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No. OERC/ENGG.- 01/2026/614
Dt. 20.05.2026

PUBLIC NOTICE

The Commission in exercise of the powers conferred under Section 181 (3) of the Electricity Act, 2003 (36 of 2003) has pre-published the draft OERC (Ancillary Services) Regulations, 2026. The said Regulations is available in Commission's Website www.oriarc.org.

Interested persons may furnish their valuable views/suggestions on the said Regulations to the undersigned by **20.06.2026**. After considering the views and suggestions from the all the stakeholders, the Commission in appropriate case may bring about modification to the draft Regulations and finalize it for publication in the official Gazette.

By order of the Commission

Sd/-

SECRETARY



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**Odisha Electricity Regulatory Commission
Bhubaneswar**

**Odisha Electricity Regulatory Commission
(Ancillary Services) Regulations, 2026**



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NOTIFICATION

The _____, 2026

No. OERC-DIR(E)-01/2026/ _____ - In exercise of powers conferred under Sections 181 (zi) & (zp) of the Electricity Act, 2003 read with clause (c), (h) & (i) of sub-section (1) of section 86 and all other powers enabling it in this behalf, and after previous publication, the Odisha Electricity Regulatory Commission hereby makes the following regulations, namely:

1. Short Title, Extent and Commencement:

- 1.1 These Regulations may be called the Odisha Electricity Regulatory Commission (Ancillary Services) Regulations, 2026.
- 1.2 These Regulations shall be effective from the date of their publication in the Official Gazette of the State of Odisha.

2. Objective:

- 2.1 In order to ensure grid security, it is essential that adequate reserves are maintained locally within State's control area, as stipulated in the Indian Electricity Grid Code or the Odisha Electricity Grid Code. These Regulations aim to provide mechanisms for procurement, deployment and payment of Ancillary Services at the State level for minimizing state deviation and aid State Load Despatch Centre (SLDC) in maintaining the Grid frequency close to 50 Hz and for relieving congestion in the intra-state transmission network, to ensure smooth operation of the power system and safety and security of the State Grid.

3. Definitions:

- 3.1 In these Regulations, unless the context otherwise requires:
 - (1) “Act” means the Electricity Act, 2003 (36 of 2003);
 - (2) “AGC Signal” means automated signal generated from the Nodal Agency through which the generation of a Secondary Reserve Ancillary Services (SRAS) Provider is adjusted;
 - (3) “Ancillary Service” or “AS” in relation to power system operation, means the

service necessary to support the grid operation in maintaining power quality, reliability and security of the grid and includes Primary Reserve Ancillary Service, Secondary Reserve Ancillary Service, Tertiary Reserve Ancillary Service, active power support for load following, reactive power support, black start and such other services as defined in the Grid Code;

- (4) **“Area Control Error” or “ACE”** means the instantaneous difference between the net actual interchange and net scheduled interchange of the State as an area, taking into account the effects of frequency bias and correction of measurement errors;
- (5) **“AS Capacity Obligation”** is the capacity signaled for despatch by the Nodal Agency under SRAS or the capacity procured by the Nodal Agency under TRAS;
- (6) **“Automatic Generation Control” or “AGC”** means a mechanism through which the generation of the SRAS Provider in a control area is automatically adjusted in response to the Secondary Control Signal;
- (7) **“Commission”** means the Odisha Electricity Regulatory Commission referred to in Sub-section (1) of Section 82 of the Act;
- (8) **“Commitment charge”** means the amount payable to the TRAS Provider for the quantum of TRAS-Up cleared in the Day Ahead AS Market or the Real Time AS Market, as the case may be, but not instructed for despatch.
- (9) **“Compensation Charge”** means the price declared by an SRAS Provider other than a generating station whose tariff is determined under Section 62 of the Act for participation in SRAS;
- (10) **“Demand Response”** means variation in electricity drawal by the Licensee or an Open Access Customer, as per the system requirement identified by the Nodal Agency;
- (11) **“Deviation & Ancillary Service Pool Account”** means the account to be maintained and operated by State Load Despatch Centre (SLDC) referred to in the DSM Regulations, or any such Account as may be specified by the Commission;
- (12) **“DSM Regulations”** means the Odisha Electricity Regulatory Commission (Deviation Settlement Mechanism and Related Matters) Regulations, 2025 and as amended from time to time.
- (13) **“Energy-Down bid”** means the bid in Rs./MWh for the offered quantum submitted by the TRAS-Down Provider to pay to the State Deviation Pool Account;

