

|                                                                                                                                     |                                            |                                                                                                       |                                                                                                                                                                |                                  |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <p>भारत सरकार<br/>केंद्रीय विद्युत प्राधिकरण<br/>दक्षिण क्षेत्रीय विद्युत समिति<br/>29, रेसकोर्स क्रॉस रोड<br/>बेंगलूर- 560 009</p> |                                            |  <p>सत्यमेव जयते</p> | <p>Government of India<br/>Central Electricity Authority<br/><b>Southern Regional Power Committee</b><br/>29, Race Course Cross Road<br/>Bengaluru-560 009</p> |                                  |
| Email:mssrpc-ka@nic.in                                                                                                              |                                            | Web site: <a href="http://www.srpc.gov.in">www.srpc.gov.in</a>                                        |                                                                                                                                                                | Phone: 080-22282516              |
| सं/No.                                                                                                                              | SRPC/SE(O)/ 241 <sup>st</sup> OCC/2026-27/ |                                                                                                       | दिनांक/ Date                                                                                                                                                   | <b>31<sup>st</sup> July 2026</b> |

सेवा में / To

संलग्न सूची के अनुसार/As per the list enclosed

विषय: द क्षे वि स की प्रचालन समन्वय उप समिति की 241 वी बैठक की कार्यसूची के संबंध में ।  
 Subject: Agenda for the 241<sup>st</sup> Meeting of Operation Coordination Sub-Committee-reg.

महोदय/महोदया/ Sir/ Madam,

संलग्न, 11 अगस्त 2026 (मंगलवार) को 10:00 बजे से विडियो कॉन्फ्रेंसिंग के माध्यम से होने वाली एस आर पी सी की संचालन समन्वय उप समिति 241 वी बैठक की कार्यसूची । कार्यसूची एस आर पी सी की वेबसाइट ([www.srpc.gov.in](http://www.srpc.gov.in)) पर भी उपलब्ध है।

समीक्षा तैयार करने हेतु आपकी प्रणाली से संबंधित आंकड़े को कृपया दिनांक 05 अगस्त 2026 तक भेजने की कृपा करें।

Enclosed, please find the Agenda for the 241<sup>st</sup> Meeting of the Operation Coordination Sub-Committee of SRPC to be held on 11<sup>th</sup> August 2026 (Tuesday) from 10:00 Hrs through Video Conference. The Agenda is also available at SRPC website ([www.srpc.gov.in](http://www.srpc.gov.in)).

Kindly arrange to send the data in respect of the system latest by 05<sup>th</sup> August 2026 to enable SRPC Secretariat to prepare review sheet etc.

Kindly make it convenient to attend the meeting. Link to join the meeting will be shared in due course.

भवदीय /Yours faithfully,

  
 31/07/2026

(एन एस मालिनी / N S Malini)

अधीक्षक अभियंता / Superintending Engineer (O)

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21. AGM (EEMG), Simhadri STPS, NTPC, Simhadri
22. AGM (EEMG), Kudgi STPS, NTPC, Kudgi.
23. General Manager, Telangana STPS, NTPC
24. General Manager(O&M), NTECL, Vallur
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26. General Manager, NNTPS, Neyveli
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28. General Manager, TPS-II Expansion, Neyveli
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49. Director, NPC Division, CEA, New Delhi
50. Executive Director, NLDC, Grid-India, New Delhi
51. Executive Director, SRLDC, Grid-India, Bengaluru

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# SOUTHERN REGIONAL POWER COMMITTEE (SRPC)

## Agenda of the 241<sup>st</sup> Meeting of Operation Coordination Sub-Committee (OCC) to be held on 11<sup>th</sup> August 2026

### 1. Introduction

The 241<sup>st</sup> Meeting of the Operation Coordination Sub-Committee (OCC) of the Southern Regional Power Committee (SRPC) is scheduled on 11<sup>th</sup> August 2026 through Video Conference at 10:00Hrs

### 2. Confirmation of the Minutes of 240<sup>th</sup> Meeting of OCC

- (i) The 240<sup>th</sup> Meeting of OCC was held on 10.07.2026 through Video conference.
- (ii) The Minutes of the Meeting were issued on 21.07.2026.

*The Minutes of the 240<sup>th</sup> Meeting of OCC may please be confirmed.*

### 3. Finalization of Energy Requirement and Peak Demand for 2027-28

- a) CEA is in the process of finalizing the Electricity Generation Programme for the year 2027-28. In this regard, State/UT-wise and Month-wise Energy Requirement and Peak Demand data for the financial year 2027-28 are required to facilitate preparation of the All-India Energy Requirement and Peak Demand estimates.
- b) Accordingly, CEA has requested to furnish the consolidated data in the prescribed format (**Annexure-3a**) for timely compilation of the All-India estimates.
- c) In view of the above, **all Southern Region States/UTs are requested to furnish their State-wise and Month-wise Energy Requirement and Peak Demand projections for FY 2027-28, in the prescribed format to SRPC Secretariat, latest by 10.08.2026**, enabling onward submission to CEA by the stipulated timeline.

➤ *All SLDCs may please note*

### 4. Unit wise Planned Maintenance Schedule of Generating Units for FY 2027-28

- a) CEA vide letter dtd 03.07.2026 (**Annexure-4a**) regarding finalization of the Unit-wise Planned Maintenance Schedule of Generating Units for FY 2027-28.
- b) In this regard, all RPCs are requested to furnish the Region-wise and Station Unit-wise Planned Maintenance Schedule of Generating Units for FY 2027-28, based on the inputs received from the States/UTs under their jurisdiction, in the format enclosed with the letter.
- c) **All the Generators (Central/State/Pvt) are requested to furnish the unit-wise Planned Maintenance schedule of Generating Units for the year 2027-28 to SRPC Secretariat, latest by 10.09.2026**, so as to enable SRPC to furnish the SR region consolidated outage plan to GM division, CEA by 18<sup>th</sup> Sept 2026, to facilitate CEA for timely finalization of the Electricity Generation Programme (EGP) for FY 2027-28.

➤ *All Generators (Central/State/Pvt)/SLDCs may please note*

## 5. SPS Mock test of KK-1 & KK-2 and RP-1 & RP-2 (SRLDC Agenda)

In accordance with Regulation 16(2) of the Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2023, SPS mock test for KK-1 & 2 was conducted on 15-07-2026 at 14:30 Hrs. and RP-1 and RP-2 was conducted on 22-07-2026 at 14:30 Hrs. In this regard, the key observations from the mock test are summarized below.

### Observations for KK-1 signal mock test:

1. The KK-1 SPS Signal was received at all nodes

### Observations for KK-2 signal mock test:

1. The KK-2 SPS signal was received at all nodes except Budidampadu and the downstream loads of TGTRANSCO. PGCIL SR-II informed that the signal had been sent from the Kolar end.

### Observations for RP-1 Signal mock test:

1. The RP-1 signal was not sent from Kolar\_PG end to 220kV Hoody due to a cable issue. PGCIL SR-2 reported that the issue was rectified after the completion of the mock test.
2. The signal was sent to Kumbakonam\_TN\_230 and Thiruvarur\_TN\_230 from N\_T\_Kudy\_TN\_230. TANTRANSCO reported that upon verification after the mock test, the signal transmission was found to be functioning correctly.
3. The signal was not received at Guruburapalli\_GC\_TN\_33 from Shoolagiri\_TN\_230.
4. The signal was not received at Tadipatri\_AP\_220 due to a cable failure. APTRANSCO reported that the faulty cable was replaced after the mock test, and the signal was subsequently tested and found to be healthy.

### Observations for RP-2 Signal mock test:

1. The signal was not received at Veltoor\_TS\_400 and was not transmitted to downstream stations Bhoothpur\_TS\_220 and Wanaparthi\_TS\_220
2. The signal was not sent to Pudukottai\_TN\_230 from NT Kudy\_TN\_230

Tamil Nadu and Telangana are requested to furnish the findings and remedial actions

*May be discussed*

## 6. NLCIL/NTTP request for LC for Upgradation of SAS (Substation Automation system) along with implementation of IEC104 communication protocol (2main & 2 standby channels)

NLCIL/NTTP, vide email dated 23.07.2026, requested Line Clearance (LC) for the upgradation of the Substation Automation System (SAS) along with the implementation of the IEC 104 communication protocol. As part of the SCADA upgradation works, it is mandatory to verify the operation and protection interlocks of each bay, as detailed below.

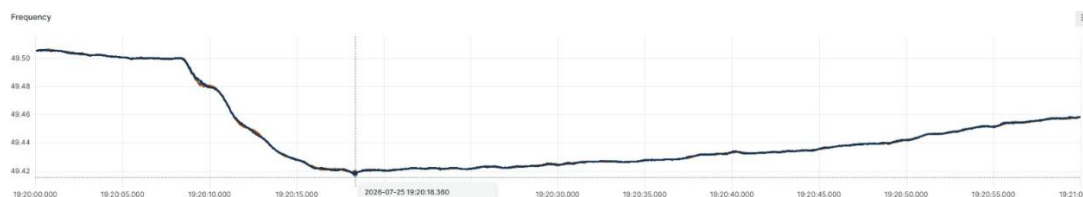
| Sl. No | Name of Transmission Elements | From                | To                  | Reason                            | Mode       | Remarks |
|--------|-------------------------------|---------------------|---------------------|-----------------------------------|------------|---------|
| 1      | 400KV-SALEM-NTTP-1            | 14-08-2026 08:00hrs | 14-08-2026 16:00hrs | For Protection interlock checking | Continuous |         |
| 2      | 400KV-NTTP-PUDUCHERRY-1       | 16-08-2026 08:00hrs | 16-08-2026 16:00hrs |                                   |            |         |

|   |                       |                        |                        |                                         |                                            |
|---|-----------------------|------------------------|------------------------|-----------------------------------------|--------------------------------------------|
| 3 | BAY 407<br>BUSCOUPLER | 17-08-2026<br>08:00hrs | 17-08-2026<br>16:00hrs | as a part<br>of SAS<br>Upgrada-<br>tion |                                            |
| 4 | 400KV BUS-1           | 17-08-2026<br>08:00hrs | 17-08-2026<br>14:00hrs |                                         | All the loads shall be<br>shifted to Bus-2 |
| 5 | 400KV BUS-2           | 17-08-2026<br>14:00hrs | 17-08-2026<br>20:00hrs |                                         | All the loads shall be<br>shifted to Bus-1 |
| 6 | BAY 208<br>BUSCOUPLER | 18-08-2026<br>08:00hrs | 18-08-2026<br>16:00hrs |                                         |                                            |
| 7 | 220KV BUS-1           | 18-08-2026<br>08:00hrs | 18-08-2026<br>14:00hrs |                                         | All the loads shall be<br>shifted to Bus-2 |
| 8 | 220KV BUS-2           | 18-08-2026<br>14:00hrs | 18-08-2026<br>20:00hrs |                                         | All the loads shall be<br>shifted to Bus-1 |

*NLCIL/SRLDC may respond*

## 7. Low frequency operation on 25.07.2026

It is observed that the Grid Frequency has touched 49.42 Hz at 19:20 Hrs of 25-07-2026 . Operation of UFR is reported to SRLDC control room. SRLDC had requested all SLDCs to send details of any operation of UFR or df/dt at that instance with quantum of relief and list of feeders tripped.



- *May be discussed.*
- *All SLDCs/SRLDC may update the details*

## 8. Review of Under-Frequency and Over-Frequency Protection Settings of Pumped Storage Plants in accordance with IEGC, CEA Connectivity Standards and AUFLS Scheme

### A TGGENCO

- a) TGGENCO, vide its letter dtd 17.07.2026 (**Annexure-8a**) addressed to the ED, SRLDC, referred to the deliberations held during the recent Protection Coordination Sub-Committee (PCSC) meeting and the observations made during recent grid disturbances. The letter highlighted that, as per the CEA (Technical Standards for Connectivity to the Grid) Regulations, generating units are required to remain connected to the grid within the frequency range of 47.5 Hz to 52.0 Hz. Accordingly, TGGENCO reviewed the existing Under-Frequency (UF) and Over-Frequency (OF) protection settings of its Pumped Storage Plants in consultation with the OEM and proposed separate protection settings for Generator Mode and Pump Mode of operation
- b) TGGENCO has decided to adopted UF setting of <47.5 Hz with 2s time delay and OF setting of >52.0 Hz with 2s time delay for Generator Mode, and UF setting of <49.5 Hz with 75 ms time delay and OF setting of >52.0 Hz with 2 s time delay for Pump Mode. Further, TGGENCO has sought clarification on the adoption of time grading for UF/OF protection among generating units to avoid

complete tripping of units during recoverable frequency excursions, and on the appropriate UF protection settings for Condenser Mode of operation.

- c) In response, SRLDC vide letter dtd 28.07.2026 (**Annexure-8b**) had informed that the 143rd PCSC had deliberated the requirements of Regulation 29(12) of the CERC (Indian Electricity Grid Code) Regulations, 2023, the CEA (Technical Standards for Connectivity to the Grid) Regulations, and the recommendations of the Task Force on Implementation of AUFLS and df/dt Scheme, emphasizing compliance with the prescribed UF/OF protection settings, including automatic disconnection of pumped storage units operating in Pump Mode at 49.5 Hz prior to the first stage of UFR operation. SRLDC further informed that the proposals regarding split time grading and under-frequency protection settings for Condenser Mode may be deliberated in the appropriate forum. Until such deliberation, the existing protection settings may be maintained in accordance with the applicable provisions of the IEGC, CEA Connectivity Standards, and the recommendations of the Task Force on Implementation of AUFLS and df/dt Scheme, as deliberated in the 143<sup>rd</sup> PCSC.

*All SLDCs & Utilities may note the same*

**B GREENKO : Incorrect tripping of Greenko units on under frequency in generation mode**

- a) It is observed that on 25.07.2026 at 19:20 hrs, all five generating units of Greenko PSP which are running in generating mode tripped on under-frequency (at 49.5 Hz as informed by Greenko). As per the Indian Electricity Grid Code (IEGC) and the operational instructions issued by SRLDC, under-frequency tripping is required only when the units are operating in pump mode. However, during the above incident, all five units tripped while operating in generation mode, which resulted in a further decline in grid frequency to a critically low level of 49.4 Hz, thereby adversely impacting grid security.
- b) SRLDC vide E-mail dated 25.07.2026 had requested Greenko to furnish the reasons for the under-frequency tripping of the units while in generation mode and to immediately review and revise the protection settings to ensure that under-frequency tripping is enabled only during pump mode operation, in accordance with the applicable IEGC provisions. Also vide communication dated 25.07.2026 (**Annexure-8c**) had requested Greenko to submit the following updates at the earliest:
- Review and modify the under-frequency protection settings applicable during generation mode to ensure compliance with the Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations, with the under-frequency protection setting being lower than 47.5 Hz, in consultation with OEM.
  - Submit a compliance report, along with the revised protection settings.

