

**CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

No. L-1/260/2021/CERC

Dated: 14th March, 2022

Preamble

Whereas it is necessary to provide for a regulatory mechanism for treatment and settlement of deviation from schedule of drawal or injection of electricity in the interest of reliability, security and stability of the grid, it is hereby specified as follows:

NOTIFICATION

No. L-1/260/2021/CERC - In exercise of the powers conferred under Section 178 read with clauses (c) and (h) of sub-section (1) of Section 79 of the Electricity Act, 2003 (36 of 2003), and all other powers enabling it in this behalf, and after previous publication, the Central Electricity Regulatory Commission hereby makes the following regulations, namely:

1. Short title and commencement

- (1) These regulations may be called the Central Electricity Regulatory Commission (Deviation Settlement Mechanism and Related Matters) Regulations, 2022.
- (2) These regulations shall come into force on such date as may be notified by the Commission separately.

2. Objective

These regulations seek to ensure, through a commercial mechanism that users of the grid do not deviate from and adhere to their schedule of drawal and injection of electricity in the interest of security and stability of the grid.

3. Definitions and Interpretation

- (1) In these regulations, unless the context otherwise requires,-
 - (a) ‘**Act**’ means the Electricity Act, 2003 (36 of 2003);
 - (b) ‘**actual drawal**’ in a time block means the electricity drawn by a buyer, measured by the interface meters;
 - (c) ‘**actual injection**’ in a time block means the electricity injected by the seller, measured by the interface meters;
 - (d) ‘**Ancillary Services**’ means the Ancillary Services as defined in the Ancillary Services Regulations;

(e) **‘Ancillary Services Regulations’** means the Central Electricity Regulatory Commission (Ancillary Services Operations) Regulations, 2015 as amended from time to time and shall include any re-enactment thereof;

(f) **‘Area Clearing Price’ or ‘ACP’** means the price of electricity contract for a time-block transacted on a Power Exchange after considering all valid buy and sale bids in particular area(s) after market-splitting;

(g) **‘Available Capacity’** for generating station based on wind or solar or hybrid of wind-solar resources which are regional entities, is the cumulative capacity rating of wind turbines or solar inverters that are capable of generating power in a given time block;

(h) **‘Buyer’** means a person purchasing electricity through a transaction scheduled in accordance with the Grid Code;

(i) **‘Commission’** means the Central Electricity Regulatory Commission referred to in sub-section (1) of Section 76 of the Act;

(j) **‘Contract rate’** means the tariff for sale or purchase of power, as determined under Section 62 or adopted under Section 63 or approved under Section 86(1)(b) of the Act by the Appropriate Commission or the price as discovered in the Power Exchange, as the case may be;

(k) **‘Deviation’** in a time block for a seller of electricity means its total actual injection minus its total scheduled generation; and for a buyer of electricity means its total actual drawal minus its total scheduled drawal, and shall be computed as per Regulation 6 of these regulations;

(l) **‘Deviation and Ancillary Service Pool Account’** means the Account to be maintained and operated by the concerned Regional Load Despatch Centre in each region as per Regulation 9 of these regulations;

(m) **‘General seller’** means a seller in case of a generating station based on other than wind or solar or hybrid of wind-solar resources;

(n) **‘Grid Code’** means the Grid Code specified by the Commission under clause (h) of sub-section (1) of Section 79 of the Act;

(o) **‘Interface meters’** means interface meters as defined under the Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006, as amended from time to time and any re-enactment thereof;

(p) **‘Load Despatch Centre’** means National Load Despatch Centre, Regional Load Despatch Centre or State Load Despatch Centre, as the case may be;

(q) **‘Normal Rate of Charges for Deviation’** means the charges for deviation (in paise/kWh) as referred to in Regulation 7 of these regulations;

(r) **‘Open Access Regulations’** means the Central Electricity Regulatory Commission (Open Access in inter-State Transmission) Regulations, 2008 as amended from time to

time and shall include any re-enactment thereof;

(s) **‘Regional Entity’** means a person whose metering and energy accounting are done at the regional level by Regional Load Despatch Centre;

(t) **‘Renewable Rich State’** or **‘RE-rich State’** means a State whose combined installed capacity of solar and wind generating stations under the control area of the State is 1000 MW or more;