- (14) **“Energy Storage”** in relation to the electricity system, means a facility where electrical energy is converted into any other form of energy which can be stored, and subsequently reconverted into electrical energy;
- (15) **“Energy-Up bid”** means the bid in Rs./MWh for the offered quantum submitted by the TRAS-Up Provider;
- (16) **“Flat Tie-line Control”** means a mechanism of correcting Area Control Error (ACE) by factoring in only the deviation of net actual interchange from the net scheduled interchange at the State level, and ignoring frequency deviation;
- (17) **“Frequency Response Characteristics”** means an automatic, sustained change in the power consumption by load or output of the generators that occurs immediately after a change in the load-generation balance of a control area and which is in a direction to oppose a change in frequency;
- (18) **“Gate Closure”** means the timeline as defined in IEGC;
- (19) **“Indian Electricity Grid Code” or “IEGC”** means the Regulations specified by the Central Electricity Regulatory Commission under Clause (h) of Sub-section (1) of Section 79 read with Clause (g) of Sub-section (2) of Section 178 of the Act;
- (20) **“OGC”** means the Grid Code specified by the Odisha Electricity Regulatory Commission under clause (h) of Sub-section (1) of Section 86 of the Electricity Act, 2003;
- (21) **“Nodal Agency”** means the State Load Despatch Centre which shall be responsible for the implementation of the Ancillary Services at the intra-State level;
- (22) **“Primary Reserve Ancillary Service” or “PRAS”** means the Ancillary Service which immediately comes into service through the governor action of the generator or through any other resource in the event of a sudden change in frequency;
- (23) **“Secondary Control Signal”** means automated signal generated from the Nodal Agency through which injection or drawal or consumption of an SRAS provider is adjusted, and includes AGC signal;
- (24) **“Secondary Reserve Ancillary Service” or “SRAS”** means the Ancillary Service comprising SRAS-Up and SRAS-Down, which is activated by the Nodal Agency and deployed through secondary control signal;
- (25) **“Secondary Reserve Ancillary Service Provider” or “SRAS Provider”** means an entity that provides SRAS-Up or SRAS-Down in accordance with these Regulations;

- (26) **“SRAS-Down”** means an SRAS that reduces active power injection or increases drawl or consumption, as the case may be, in response to the secondary control signal from the Nodal Agency;
- (27) **“SRAS-Up”** means an SRAS that increases active power injection or decreases drawl or consumption, as the case may be, in response to a secondary control signal from the Nodal Agency;
- (28) **“Tariff Regulations”** mean the Regulations specified by the Commission from time to time under sub- section (1) and (2) of Section 181 read with Section 61 of the Act;
- (29) **“Tertiary Reserve Ancillary Service” or “TRAS”** means the Ancillary Service which consists of a spinning reserve or non-spinning reserve, which responds to despatch instructions from the Nodal Agency;
- (30) **“Tie-Line Bias Control”** means a mechanism of correcting ACE by factoring in deviation of net actual interchange from the net scheduled interchange at the State level as well as frequency deviation;
- (31) **“TRAS-Down”** means a TRAS that reduces active power injection or increases drawl or consumption, as the case may be, in response to despatch instructions of the Nodal Agency;
- (32) **“TRAS-Down Provider”** means an entity which provides TRAS-Down in accordance with these regulations;
- (33) **“TRAS-Up”** means a TRAS that increases active power injection or decreases drawl or consumption, as the case may be, in response to despatch instructions of the Nodal Agency;
- (34) **“TRAS-Up Provider”** means an entity which provides TRAS-Up in accordance with these regulations; and
- (35) **“Un-Requisitioned Surplus” or “URS”** means the capacity in a generating station that has not been requisitioned and is available for despatch, and is computed as the difference between the declared capacity of the generating station and its total schedule.

3.2 Words and expressions used and not defined in these Regulations but defined in the Act or any other Regulations of the Commission, shall have the same meaning as assigned to them in the Act or any other Regulations of the Commission.

3.3 Reference to any Act, Rules and Regulations shall include amendments or consolidation or re- enactment thereof.

4. Scope:

4.1 These Regulations shall apply to intra-State entities, including entities having energy storage resources and entities capable of providing demand response qualified to provide Ancillary Services and other entities as provided in these Regulations.

5. Types of Ancillary Services:

5.1 There shall be the following types of Ancillary Services, namely:

- (a) Primary Reserve Ancillary Service (PRAS);
- (b) Secondary Reserve Ancillary Service (SRAS);
- (c) Tertiary Reserve Ancillary Service (TRAS); and
- (d) Any other Ancillary Services including but not limited to voltage control Ancillary Services and Black Start Ancillary Services as specified in the OGC.