**Greenko vide E-mail dated 26.07 2026 had submitted the following:**

- Greenko apprised that on 25.07.2025, the generating units at Pinnapuram PSP tripped on Under Frequency (U/F) protection when the grid frequency dropped to 49.4 Hz. At the time of the incident, the U/F protection settings were as per the SRPC-approved settings adopted during commissioning, as detailed below:

**Stage 1:** 49.5 Hz / 5S

**Stage 2:** 48 Hz / 1S

Subsequently, after technical discussions, it was proposed to revise the U/F protection settings for operation in generator mode as follows:

**Stage 1: 48 Hz / 15S**

**Stage 2: 47.5 Hz / 1S**

The proposed settings were referred to the OEM, **M/s Andritz**, for technical validation. The OEM has since confirmed that the revised settings are in line with the machine capability and further clarified that the machine is designed to operate within a frequency range of **47.5 Hz to 51.5 Hz** in generation mode. Accordingly, the revised U/F protection settings have been implemented in all generating units at Pinnapuram PSP.

➤ **May be deliberated**

## **9. Status of Captive Data for FY 2025-26 of Southern Region**

### **Background**

- c) The Ministry of Power (MoP) and Central Electricity Authority (CEA) have mandated monthly submission of generation data pertaining to **Captive Power Plants (CPPs), Open Access and Rooftop Solar** in the prescribed format for compilation of national electricity statistics. Accordingly, SRPC has been coordinating collection of the requisite data from the Southern Region States/UTs for onward submission to CEA/MoP.
- d) The status of Captive Power Plant (CPP) generation and consumption data for FY 2025-26, submission of monthly CPP data for FY 2026-27, reconciliation of installed capacity records with CEA, and accounting of Captive Open Access/Wheeling consumption were reviewed during the 240<sup>th</sup> OCC meeting

### **Status of FY 2025-26 data**

A meeting was held under the chairmanship of JS (Distribution), MOP on 24.06.2026. The status of Captive Generation Data for FY 2025-26, including comparison of the data with respect to 2024-25, was reviewed.

With respect to the Southern Region, a year-on-year comparison of Captive Consumption for FY 2025-26 with FY 2024-25 was carried out. The analysis is summarised as below:

| Sl. | States         | FY25 [12M] | FY26 [12M] | % growth |
|-----|----------------|------------|------------|----------|
| 1   | Tamil Nadu     | 7963       | 2673       | -66.40%  |
| 2   | Telangana      | 4104       | 2529       | -38.40%  |
| 3   | Karnataka      | 12471      | 14450      | 15.87%   |
| 4   | Andhra Pradesh | 9282       | 10013      | 7.88%    |
| 5   | Kerala         | 1143       | 1256       | 9.89%    |
| 6   | Puducherry     | 76         | 74         | -2.20%   |

In this regard, the following details were requested from the states:

1. **Andhra Pradesh** and **Telangana** were requested to examine and furnish replies to the discrepancies highlighted by GM Division, CEA vide email dated 25.06.2026, as detailed below follows:

| No. | Name of State/UTs | Region | Remarks | Update |
|-----|-------------------|--------|---------|--------|
|-----|-------------------|--------|---------|--------|

|   |                |    |                                                                                 |                     |
|---|----------------|----|---------------------------------------------------------------------------------|---------------------|
| 1 | Andhra Pradesh | SR | Why there is high difference in Gross Generation and Net Generation i.e. 61.1%? | Resolved by AP CEIG |
| 2 | Telangana      | SR | Why there is high difference in Gross Generation and Net Generation i.e. 14.4%? | TG may update.      |

2. **Tamil Nadu:** With respect to the data furnished, the following issues are requested to be resolved:
  - i. In the Captive Consumption data of RE generators, for Oct-24 to Mar-25, the Captive Consumption is greater than Net Generation or Gross Generation
  - ii. The total Captive Consumption as per the furnished data is 24245.87 MU for FY 2025-26 (Non-RE - 2863 MU + RE - 21383 MU). While the captive consumption for FY 2024-25 was observed to be 7963 MU as per Captive Power Plant data for FY 2024-25 shared by PFC (Slide 12) which was displayed in the last meeting taken by JS (Distribution). As per comparison, it is an increase of 204.48% which needs further analysis.
3. **Telangana:**
  - ✓ TNGECL/TN SLDC to reconcile the captive consumption data for FY 2024-25 and FY 2025-26.
  - ✓ TG CEIG and TGS LDC shall reconcile the FY 2024-25 and FY 2025-26 generation and captive consumption data with the DISCOMs, verify the criteria adopted for data compilation, and furnish quantified reasons with supporting justification for the observed variations.
4. **The data pertaining to Karnataka, Andhra Pradesh, Kerala and Puducherry was observed to be in order.**

**In view of the upcoming review meeting under the chairmanship of Secretary (Power), MoP, all SLDCs/CEIGs are requested to furnish the observations and the requisite information at the earliest to facilitate preparation for the meeting.**

**Status of CPP data submission for FY 2026-27 (As on 27.07.2026)**

|               | Andhra Pradesh | Telangana | Karnataka | Kerala   | Tamil Nadu | Puducherry |
|---------------|----------------|-----------|-----------|----------|------------|------------|
| <b>Apr-26</b> | Received       | Received  | Received  | Received | Received   | Received   |
| <b>May-26</b> | Received       | Received  | Received  | Received | Received   | Received   |
| <b>Jun-26</b> | Received       | Received  | Received  | Received | Pending    | Received   |

- **The data of June-26 needs to be furnished by Tamil Nadu & data of July-2026 is requested to be submitted by 10.08.2026, for onward submission of CEA/MoP**

**Reconciliation of CPPs Installed Capacity records**

- It was informed that the exercise has been under continuous follow-up since this exercise began in November/December 2025. The installed capacity details, as available with CEA, had been circulated. Significant discrepancies were observed between the installed capacity data available with CEA and States.
- All the CEIGs/nodal agencies were requested to reconcile the installed capacity data in cor-ordination with CEA and RPSO. It was further requested that any additions to or deletions from the list of captives generating plants may be made accordingly.

**Accounting of Captive Open Access/Wheeling Consumption**

TGSLDC sought clarification on whether the consumption under Captive Open Access/Wheeling is to be accounted for under Captive Consumption or reported separately under Open Access. After detailed deliberations, SRPC stated that it would examine the issue and clarify the consideration of Captive Open Access/Wheeling consumption.

➤ *May be discussed*

#### 10. Agenda of RPSO (South), Bengaluru

- a) All SLDCs/State Utilities, particularly APSLDC and TGSLDC, are requested to furnish consumer details (contract demand >500 kVA) and undertake necessary information dissemination activities to facilitate onboarding of captive consumers on the CEA Captive Power Portal and improve data coverage.
- b) DISCOMs are requested to disseminate information regarding the Captive Power Portal among eligible consumers through SMS, email, and display of posters at offices, billing centers, and consumer grievance centers. Further, it was requested to furnish the preliminary consumer database to RPSO (S) at the earliest to facilitate onboarding of captive consumers onto the Captive Power Portal.
- c) All States were requested to expedite registration of captive consumers on the Captive Power Portal and nominate a nodal officer to monitor and coordinate the registration process, **with a target of completing the registrations by August 2026.**
- d) CEIGs/DISCOMs were requested to furnish consumer information, including address and other identifying particulars, to facilitate reconciliation of consumer records between the RPSO/CEA and the data furnished to SRPC.
- e) EIGs and DISCOMs were requested to disseminate awareness regarding the Captive Power Portal by displaying/circulating the publicity material shared by CEA to encourage registration by captive consumers.
- f) RPSO (S) shall examine the feasibility of providing viewing/access credentials for the Captive Power Portal to CEIGs/SLDCs in consultation with Chief Engineer, PDM&LF, and communicate the outcome to the stakeholders

➤ *RPSO (South) may take up the agenda*

#### 11. Frequent Grid Disturbances in the Kalapakka–Simhadri Corridor & Operational Issues in Charging 400 kV Kalpakka–Gazuwaka D/C Line Under Single Line Availability

- a) APTRANSCO, vide letter dated 24.06.2026, submitted a detailed report on the grid disturbances that occurred during 16<sup>th</sup> –17<sup>th</sup> June 2026 involving the 400 kV Kalpakka–Simhadri (STPP)-3, 220 kV Kalpakka–Simhachalam-2 and 400 kV Kalpakka–Gazuwaka (PGCIL)-1 & 2 transmission lines. It was reported that multiple disturbances occurred due to jumper failure, flashover, carrier channel failure, OPGW disconnection and adverse weather conditions. APTRANSCO also observed that the high fault currents in the Kalpakka area, owing to the proximity of major generating stations, warrant a detailed review of fault levels and protection coordination
- b) During restoration of the disturbances on 17.06.2026, APTRANSCO accorded concurrence for charging both 400 kV Kalpakka–Gazuwaka D/C lines. However, due to line isolator alignment issues at Gazuwaka Substation, Line-2 could not be charged. APSLDC informed that charging only the healthy circuit would result in a loading of about 500–600 MW and requested cancellation of the charging code. SRLDC observed that the existing 400 kV Twin Moose conductor is capable of

carrying substantially higher loading and opined that the operational constraints require detailed technical examination. Similar operational limitations have also been experienced during periods of higher power export through the HVDC Gazuwaka system.

- c) The above issues were deliberated in detail during the 240<sup>th</sup> OCC. The forum noted that the disturbances were caused by a combination of jumper failures, carrier channel failures, OPGW damage, flashovers, severe coastal pollution/salinity, ageing equipment and high fault levels in the Kalpakka area. SRLDC observed that the existing 400 kV Twin Moose conductor is capable of carrying substantially higher loading and that the constraints in restoring a healthy circuit independently require detailed technical examination.
- d) It was also decided that the issues would be examined in detail by the PSAG Committee during its site visit scheduled on 30<sup>th</sup> –31<sup>st</sup> July 2026
- e) The forum further concluded that, during real-time operation, the operational instructions issued by SRLDC shall be complied with by all constituents. Any field-level operational constraints shall be promptly communicated to SRLDC to facilitate coordinated operational decision-making.
  - *APTRANSCO, SRLDC, NTPC Simhadri and PGCIL may update the forum on the outcome of the PSAG meeting*
  - *The findings on the operational constraints & corrective measures identified*

## 12. Reliability of AGC Communication Links (NLDC Letter to PGCIL)- **Follow up item**

- a) Secondary Reserve Ancillary Services (SRAS) for frequency regulation are presently being implemented through Automatic Generation Control (AGC). Reliable availability of communication links is essential for uninterrupted AGC operation and secure grid operation.
- b) During the 240<sup>th</sup> OCC, the communication failure that occurred on 23.06.2026, resulting in the simultaneous unavailability of AGC services from 13 generating stations (about 14.5 GW) in the Southern Region, was discussed. PGCIL informed that the communication outage was caused by the failure of the Bina–Surajpur and Wapi–WRLDC communication links due to adverse weather conditions in the Western Region. It was further informed that these links constituted the primary and backup communication paths for the Southern Region AGC communication and that an alternate communication route is being planned to avoid recurrence of similar incidents.
- c) The forum observed that the communication architecture for the Southern Region should not be entirely dependent on the Western Region and advised PGCIL to review the communication redundancy, eliminate single-point failures, and present the detailed Root Cause Analysis (RCA), corrective measures, and implementation status of alternate communication routing in the next COM-SR meeting. SRLDC Communication Wing was requested to coordinate the review and monitor compliance.

*PGCIL and SRLDC may update the forum on the status of implementation of alternate communication routing for AGC communication links; measures taken to eliminate common-mode/single-point failures and improve communication redundancy*

## 13. Implementation of SRPC recommended AUFR and df/dt scheme

### 239 OCC: Actions to be taken

- (i) All concerned were requested to complete the works pertaining to relief visibility and SCADA mapping expeditiously. RTU upgradation, wherever required may be taken up on priority.

**AP** to examine the feasibility of bridging the identified deficit of about 85 MW in AUFR-based relief and identify suitable additional loads, considering existing constraints such as islanding schemes and emergency service feeders.

**Karnataka** to identify additional loads to realize additional relief of about 400 MW to bridge the deficit in released relief.

**TGSLDC** was requested to reassess the declared quantum, suitably revise the relief considered from the existing feeders based on realistic loading levels, and identify additional feeders to bridge the remaining deficit.

**(ii) New quantum of load relief settings of AUFLS scheme for the year 2026-27 (SRPC letter dated 19.06.2026)**

In accordance with the recommendation of the Task Force, CEA - NPC Secretariat has calculated the relief quantum at each stage of AUFLS (Automatic Under Frequency Load Shedding) scheme for year 2026-27 for implementation in all the regions. In 240<sup>th</sup> OCC, it was informed that the new quantum as load relief and State Demand Contribution values as tabulated above and circulated vide SRPC letter dated 19.06.2026.

SLDCs were requested to use the new recommended values in the calculations from next month. The relief quantum pertaining to Southern Region are as follows:

| Sl. No.      | Stage   | Frequency (Hz) | Quantum of Load Shedding (MW) for 2026-27 | Change in quantum wrt 2025-26 (MW) | Quantum of Load Shedding (MW) for 2025-26 |
|--------------|---------|----------------|-------------------------------------------|------------------------------------|-------------------------------------------|
| 1            | Stage 1 | 49.4 Hz        | 3175                                      | 15 increase                        | 3160                                      |
| 2            | Stage 2 | 49.2 Hz        | 3810                                      | 18 increase                        | 3792                                      |
| 3            | Stage 3 | 49.0 Hz        | 4445                                      | 22 increase                        | 4423                                      |
| 4            | Stage 4 | 48.8 Hz        | 4445                                      | 22 increase                        | 4423                                      |
| <b>Total</b> |         |                | <b>15875</b>                              | <b>77 increase</b>                 | <b>15798</b>                              |

In accordance with the methodology recommended by the Task Force, State/UT Stagewise AUFLS in MW for FY 2026-27 is as follows:

| State          | State/UT contribution | State Demand Contribution | Stage-1     | Stage-2     | Stage-3     | Stage-4     | Total        |
|----------------|-----------------------|---------------------------|-------------|-------------|-------------|-------------|--------------|
| Andhra Pradesh | 0.184                 | 13590                     | 585         | 702         | 819         | 819         | 2923         |
| Telangana      | 0.221                 | 16301                     | 701         | 842         | 982         | 982         | 3506         |
| Karnataka      | 0.231                 | 17068                     | 734         | 881         | 1028        | 1028        | 3671         |
| Kerala         | 0.074                 | 5448                      | 234         | 281         | 328         | 328         | 1172         |
| Tamil Nadu     | 0.282                 | 20829                     | 896         | 1075        | 1254        | 1254        | 4480         |
| Puducherry     | 0.008                 | 569                       | 25          | 29          | 34          | 34          | 122          |
| <b>Total</b>   | <b>1.000</b>          | <b>73805</b>              | <b>3175</b> | <b>3810</b> | <b>4445</b> | <b>4445</b> | <b>15875</b> |