(u) **‘Reference Charge Rate’** means (i) in respect of a general seller whose tariff is determined under Section 62 or Section 63 of the Act, Rs/ kWh energy charge as determined by the Appropriate Commission, or (ii) in respect of a general seller whose tariff is not determined under Section 62 or Section 63 of the Act, the daily weighted average ACP of the Day Ahead Market segments of all the Power Exchanges, as the case may be;

(v) **‘RLDC Fees and Charges’** means the fees and charges as specified under the Central Electricity Regulatory Commission (Fees and Charges of Regional Load Despatch Centre and other related matters) Regulations, 2019 as amended from time to time and shall include any re-enactment thereof;

(w) **‘Run-of-River Generating Station’** or **‘RoR generating station’** means a hydro generating station which does not have upstream pondage;

(x) **‘Scheduled generation’** or **‘Scheduled injection’** for a time block or any period means the schedule of generation or injection in MW or MWh ex-bus including the schedule for Ancillary Services given by the concerned Load Despatch Centre;

(y) **‘Scheduled drawal’** for a time block or any period means the schedule of drawal in MW or MWh ex-bus including the schedule for Ancillary Services given by the concerned Load Despatch Centre;

(z) **‘Seller’** means a person, including a generating station, supplying electricity through a transaction scheduled in accordance with the Grid Code;

(aa) **‘Time Block’** means the time block as defined in the Grid Code;

(bb) **‘WS seller’** means a seller in case of a generating station based on wind or solar or hybrid of wind-solar resources.

(2) Save as aforesaid and unless repugnant to the context or the subject matter otherwise requires, words and expressions used in these regulations and not defined, but defined in the Act, or any other regulation of this Commission shall have the meaning assigned to them respectively in the Act or any other regulation.

4. Scope

These regulations shall be applicable to all grid connected regional entities and other entities engaged in inter-State purchase and sale of electricity.

5. Adherence to Schedule and Deviation

- (1) For a secure and stable operation of the grid, every grid connected regional entity shall adhere to its schedule as per the Grid Code and shall not deviate from its schedule.
- (2) Any deviation shall be managed by the Load Despatch Centre as per the Ancillary Services Regulations, and the computation, charges and related matters in respect of such deviation shall be dealt with as per the following provisions of these regulations.

6. Computation of Deviation

- (1) Deviation in a time block for general sellers shall be computed as follows:

Deviation-general seller (in MWh) = [(Actual injection in MWh) – (Scheduled generation in MWh)].

Deviation-general seller (in %) = $100 \times \frac{[(\text{Actual injection in MWh}) - (\text{Scheduled generation in MWh})]}{[(\text{Scheduled generation in MWh})]}$.

- (2) Deviation in a time block for WS sellers shall be computed as follows:

Deviation-WS seller (in MWh) = [(Actual Injection in MWh) – (Scheduled generation in MWh)].

Deviation-WS seller (in %) = $100 \times \frac{[(\text{Actual Injection in MWh}) - (\text{Scheduled generation in MWh})]}{[(\text{Available Capacity})]}$.

- (3) Deviation in a time block for buyers shall be computed as follows:

Deviation- buyer (in MWh) = [(Actual drawal in MWh) – (Scheduled drawal in MWh)].

Deviation- buyer (in %) = $100 \times \frac{[(\text{Actual drawal in MWh}) - (\text{Scheduled drawal in MWh})]}{[(\text{Scheduled drawal in MWh})]}$.

7. Normal Rate of Charges for Deviations

- (1) The normal rate of charges for deviation for a time block shall be equal to the Weighted Average Ancillary Service Charge (in paise/kWh) computed based on the total quantum of Ancillary Services deployed and the net charges payable to the Ancillary Service Providers for all the Regions for that time block:

Provided that for a period of one year from the date of effect of these regulations or such further period as may be notified by the Commission, the normal rate of charges for deviation for a time block shall be equal to the highest of [the weighted average ACP of the Day Ahead Market segments of all the Power Exchanges; or the weighted average ACP of the Real Time Market segments of all the Power Exchanges; or the Weighted Average Ancillary Service Charge of all the regions] for that time block:

Provided further that in case of non-availability of ACP for any time block on a given day, ACP for the corresponding time block of the last available day shall be considered:

(2) The normal rate of charges for deviation shall be rounded off to the nearest two decimal places.