5.2 The mechanism of procurement, deployment and payment of SRAS and TRAS as referred to in Sub- clauses (b) & (c) of Clause (5.1) of this Regulation shall be as specified in these Regulations.

6. Estimation of Reserves by the Nodal Agency:

6.1 The Nodal Agency shall estimate the quantum of the requirement of SRAS and TRAS at the State level for such period and based on such methodology as specified in the detailed procedure for estimation of the requirement of SRAS and TRAS and publish the same on its website.

6.2 The Nodal Agency shall re-assess the quantum of the requirement of SRAS and TRAS on day- ahead basis and incremental requirement, if any, on real-time basis and update the same on its website.

6.3 The requirement of SRAS shall be estimated at the State level.

Part I

Secondary Reserve Ancillary Service (SRAS)

7. Eligibility for an SRAS Provider:

7.1 A generating station or an entity having energy storage resources or an entity capable of providing demand response, on a standalone or aggregated basis, connected to the intra-State transmission system, shall be eligible to provide Secondary Reserve Ancillary Service, as an SRAS Provider, if it:

- (a) has a bi-directional communication system with SLDC, as per the requirements

- stipulated in the Detailed Procedure by the Nodal Agency;
- (b) is AGC-enabled, in case of a generating station or an energy storage system;
- (c) can provide a minimum response of 1 MW;
- (d) has metering and Supervisory Control and Data Acquisition (SCADA) telemetry in place for monitoring and measurement of energy delivered under SRAS, as stipulated in the Detailed Procedure by the Nodal Agency; and
- (e) is capable of responding to SRAS signal within 30 seconds and providing the entire SRAS capacity obligation within fifteen (15) minutes and sustaining at least for the next thirty (30) minutes.

8. Activation and Deployment of SRAS:

8.1 SRAS shall be activated and deployed by the Nodal Agency on account of the following events to minimize the deviation of the State and helping in maintaining grid frequency within the allowable band or relieving congestion in the Intra-State transmission system or replenishing primary reserves:

- (a) Considering the State as a control area, the Area Control Error (ACE) of the State, going beyond the minimum threshold limit of ± 10 MW or such other limit as may be notified by the Commission based on a review of the performance of SRAS; and
- (b) Such other events may be specified in the OGC.

8.2 The Area Control Error (ACE) for the State would be auto-calculated at the control center of the Nodal Agency based on telemetered values, and the external inputs referred to in clauses (8.3) and (8.4) of this Regulation, as per the following formula:

$$ACE = (I_a - I_s) - 10 * B_f * (F_a - F_s) + Offset$$

Where,

I_a = Actual net interchange in MW (positive value for export)

I_s = Scheduled net interchange in MW (positive value for export)

B_f = Frequency Bias Coefficient in MW/0.1 Hz (negative value)

F_a = Actual system frequency in Hz

F_s = Schedule system frequency in Hz

Offset = Provision for compensating for measurement error

8.3 Frequency Bias Coefficient (B_f) shall be assessed and declared by the Nodal Agency as per the Detailed Procedure and it shall normally be based on median frequency response characteristic of the State during previous financial year and refined from time to time.

8.4 The offset shall be used to account for measurement errors and shall be decided by the

Nodal Agency for the State.

- 8.5 Nodal Agency may operate SRAS in any of the two control modes namely, tie-line bias control mode or flat tie-line control mode depending on grid requirements.

9. Procurement of SRAS:

- 9.1 SRAS shall be procured at the State level by the Nodal Agency through the mechanism as specified in this Regulation.

Provided that the Commission based on review of the operation of SRAS, may direct procurement of SRAS through market-based bidding mechanism to be specified separately.

- 9.2 An SRAS Provider willing to participate in SRAS shall be required to provide standing consent for a minimum period of time of 7 (seven) days to the Nodal Agency for participation, which shall remain valid till it is modified or withdrawn:

Provided that standing consent except in case of forced outage cannot be modified or withdrawn without giving notice of at least forty-eight hours:

Provided further that in case the capacity earmarked for SRAS is not called for and at the same time there is a requirement of power by the beneficiary, the same may be released by the nodal agency at its sole discretion based on a written requisition for benefit of the beneficiary.

- 9.3 The SRAS Providers that are generating stations shall be required to declare in such time interval as may be stipulated in the Detailed Procedure, the technical parameters as required by the Nodal Agency, including but not limited to installed capacity, declared capacity, maximum possible generation (Pmax), schedule, Technical Minimum, Ramp up and Ramp down capability.

- 9.4 The SRAS Providers other than the generating stations shall be required to declare the technical requirements as may be stipulated in the Detailed Procedure.

