy beyond 10% and upto 15%) + (150% of the Fixed Rate for balance energy beyond 15%.

Table -IB: Deviation Charges in case of over injection by Solar Generating Stations or Hybrid of Solar – Wind Generating Stations as State Entities undertaking Inter-state transactions.		
Sr. No.	Absolute Error in 15-minute time block.	Deviation Charges receivable from State Deviation Pool Account
1.	<= 10%	At the Fixed Rate for the excess energy upto 10%.
2.	>10% but <=15%	(At the Fixed Rate for the excess energy upto 10%) + (90% of the Fixed Rate for excess energy beyond 10% and upto 15%)
3.	>15%	(At the Fixed Rate for the excess energy upto 10%) + (90% of the Fixed Rate for excess energy beyond 10% and upto 15%) + Zero for excess energy beyond 15%)

Table - IIA: Deviation Charges in case of under injection by Wind Generating Stations as State Entities undertaking Inter-state transactions.		
Sr. No.	Absolute Error in 15-minute time block.	Deviation Charges payable to State Deviation Pool Account
1.	$\leq 15\%$	At the Fixed Rate for the shortfall energy for absolute error upto 15%.
2.	$>15\%$ but $\leq 20\%$	(At the Fixed Rate for the shortfall energy for absolute error upto 15%) + (110% of the Fixed Rate for balance energy beyond 15% and upto 20%)
3.	$>20\%$	(At the Fixed Rate for the shortfall energy for absolute error upto 15%) + (110% of the Fixed Rate for balance energy beyond 15% and upto 20%) + (150% of the Fixed Rate for balance energy beyond 20%.

Table -IIB: Deviation Charges in case of over injection by Wind Generating Stations as State Entities undertaking Inter-state transactions.		
Sr. No.	Absolute Error in 15-minute time block.	Deviation Charges receivable from State Deviation Pool Account
1.	$\leq 15\%$	At the Fixed Rate for the excess energy upto 15%.
2.	$>15\%$ but $\leq 20\%$	(At the Fixed Rate for the excess energy upto 15%) + (90% of the Fixed Rate for excess energy beyond 15% and upto 20%)
3.	$>20\%$	(At the Fixed Rate for the excess energy upto 15%) + (90% of the Fixed Rate for excess energy beyond 15% and upto 20%) + Zero for excess energy beyond 20%)

Table -III: Deviation Charges in case of under-injection or over injection by Solar Generating Stations or Hybrid of Solar – Wind Generating Stations for sale of power within State.		
Sr. No.	Absolute Error in 15-minute time block.	Deviation Charges payable to State Deviation Pool Account
1.	$\leq 10\%$	None
2.	$> 10\%$ but $\leq 15\%$	(At the rate of Rs 0.50 per unit for shortfall or excess energy for Absolute Error beyond 10% and upto 15%)
3.	$> 15\%$ but $\leq 20\%$	(At the rate of Rs 0.50 per unit for shortfall or excess energy for Absolute Error beyond 10% and upto 15%) + (At the rate of Rs 0.75 per unit for balance energy beyond 15% and upto 20%)
4.	$> 20\%$	(At the rate of Rs 0.50 per unit for shortfall or excess energy for Absolute Error beyond 10% and upto 15%) + (At the rate of Rs 0.75 per unit for balance energy beyond 15% and upto 20%) + (At the rate of Rs 1.00 per unit for balance energy beyond 20%)

Table -IV: Deviation Charges in case of under injection or over injection by Wind Generating Stations for sale of power within State.		
Sr. No.	Absolute Error in 15-minute time block.	Deviation Charges payable to State Deviation Pool Account
1.	$\leq 15\%$	None
2.	$> 15\%$ but $\leq 20\%$	(At the rate of Rs 0.50 per unit for shortfall or excess energy for Absolute Error beyond 15% and upto 20%)
3.	$> 20\%$ but $\leq 25\%$	(At the rate of Rs 0.50 per unit for shortfall or excess energy for Absolute Error beyond 15% and upto 20%) + (At the rate of Rs 0.75 per unit for balance energy beyond 20% and upto 25%)
4.	$> 25\%$	(At the rate of Rs 0.50 per unit for shortfall or excess energy for Absolute Error beyond 15% and upto 25%) + (At the rate of Rs 0.75 per unit for shortfall or excess energy beyond 20% and upto 25%) + (At the rate of Rs 1.00 per unit for balance energy beyond 25%)