The change in AUFLS quantum for FY 2026-27 compared to FY 2025-26 is as follows (for reference):

| State          | Stage-1 | Stage-2 | Stage-3 | Stage-4 | Total |
|----------------|---------|---------|---------|---------|-------|
| Andhra Pradesh | 8       | 10      | 12      | 12      | 42    |
| Telangana      | 16      | 20      | 23      | 23      | 82    |
| Karnataka      | 10      | 12      | 14      | 14      | 50    |
| Kerala         | -4      | -5      | -5      | -5      | -19   |
| Tamil Nadu     | -15     | -18     | -21     | -21     | -75   |

|              |           |           |           |           |           |
|--------------|-----------|-----------|-----------|-----------|-----------|
| Puducherry   | 0         | -1        | -1        | -1        | -3        |
| <b>Total</b> | <b>15</b> | <b>18</b> | <b>22</b> | <b>22</b> | <b>77</b> |

The State Demand Contribution value to be utilized for calculation of Monthly Reports being presented in OCC are as follows for FY 2026-27:

| State          | State contribution           | Load Relief in MW/<br>State Demand Contribution |
|----------------|------------------------------|-------------------------------------------------|
|                | (a)=Column (5) of<br>Table 3 | (b)=a*SR Peak Demand                            |
| Andhra Pradesh | 0.184                        | 13590                                           |
| Telangana      | 0.221                        | 16301                                           |
| Karnataka      | 0.231                        | 17068                                           |
| Kerala         | 0.074                        | 5448                                            |
| Tamil Nadu     | 0.282                        | 20829                                           |
| Puducherry     | 0.008                        | 569                                             |
| <b>Total</b>   | <b>1.000</b>                 | <b>73805</b>                                    |

**(iii) Follow-up of Action Points of Grid Frequency dip Event on 13.05.2026**

- ✓ Use the task force recommended correction factor methodology for calculating the desired AUFLS load relief in future events.
- ✓ Karnataka shall submit the final verified AUFLS load relief quantum and furnish the status of operation of relays configured at 49.41 Hz and 49.40 Hz.
- ✓ All constituents shall examine the performance of AUFLS relays configured at 49.41 Hz that did not operate and take necessary corrective action.
- ✓ The forum recommended that 50% of the load relief may be configured at 49.41 Hz with a time delay of 2–3 cycles. Wherever relays exhibited some delay in operation or sluggishness, based on their performance, these may be configured at 49.41 Hz.
- ✓ **In 240<sup>th</sup> OCC**, Karnataka SLDC confirmed that the AUFLS scheme provided a load relief of 440 MW during the event. It was further informed that the majority of the under-frequency relays that operated were configured with a pickup setting of 49.40 Hz. It was stated that only a negligible number of relays in Karnataka were configured at 49.41 Hz

**240<sup>th</sup> OCC Conclusion:**

- AP, Karnataka and Telangana to identify additional AUFLS loads to bridge the deficit in relief quantum. SRPC requested to expedite the implementation by next OCC meeting
- SLDCs were requested to use the new recommended values in the calculations from next month.

*May be discussed*

**14. Review of Transmission Line Trippings during Thunderstorm/Adverse Weather Conditions and need for enhanced Situational Awareness of Stressed Corridors (Follow-up)**

- a) The issue pertaining to the increasing instances of transmission line outages, tower collapses and transmission corridor constraints during adverse weather conditions was deliberated in the 239<sup>th</sup> OCC Meeting. The forum had reviewed several critical outages that resulted in generation evacuation constraints, reduction in transmission corridor redundancy, voltage issues and reduction in Southern Region import/export capability. The concerned transmission licensees were advised to expedite restoration works, periodically update the status of restoration activities and undertake

suitable preventive measures to improve the resilience of the transmission system against extreme weather events.

- b) The status of major transmission elements, wherein restoration activities were under progress during the 239<sup>th</sup> OCC meeting, is summarized below:

| Sl. No. | Transmission Element                                    | Transmission Licensee   | Major Concern                                                                                                                                                                                                                                                                                                          | Latest Status/Target                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------|---------------------------------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | 400 kV Kaiga–Guttur D/C                                 | KPTCL                   | Evacuation of nuclear generation and overall system security and emphasized that all efforts should be made to complete the restoration works at the earliest possible date                                                                                                                                            | <b>240<sup>th</sup> OCC:</b><br><b>KPTCL:</b> To furnish the correspondence, testing reports and other relevant data sought by SRPC vide letter dated 29.06.2026 regarding the tower collapse incident. KPTCL to expedite completing the works at the earliest.<br><b>55<sup>th</sup> TCC update:</b> KPTCL informed that due to the rainfall, the restoration activities were further delayed. Expected revival time is 16.08.2026.                                         |
| 2       | 220 kV Veena Energy–Gadag PS / Green Infra–Gadag PS D/C | Veena Energy            | Impacted evacuation of this generation                                                                                                                                                                                                                                                                                 | <b>240<sup>th</sup> OCC:</b> It was observed that both the circuits were restored on 28.06.2026.                                                                                                                                                                                                                                                                                                                                                                             |
| 3       | 400 kV Gadag–Koppal D/C                                 | Gadag Transmission Ltd. | Koppal and Gadag was being evacuated independently through their respective corridors to Kudgi, as the interconnection between Gadag and Koppal through the affected line was unavailable. Consequently, the system had lost an important network redundancy element.                                                  | <b>240<sup>th</sup> OCC:</b> Expedite restoration of the 400 kV Gadag–Koppal D/C line and make all efforts to complete the works before 31.08.2026, considering the RE evacuation constraints.<br><ul style="list-style-type: none"> <li>• Deploy additional resources, wherever feasible, to expedite the restoration works.</li> <li>• Submit the correspondence, testing reports, RCA &amp; other relevant documents pertaining to the tower collapse to SRPC.</li> </ul> |
| 4       | 400 kV Nagapattinam PS–Trichy D/C                       | POWERGRID SR-II         | The outage of the line was resulting in low-voltage conditions in the Trichy area, since Trichy is connected to two S/Ss, Karaikudi and Madurai.<br><br>The dynamic reactive support from nearby STATCOM installations was presently helping in maintaining voltage levels by injecting reactive power into the system | <b>240<sup>th</sup> OCC:</b> Ckt -1 has been charged through ERS towers on 14.06.2026 at 11:35 hours. Subsequently, both Ckt has been charged through original/permanent towers on 28.06.2026 at 19:32 and 19:41 hours, respectively.                                                                                                                                                                                                                                        |

| Sl. No. | Transmission Element                                                          | Transmission Licensee | Major Concern            | Latest Status/Target                                                                                                                                                                                                                                                                                                 |
|---------|-------------------------------------------------------------------------------|-----------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5       | Repeated trippings of 765 kV WKTL and other critical inter-regional corridors | WKTL                  | Import/Export capability | <b>240<sup>th</sup> OCC/55<sup>th</sup> TCC update:</b> It was advised that all utilities shall ensure enhanced monitoring, preventive maintenance and timely corrective action for 765 kV and other critical inter-regional transmission corridors to maintain system reliability and minimise recurring trippings. |

➤ **KPTCL, GTL & WKTL may update the status.**

## Failure of Somanahalli (Bangalore) ICT

### 1) Background

The 500 MVA, 400/220 kV ICT-I at POWERGRID's Somanahalli Substation failed on **31.05.2026** following a series of downstream faults in the 220 kV KPTCL network. The outage lasted **38 days**, and the spare ICT was successfully commissioned on **08.07.2026**.

Since the outage exceeded one month, the categorization of the outage for transmission availability certification was required in accordance with the provisions of the **CERC (Terms and Conditions of Tariff) Regulations, 2024**.

### 2) Regulatory Provisions

#### **CERC (Terms and Conditions of Tariff) Regulations, 2024 (Appendix IV, Clause 5)**

*The Regulations provide that the outage period of transmission elements, as certified by the Member Secretary, RPC, shall be excluded from the outage duration for transmission availability calculations under the following circumstances:*

#### **(i) Force Majeure**

*Outage of elements due to force majeure events beyond the control of the transmission licensee. However, whether the same outage is due to force majeure (not design failure) will be verified by the Member Secretary, RPC. A reasonable restoration time for the element shall be considered by the Member Secretary, RPC, and any additional time taken by the transmission licensee for restoration of the element beyond the reasonable time shall be treated as outage time attributable to the transmission licensee. Member Secretary, RPC may consult the transmission licensee or any expert for estimation of reasonable restoration time. Circuits restored through ERS (Emergency Restoration System) shall be considered as available;*

#### **(ii) Grid incidents/Disturbance**

*Outage caused by grid incident/disturbance not attributable to the transmission licensee, e.g. faults in a substation or bays owned by another agency causing an outage of the transmission licensee's elements, and tripping of lines, ICTs, HVDC, etc., due to grid disturbance. However, if the element is not restored on receipt of direction from RLDC while normalizing the system following grid incident/disturbance within reasonable time, the element will be considered not available for the period of outage after issuance of RLDC's direction for restoration;*

### **(iii) Competent Authority for Approval**

*The outage period eligible for exclusion shall be approved as follows:*

- *Up to one month – Member Secretary, RPC*
- *Beyond one month and up to three months – Regional Power Committee (RPC)*
- *Beyond three months – Central Electricity Regulatory Commission (CERC)*

**The 52<sup>nd</sup> TCC recommended delegation of the powers of SRPC under Appendix-IV, Clause 5(iii)(b) of the CERC (Terms and Conditions of Tariff) Regulations, 2024 to the Operation Sub-Committee (OCC), which was subsequently approved by the 55<sup>th</sup> SRPC.**

### **240<sup>th</sup> OCC Deliberations/Conclusion:**

- a) The OCC deliberated on the failure of Somanahalli ICT-I based on the submissions of POWERGRID, beneficiary observations, and the technical analysis presented.
- b) The OCC agreed to provisionally categorize the outage under the "Others" category, subject to the findings of the CEA Committee on Failure of Power Equipment (PSE&TD Division).
- c) The final categorization for availability certification shall be decided based on the recommendations of the CEA Committee.
- d) The matter shall be referred to the CEA Committee on Failure of Power Equipment (PSE&TD Division) for consideration while finalizing its report.
- e) POWERGRID and other transmission utilities were advised to present similar cases before the Protection Sub-Committee (PSC) to examine protection coordination issues and recommend suitable measures to prevent recurrence.

### **Post OCC Update:**

In this regard, PSETD, CEA vide mail dtd 23.07.2026 had shared the final ICT failure committee report (**Annexure-14a**). The recommendations are stated as below:

- i. The Transformer should be Dynamic short Circuit (DSC) tested as per the Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022.
- ii. KPTCL should ensure that frequent fault does not occur on 220 kV side of the KPTCL Substation.
- iii. KPTCL should ensure that Bus sectionlizer remain close so that all the all the ICTs operate in parallel.
- iv. PGCIL shall measure short circuit inductance and SFRA of the transformer after the occurrence of fault, to check the mechanical integrity of the active part

***May be deliberated***

## **15. Tripping of 765KV-Ariyalur-NCPS line (Follow up item)**

- a) On 18.05.2026, 765 kV Ariyalur–NCPS-1 tripped at 23:30 hrs due to multiple insulator decappings. During the antecedent condition, 765 kV Ariyalur–NCPS-2 was already under outage. Consequently, the outage of the only available source resulted in complete outage of the 765 kV NCPS Pooling Station and 765 kV NCPS Generating Station, leading to a generation loss of about 520 MW.
- b) It was observed that the 765 kV Ariyalur–NCPS corridor has experienced repeated outages due to Y-N faults, low SF<sub>6</sub> gas pressure, and insulator decapping at various locations. During the calendar year 2026, 765 kV Ariyalur–NCPS-2 and 765 kV Ariyalur–NCPS-1 remained under outage for about 50 days and 39 days, respectively, resulting in prolonged reduction in evacuation reliability from the NCPS complex.
- c) During the 240<sup>th</sup> OCC, TANTRANSCO/TNSLDC informed that the recurring insulator failures were predominantly associated with Deccan make polymer insulators, which were suspected to have

design-related deficiencies. It was further informed that laboratory testing of the failed insulators had been initiated in coordination with the manufacturer.

- d) SRLDC observed that the 765 kV Ariyalur–NCPS corridor and the 400 kV Manali–Puliyanthope corridor presently do not have adequate N-1 reliability, and that outages on these corridors result in generation loss from the NCPS complex.
- e) The 240<sup>th</sup> OCC advised TANTRANSCO/TNSLDC to:
  - ✓ Expedite the 400 kV Manali–Puliyanthope LILO at NCPS and furnish the updated implementation timeline.
  - ✓ Submit the laboratory test results, root cause analysis, and proposed mitigation measures for the recurring failures of Deccan make polymer insulators.
  - ✓ Address the recurring outages on the 765 kV Ariyalur–NCPS corridor on priority to improve corridor reliability and avoid recurrence of generation loss.
- f) All transmission utilities were also advised to verify the health and performance of Deccan make polymer insulators installed in their transmission systems and take suitable preventive measures, wherever required.

➤ **TANTRANSCO/TN SLDC may respond**

#### **16. Persistent Overloading of Critical ISTS Corridors in Tamil Nadu & Karnataka under High RE Injection Scenario (Follow up item)**

- a) The issue of persistent overloading of critical ISTS corridors/ICTs under high Renewable Energy (RE) injection scenarios in Tamil Nadu and Karnataka was deliberated in the 239<sup>th</sup> and 240<sup>th</sup> OCC Meetings. Based on the operational analysis presented by SRLDC, it was observed that increasing RE power injection from the State transmission network into the ISTS has resulted in sustained overloading of critical ISTS corridors/ICTs, N-1 violations, voltage management issues, and reduction in the export capability (TTC/ATC) of the Southern Region.
- b) During the 240<sup>th</sup> OCC, TNSLDC highlighted that transparent SCADA data reporting from RE generators, particularly wind generators, is essential for accurate forecasting and demand management. SRLDC reiterated that large-scale RE injection from the State network into the ISTS, beyond the planning assumptions, continues to cause overloading of critical ISTS corridors/ICTs and voltage management issues. It was further highlighted that the 765 kV Raigarh–Pugalur HVDC is presently unable to operate in the reverse power flow direction and, under high RE injection scenarios, the Southern Region is likely to lose about 3000 MW of export capability. KAR SLDC informed that delays in transmission augmentation due to RoW constraints, inadequate reactive power support from RE generators, and pending implementation of network strengthening works are contributing to the overloading of critical ISTS corridors.
- c) Accordingly, TNSLDC was advised to furnish the location-wise details of the 3 GW RE capacity connected to the STU network during FY 2025-26, along with the associated evacuation arrangements, and to convene a coordination meeting involving TANTRANSCO, CTUIL, SRLDC and SRPC to identify suitable medium- and long-term mitigation measures. TANTRANSCO and KPTCL were advised to expedite transmission augmentation works and implementation of reactive power compensation measures, including capacitor banks and STATCOMs, to mitigate overloading of critical ISTS corridors and ICTs under high RE injection scenarios.
- d) KAR SLDC was advised to furnish the reconciled location-wise details of RE capacity integrated during FY 2025-26, expedite implementation of the FTC procedure for new RE connectivity, and continue follow-up to ensure compliance with reactive power requirements by RE generators.
- e) SRLDC was also advised to prepare a draft Standard Operating Procedure (SOP) for operation of ICTs during overloading conditions arising due to high RE injection from the State network and

place the same before the Forum for consideration. Until finalization of the SOP, the concerned SLDCs shall continue to comply with the real-time operational directions issued by SRLDC to maintain secure and reliable grid operation.