- 9.5 The SRAS Providers that are generating stations whose tariff is determined under Section 62 of the Act, shall declare their energy charge upfront on monthly basis in the manner as stipulated in the Detailed Procedure.

- 9.6 The SRAS Providers other than those covered under Clause (9.5) of this Regulation, shall be required to declare a single rate of the compensation charges upfront on a monthly basis in the manner as stipulated in the Detailed Procedure.

- 9.7 The Nodal Agency, based on the estimate of the SRAS requirement as per Regulation 6 of these Regulations, shall ascertain the availability of adequate SRAS capacity by factoring in

the declarations made by the SRAS Providers under this Regulation, on a day-ahead basis and on real-time basis before the gate closure of the Real Time Market after reviewing the same on a real-time basis.

9.8 In the case of the generating stations whose tariff is determined by the Commission under Section 62 of the Act, the Nodal Agency shall identify the generating stations for providing SRAS, in the following manner, namely:

(a) On a day-ahead basis, based on the un-requisitioned capacity available after the schedule has been communicated at 23:00 hrs for the next day; and

(b) On a real-time basis after gate closure for incremental SRAS requirements:

Provided that the capacity so identified shall be considered for SRAS based on the actual availability of such capacity.

9.9 There shall not be any commitment charge for the SRAS Providers for the capacity ascertained under Clause (9.7) or identified under Clause (9.8) of this Regulation, but not signaled for SRAS:

Provided that the Commission based on a review of the availability and performance of SRAS, may provide through a separate Order in future, a mechanism for the SRAS Providers to commit SRAS capacity in advance, and also for appropriate compensation for such committed SRAS capacity.

10. Selection of SRAS Providers and Despatch of SRAS:

10.1 SRAS Provider shall be selected by the Nodal Agency for providing SRAS-Up or SRAS-Down based on the Custom Participation Factor.

10.2 The Custom Participation Factor for each SRAS Provider shall be determined by the Nodal Agency based on the following criteria:

(a) Rate Participation Factor (Ramping capability in MW/min); and

(b) Cost Factor (energy charge or compensation charge, as the case may be).

10.3 The Custom Participation Factor for SRAS-Up shall be directly proportional to the normalised Rate Participation Factor and inversely proportional to the normalised Cost Factor. The Custom Participation Factor for SRAS-Down shall be directly proportional to the product of the normalised Rate Participation Factor and normalised Cost Factor.

10.4 Based on the methodology as provided in clauses (2) and (3) of this Regulation, Custom Participation Factor shall be calculated which shall be normalised to determine the participation of each SRAS Provider.

10.5 SRAS signal shall be allocated among the SRAS Providers of the State to meet the

SRAS requirement of the system based on the normalized Custom Participation Factor subject to the ramp limited resources available with the SRAS Provider(s).

- 10.6 The details of Custom Participation Factor based on the principles provided in this Regulation shall be stipulated in the Detail Procedure.
- 10.7 SRAS shall be dispatched at the State level through secondary control signals by the Nodal Agency.
- 10.8 The secondary control signal for SRAS-Up and SRAS-Down shall be sent to the control center of the SRAS Provider every 4 seconds (or any other interval decided by the Commission) by the Nodal agency. SRAS Provider shall allow its control center to follow the secondary control signal for SRAS-Up or SRAS-Down automatically without manual intervention.
- 10.9 The SRAS Provider shall increase or decrease active power injection or increase or decrease drawal or consumption, as the case may be, as per the automatic signal from the Nodal Agency.
- 10.10 The SRAS Provider shall share real-time data with SLDC as stipulated in the Detailed Procedure.
- 10.11 The average of SRAS-Up and SRAS-Down MW data shall be calculated by the Nodal Agency for every 5- minute time block in absolute terms using the archived SCADA data at the Nodal Agency and reconciled with the data received at the control center of the SRAS Provider and shall be used for payment of energy charge or compensation charge, as the case may be, to the SRAS Provider as per Regulation 11 of these Regulations.

11. Payment of SRAS:

- 11.1 SRAS Provider shall be paid from the State Deviation & Ancillary Service Pool Account at the rate of their energy charge or compensation charge, as declared by the SRAS Provider, as the case may be, for the SRAS-Up MW quantum despatched for every 15-minute time block, calculated as per clause 10.6 of Regulation 10 of these Regulations.
Provided that the energy charges or compensation charges, as declared by the SRAS Providers as applicable at the time of delivery of the SRAS shall be used to calculate the payment of SRAS by the providers and no retrospective settlement of energy charges or compensation charges shall be undertaken even if the said charges are revised at a later date
- 11.2 SRAS Provider shall pay back to the State Deviation Pool Account, at the rate of their

energy charge or compensation charge, as the case may be, for the SRAS-Down MW quantum dispatched for every 15- minute time block, calculated as per clause 10.6 of Regulation 10 of these Regulations.