8. Charges for Deviation

(1) Charges for deviation in a time block by a seller shall be payable by such seller as under:

Entity	Charges for deviation payable to Deviation and Ancillary Service Pool Account	
Seller	Deviation by way of over injection	Deviation by way of under injection
For a general seller other than an RoR generating station or a generating station based on municipal solid waste	<p>(i) Zero up to [2% <i>Deviation-general seller (in %)</i>];</p> <p>Provided that such seller shall be paid back for over injection @ the reference charge rate for deviation up to [2% <i>Deviation-general seller (in %)</i>];</p> <p>and</p> <p>(ii) @ 10% of the normal rate of charges for deviation beyond [2% <i>Deviation-general seller (in %)</i>].</p>	<p>(i) @ the reference charge rate up to [2% <i>Deviation-general seller (in %)</i>];</p> <p>(ii) @ 120% of the normal rate of charges for deviation beyond [2% <i>Deviation-general seller (in %)</i>] and up to [10% <i>Deviation-general seller (in %)</i>];</p> <p>and</p> <p>(iii) @ 150% of the normal rate of charges for deviation beyond [10% <i>Deviation-general seller (in %)</i>].</p>
For a general seller being an RoR generating station	<p>Zero:</p> <p>Provided that such seller shall be paid back for over injection up to [2% <i>Deviation-general seller (in %)</i>] @ the reference charge rate.</p>	<p>(i) @ the reference charge rate up to [2% <i>Deviation-general seller (in %)</i>];</p> <p>(ii) @ normal rate of charges for deviation beyond [2% <i>Deviation-general seller (in %)</i>] and up to [10% <i>Deviation-general seller (in %)</i>];</p> <p>and</p> <p>(iii) @ 110% of the normal rate of charges for deviation beyond [10% <i>Deviation-general seller (in %)</i>].</p>

<p>For a general seller being a generating station based on municipal solid waste</p>	<p>Zero:</p> <p>Provided that such seller shall be paid back for over injection up to [20% Deviation-general seller (in %)] @ contract rate, or in the absence of a contract rate, @ the weighted average ACP of the Day Ahead Market segments of all Power Exchanges for the respective time block.</p>	<p>(i) Zero up to [20% Deviation-general seller (in %)]:</p> <p>Provided that such seller shall pay back for the shortfall in energy against its schedule in any time block due to under injection up to [20% Deviation-general seller (in %)] @ 50% of the contract rate, or in the absence of a contract rate, @ 50% of the weighted average ACP of the Day Ahead Market segments of all Power Exchanges for the respective time block;</p> <p>and</p> <p>(ii) @ normal rate of charges for deviation beyond [20% Deviation-general seller (in %)].</p>
<p>For WS seller</p>	<p>Zero:</p> <p>Provided that such seller shall be paid back for over injection as under:</p> <p>(i) @ contract rate, or in the absence of a contract rate, @ the weighted average ACP of the Day Ahead Market segments of all Power Exchanges for the respective time block, up to [5% Deviation -WS seller (in %)];</p> <p>and</p> <p>(ii) @ 90% of the contract rate, or in the absence of a contract rate, @ 90% of the weighted average ACP of the Day Ahead Market segments of all Power Exchanges for the respective time block for deviation beyond [5% Deviation-WS seller (in %)] and up to [10% Deviation-WS seller (in %)].</p>	<p>(i) Zero up to [10% Deviation-WS seller (in %)];</p> <p>and</p> <p>(ii) @ 10% of the normal rate of charges for deviation beyond [10% Deviation-WS seller (in %)]:</p> <p>Provided that such seller shall pay back for the total shortfall in energy against its schedule in any time block due to under injection, @ the contract rate, or in the absence of a contract rate, @ the weighted average ACP of the Day Ahead Market segments of all Power Exchanges, for the respective time block.</p>

(2) Charges for deviation in a time block by a buyer shall be payable by such buyer as under:

Entity	Charges for deviation payable to Deviation and Ancillary Service Pool Account	
Buyer	Deviation by way of under drawal	Deviation by way of over drawal
Buyer (other than the buyer with schedule less than 400 MW and the RE-rich State)	<p>Zero:</p> <p>Provided that such buyer shall be paid back for under drawal as under:</p> <p>(i) @ 90% of normal rate of charges, for deviation up to [10% Deviation-buyer (in %) or 100 MW Deviation-buyer (in MWh) in a time block, whichever is lower];</p> <p>and</p> <p>(ii) @ 50% of normal rate of charges, for deviation beyond [10% Deviation-buyer (in %) or 100 MW Deviation-buyer (in MWh) in a time block, whichever is lower] and up to [15% Deviation-buyer (in %) or 200 MW Deviation-buyer (in MWh) in a time block, whichever is lower].</p>	<p>(i) @ normal rate of charges for deviation up to [10% Deviation-buyer (in %) or 100 MW Deviation-buyer (in MWh) in a time block, whichever is lower];</p> <p>(ii) @ 120% of normal rate of charges for deviation beyond [10% Deviation-buyer (in %) or 100 MW Deviation-buyer (in MWh) in a time block, whichever is lower] and up to [15% Deviation-buyer (in %) or 200 MW Deviation-buyer (in MWh) in a time block, whichever is lower];</p> <p>and</p> <p>(iii) @ 150% of normal rate of charges for deviation beyond [15% Deviation-buyer (in %) or 200 MW Deviation-buyer (in MWh) in a time block, whichever is lower].</p>
Buyer (with schedule up to 400 MW)	<p>Zero:</p> <p>Provided that such buyer shall be paid back for under drawal @ 90% of normal rate of charges for deviation up to [20% Deviation-buyer (in %) or 40 MW Deviation-buyer (in MWh) in a time block, whichever is lower].</p>	<p>(i) @ normal rate of charges for deviation up to [20% Deviation-buyer (in %) or 40 MW Deviation-buyer (in MWh) in a time block, whichever is lower];</p> <p>and</p> <p>(ii) @ 120% of normal rate of charges for deviation beyond [20% Deviation-buyer (in %) or 40 MW Deviation-buyer (in MWh) in a time block, whichever is lower].</p>

<p>Buyer (being an RE Rich State)</p>	<p>Zero:</p> <p>Provided that such buyer shall be paid back for under drawal as under:</p> <p>(i) @ 90% of normal rate of charges for deviation up to [10% Deviation-buyer (in %) or 200 MW Deviation-buyer (in MWh) in a time block, whichever is lower];</p> <p>and</p> <p>(ii) @ 50% of normal rate of charges for deviation beyond [10% Deviation-buyer (in %) or 200 MW Deviation-buyer (in MWh) in a time block, whichever is lower] and up to [15% Deviation-buyer (in %) or 300 MW Deviation-buyer (in MWh) in a time block, whichever is lower].</p>	<p>(i) @ normal rate of charges for deviation up to [10% Deviation-buyer (in %) or 200 MW Deviation-buyer (in MWh) in a time block, whichever is lower];</p> <p>(ii) @ 120% of normal rate of charges for deviation beyond [10% Deviation-buyer (in %) or 200 MW Deviation-buyer (in MWh) in a time block, whichever is lower] and up to [15% Deviation-buyer (in %) or 300 MW Deviation-buyer (in MWh) in a time block, whichever is lower];</p> <p>and</p> <p>(iii) @ 150% of normal rate of charges for deviation beyond [15% Deviation-buyer (in %) or 300 MW Deviation-buyer (in MWh) in a time block, whichever is lower].</p>
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(3) (a) The charges for deviation for injection of infirm power shall be zero.

(b) The charges for deviation for drawal of start-up power before COD of a generating unit or for drawal of power to run the auxiliaries during shut-down of a generating station shall be payable at the normal rate of charges for deviation.

(4) The charges for inter-regional deviation and for deviation in respect of cross-border transactions, caused by way of over-drawal or under-injection shall be payable at the normal rate of charges for deviation.

9. Accounting of Charges for Deviation and Ancillary Service Pool Account

(1) By every Thursday, the Regional Load Despatch Centres shall provide the data for deviation calculated as per Regulation 6 of these regulations, for the previous week ending on Sunday mid-night to the Secretariat of the respective Regional Power Committees.

(2) After receiving the data for deviation from the Regional Load Despatch Centre, the Secretariat of the Regional Power Committee shall prepare and issue the statement of charges for deviation prepared for the previous week, to all regional entities by ensuing Tuesday:

Provided that transaction-wise DSM accounting for intra-State entities shall not be carried out at the regional level.

- (3) Separate books of accounts shall be maintained for the principal component and interest component of charges for deviation by the Secretariat of the Regional Power Committees.