***TNSLDC/TANTRANSCO, KAR SLDC/KPTCL & SRLDC may update the forum.***

## **17. Noncompliance of IEGC-2023 Regulation 40 on Periodic Testing of Generators & HVDC**

As per provisions of Regulation 40 of IEGC-2023 the following are mandated:

**Regulation 40 (2) (a):**

***“The owner of the power system element shall be responsible for carrying out tests as specified in these regulations and for submitting reports to NLDC, RLDCs, CEA and CTU for all elements and to STUs and SLDCs for intra-State elements.”***

**Regulation 40 (2) (b):**

***“All equipment owners shall submit a testing plan for the next year to the concerned RPC by 31<sup>st</sup> October to ensure proper coordination during testing as per the schedule. In case of any change in the schedule, the owners shall inform the concerned RPC in advance.”***

**Regulation 40 (2) (c):**

***“The tests shall be performed once every five (5) years or whenever major retrofitting is done. If any adverse performance is observed during any grid event, then the tests shall be carried out even earlier, if so advised by SLDC or RLDC or NLDC or RPC, as the case may be”***

- ✓ In this regard, it is observed that periodic testing of generating units, as mandated under Regulation 40 of IEGC-2023, has not been carried out by a large number of generators. The matter has been continuously highlighted and sensitized through the standing agenda in OCC meetings since 207<sup>th</sup> meeting held in October-2023 and 49<sup>th</sup> TCC/ 52<sup>nd</sup> SRPC meeting held in August-2024.
- ✓ Further, vide letter dated 03.06.2025, the generators which had not furnished testing schedules for 2024-29 period, as well as, generators which had furnished testing schedules for FY 2024-25 but had not carried out the testing were informed regarding the non-compliance of Regulation 40 of IEGC-2023.
- ✓ Subsequently, vide letter dated 27.05.2026, generators that had still not furnished testing schedules for the 2024-29 period were again informed of the non-compliance and were requested to furnish the testing schedules immediately.
- ✓ Further, vide letter dated 27.05.2026, generators who had furnished schedules for FY 2024-25, FY 2025-26 and FY 2026-27, but have not completed the testing activities as per indicated timeframes were requested to carry out the mandated testing. They were advised to complete the testing in a phased manner so that the activities are appropriately distributed over the remaining period up to March 2029 and do not accumulate towards the end of the prescribed five-year cycle (2024-29).
- ✓ In view of the above, a special meeting with all conventional generators in the Southern Region was held on 18.06.2026 to discuss compliance with the periodic testing requirements mandated under the IEGC.
- ✓ A special meeting with all conventional generators in the Southern Region was held on 18.06.2026 to discuss compliance with the periodic testing requirements stipulated under the IEGC, and the Minutes of Meeting (MoM) were issued on 02.07.2026. The periodic testing schedule for the Southern Region for the 2024–29 control period is enclosed as (**Annexure-17a**). All GENCOs were requested to review the schedule and communicate any changes/updates to seoprnsrpc-ka@nic.in and srpc.operation@gmail.com for necessary action.

➤ ***May be discussed.***

## 18. SPS at 220kV Pothencode Substation (Follow up item)

- a) KSEB vide letter dated 18.05.2026 informed that power is presently evacuated from the PGCIL Substation to 220kV Pothencode Substation through feeders 2TVPC#1, 2TVPC#2, 2TVPC#3 and 2TVPC#4. After implementation of the scheme approved by CEA, feeder 2TVPC#4 will no longer be available for power evacuation.
- b) In the absence of feeder 2TVPC#4, the major load of Pothencode Substation will have to be supplied through feeders 2TVPC#1, 2TVPC#2 and 2TVPC#3. These feeders are strung with single moose conductor having a current carrying capacity of 798 A each. In the event of tripping of any one of these feeders due to fault, the remaining two feeders may get overloaded, which may lead to conductor snapping of the live feeders.
- c) In order to avoid such a contingency, it is proposed to implement a Special Protection Scheme (SPS). Accordingly, the SPS proposed to provide overload setting logic for feeders 2TVPC#1, 2TVPC#2 and 2TVPC#3 at 220kV Pothencode Substation and proposed to be wired for load relief through 110kV feeders 1PCAT#1 & 2 and 1PCPP#1 & 2.
- d) In 240<sup>th</sup> OCC, Kerala SLDC informed that the SPS implementation work has been completed. However, the SPS tripping test has been scheduled for 15.07.2026. Upon successful completion of the testing, the results/status shall be communicated to SRPC and SRLDC.

➤ **KSEBL may update the status of SPS implementation**

## 19. NTPC Agenda

### Item 1: House Load Operation Test of NTPC Kudgi Unit-1 Prior to Capital Overhauling

NTPC Kudgi has informed that Unit-1 will be taken up for Capital Overhauling during August 2026. Prior to shutdown, a House Load Operation (HLO) test is proposed to validate the unit's house load capability. The test will be conducted by maintaining the unit at 400 MW, followed by de-synchronization from the grid after obtaining code from SRLDC. The unit load will automatically reduce to 30 MW as per the configured logic and will remain in house load mode for 15–30 minutes. Thereafter, the unit will be re-synchronized with the grid after obtaining code from SRLDC, following which the unit will be shut down for the planned overhaul. The forum may note the proposed House Load Operation test.

### Item 2: Intimation of Pre-Overhaul Performance Testing of NTPC Kudgi Unit-1

NTPC Kudgi has informed that pre-overhaul efficiency tests of Unit-1 are proposed to be carried out by a third-party agency prior to the Capital Overhauling. For conducting the tests, the unit is required to operate continuously at full load for four hours on each of two days. The exact test dates will be intimated one week in advance. The forum may note the same.

### Item 3: Status of 765 kV New Narendra (Kudgi–PGCIL) – Pune Transmission Line and Enhancement of SR–WR Transfer Capacity

NTPC Kudgi has informed that due to the outage of the 400 kV Kudgi–Kolhapur D/C transmission line, generation from NTPC Kudgi had to be restricted on 22.07.2026 and 23.07.2026 owing to transmission constraints. In this regard, NTPC has requested that the present status of erection and commissioning of the 765 kV New Narendra (Kudgi–PGCIL) – Pune transmission line and the enhancement of the SR–WR corridor transfer capacity be updated in the forum and that the associated works be expedited to facilitate early enhancement of transfer capability.

### Item 4: Rescheduling of Annual Overhaul of NTPC Ramagundam Unit-5 (500 MW)

The Annual Overhaul of NTPC Ramagundam Unit-5 (500 MW) was approved during the 240<sup>th</sup> OCC meeting from **15.08.2026 to 28.09.2026 (45 days)**. NTPC has now requested approval for rescheduling the outage from **18.08.2026 to 26.09.2026 for a period of 40 days**, in place of the previously approved schedule commencing on 15.08.2026. The forum may consider the request.

#### **Item 5: Preponement of First Annual Overhaul of NTPC Telangana Unit-1 (800 MW)**

The Annual Overhaul of NTPC Telangana Unit-1 (800 MW) was originally approved during the 238<sup>th</sup> OCC meeting from **01.06.2026** for a period of **40 days**. Subsequently, during the 239<sup>th</sup> OCC meeting, it was informed that the overhaul had been tentatively rescheduled to commence from **01.11.2026** for **65 days** to facilitate Boiler Superheater/Reheater (SH/RH) modification works by the OEM, **M/s BHEL**.

NTPC Telangana has now informed that, based on the revised Boiler SH/RH modification schedule finalized by M/s BHEL, the required resources can be mobilized by **15.09.2026**. Accordingly, approval is requested to prepone the first Annual Overhaul of Unit-1 to **15.09.2026** for a period of **45 days**, in place of the previously proposed schedule from November 2026. The forum may consider the request.

#### **20. Follow up on Energization of 230 kV BHAVINI – Kancheepuram Line-I & II for PFBR Commissioning Support**

- a) The issue regarding operationalization of 230 kV BHAVINI–Kancheepuram Line-I & II for PFBR commissioning support was deliberated in the 239<sup>th</sup> OCC Meeting, wherein the forum emphasized expeditious operationalization of the lines considering the national importance of the PFBR project. It was also decided that BHAVINI, TNSLDC, MAPS and SRLDC shall jointly study the proposed injection pattern and assess any system modifications required prior to commencement of power injection.
- b) During the meeting, BHAVINI informed that all commercial clearances and requisite clarifications had been furnished to TANTRANSCO, while TNSLDC informed that the proposal for operational approval had been submitted to the higher management and that approval for charging the feeders was expected shortly.
- c) TNSLDC/TANTRANSCO vide mail dtd 24.06.2026 informed to SR II, PGCIL that all the commercial issues were resolved and necessary consent may be forwarded to SRLDC for FTC approval as PGCIL is the bay owner. SR II, PGCIL had concurred for the same, vide mail dtd 27.06.2026

##### **In 240<sup>th</sup> OCC,**

- ✓ TNSLDC informed that the phase sequence verification at 230 kV Kancheepuram SS has been completed and the line is expected to be charged shortly.
  - ✓ SR-II, PGCIL informed that the required clearance has already been accorded to TANTRANSCO SRLDC informed that the FTC clearance for 230 kV BHAVINI–Kancheepuram Line-I & II was issued on 08.07.2026 and that the operational code would be issued upon confirmation of readiness from TANTRANSCO and PGCIL (SR-II).
  - ✓ SRLDC further informed that no transmission constraints were observed for the proposed injection pattern, though the 230 kV Kancheepuram–Thiruvalam S/C, 230 kV Kanchi Data CTR–Kancheepuram, and 230 kV Sriperumbudur–Kanchi Data CTR lines would require close monitoring.
  - ✓ TNSLDC agreed to carry out a detailed study and furnish its observations
- ***TNSLDC, BHAVINI, and SRLDC may update the present status of operational approval, charging of the 230 kV BHAVINI–Kancheepuram Line-I & II feeders, and the study on the proposed injection pattern.***

## 21. Grid operational Issues – SRLDC Concerns

### A) Follow up on Staggering of loads in Southern Region

- a) The issue regarding sharp evening demand reduction in the Southern Region around 17:45–18:00 hrs leading to over-frequency and over-voltage conditions was deliberated in the 238<sup>th</sup> & 239<sup>th</sup> OCC meeting. The forum noted that, pursuant to the deliberations in the 238<sup>th</sup> OCC Meeting, NLDC, vide letter dated 27.05.2026, had advised APSLDC and KAR SLDC to implement suitable measures for staggering agricultural load switching schedules to smoothen the demand profile and avoid abrupt demand variations affecting secure grid operation.
  - b) During the 239<sup>th</sup> & 240<sup>th</sup> OCC Meeting, APSLDC and KAR SLDC informed that corrective measures had been initiated and some improvement in the demand profile had been observed. However, SRLDC observed that significant demand fluctuations continued to occur during the evening period and emphasized the need for further refinement of the staggering mechanism.
  - c) In 240<sup>th</sup> OCC, it was observed that significant action is still required from APSPDCL. APSLDC informed that a response from APSPDCL is expected within the next two days, based on which further mitigation measures would be implemented within a week
  - d) Further, APSLDC & KAR SLDC shall share the mitigation measures implemented for refining the staggered agricultural load switching, through official communication to SRPC/SRLDC
- **APSLDC & KAR SLDC may update on the action taken, the effectiveness of the measures implemented, and the present status of evening demand variations**

## 22. Status of spares of Talcher-Kolar HVDC system

It is noted that there are 4 Spares for Talcher-Kolar HVDC system

240<sup>th</sup> OCC Update:

| Spares at Tacher end                                                                                                                                                                                             | Spares at Kolar end                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Repaired Convertor Transformer reached Talcher in the last week of June 2026. It was dispatched from Kalva, Mumbai. It is planned is to be taken in to service in place of another in-service faulty transformer | One healthy transformer is available at Kolar end |
| Another faulty Convertor Transformer was transported from Talcher site and reached TARIL, Ahmedabad for repairs.                                                                                                 |                                                   |
| Third Faulty Convertor Transformer is under tendering stage. The open tender would be awarded to the successful bidder based on the outcome.                                                                     |                                                   |

➤ **SR II, PGCIL may respond**

## 23. Pending Items from Previous OCCs

| S. No | Items to be discussed                                                                                                                                                                                                                                                                                                                                              | Status/Remarks                 |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 1     | <p><b>Frequent switching of Bus Reactors at Munirabad and Raichur sub-station on voltage regulations.</b></p> <p><b>For Discussion:</b></p> <p><b>JSWEL may update the following:</b></p> <ol style="list-style-type: none"> <li>a) The budgetary approval for the proposed works has been obtained. The procurement process is under progress, and the</li> </ol> | <p><b>SR I PGCIL/JSWEL</b></p> |