- 11.3 No incentive shall be provided to SRAS Provider during the introductory stage of SRAS implementation. However, the Commission after the introduction of SRAS in the State and after analyzing the financial impact thereon, shall introduce a scheme for providing incentive to SRAS provider at a later stage through a separate order.
- 11.4 Methodology of computation under clauses (11.1) to (11.3) of this Regulation shall be stipulated in the Detailed Procedure.

12. Performance of SRAS Provider:

- 12.1 The actual response of SRAS Provider against the secondary control signals from the Nodal Agency to the control center of the SRAS Provider shall be monitored by the Nodal Agency, as per the procedure stipulated in the Detailed Procedure.
- 12.2 All measurements of secondary control signals from the Nodal Agency to the control center of the SRAS Provider and the actual response of SRAS Provider shall be carried out on post-facto basis using SCADA data. Performance of the SRAS Provider shall be measured by the Nodal Agency by comparing the actual response against the secondary control signals for SRAS-Up and SRAS-Down sent every 4 seconds (or any other interval decided by the Commission) to the control center of the SRAS Provider measured using 5- minute average data. The methodology for measurement of the performance of SRAS Provider based on this Regulation shall be stipulated in the Detailed Procedure.
- 12.3 SRAS Provider shall be eligible for incentive based on the performance measured as per Clause 12.2 and the 5-minute MWh data calculated for SRAS-Up and SRAS-Down as per Clause 10.11 of these Regulations and aggregated over a day as under:

Actual performance vis-à-vis secondary control signal for an SRAS Provider	Incentive Rate (paise/kWh)
95 % and above	(+) 50
75 % to below 95%	(+) 40
60 % to below 75%	(+) 30
50% to below 60%	(+) 20
20 % to below 50%	(+) 10
Below 20%	0

12.4 Incentive payments shall be calculated

- (a) for each SRAS Provider, being a generating station, for energy supplied for a day as follows:

$$\text{Incentive for SRAS Provider} = \text{Actual Response (MWh)} \times (1 - \text{NAC}) \times \text{Incentive Rate}$$

- (b) for each SRAS Provider being an entity other than generating station as follows:

$$\text{Incentive for SRAS Provider} = \text{Actual Response (MWh)} \times \text{Incentive Rate}$$

Where,

'Actual Response' is the actual energy output (in MWh) of the SRAS Provider communicated to the Nodal Agency aggregated over 5 minutes in absolute terms and then summed for a day.

'NAC' is percentage Normative Auxiliary Energy Consumption for similar class of generating stations, as specified in the Tariff Regulations.

'Incentive Rate' in Paise/kWh is the incentive rate applicable based on the performance assessment of SRAS Provider.

13. Failure in Performance of SRAS Provider:

- 13.1 Performance below 20% for two consecutive days by an SRAS Provider shall make the SRAS Provider liable for disqualification for participation in SRAS for a week by the Nodal Agency.
- 13.2 Violation of directions of the Nodal agency for SRAS under these Regulations shall make the SRAS providers liable for penalties as per the provisions of the Act.

Part – II

Tertiary Reserves Ancillary Services (TRAS)

14. Eligibility for a TRAS Provider

- 14.1 A generating station or an entity having energy storage resource or an entity capable of providing demand response, on standalone or aggregated basis, connected to inter-State transmission system or intra-State transmission system shall be eligible for participation as TRAS Provider, if
- (a) it is capable of varying its active power output or drawl or consumption, as the case may be, on receipt of despatch instructions from the Nodal Agency; and
- (b) it is capable of providing TRAS within 15 minutes and sustaining the service for at least next 60 minutes.

15. Activation and Deployment of TRAS

15.1 TRAS shall be activated and deployed by the Nodal Agency on account of the following events:

- (a) In case the secondary reserve has been deployed continuously in one direction for fifteen (15) minutes for more than 100 MW, in order to replenish the secondary reserve;
- (b) Such other events as specified in the Grid Code.

16. Procurement of TRAS

16.1 Procurement of TRAS through Day Ahead AS Market and Real Time AS Market shall be undertaken in accordance with the bidding timelines specified in the Grid Code:

Provided that until specific provisions in this regard are specified in the Grid Code, the bidding timelines for Day Ahead AS Market and Real Time AS Market shall be the same as those of the Day Ahead Market for energy and Real Time Market for energy respectively.