- (4) There shall be a Deviation and Ancillary Service Pool Account to be maintained and operated by the Regional Load Despatch Centre for the respective region:

Provided that the Commission may by order direct any other entity to operate and maintain the Deviation and Ancillary Service Pool Account.

- (5) The Deviation and Ancillary Service Pool Account shall receive credit for:

- (a) payments on account of charges for deviation referred to in Regulation 8 of these regulations and the late payment surcharge as referred to in Regulation 10 of these regulation;

- (b) payments made by:

- (i) SRAS Provider for the SRAS-Down despatched under the Ancillary Services Regulations;
- (ii) TRAS Provider for the TRAS-Down despatched under the Ancillary Services Regulations; and
- (iii) such other charges as may be notified by the Commission.

- (6) Deviation and Ancillary Service Pool Account shall be charged for:

- (a) payment to seller for over injection as referred to in clause (1) of Regulation 8 of these regulations;
- (b) payment to buyer for under drawal as referred to in clause (2) of Regulation 8 of these regulations;
- (c) the full cost of despatched SRAS-Up including the variable charge or the energy charge or the compensation charge, as the case may be, for every time block on a regional basis as well as the incentive for SRAS, payable to the concerned SRAS Provider as referred in the Ancillary Services Regulations;
- (d) the full cost towards TRAS-Up including the charges for the quantum cleared and despatched and the commitment charge for the quantum cleared but not despatched as referred in the Ancillary Services Regulations; and
- (e) such other charges as may be notified by the Commission.

- (7) In case of deficit in the Deviation and Ancillary Service Pool Account of a region, surplus amount available in the Deviation and Ancillary Service Pool Accounts of other regions shall be used for settlement of payment under clause (6) of this Regulation:

Provided that in case the surplus amount in the Deviation and Ancillary Service Pool Accounts of all other regions is not sufficient to meet such deficit, the balance amount shall be recovered through the RLDC Fees and Charges.

10. Schedule of Payment of charges for deviation

- (1) The payment of charges for deviation shall have a high priority and the concerned regional entity shall pay the due amounts within 7 (seven) days of the issue of statement of charges for deviation by the Regional Power Committee, failing which late payment surcharge @ 0.04% shall be payable for each day of delay.
- (2) Any regional entity which at any time during the previous financial year fails to make payment of charges for deviation within the time specified in these regulations, shall be required to open a Letter of Credit (LC) equal to 110% of their average payable weekly liability for deviations in the previous financial year in favour of the concerned Regional Load Despatch Centre within a fortnight from the start of the current financial year.
- (3) In case of failure to pay into the Deviation and Ancillary Service Pool Account within 7 (seven) days from the date of issue of statement of charges for deviation, the Regional Load Despatch Centre shall be entitled to encash the LC of the concerned regional entity to the extent of the default and the concerned regional entity shall recoup the LC amount within 3 days.

11. Power to Relax

The Commission may by general or special order, for reasons to be recorded in writing, and after giving an opportunity of hearing to the parties likely to be affected, may relax any of the provisions of these regulations on its own motion or on an application made before it by the affected party.

12. Power to Remove Difficulty

If any difficulty arises in giving effect to these regulations, the Commission may on its own motion or on an application filed by any affected party, issue such practice directions as may be considered necessary in furtherance of the objective of these regulations.

13. Repeal and Savings

- (1) Save as otherwise provided in these regulations, the Central Electricity Regulatory Commission (Deviation Settlement Mechanism and related matters) Regulations, 2014 shall stand repealed from the date of commencement of these Regulations.
- (2) Notwithstanding such repeal, anything done or any action taken or purported to have been done or taken including any procedure, minutes, reports, confirmation or declaration of any instrument executed under the repealed regulations shall be deemed to have been done or taken under the relevant provisions of these regulations.
- (3) On commencement of these regulations, the Regional Deviation Pool Account Fund constituted under the repealed regulations shall be renamed as the Deviation and Ancillary Service Pool Account constituted under these regulations, and
 - (a) all sums of money credited to the Regional Deviation Pool Account Fund shall be deemed as credited to the Deviation and Ancillary Service Pool Account;

(b) all amounts due to and from the said Regional Deviation Pool Account Fund shall be deemed as being due to and from the Deviation and Ancillary Service Pool Account; and

(c) any reference to the Regional Deviation Pool Account Fund shall be construed as reference to the Deviation and Ancillary Service Pool Account.

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