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                        |
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|          | <p>Power Order (PO) is being finalized. The compensators are expected to be delivered by December 2026/January 2027.</p> <p>b) The shutdown of SBU-II Unit-1 is already under shutdown to facilitate the inspection of the UAT tap settings.</p> <p>c) Technical issues in integrating the ABB Master PPC with the existing PPC of the renewable generating stations were observed. While the Wind PPC is already in service, the integration of the Master PPC with the existing PPCs is under progress. The OEM (ABB) team is expected to visit the site to complete the integration activities. JSW Energy informed that the commissioning of the Master PPC is expected to be completed by the third week of August 2026.</p> <p><b>SR I PGCIL/CTUIL may update the augmentation of ICT &amp; new STATCOM at Munirabad</b></p>                                                                                                                                                                                          |                                        |
| <b>2</b> | <p><b>Low Voltages in Karnataka during Morning Peak Period</b></p> <p><b>The status/action may be taken for the following:</b></p> <p>a) Capacitor bank installation &amp; STATCOM implementation (Action plan along with capacity)</p> <p>b) The mock reactive energy billing for the month of February 2026 had been generated and actual billing for March 2026 would be issued shortly in line with the applicable notification. In this regard, the effectiveness of RE reactive power compliance mechanism and feedback on billing implementation may be shared.</p> <p>c) KPCL clarified that it is not feasible for YCCPP to operate in synchronous condenser mode, as the required augmentation/modification of the generating unit assembly is not technically feasible. KPCL was advised to furnish the OEM's technical verification and detailed study report in support of the above.</p> <p>d) Steps taken to ensure reactive compensation planning at connectivity/design stage based on system studies.</p> | <b><i>SRLDC/KAR<br/>SLDC/KPCL.</i></b> |
| <b>3</b> | <p><b>Pending Issues w.r.t Tamil Nadu system Control Area</b></p> <p><b>A. Outage of Kadamparai Units</b></p> <ul style="list-style-type: none"> <li>At present, three units are under outage due to stator earth faults, and one unit is under outage due to a rotor earth fault. As per the latest status received from the Kadamparai field authorities, the expected restoration schedule is as follows: <ul style="list-style-type: none"> <li>✓ Unit 1: March 2027</li> <li>✓ Unit 2: December 2026</li> <li>✓ Unit 3: January 2027</li> <li>✓ Unit 4: December 2026</li> </ul> </li> <li>TN shall expedite the restoration of the Kadamparai units and keep the Forum apprised of the progress.</li> </ul>                                                                                                                                                                                                                                                                                                           | <b><i>TNSLDC/ Kadam-<br/>parai</i></b> |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                  |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
|  | <p><b>B. Low Voltage profile in 220/400 kV switchyard at NNTPS</b></p> <p><b>For Discussion:</b></p> <ul style="list-style-type: none"> <li>• TN SLDC informed that the Nagai Power Plant is presently providing about 30–40 MVar of reactive power support at a generation level of around 90 MW.</li> <li>• With regard to the proposed 528 MVar capacitor banks, TNSLDC informed that the revised cost estimate is under approval, following which the re-tendering process will be initiated under the new Government of Tamil Nadu.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p><b>TNSLDC/SRLDC</b></p>                                       |
|  | <p><b>C. High loading of 400kV Kanarpatty- S/C</b></p> <p><b>For Discussion:</b></p> <p>a) <b>Temporary Solution:</b></p> <ul style="list-style-type: none"> <li>• TNSLDC informed that a detailed study would be carried out before taking up the proposal as operating may lead to additional RE injection into the ISTS through the Madurai ICTs.</li> </ul> <p>b) <b>SPS Implementation</b></p> <ul style="list-style-type: none"> <li>• TN SLDC vide mail dtd 22.06.2026 informed that SPS was implemented on 12.06.2026. All the relevant logic was shared.</li> </ul> <p>c) <b>Permanent Solution</b></p> <ul style="list-style-type: none"> <li>• In 240<sup>h</sup> OCC, SR II, PGCIL informed that works are progressing as per approved schedule. The targeted completion is December 2026. Further, it was concluded that TN SLDC and SR II PGCIL may discuss together in completing the Bay construction at the earliest.</li> </ul> <p><b>Additionally, TN SLDC may update on:</b></p> <ul style="list-style-type: none"> <li>• RE Monitoring &amp; Compliance - Provide action plan for upgrading from AMR-based to real-time RE SCADA data acquisition. Plan installation of PMUs and integration, including the required hardware arrangements, at all major RE pooling stations.</li> <li>• Obtain compliance reports from RE generators on LVRT/HVRT/MVar support as per CEA connectivity Reg.</li> <li>• Furnish a detailed incident report for the trippings on 23<sup>rd</sup> Aug 2024 and 24<sup>th</sup> Sep 2025 to SRPC</li> </ul> <p>In 240<sup>th</sup> OCC, TN SLDC informed that the RE developers have challenged the compliance requirements before the court. However, it was assured that they issue the necessary compliance for installation of PMUs at the identified RE pooling stations and update the status in the next OCC.</p> | <p><b>TAN-<br/>TRANSCO/T<br/>NSLDC<br/>/PGCIL/SRLD<br/>C</b></p> |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| D | <b>Implementation of 3<sup>rd</sup> ICT (315MVA) at 400/230kV Neyveli TS 2:</b> <ul style="list-style-type: none"> <li>Pre-foundation works for the ICT are targeted for completion by 31.07.2026. Erection and commissioning of the ICT are planned to be completed by November 2026, after completion of the civil works, including the foundation curing period.</li> <li>With regard to the permanent works, NLCIL informed that the tender had progressed up to the Pre-Qualification Requirement (PQR) evaluation stage. However, the bidder was disqualified during the evaluation process. Accordingly, the tendering process is required to be re-initiated.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                            | <b>TPS II/TAN-TRANSCO</b> |
| E | <b>Sparing of one number of 315 MVA, 400/ 230 KV ICT at Kayathar 400KV</b><br><b>For Discussion:</b> <ol style="list-style-type: none"> <li>The tendering process for sparing of the 315 MVA, 400/230 kV ICT is still under progress &amp; transportation of the ICT is envisaged within one month.</li> <li>Further, it was informed that the tender is presently under evaluation stage. TANTRANSCO may update on procurement of new ICT</li> <li>PGCIL informed that only the Memorandum of Understanding (MoU) remains to be executed from their end.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>TNSLDC/PGCIL</b>       |
| 4 | <b>Power Shortage scenario of Puducherry</b><br><b>PED to update the following:</b> <ul style="list-style-type: none"> <li>The administrative approval for the proposed 35 MW BESS is awaited prior to award of the work. Subsequently, a separate proposal will be submitted to the Government for approval of the balance 15 MW BESS.</li> <li>Additional connectivity to Yanam has been sought from Gollapalem Substation &amp; the revised estimation is awaited from CGM(Commercial), APTRANSCO. In 240<sup>th</sup> OCC, PED informed that the revised estimate is expected shortly.</li> <li>With regards to temporary diversion of 132 kV Prathap Nagar-Yanam interstate feeder, APTRANSCO informed that, as discussed in the CEA meeting, the construction of one multi-circuit tower is yet to be completed. Upon completion of the tower, the 132 kV Prathap Nagar-Yanam feeder will be shifted to the 132 kV Kakinada-Yanam feeder. APTRANSCO was advised to expedite the pending works and complete the restoration at the earliest</li> </ul> | <b>APSLDC/PED</b>         |
| 5 | <b>Reliable Power Supply to Puducherry &amp; associated system Strengthening</b><br><b>For Discussion:</b> <ul style="list-style-type: none"> <li>PED, Puducherry informed that the transformer augmentation at Thondamanatham is under progress and is tentatively targeted for completion by February 2027.</li> <li>With regard to the proposed works at Bahour and Villianur, it was informed that the tendering process will be initiated after obtaining</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>SR II PGCIL/PED</b>    |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                            |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
|   | <p>approval from the Government of Puducherry, with a tentative target of March 2027. In respect of Karaikal, approval for the required Government land is still awaited.</p> <ul style="list-style-type: none"> <li>SR II PGCIL informed that the proposal has been forwarded to the Corporate Centre Engineering (CCE) for approval.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                            |
| 6 | <p><b>Submission of Static IPv4 Address - SRLDC Outage Portal Access</b></p> <ul style="list-style-type: none"> <li><b>SRLDC Outage Portal</b> (<a href="https://dailyreport.srldc.in/REPORTINGUI-UAT/">https://dailyreport.srldc.in/REPORTINGUI-UAT/</a>) is being secured through implementation of IP whitelisting. Post implementation, access will be permitted only from whitelisted Static IPv4 addresses to enhance cybersecurity.</li> <li>All users/entities are requested to submit their Static IPv4 address details at the earliest to <a href="mailto:srldcoutage@grid-india.in">srldcoutage@grid-india.in</a>, along with an authorization letter for the respective IP address.</li> <li>Early submission is requested to ensure uninterrupted portal access and compliance with cybersecurity requirements &amp; for checking the current IPv4 address, users may visit: <a href="http://www.whatismyipaddress.com">www.whatismyipaddress.com</a></li> </ul> <p><b>For Discussion:</b></p> <p>SRLDC responded that the matter would be discussed internally, and an appropriate deadline for submission of the Static IPv4 address details and migration to the portal would be communicated to all constituents</p> | <p><i><b>SRLDC/Entities who has not furnished the IP addresses</b></i></p> |
| 7 | <p><b>Operational Constraints at Bhadrawati Back-to-Back HVDC Link</b></p> <p><b>Background:</b> Operational issues, including power fluctuations and harmonic concerns, were observed at the Bhadrawati B2B HVDC link. In earlier OCCs, Southern Regional Load Despatch Centre reported harmonic levels exceeding limits at Bhadrawati end, and PGCIL informed that the matter has been referred to Corporate Office.</p> <ul style="list-style-type: none"> <li>In 240<sup>th</sup> OCC, SR I, PGCIL informed that PGCIL (WR) is scheduled to avail a Line Clearance (LC) from 22.07.2026 to 24.07.2026 to carry out the required works on all eight breakers associated with the Bhadrawati Back-to-Back HVDC link.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p><i><b>SR I, PGCIL &amp; SRLDC may respond</b></i></p>                   |

## 24. Outage Planning of Transmission Lines and Elements

### 24.1 Monthly outages of Transmission Lines and Elements proposed in the Outage Coordination Meeting:

- The outages proposed for the month of **September 2026** in respect of Transmission Lines and Elements, State Transmission Utilities, PGCIL, other transmission licensees, and by other regions would be processed and discussed in the Outage Coordination meeting scheduled on **10.08.2026 through VC**.

**Outage statistics for July 2026:** SRLDC furnished the details via e-mail dated 01.08.2026, which are in **(Annexure-24.1)** The analysis will be carried out during the Outage Coordination Meeting on 10.08.2026.

- (ii) The list of outages of Transmission Lines and Elements, proposed for **September 2026**, will be mailed to OCC Google Group after closing the outage submission window on **03.08.2026 (24:00 hr)** in the outage Portal.

➤ *All the entities including generators are requested to ensure participation of their representatives in the Outage Coordination Meeting scheduled on 10.08.2026.*

## **24.2 Consolidated outage calendar for proposed diversion works by project developers**

- a) The Ministry of Power (MoP)/Central Electricity Authority (CEA) has issued a Standard Operating Procedure (SoP) (**Annexure-24.2a**) for execution of infrastructure diversion works involving transmission lines, emphasizing advance planning, coordination among stakeholders, and timely completion of diversion works with minimum impact on grid operation.
- b) It has been observed that, despite transmission outages being facilitated by SRPC/SRLDC through extensive coordination, infrastructure diversion works are frequently deferred or rescheduled. In addition, repeated shutdowns are often sought on the same transmission element by different project developers/concessionaires due to inadequate planning and coordination. Such practices lead to inefficient utilization of approved shutdowns, affect the execution of other parallel outage activities, necessitate frequent revisions to the outage programme, result in ATC/TTC curtailment on critical inter-regional transmission corridors, generation backdown on account of transmission constraints, and adversely impact secure and reliable grid operation.
- c) To facilitate advance and coordinated outage planning and effective implementation of the MoP/CEA SoP, all STUs and Transmission Licensees are requested to furnish a consolidated outage calendar for FY 2026-27 covering all planned infrastructure diversion works requiring transmission outages, indicating the transmission element, project developer/concessionaire, purpose of outage, proposed shutdown period, expected completion schedule, and present status of the works. The calendar shall be updated periodically to facilitate coordinated outage planning and execution.

➤ *STUs/SLDCs/Transmission Licensee may respond*

## **24.3 400kV Jeypore-Gajuwaka D/C Shutdown:**

- a) The shutdown was initially sought during March 2026, coinciding with the SR peak demand period. Considering the prevailing high demand, reduction in inter-regional transfer capability, operational constraints and other system security concerns, the proposal was not agreed in the 235th OCC.
- b) Subsequently, CMD, NHAI, vide letter dated 16.03.2026, requested Chairperson, SRPC to facilitate the shutdown from 06.04.2026 to 27.04.2026 (22 days). However, Chairperson, SRPC, vide letter dated 24.03.2026, advised deferment of the shutdown considering the anticipated summer peak demand, curtailment of transfer capability, operational constraints, concerns expressed by the States and the prevailing election period, while suggesting that the shutdown may be availed after 15.05.2026.
- c) Thereafter, the shutdown was reconsidered in the 237<sup>th</sup> OCC and was facilitated from 15.05.2026 after detailed operational assessment. The outage was also coordinated with the shutdowns of 500 kV Talcher–Kolar HVDC, 400 kV Nellore–Thiruvallam and 400 kV Nellore–Vijayawada diversion works to optimally utilize the available outage window. The forum stipulated that ER, PGCIL

should submit a detailed work plan, furnish weekly progress reports to SRPC/SRLDC and closely monitor the execution by NHAH to ensure strict adherence to the approved timelines.

- d) Despite these conditions, ER, PGCIL, based on requests from NHAH, sought repeated extensions of the approved shutdown period through communications dated 04.06.2026, 13.06.2026, 22.06.2026 and 30.06.2026, extending the shutdown from the originally approved period up to 20.07.2026. Most extension requests were received only on the last day of the approved outage period, citing unforeseen site conditions. Such recurring requests indicate deficiencies in advance planning, site preparedness, resource mobilisation and execution management, which are contrary to the objectives of the MoP SOP.
- e) The forum had repeatedly emphasized that all statutory approvals, distribution-level shutdowns and site readiness should be completed before approaching the OCC for approval of transmission line shutdowns, in accordance with the provisions of the MoP SOP.
- f) In 240<sup>th</sup> OCC, it was observed that the prolonged outage has affected the planning of several important shutdowns in the inter-regional corridor and the Visakhapatnam area and further concluded that ER, PGCIL shall expedite completion of the balance works in coordination with NHAH and ensure early restoration of the 400 kV Jeypore–Gajuwaka D/C line without further slippage in timelines.
- g) ER PGCIL further requested extension of the shutdown up to 27.07.2026 (vide mail dtd 18.07.2026), up to 31.07.2026 (vide mail dtd 28.07.2026) & up to 04.08.2026 (vide mail dtd 31.07.2026).

➤ *May be discussed*

#### **24.4 Replacement of heavily rusted towers in 400kV D/C Nellore PS – SEIL P1 line.**

##### **Background:**

- ❖ The 400 kV D/C Nellore PS – SEIL-P1 line, owned by PGCIL, has experienced severe rusting of towers and hardware due to coastal and pollution conditions, raising concerns on system reliability and safety.
- ❖ A joint site visit was conducted on 05<sup>th</sup> September 2025, and the findings were documented in a detailed report. The report outlines two alternative options to facilitate uninterrupted evacuation of SEIL-P1 generation during the proposed replacement of the rusted towers.

##### **Option–1:**

Connectivity of one circuit of the 400 kV NPS–SEIL-P1 D/C transmission line to 400 kV SEIL-P2, evacuating through APTRANSCO (Manubolu SS, Line–3), and the other circuit of the 400 kV NPS–SEIL-P1 D/C transmission line to 400 kV SEIL-P2, evacuating through APGENCO (Krishnapatnam Switchyard, Line–4).

##### **Option–2:**

Connectivity of one circuit of the 400 kV NPS–SEIL-P1 D/C transmission line through ERS from Tower No. 9 to the span between Tower No. 8 and 9 of the 400 kV NPS–SEIL-P2 line, and connectivity of the other circuit of the 400 kV NPS–SEIL-P1 D/C transmission line through APTRANSCO (Manubolu SS, Line–3).

- ✓ In earlier OCCs, stakeholders were advised to finalize technically feasible options for ensuring uninterrupted evacuation of SEIL generation and examine feasibility of tower strengthening vs replacement.
- ✓ SR-I, PGCIL informed that 3–4 towers are critically affected, with damage being categorized into multiple levels. A technical committee (including IIT Tirupati) has been constituted, and

the assessment report is expected shortly. FRP coating/strengthening is being explored as a remedial measure, with trial implementation on 1-2 selected towers on an experimental basis.