16.2 TRAS Requirement: The Nodal Agency shall communicate to the power exchange(s), the quantum of requirement of TRAS-Up and TRAS-Down on day-ahead basis before commencement of the Day Ahead Market and incremental requirement, if any, over and above the procurement in the Day Ahead Market, on real-time basis, before the commencement of the Real Time Market:

Provided that the quantum of requirement on day-ahead basis shall be communicated after considering the TRAS resources likely to be available on real-time basis.

16.3 Sell Bid: The TRAS Providers shall submit bids in the following manner:

- (a) Bids for TRAS-Up and TRAS-Down shall be submitted for each time block or for a minimum of two consecutive time blocks in the Day Ahead AS Market or in the Real Time AS Market.
- (b) For TRAS-Up, Energy-Up bid in Rs./MWh shall be submitted for the offer volume in MW.
- (c) For TRAS-Down, Energy-Down bid in Rs./MWh shall be submitted for the offer volume in MW.

16.4 The capacity offered, as a sell bid for energy and for TRAS from a resource in the same time-block, shall be separate and non-overlapping.

16.5 The capacity offered, as a sell bid in power exchange(s) for providing TRAS-Up or TRAS-Down from a resource in the same time-block, shall be separate and non-

overlapping.

- 16.6 TRAS Provider cleared in the Day Ahead AS Market may place incremental bids in the Real Time AS Market. TRAS Provider not cleared in the Day Ahead AS Market or which has not participated in the Day Ahead AS Market, may also place bids in the Real Time AS Market.
- 16.7 The power exchanges shall collect the bids for TRAS-Up and TRAS-Down and share the same with the Nodal agency for price discovery in terms of Regulation 17 of these regulations.
- 16.8 The Nodal Agency shall stipulate details regarding the protocol for exchange of information between the Nodal Agency and the power exchanges in the Detailed Procedure.

17. Price Discovery of TRAS

Price Discovery for TRAS-Up

- 17.1 The price discovery for TRAS-Up shall be based on the principle of Uniform Market Clearing Price, subject to market splitting in case of congestion.
- 17.2 The highest Energy-Up bid corresponding to the requirement for TRAS-Up as intimated under clause (1) of Regulation 16 of these regulations, shall be the Market Clearing price for Energy-Up in the Day Ahead Ancillary Service Market (MCP-Energy-Up-AS-DAM) or in the Real Time Ancillary Service Market (MCP-Energy-Up-AS-RTM), as the case may be.

Price Discovery for TRAS-Down

- 17.3 The price discovery for TRAS-Down shall be based on the principle of Pay-as-bid.
- 17.4 The Energy-Down bids shall be stacked in a descending order from the highest Energy-Down bid to the lowest Energy-Down bid and the Nodal Agency shall select the TRAS-Down Providers to meet the estimated TRAS requirement in that order.
- 17.5 The Commission may, if considered necessary, provide for a price cap for TRAS.

18. Scheduling and Despatch of TRAS

- 18.1 Scheduling and despatch of TRAS shall be according to the provisions of the Grid Code.
- 18.2 Information in respect of the TRAS-Up and TRAS-Down cleared for the Day Ahead Ancillary Service Market and the Real Time Ancillary Service Market shall be published on the website of the Nodal Agency, and shall be simultaneously

communicated to the concerned power exchanges for onward communication to the selected TRAS providers.

- 18.3 The schedule for TRAS shall become effective from the time block starting 15 minutes after issue of the despatch instruction by the Nodal Agency:

Provided that the Nodal Agency may issue despatch instruction from any time block after the above-mentioned time block, if required, based on the anticipated system conditions.

- 18.4 The Nodal Agency shall deploy the cleared TRAS-Up as under:

(a) In case the actual requirement for deployment of TRAS-Up is equal to the total TRAS-Up cleared in the AS market, the Nodal Agency shall issue despatch instructions to all such TRAS-Up Providers.

(b) In case the actual requirement for deployment of TRAS-Up is less than the total TRAS-Up cleared in the AS market, the Nodal Agency shall issue despatch instructions to the TRAS Providers in the following manner:

(i) In the event of the MCP-Energy-Up-DAM being equal to the MCP-Energy-Up-RTM, TRAS-Up shall be despatched on pro-rata basis;

(ii) In event of the MCP-Energy-Up-DAM and MCP-Energy-Up-RTM not being equal, TRAS-Up with lower MCP-Energy-Up shall be despatched first followed by the TRAS-Up with higher MCP-Energy-Up:

Provided that if the actual requirement of deployment of TRAS-Up is less than the cleared volume in the AS market with lower MCP-Energy-Up, TRAS-Up cleared in the said market shall be despatched on pro-rata basis:

Provided further that if the actual requirement of deployment of TRAS-Up is more than the cleared volume in the AS market with lower MCP-Energy-Up, TRAS-Up cleared in the AS market with lower MCP-Energy-Up shall be despatched in full and the TRAS-Up cleared in the market with higher MCP-Energy-Up shall be despatched on pro-rata basis.