#### **Present Status:**

- ❖ In 240<sup>th</sup> OCC, it was concluded that SR I, PGCIL shall obtain the decision from the Corporate Office at the earliest and take up the approved course of action without further delay. If tower replacement is approved, the work shall be completed before 31.01.2027 (or it will be shifted to FY 2027-28) to avoid further slippage in timelines

**➤ PGCIL may update the detailed tower condition assessment report, including feasibility of FRP coating/strengthening measures.**

#### **24.5 S/D of 400kV S/C N'sagar- Kadapa-1 and 2 lines for diversion works of Transmission line by NHAI**

- ❖ **SR I, PGCIL communication dated 05.11.2025:** Shutdown of 400kV S/C N'Sagar -Kadapa-1 & 2 lines for diversion works of transmission line by NHAI for facilitating the development of 6 lane access-controlled Greenfield Highway from Bengaluru-Vijayawada economic corridor under Bharatmala Pariyojana project.
- ❖ Initially it was scheduled for December and forum approved. However, NHAI kept deferring since last few OCCs & it was concluded that SR I PGCIL shall coordinate with NHAI and submit a firm and realistic shutdown schedule to SRLDC/SRPC, only after confirming preparedness in terms of RoW issues, site readiness and material availability. NHAI had availed S/D for Ckt 1 along with PGCIL construction works where as Ckt 2 was not availed.
- ❖ Subsequently, NHAI vide letter dtd 20.06.2026 had requested from 01<sup>st</sup> August for 15 days and the same S/D for Ckt 2 was approved, as requested. It was concluded that any S/D for the remaining locations, by the different concessionaires, may be planned together and the same may be communicated to NHAI.

**SR I, PGCIL may update the status.**

#### **24.6 Diversion of 400 kV Thiruvalam - Nellore D/C, 400KV Kolar-Thiruvalam S/C, 400KV Kolar-Sriperumbudur S/C line of Multi circuit tower for NHAI Works**

The Bangalore–Chennai Expressway crosses the 400 kV multi-circuit tower at location 461–462, which currently carries the following transmission lines:

- a) 400 kV Thiruvalam–Nellore D/C
- b) 400 kV Kolar–Thiruvalam S/C
- c) 400 kV Kolar–Sriperumbudur S/C

- ❖ NHAI have requested the shutdown of above multi circuit tower for 26 days. However, it has been communicated to NHAI to examine the feasibility of bypassing the 400 kV Kolar–Thiruvalam S/C and 400 kV Kolar–Sriperumbudur S/C lines at the multi-circuit towers. This would enable the establishment of a direct 400 kV Kolar–Sriperumbudur line at the multi circuit tower.

- ❖ SR II, PGCIL had shared bypass arrangement drawings and proposed shutdown plan & in 236<sup>th</sup> OCC, it was concluded that shutdown can be considered only after the SR peak demand period, and the same was to be communicated to NHAI. However, NHAI had not furnished the revised proposal.
- ❖ This item was discussed in 239<sup>th</sup> outage coordination meeting held on 09.06.2026, and concluded to avail the S/D from 20.06.2026 for 25 days. However, it was observed that the S/D was not availed due to the permissions at 110kV Thiruvallam–Melvenkatapuram line is still pending from TANTRANSCO. NHAI is following up with TANTRANSCO to obtain the necessary approval.
- ❖ In 240<sup>th</sup> OCC, **TN SLDC** informed that the concerned DISCOM is willing to facilitate the 110 kV line shutdown on 18.07.2026. In this regard, PGCIL (SR-II) stated that the same would be communicated to NHAI, following which the shutdown may be availed for execution of the works. Further, **SRLDC** informed that the shutdown could be facilitated on 18.07.2026, subject to deferment of the other overlapping shutdowns to ensure secure grid operation.
- ❖ Further, it was concluded that S/D of 400kV Vijayawada-Nellore D/C line and 400kV Nellore-Thiruvallam D/C line can't be facilitated concurrently. Hence it was suggested PGCIL (SR-I) and PGCIL (SR-II) to jointly coordinate and finalize a shutdown schedule ensuring that the outages are planned without overlap, while maintaining system security and facilitating timely completion of the NHAI diversion works.
- ❖ Subsequently, SR I vide mail dtd 21.07.2026 informed that SR-II has informed that NHAI was unable to avail the shutdown of the 400 kV Nellore–Thiruvallam line and had consented to avail the shutdown of 400 kV Vijayawada–Nellore Ckt-I & II the S/D was availed on 22.07.2026. In real time, the S/D was availed on 22.07.2026.

- ***TN SLDC/TANTRANSCO may respond.***
- ***SR II PGCIL may update status of coordination with NHAI.***

#### **24.7      *Shutdown of 400kV D/C Nellore - Vijayawada Ckt-1&2 for diversion works of transmission line by NHAI.***

NHAI vide letter dtd: 05.06.26 has requested the shutdown of 400kV D/C Nellore – Vijayawada Ckt-1 & 2 for the development of the six-lane access-controlled Greenfield Highway from Polavaram (Ch. 260+000) to Marripudi (Ch. 285+500) of NH-544G, Bengaluru–Vijayawada Economic Corridor, under Bharatmala Pariyojana Phase-I in the State of Andhra Pradesh (Package-12).

The shutdown of lines proposed with following schedule for line diversion works:

| <b>Sl. No.</b> | <b>Name of the line</b>                 | <b>Diversion Loc. Nos.</b> | <b>Works involved</b>                                                                     | <b>Period of S/D proposed</b> |
|----------------|-----------------------------------------|----------------------------|-------------------------------------------------------------------------------------------|-------------------------------|
| 1              | 400kV D/C Nellore - Vijayawada line 1&2 | 510 - 514                  | Erection: 5 nos. towers;<br>Dismantling: 3 no. tower;<br>Stringing and destringing works. | 01.07.26 – 22.07.26           |

- ✓ This item was discussed in the 239<sup>th</sup> outage coordination meeting held on 09.06.2026 and concluded that the S/D may avail after revival of Nellore-Thiruvallam NHAI S/D from 17<sup>th</sup> July for 22 days i.e., 7th August.
- ✓ In 240<sup>th</sup> OCC, it was concluded that S/D of 400kV Vijayawada-Nellore D/C line and 400kV Nellore-Thiruvallam D/C line can't be facilitated concurrently. Hence it was suggested PGCIL (SR-I)

and PGCIL (SR-II) to jointly coordinate and finalize a shutdown schedule ensuring that the outages are planned without overlap, while maintaining system security and facilitating timely completion of the NHAI diversion works.

- ✓ SR I PGCIL vide mail dated 17.07.2026, forwarded the request received from NHAI for postponement of the shutdown of the 400 kV Vijayawada–Nellore D/C line to 22.07.2026 due to RoW-related issues & in real time.
- ✓ Subsequently, SR I vide mail dtd 21.07.2026 informed that SR-II has informed that NHAI was unable to avail the shutdown of the 400 kV Nellore–Thiruvallam line and had consented to avail the shutdown of 400 kV Vijayawada–Nellore Ckt-I & II the S/D was availed on 22.07.2026. In real time, the S/D was availed on 22.07.2026

***SR I PGCIL may update status***

#### **24.8 Shutdown of 400kV D/C NP Kunta - Hindupur Ckt-1&2 for diversion works of transmission line by NHAI**

NHAI vide letter dtd: 08.06.26 has requested the shutdown of 400kV D/C NP Kunta – Hindupur Line for the development of the six-lane access-controlled Greenfield Highway from Kodur (Ch. 0+000) to Vanavolu (Ch. 24+300) Bengaluru–Vijayawada Economic Corridor, under Bharatmala Pariyojana Phase-I in the State of Andhra Pradesh (Package-1).

The shutdown of lines proposed with following schedule for line diversion works:

| Sl. No. | Name of the line                  | Diversion Loc. Nos. | Works involved                                                                     | Period of S/D proposed  |
|---------|-----------------------------------|---------------------|------------------------------------------------------------------------------------|-------------------------|
| 01      | 400kV D/C NPKunta - Hindupur line | 99 - 102            | Erection: 4 nos. towers; Dismantling: 2no. tower; Stringing and destringing works. | 01.07.2026 – 15.07.2026 |

- ✓ This item was discussed in the 239<sup>th</sup> outage coordination meeting held on 09.06.2026 and concluded that the S/D may avail from 01<sup>st</sup> July for 15 days i.e., 15<sup>th</sup> July. Any other overlapping S/Ds may be deferred.
- ✓ SR I, PGCIL informed that the works are progressing as per the approved schedule and are being executed within the stipulated timelines & the same was availed from 03.07.2026 in real time and revived back on 18.07.2026

**➤ SR I, PGCIL/SRLDC may update the status**

#### **24.9 Shutdown of 400kV D/C Kadapa - Madugiri Ckt-1s2 for diversion works of transmission line by NHAI.**

- NHAI vide letter dtd: 18.06.26 has requested the shutdown of 400kV D/C Kadapa - Madugiri Ckt-1C2 Line for Development of Six-Lane Access Controlled Greenfield Highway from Kodur (Ch.0+000) to Vanavolu (Ch.24+300) Bengaluru Vijayawada Economic Corridor on HAM Mode under Bharatmala Pariyojana Phase-I in the state of Andhra Pradesh-(Package '1).
- The shutdown of lines proposed with following schedule for line diversion works:

| Sl. No. | Name of the line                         | Diversion Loc. Nos. | Works involved                                                                           | Period of S/D proposed   |
|---------|------------------------------------------|---------------------|------------------------------------------------------------------------------------------|--------------------------|
| 01      | 400kV D/C Kadapa - Madugiri Ckt-1C2 line | 397 - 401           | Erection: 6 nos. towers;<br>Dismantling: 5no. tower;<br>Stringing and destringing works. | 16.08.2026 to 31.08.2026 |

- This S/D was discussed in 240<sup>th</sup> Outage co-ordination meeting on 09.07.2026 & approved from Last week of August 2026 after observing the line loadings from the DLR installed on 400kV Gooty-Pavagada, tentatively 26.08.2026 for 20 days.

➤ ***SRLDC/SR I PGCIL may update the status***

#### **24.10 Shutdown of 400kV Vijayawada - Nellore Ckt-3 & 4 for diversion works of transmission line by NHAI.**

- NHAI vide letter dtd: 30.06.26 has requested the shutdown of 400kV Vijayawada - Nellore Ckt-3C4 Line for Development of Six-Lane Access Controlled Greenfield Highway from Polavaram (Km 260+000) to Marripudi (Km.285+500) Bengaluru Vijayawada Economic Corridor on HAM Mode under Bharatmala Pariyojana Phase-I in the state of Andhra Pradesh- (Package 12).
- The shutdown of lines proposed with following schedule for line diversion works:

| Sl. No. | Name of the line               | Diversion Loc. Nos. | Works involved                                                                           | Period of S/D proposed   |
|---------|--------------------------------|---------------------|------------------------------------------------------------------------------------------|--------------------------|
| 01      | 400KV VIJAYAWADA- NELLORE AP-3 | 471 - 472           | Erection: 2 nos. towers;<br>Dismantling: 1no. tower;<br>Stringing and destringing works. | 10.08.2026 To 23.08.2026 |
| 02      | 400KV NELLORE_AP-VTPS_IV-1     |                     |                                                                                          |                          |

- In 240<sup>th</sup> OCC, the S/D was approved from 12<sup>th</sup> August for 14 days, without overlapping of other Nellore S/Ds.

➤ ***SR I PGCIL/SRLDC may respond***

### **25. Review of Maintenance schedule of Units (CGS/PPs connected to ISTS)**

The MoP approved Outage Plan for SR generators for the period from **April 2026 to March 2027** (segregated month-wise, Generator wise) was circulated and outage plan for the period from August 2026 to October 2026 is at (**Annexure-25a**)

➤ ***All the SLDCs/GENCOS/Generators may strictly adhere to the approved Maintenance schedule & hereby requested to come prepared for update the status.***

### **26. ERS-Cumulative line length (ckm) data- kV level wise wrt States/POWERGRID/TBCB projects - CEA data requirement**

#### **A. Compliance of ERS in Southern Region**

- As per MoP/CEA directions, ERS readiness in SR was reviewed on 10.05.2025; states/licensees with shortfalls were advised to prioritize procurement or mutual agreements.

- b) The status is being reviewed in OCC and SRPC meetings.

#### Updated Status as per 240<sup>th</sup> OCC

| Entity         | ERS Required             | ERS Available | Shortfall / Remarks                                                                                                                                                                                                                                                                                                       |
|----------------|--------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Andhra Pradesh | 5                        | 2             | <b>Shortfall of 3.</b><br><b>240<sup>th</sup> OCC:</b> Administrative approval accorded. Tender specifications being prepared for 1 set of ERS.                                                                                                                                                                           |
| Telangana      | 5                        | 1             | <b>Shortfall of 4.</b><br><b>240<sup>th</sup> OCC:</b> TGTRANSCO informed that 2nd ERS system is being planned. Simultaneously, exemption is being planned to be sought from CEA to reduce the requirement from 5 Nos. to 2 Nos., considering the comparatively lower seismic risk in the geographical area of Telangana. |
| Karnataka      | 4                        | 1             | <b>Shortfall of 3.</b><br><b>240<sup>th</sup> OCC:</b> KPTCL informed that 1 No. of 400 kV tower available at Bangalore and 1 No. of 400 kV tower at Hubli, which may be considered as 1 ERS system.<br>Tendering process initiated for additional ERS set.                                                               |
| Kerala         | 2                        | 0             | <b>Shortfall of 2.</b><br><b>240<sup>th</sup> OCC:</b> KSEBL informed that Board has given approval for new Make in India conditions. Re-tendering process is going on.                                                                                                                                                   |
| Tamil Nadu     | 6                        | 2             | <b>Shortfall of 4.</b><br><b>240<sup>th</sup> OCC:</b> TANTRANSCO informed that four additional ERS units are planned, including one at 765 kV level, considering future transmission expansion and upcoming 765 kV infrastructure. TANTRANSCO informed they will initiate action shortly.                                |
| Puducherry     | Mutual sharing agreement | 0             | <b>240<sup>th</sup> OCC:</b> PED informed that PGCIL had given consent to share for natural calamities only                                                                                                                                                                                                               |
| PGCIL – SR-II  | 4                        | 2             | <b>Shortfall of 2</b><br><b>239<sup>th</sup> OCC:</b> POWERGRID stated that order is placed for 5 Nos. for SR.<br>SR-1 – 2 Nos<br>SR-2 – 3 Nos.<br>Order placed on 06.10.2025. Delivery is expected by April 2027                                                                                                         |
| PGCIL – SR-I   | 5                        | 3             | <b>Shortfall of 2</b>                                                                                                                                                                                                                                                                                                     |

|                                                 |                          |   |                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------|--------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Kudgi TL                                        | 1                        | 0 | Atleast 1 ERS set is required for Kudgi TL in SR which is compatible upto 765 kV.<br>Sterlite Invt and Kudgi TL have a binding agreement that allows Kudgi TL to deploy ERS in an emergency situation.                                                                                                                                                                                           |
| MTL, RSTCL, KNTL, Gadag (IndiGrid)              | 1                        | 0 | Atleast 1 ERS set is required for Indigrid in SR which is compatible upto 765 kV.<br><b>240<sup>th</sup> OCC:</b> Placed order for procuring ERS in SR. Expected by April 2027.                                                                                                                                                                                                                  |
| PGCIL TBCBs (VTL, PNMTL, PSITSL)                | -                        | - | Considered in PGCIL ckm as per deliberation in 52 <sup>nd</sup> TCC/55 <sup>th</sup> SRPC meeting.                                                                                                                                                                                                                                                                                               |
| WKTL, Karur TL (Adani Energy Solutions Limited) | 1                        | 0 | Atleast 1 ERS set is required for AESL in SR which is compatible upto 765 kV.<br><b>240<sup>th</sup> OCC:</b> 3 ERS are present on PAN India Basis. 1 ERS in NR (400 kV – 14 towers at Bikaner SS), 2 ERS in WR (765 kV – 18 towers in each set at Koradi SS(Nagpur) and Sami SS(Gujarat)). In case of emergency, the ERS would be moved to SR in few days from Koradi SS which is in proximity. |
| Gadag TL (Gadag IIA) (Renew)                    | Mutual sharing agreement | 0 | <b>240<sup>th</sup> OCC:</b> ReNew (Gadag Transmission Limited) currently has access to one ERS set located at Kutch (Gujarat), compatible up to 400 kV. In addition, two more ERS sets are planned for procurement, to be stationed at Kutch/Solapur region, which can be mobilized for ReNew's assets during any emergency.                                                                    |

## 27. Crisis/Disaster Management Plan (CMP/DMP- December 2025) of Ministry of Power

- SRPC had noted that the PSLF Division, CEA had circulated the revised CMP and DMP (Dec 2025) to strengthen emergency preparedness and disaster response in the power sector, and had requested all entities to align their respective documents accordingly. The matter, which had been deliberated in the 234<sup>th</sup> OCC Meeting, where the changes in CMP 2025 and DMP 2025 when compared with that of CMP 2024 and DMP 2024 documents were highlighted and subsequently followed up in the OCC meetings to ensure timely compliance.
- It had also been noted that the Standard Operating Procedure (SOP) for Transmission System Restoration, issued by CEA in May 2025, held critical importance in complementing the DMP by providing detailed technical and operational guidance for restoration activities post-disaster. Entities had been advised to review and implement the SOP in conjunction with their CMP/DMP to ensure coordinated and effective response during contingencies.