- 18.5 The Nodal Agency shall deploy the cleared TRAS-Down as under:

(a) In case the actual requirement for deployment of TRAS-Down is equal to the total TRAS-Down cleared in the AS market, the Nodal Agency shall issue despatch instructions to all such TRAS-Down Providers.

(b) In case the actual requirement for deployment of TRAS-Down is less than the total TRAS-Down cleared in the AS market, the Nodal Agency shall issue despatch instructions to the TRAS-Down Providers in the descending order of

their Energy-Down bids, so that the selected TRAS-Down Provider with the highest Energy-Down bid shall be despatched first, followed by the TRAS-Down Provider with the next highest Energy-Down bid and so on.

19. Payment for TRAS

- 19.1 TRAS-Up Provider shall receive MCP-Energy-Up, as discovered in the Day Ahead AS Market or the Real Time AS Market, as the case may be, for the quantum of energy instructed to be despatched by the Nodal Agency.
- 19.2 TRAS-Up Provider shall receive commitment charges at the rate of ten percent of the MCP-Energy-Up-AS-DAM or the MCP-Energy-Up-AS-RTM, as the case may be, subject to the ceiling of 20 paise/kWh for the quantum of TRAS-Up cleared in the Day Ahead AS Market or the Real Time AS Market as the case may be, but not instructed to be despatched by the Nodal Agency.
- 19.3 The TRAS-Down Provider shall pay back to the State Deviation Pool Account at the rate of their Energy-Down bid in the Day Ahead AS Market or the Real Time AS Market, as the case may be, for the capacity instructed to be despatched by the Nodal Agency.
- 19.4 In case of forced outage of a generating station or a unit of a TRAS Provider, being a generating station, which has been cleared in the Day Ahead AS Market, such TRAS Provider shall promptly inform the same to the Nodal Agency and the Nodal agency shall procure the corresponding TRAS quantum of power in Real Time AS Market, if required:
Provided that such TRAS Provider shall receive no payment in case of forced outage of a complete station; or receive payments based on the reduced quantum of power in case of forced outage of a unit, as the case may be.

Part- III

Shortfall in procurement of SRAS and TRAS or Emergency Conditions

20. Shortfall in procurement of SRAS and TRAS or Emergency Conditions

In case of shortfall

- 20.1 All generating stations, whose tariff is determined by the Commission under Section 62 of the Act including those having URS power, shall be deemed to be available for use by the Nodal Agency for SRAS or TRAS or both, subject to technical constraints of such generating stations.

- 20.2 The generating stations as referred to in Clause 14.1 of this Regulation, whose URS is despatched as SRAS-Up shall be paid their energy charge in terms of Clause 11.1 of these Regulations.
- 20.3 The generating stations as referred to in Clause 14.1 of these Regulations, if despatched as SRAS-Down shall pay back to the State Deviation & Ancillary Service Pool Account in terms of Clause 11.2 and shall be paid incentive as per Clauses 12.3 & 12.4 of these Regulations.
- 20.4 The generating stations as referred to in Clause 14.1 of these Regulations, whose URS is despatched for TRAS-Up, in the event of short-fall in procurement of TRAS-Up through the Market, shall be paid at the rate of 110% of their energy charges for the quantum of TRAS-Up despatched.
- 20.5 The generating stations as referred to in Clause 14.1 of these Regulation, if despatched for TRAS-Down, in the event of short-fall in procurement of TRAS-Down through the Market, shall pay back at the rate of 90% of their energy charges, corresponding to the quantum of TRAS-Down despatched.

In case of emergency conditions

- 20.6 In case the Nodal Agency requires any generating station to provide Ancillary Services to meet the emergency conditions for reasons of grid security as per the provisions of the Grid Code, such generating station may be compensated at the rate of the energy charge as determined by the Commission under Section 62 of the Act or adopted under Section 63 of the Act or at the rate of compensation charge declared by the AS provider, as the case may be.