- c) It had been reiterated that CMP and DMP were mandatory documents and were to be aligned with MoP/CEA guidelines, institutionally adopted, and regularly updated. Entities had been advised to prepare these documents in-house to maintain confidentiality and ensure better control, with version control, date stamping, and update logs maintained as part of IMS practices.
  - d) All SLDCs, TRANSCOs, GENCOs, and DISCOMs had been requested to confirm completion of alignment to SRPC as per committed timelines. Entities had also been advised to conduct quarterly mock drills, submit reports to CEA (PSLF Division), and nominate/confirm nodal officers on the DRIPS portal for infrastructure inventory updates.
  - e) SRPC and SRLDC had offered to conduct capacity-building workshops for entities requiring support in the formulation and implementation of CMP, DMP, and SOP. On 14.07.2025, SRPC Secretariat and SRLDC had conducted an awareness session for TGTRANSCO utilities, as requested by them, to facilitate better understanding and implementation of the CMP, DMP, and SOP requirements.
- ✓ All SLDCs, TRANSCOs, GENCOs, and DISCOMs were advised to confirm completion of alignment activities to SRPC within the committed timelines, conduct quarterly mock drills and submit reports to CEA (PSLF Division), and nominate/update nodal officers on the DRIPS portal for infrastructure inventory management
  - ✓ The latest status of CMP/DMP Alignment – State-wise/Central Sector is as follows (240<sup>th</sup> OCC)

***The updated Status as per 240<sup>th</sup> OCC***

| State/Entity          | SLDC / Control Center                                                                                                                                                                                                                                              | TRANSCO                                                                                                                                                                                                                                                            | GENCO                                                                                                                                                                                                                                                                                                                                                                                                                                               | DISCOMS                                                                                                                                                                                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Andhra Pradesh</b> | Both CMP & DMP for AP-TRANSCO (includes SLDC) along with 3 DISCOMs were submitted as per 2024. However, it would be updated as per the latest 2025 document.                                                                                                       | Both CMP & DMP for APTRANSCO (includes SLDC), along with 3 DISCOMs were submitted as per 2024. However, it would be updated as per the latest 2025 document.                                                                                                       | Dr. NTPS(VTPS) station document updated as per CMP/DMP 2025 document. RTPP, SDSTPS stations are in the process of preparation of their CMP/DMP documents.                                                                                                                                                                                                                                                                                           | Both CMP & DMP for APTRANSCO (includes SLDC), along with 3 DISCOMs were submitted as per 2024. However, it would be updated as per the latest 2025 document.                                                                                                       |
| <b>Karnataka</b>      | BESCOM is preparing for all DISCOMs/SLDC/TRANSCO except for KPCL. All the CMP/DMP were furnished to Higher Management for approval. BESCOM was requested to incorporate the new changes as per the 2025 guidelines in the document put up for management approval. | BESCOM is preparing for all DISCOMs/SLDC/TRANSCO except for KPCL. All the CMP/DMP were furnished to Higher Management for approval. BESCOM was requested to incorporate the new changes as per the 2025 guidelines in the document put up for management approval. | CMP/DMP documents as per 2024 guidelines were approved and ready. The modification wrt 2025 guidelines are being carried out.                                                                                                                                                                                                                                                                                                                       | BESCOM is preparing for all DISCOMs/SLDC/TRANSCO except for KPCL. All the CMP/DMP were furnished to Higher Management for approval. BESCOM was requested to incorporate the new changes as per the 2025 guidelines in the document put up for management approval. |
| <b>Kerala</b>         | CMP & DMP compiled across all wings (Transco, Genco, Discom) and formulation of SDMG submitted to Govt. After the formation of the new government, the matter will be followed up.                                                                                 |                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                    |
| <b>Tamil Nadu</b>     | Documents are prepared. After internal deliberations, would put up to competent authority for approval                                                                                                                                                             | Documents are prepared. After internal deliberations, would put up to competent authority for approval                                                                                                                                                             | <ul style="list-style-type: none"> <li>• NCTPS St-I: have updated documents wrt CMP/DMP 2024(letter dated 16.02.2026).</li> <li>• NCTPS Stage II documents wrt CMP/DMP 2024 were furnished on 02.03.2026.</li> <li>• MTPS St-I: Have updated document wrt DMP 2024(letter dated 09.02.2026).</li> <li>• MTPS St-II : have updated document wrt DMP 2024(letter dated 31.01.2026).</li> </ul> GENCO: Received documents from all Generating Stations | Documents are prepared. After internal deliberations, would put up to competent authority for approval                                                                                                                                                             |

|                           |                                                                                                                                                                       |                                               |                                                                                                                                                                                 |                                                |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
|                           |                                                                                                                                                                       |                                               | including Hydro and in the process of compiling stage as per latest CEA 2025 document and soon would be submitted to management for approval.                                   |                                                |
| <b>Telangana</b>          | Vide mail dated 22.04.2026, TGS LDC communicated that SLDC draft CMP/DMP has been prepared in line with CEA CMP/DMP-2025 and furnished for suggestions                | TGTRANSCO is yet to prepare CMP/DMP documents | TGGENCO vide letter dated 17.02.2026 communicated that they have updated their documents as per CMP 2024 and DMP 2024 documents.<br><br>They have to update wrt 2025 guidelines | TGDISCOMs are yet to prepare CMP/DMP documents |
| <b>Puducherry</b>         | CMP/DMP documents were prepared wrt earlier guidelines. Updation wrt 2024/2025 guidelines needs to be taken up                                                        | PED is yet to prepare CMP/DMP documents       |                                                                                                                                                                                 | PED is yet to prepare CMP/DMP documents        |
| <b>PGCIL (SR-I/SR-II)</b> | <b>240<sup>th</sup> OCC:</b> CMP/DMP documents aligned with MoP guidelines.                                                                                           |                                               |                                                                                                                                                                                 |                                                |
| <b>NTPC</b>               | <b>240<sup>th</sup> OCC:</b> CMP/DMP documents aligned with MoP guidelines.                                                                                           |                                               |                                                                                                                                                                                 |                                                |
| <b>NPCIL</b>              | <b>57<sup>th</sup> SRPC:</b> CMP/DMP already in place.                                                                                                                |                                               |                                                                                                                                                                                 |                                                |
| <b>NLCIL</b>              | <b>240<sup>th</sup> OCC:</b> CMP/DMP documents aligned with MoP 2024 guidelines. The updation of documents wrt 2025 guidelines is expected to be completed in a week. |                                               |                                                                                                                                                                                 |                                                |
| <b>NTPL</b>               | <b>57<sup>th</sup> SRPC:</b> Under Preparation, would complete at the earliest.                                                                                       |                                               |                                                                                                                                                                                 |                                                |

➤ *Entities may update the status*

## 28. Workforce Adequacy Guidelines for Load Dispatch Centers and Guidelines for deputation of Workspace from SLDCS to Grid - India for fixed terms

### A. Work Adequacy Guidelines

- a) The Ministry of Power (MoP) vide communication dated **30.10.2024** issued:
  - i. **Workforce Adequacy Guidelines** for Load Despatch Centres (LDCs), aimed at benchmarking manpower adequacy for SLDCs, RLDCs, and NLDC.
  - ii. **Guidelines for Deputation of Workforce** from SLDCs to Grid-India, encouraging fixed-term collaborative deputations to promote capacity building and cross-functional exposure.
- b) The Ministry of Power, vide letter dated 25.11.2024, directed States/UTs to identify staffing gaps in their SLDCs and implement a phased recruitment plan, while ensuring mandatory training and certification of all system operators as per national standards. The need for urgent compliance with these Workforce Adequacy Guidelines was emphasized by the Hon'ble Minister during the Power Ministers' Conference on 12.11.2024 and acknowledged by all States/UTs.
- c) The indicative **staffing norms** as per the Guidelines are:

LDCs- Workforce Staffing Norms

|             | NLDC | RLDC | Large SLDC | Medium SLDC | Emerging SLDC |
|-------------|------|------|------------|-------------|---------------|
| Grand-Total | 153  | 138  | 144        | 103         | 62            |

Function-wise workforce allocation is at **Annexure-27a**.

d) Status of staffing updated in 240<sup>th</sup> OCC is given below:

| SLD C | Norm | Sanctioned | Present                                                                                                         | Status/ <u>Latest Updates</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------|------|------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AP    | 144  | 96         | 68 (Technical executives = 61, Non-executive (Accounts) =7)<br>Rest will be recruited at the Assistant Engineer | APERC approval received.<br><b>57<sup>th</sup> SRPC:</b><br>APTRANSCO stated that they would recruit 300 personnel for various posts by April-2026 end and some personnel would be assigned to APSLDC.<br><b>240<sup>th</sup> OCC:</b><br>3 nos. of additional engineers have joined on deputation basis.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| KAR   | 144  | 99         | 91<br>As per the latest guidelines, the 60 Nos staff from field (communication), will be excluded.              | <b>240<sup>th</sup> OCC:</b><br>KPTCL informed that the proposal was pending with the Government of Karnataka for approval of 144 posts and informed that restructuring was parallelly progressing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| KER   | 103  |            | Technical executives = 48,<br>Non executives = 19<br>(Total = 67)                                               | <ul style="list-style-type: none"> <li>Reorganization and restructuring plan are ongoing; separate arrangements will be made for including more workforce in LD. Inclusion in the revised proposal is planned.</li> <li>Total sanctioned strength remains unchanged; however, as an urgent requirement, they have sought approval from higher management for six additional posts on a short-term basis (2 Executive Engineers, 2 Assistant Executive Engineers, and 2 Assistant Engineers).</li> </ul> <b>240<sup>th</sup> OCC:</b><br>KSEBL stated that 6 posts were approved as part of next transfer and posting and also stated that restructuring was progressing in good pace and expected to be completed by September 2026 end. |
| TN    | 144  | 57         | 57                                                                                                              | <b>240<sup>th</sup> OCC:</b><br>TANTRANSCO had informed that in principle approval for 49 posts were taken and 18 posts were under administrative approval.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

|            |     |    |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------|-----|----|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TG</b>  | 144 | 87 | <b>98 (Technical Executives = 71, Non-Technical Executive =27)</b> | <p>33 additional have been approved. Recruitment ongoing.</p> <p>Technical Executives = 71, Non-technical Executive (Supervisors and workmen)=27.</p> <p>Additional Technical Executives plan:<br/>June 26 end = 34,<br/>Dec 26 = 10,<br/>June 27 = 10.</p> <p>Non-Technical Executive strength is planned to be reduced to 20 by June 2027.</p> <p><b>240<sup>th</sup> OCC:</b></p> <p>TGTRANSCO informed that as per the norms the number of personnel shall be 144. The sanctioned posts are 59 and the strength of Executive working were 71. They also informed that the Management had approved 120 posts, as per the CEA guidelines, for Executives other than finance and HR to be inducted by Dec 2026. Balance 24 would be for the HR and finance wings, with a plan to be shifted from the existing posts in TGTRANSCO.</p> |
| <b>PED</b> | 62  |    | <b>Technical executive = 9, Non-executive = 3</b>                  | <p>It is proposed to fill up 32 executives earmarked for SLDC by December 2027. (PED stated that the proposal would be submitted to the Government by February/March 2026).</p> <p><b>240<sup>th</sup> OCC:</b></p> <p>PED stated that they have requested for 62 nos. of posts and the Government has sought some clarification, the same has been furnished by PED. It might also go upto MoP/MHA for clearance. Presently 12 nos. of posts are filled up</p>                                                                                                                                                                                                                                                                                                                                                                        |

- a) Given the presence of higher management, SRPC had requested that the matter be accorded due priority and necessary instructions issued to strengthen the SLDC workforce in line with the notified norms, as adequate manpower is essential for the efficient operation of these specialized functions.
- b) CERC in its Order dated 05.10.2025 in 9/SM/2024 has suggested

*With the round-the-clock system operation, the State Load Despatch Centers are expected to contribute to Market Operation, Communication, IT services, cyber security and other establishment services to carry out the various functions with a suitably skilled workforce. There has*

been a dynamic shift in the power sector with the large-scale integration of renewable sources, and it brings new challenges. Furthermore, there should be a sufficient number of power system operators so that the grid can be operated safely and efficiently. Keeping in view of above facts, urgent action is required to ensure the availability of adequate number of manpower and for this SLDCs need to take up the matter with their management to provide the manpower as per their current sanctioned strength and also to approach their Management/ respective State Regulatory Commissions for approval of additional manpower in terms of MoP's Workforce Adequacy Guidelines for Load Despatch Centres. Addressing these shortfalls is essential for ensuring the smooth operation of SLDCs and effective monitoring, compliance and grid management. SLDCs may also work towards framing a separate HR Management and Development Policy, which should be aimed at structuring the movement of officers in specialised functions without disrupting operations and ensuring smooth staffing, structured job rotation, minimum tenure and continuous skill development of personnel. SLDCs also need to work towards improving the working environment and upgrading their infrastructure. In this regard, the HR policy framed by UPSLDC may be referred to by SLDCs.