Part- IV

Accounting and Settlement of SRAS and TRAS

21. Accounting and Settlement of SRAS and TRAS:

- 21.1 Accounting of SRAS shall be done by the Nodal Agency on a weekly basis, based on Interface meter data.
- 21.2 Accounting of TRAS shall be done by the Regional Power Committee on a weekly basis, based on interface meter data and schedules.
- 21.3 Deviation of AS Provider in every 15-minute time block shall be calculated as under and settled as per the procedure of DSM Regulations:

MWh Deviation for AS Provider = (Actual MWh of AS Provider) – (Scheduled MWh of AS Provider including TRAS MWh despatched) – (SRAS MWh of AS Provider

- despatched)
- 21.4 The State Deviation & Ancillary Services Pool Account shall be charged for:
- (a) the full cost of despatched SRAS-Up including the energy charge or the compensation charge as the case may be, of dispatched SRAS- Up for every time-block on the intra-state basis, payable to the concerned SRAS Provider;
 - (b) the compensation as referred to in the proviso to Clause 9.9 of these Regulations;
 - (c) 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.
- 21.5 The State Deviation & Ancillary Service Pool Account shall receive credits for:
- (a) payments made by SRAS Provider for the SRAS-Down despatched; and
 - (b) payments made by TRAS Provider for the TRAS-Down despatched.
- 21.6 The net of the charges and the credits under Clause 15.3 & 15.4 of these Regulations shall be settled through the charges collected under the DSM Regulations.
- 21.7 Settlement of payment liabilities in respect of the AS providers shall be done directly by the Nodal Agency on a weekly basis.
- 21.8 No retrospective settlement of energy charge or compensation charge, as the case may be, shall be undertaken.
- 21.9 The Nodal Agency shall publish information on its website about SRAS and TRAS procured and scheduled on a weekly basis and submit quarterly detailed feedback reports to the Commission.
- 22. Transmission Charges and Losses for SRAS Provider and TRAS Provider:**
No transmission charges or transmission losses or transmission deviation charges shall be payable for SRAS and TRAS.

Part- V

Miscellaneous

23. Detailed procedure:

- 23.1 The Nodal Agency shall submit the Detailed Procedure through an application along with a gist of application before the Commission for approval within 3 (three) months of notification of these Regulations. Once the application is admitted, the Commission shall ask Nodal Agency to publish the gist of the application within 7 (seven) working

days from date of approval of the gist by the Commission in four widely circulated newspapers (Odia and English) and on website of the Nodal Agency inviting suggestions and objections on the detailed procedure from all the stakeholders including public at large. In the website along with the gist, the concerned application shall also be uploaded with the facility to download those documents by public in pdf and editable word format. Such suggestions and objections shall be submitted to the Nodal Agency within specified time. On receiving stakeholders' suggestions and objections, the Nodal Agency shall finalize the Detailed Procedure and submit to the Commission for approval.

- 23.2 The Detailed Procedure shall contain the operational aspects of SRAS and TRAS including, but not limited to,
- (a) bi-directional communication system as referred to in sub-clause (a) of Clause 7.1 of these Regulations;
 - (b) metering and SCADA telemetry for monitoring and measurement of energy delivered under SRAS as referred to in sub-clause (d) of Clause 7.1 of these Regulations;
 - (c) details of various control modes of operation as mentioned in Clause 8.5 of these Regulations;
 - (d) details regarding the declaration of technical parameters as referred to in Clause 9.3 of these Regulations;
 - (e) technical requirements for SRAS providers as referred to in Clause 9.4 of these Regulations;
 - (f) manner of declaration of the energy charge and the compensation charge, respectively as referred to in Clause 9.5 & 9.6 of these Regulations;
 - (g) details of Custom Participation Factor for allocation of SRAS signal among SRAS Providers as referred to in Clause 10.6 of these regulations;
 - (h) methodology of sharing real time data as referred to in Clause 10.5 of these Regulations;
 - (i) methodology for despatch of SRAS to relieve congestion;
 - (j) methodology of computation for SRAS as referred to in Clause 11.4 of these Regulations;
 - (k) details regarding monitoring of the actual response of SRAS providers as referred to in Clause 12.1 of these Regulations;
 - (l) details of the methodology for measurement of performance of SRAS Provider

- as referred to in Clause 12.2 of these Regulations;
- (m) details of information in respect of the TRAS cleared in the market as referred in Clause 18.2 of these Regulations, and such other information as may be directed by the Commission;
 - (n) other related and incidental matters.

24. Power to Relax:

24.1 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 an interested person.

25. Power to Remove Difficulty:

25.1 If any difficulty arises in giving effect to the provisions of these Regulations, the Commission may on its own motion or on an application filed by any affected party, issue any general or specific directions as may be considered necessary in furtherance of the objective and purpose of these Regulations.

By Order of the Commission

SECRETARY