➤ **States/UT/Entities may update**

**B. Deputation of workspace from SLDCs to Grid - India for fixed terms**

- As part of the Ministry of Power's broader initiative to enhance system operations and capacity building at Load Despatch Centres, a short-term knowledge-sharing exchange program covering System Operation, Market Operation, System Logistics, REMC function between RLDCs and SLDCs to foster cohesion and knowledge exchange was introduced.
- This was deliberated in the 54<sup>rd</sup> TCC and 57<sup>th</sup> SRPC and further followed up in OCC Meetings.
- The latest update is as follows:

| Visit of SLDC officials to SRLDC (02.06.2025 - 21.10.2025) |                          |                  |                  |                         |                  |       |
|------------------------------------------------------------|--------------------------|------------------|------------------|-------------------------|------------------|-------|
| State                                                      | System Operation (Shift) | System Studies   | Market Operation | Market Operation & REMC | System Logistics | Total |
| TN                                                         | 21                       | 8                | 14               | 9                       | -                | 52    |
| TG                                                         | -                        | 3                | 4                | 1                       | 1                | 9     |
| AP                                                         | 1                        | -                | 1                | -                       | 2                | 4     |
| KA                                                         | 2                        | -                | -                | -                       | -                | 2     |
| KER                                                        | 2                        | -                | -                | -                       | -                | 2     |
| Total                                                      | 26                       | 11               | 19               | 10                      | 3                | 69    |
| Status of deputation from SRLDC to states is as follows:   |                          |                  |                  |                         |                  |       |
| Utility                                                    | Market Operation         | System Operation | Cyber Security   | SCADA                   | System Logistics |       |
| KPTCL                                                      | 1                        | 1                | 1                |                         |                  |       |
| KSEBL                                                      |                          | 3                | 3                | 3                       |                  |       |
| PED                                                        | 2                        | 2                | 2                |                         | 2                |       |

➤ **SRLDC/SLDCs may update**

- In 57<sup>th</sup> SRPC-54<sup>th</sup> TCC meeting, it was noted that, subsequent to the peak demand season, SRLDC would be coordinating for all the exchange programs from SLDC to SLDC, RLDC to SLDC & SLDC to RLDC, to foster cohesion and knowledge exchange among them. Further in 238<sup>th</sup> OCC, SRLDC stated that tentatively from July 2026 onwards, they would coordinate all exchange programs.

### C. Training and Certification of SLDC staff

CERC in its Order dated 05.10.2025 in 9/SM/2024 has suggested

- *The continuous training and certification for SLDC staff ensure that an adequate workforce is trained and certified annually, improving operational preparedness and technical competence of the SLDCs. It is suggested that the trained staff should ideally not be shifted from the SLDCs, and to attract the staff for working in SLDCs, incentive provisions can be incorporated for the certified staff under the Fee and Charges of the SLDCs.*
- *RLDCs are directed to conduct structured capacity-building programs in collaboration with NLDC to equip SLDC personnel with the required technical skills*

**In the Meeting,** SRLDC stated that the requirement for knowledge-exchange modules had been taken up with all SLDCs. The SLDCs may communicate to SRLDC the specific modules for which exchange programmes may be organized. SRLDC shall coordinate and arrange such programmes in consultation with the concerned SLDCs.

## 29. Submission of FRC/FRP Calculation & High-Resolution Data as per IEGC, 2023

- a) As per IEGC 2023, clause 30, Frequency response characteristic (FRC) calculation shall be carried out by each control area for any load or generation loss incident involving net change of more than 1000 MW of load or generation or a frequency change involving 0.1 Hz or more for the event notified by the NLDC.
- The generator is required to submit the data within two days of the event notification from NLDC. As soon as the event is notified, SRLDC also share this information in the OCC group for awareness. Now that the procedure has been notified, **it is up to the generators to submit the data in a timely manner.**

The following were concluded for compliance:

- ❖ Generators must resolve technical bottlenecks, especially at low loads.
- ❖ Internal root-cause analysis and corrective actions to be taken proactively.
- ❖ Performance will continue to be monitored; **persistent underperformance may impact FRP-linked incentives.**
- ❖ SRPC had conducted a Special Meeting to deliberate on Free Governor Mode of Operation (FGMO) Performance during FY 2025-26 in Southern Region on 31.07.2026 at 10:00 hrs.
- Average Monthly/Cumulative FRP and FRC for all Control Areas may be presented by SRLDC

## 30. Partial Outages observed in state generators:

### Agenda Item in OCC

- 1) All generators to expedite the actions for mitigating the Partial Outage.
- 2) The tie ups for the imported coal to be planned in advance.
- 3) The information w.r.t coal status and plan for imported coal etc to be informed to SRLDC/SRPC timely.

- 4) SLDCs to ensure that reason for partial outage passed on to SRLDC/SRPC is validated since the same is furnished to CEA/MoP.
- 5) The following to be noted for compliance:

| Point                         | Details                                                                                                                                                               |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SR Peak Vigilance</b>      | All thermal power plants must be more vigilant to maintain lower partial outages and support the grid during SR peak.                                                 |
| <b>Partial Outage Updates</b> | Generating plants should clearly update the reasons for higher average partial outages, focusing on technical reasons over poor coal quality, which can be secondary. |
| <b>Data Coordination</b>      | All entities should ensure proper coordination between generators (State LDCs, TPPs, IPPs, and ISGS) and SRLDC for accurate and consistent data updates.              |
| <b>Clarity in Formats</b>     | SRLDC should discuss with GENCOs to clarify the data formats.                                                                                                         |

**The following to be noted:**

- ❖ Partial outages during non-solar hours (19:00–24:00 hrs) are a serious concern as grid demand is at its peak and thermal support is essential.
- ❖ It was stressed that technical problems such as ID/FD fan loading, ESP constraints, and control valve issues must be rectified without delay.
- ❖ Coal quality improvement was identified as a key requirement, and utilities were urged to pursue this with suppliers vigorously.
- ❖ SRPC Secretariat/SRLDC had stated that if corrective actions are not visible, the matter may need to be escalated by writing to the respective CMDs/Chairmen for intervention.
  - ❖ In 239<sup>th</sup> OCC, it was concluded all generating stations shall continue efforts to minimize partial outages, particularly during the evening peak period (19:00–24:00 hrs), by addressing technical constraints, improving coal quality management, and ensuring timely and accurate reporting of outage reasons through the respective SLDCs.

**31. CEA (Flexible Operation of Coal Based Thermal Power Generating Units) Regulation 2023.**

- (i) CEA issued a Gazette Notification dated January 30, 2023, regarding the flexible operation of coal-fired thermal generating units, stating that these units must have flexible operation capabilities with a minimum power level of 55% within one year of Notification, i.e. by January 2024 and with a minimum power level of 40 % (as per the Phasing Plan specified by the authority from time to time) at the following Ramp rate:

| From | To   | Ramp Rate |
|------|------|-----------|
| 40%  | 55%  | 1%        |
| 55%  | 70%  | 2%        |
| 70%  | 100% | 3%        |

- (ii) CEA has prepared a roadmap for achieving the minimum load operation in a phased manner. Initially, it was proposed to implement flexibilization in a few thermal units of Central/State/Private sector on a pilot basis in 2023.
- (iii) **The following Central/State/Private sector in Southern Region had been included in the proposal to implement flexibilization on a Pilot basis in 2023:**

| Phase                                                                                           | Sector  | Organization | Name of Project | Unit No. | Capacity (MW) |
|-------------------------------------------------------------------------------------------------|---------|--------------|-----------------|----------|---------------|
| Pilot                                                                                           | Central | NTPC         | Simhadri STPS   | 3        | 500           |
| Pilot                                                                                           | Central | NLCIL        | Neyveli New TPS | 2        | 500           |
| Pilot                                                                                           | State   | KPCL         | Yermarus TPS    | 1        | 800           |
| KPCL-Yeramarus TPS had received an exemption up to Benson Point.                                |         |              |                 |          | 5% more than  |
| Pilot                                                                                           | Private | CEPL         | Muthiara        | 2        | 600           |
| APL had received an exemption for MPGL (erstwhile CEPL) and nominated Raigarh TPP in its place. |         |              |                 |          |               |

- i. CEA vide notification dated 15.12.2023 had published the Final Phasing Plan as approved by CEA. **Five (5)** Phases (including Pilot) had been specified. The following needed to be ensured:

| Phase       | Period                       | No. of Units | Total Capacity of SR Generators |
|-------------|------------------------------|--------------|---------------------------------|
| Pilot Phase | Up to March 2024             | 4            | 2400 MW                         |
| Phase 1     | July 2024 – June 2026        | 31           | 18405 MW                        |
| Phase 2     | July 2026 – June 2028        | 5            | 2980 MW                         |
| Phase 3     | July 2028 – December 2029    | 20           | 7560 MW                         |
| Phase 4     | January 2030 – December 2030 | 43           | 10040 MW                        |

**PHASE-IV: Duration: January, 2030 to December, 2030** (In case the utilities comprehend that 40% operation of units having age more than 40 years under this phase is not viable/possible, the utilities may opt for **2-shift operation** by suitable retrofits/study/tests. However, the duration for the retrofits including the study/test of this phase shall be the same.)

- ii. CEA vide communication dated 30.05.2024 had intimated that Minimum Power Level of **55%** is effective in the country from **01.02.2024**.
- iii. MoP vide communication dated 28.08.2024 enclosing a detailed Note on thermal flexing and need for empowerment of State Load Despatch Centre for reliable operation of the synchronous power system in India had sought the intervention of Higher Management(Chief Secretary/Special Secretary(Energy/Power) all States/UTs to pursue the respective SERCs to introduce enabling of provisions for Thermal Flexibility in line with the CEA Flexibility Regulations 2023 and issue necessary directions to equip and empower the SLDCs
- iv. NLDC vide communications dated 02.09.2024 had taken up the urgent need for achieving the Technical Minimum Load of 55 % as mandated by CEA Flexibility Regulations and had sensitized that the flexible operation of conventional generating plants is required for operation with high renewable generation sources.

- v. The State wise Phase wise segregation is given below:

| Entity                                  | Phase 1 | Phase 2 | Phase 3 | Phase 4 |
|-----------------------------------------|---------|---------|---------|---------|
| <b>APGENCO &amp; STU connected IPPs</b> | 3520    | 1180    | 1130    | 1680    |
| <b>TGGENCO &amp; STU connected IPPs</b> | 3080    | 600     | 1000    | 250     |
| <b>KPCL &amp; STU connected IPPs</b>    | 1500    |         | 3260    | 1520    |
| <b>TNPGCL &amp; STU connected IPPs</b>  | 2325    |         | 250     | 2520    |
| <b>NTPC &amp; NTECL</b>                 | 4400    |         | 1000    | 2600    |
| <b>NLCIL &amp; NTPL units</b>           | 1000    |         | 920     | 1470    |
| <b>ISTS connected IPPs</b>              | 2580    | 1200    |         |         |

- **Phase-I identified generators to furnish latest updates via email to SRPC Secretariat/CEA**
- **State GENCOs to approach respective SERCs for compensation mechanism as proposed at ISTS Level.**

- vi. CERC in its Order dated 15.10.2025 in Petition No 9/SM/2024 had suggested

*Some of the state generating stations with a total capacity of 29,364 MW are not able to achieve the MTL of 55% due to commercial as well as technical reasons. It is suggested that the States' generators may have interactive sessions with ISGS to troubleshoot the issues, where older units of 210 MW are able to operate at an MTL of 55%. State Generators may also visit the older generating stations of ISGS, like NTPC and others. Enablement of backing down of all thermal generating units till MTL of 55% shall result in availability of additional down reserves. The States should also come up with a partload compensation mechanism for thermal power plants and also explore the possibilities for the two-shift operation of the thermal generating stations, keeping in view the large RE integration in the country.*

- vii. TPR&M division, CEA vide letter dated 20.11.2025 (**Annexure-31a**) communicated regarding Furnishing of progress and updates of Phase-I units identified under CEA (Flexible Operation of Coal Based Thermal Power Generating Units) Regulation. 2023 of Units. The progress and updates as per the format attached with the letter to be sent to TPRM division CEA (<cetprm-cea@gov.in>) with a copy to SRPC. It is requested to furnish the progress and updates (as per the attached format) of Phase-I units by November 2025 end and there after ever month.
- viii. **All generators are requested to complete the retrofit, control system tuning, trial runs etc. all off units under Phase-I by June 2026, in consultation with OEM positively.**
- ix. In the 235<sup>th</sup> OCC Meeting, forum was appraised that a review meeting was held under the chairmanship of PCE-II, CEA on 21.01.2026 to review the progress and status of the Pilot Phase and Phase-I of the phasing plan for achieving 40% MTL operation of thermal power generating units.
- x. The status of Units identified under Phase 1 (July 2024 – June 2026) is at (**Annexure-31b**). **GENCOs noted for compliance.**

## 32. Ensuring Transmission Adequacy and reliable operation of State Networks

All utilities shall furnish updates pertaining to intra-state transmission lines at the earliest.

- **SRLDC may present the same.**

➤ *All utilities may update.*

The updated list of transmission element constraints along with the proposed mitigation measures are enclosed as **Annexure-32a**. All utilities were requested to review and update the status of the respective constraints and furnish their inputs at the earliest.

### 33. Compliance to direction as per CERC Order dated 11.09.2023 in Petition No. 132/MP/2022

- (i) CERC order dated 11.09.2023 in Petition No. 132/MP/2022 in the matter of over drawl from the grid by regional entities leading to insecure operation of the grid and other associated matters had directed the respondent SLDCs to adhere to some action Plan.
- a) SRLDC vide communication dated 12.01.2024 had taken up with the concerned States quoting the provisions in the Order and had requested to submit the quarterly report to SRLDC on status of implementation of the action plan.

As per the directions in the Order dated 11.09.2022 on Petition No 132-MP-2022 the following direction may be noted:

**Quote:**

*We direct the respondents to strictly adhere to the Action plan as above. SLDCs are directed to submit the quarterly report to the SRLDC on status of implementation of the action plan. Any modification in action plan keeping in view issues arising while implementation, may be discussed and finalised at RPC forum.*

*Unquote*

- ✓ SRLDC, through its letter dated **22.05.2026** had reviewed the compliance report submitted by TANTRANSCO regarding the directions issued by the Hon'ble CERC in **Petition No. 132/MP/2022**, which pertained to persistent overdrawal by Southern Region constituents during low-frequency conditions.
- ✓ Based on operational data for **Q4 of FY 2025-26 (January–March 2026)**, SRLDC observed that despite various corrective measures reported by TANTRANSCO, significant overdrawal and schedule deviations continued. During the quarter, **1066 time blocks (12% of total time blocks)** recorded overdrawal exceeding **250 MW**, with the maximum overdrawal reaching **1252.52 MW** and the maximum overdrawal under low-frequency conditions reaching **1224.22 MW**.
- ✓ SRLDC had emphasized that the continued occurrence of such deviations indicates the need for stronger grid discipline and improved operational practices in accordance with the Indian Electricity Grid Code (IEGC). TANTRANSCO was advised to strengthen real-time operational response, improve demand and renewable energy forecasting, ensure adequate reserve management, and minimize persistent overdrawal and large deviations.
- ✓ Accordingly, TANTRANSCO was requested to take necessary corrective actions and ensure strict compliance with the directions of the Hon'ble CERC to facilitate secure and reliable grid operation.
- ✓ SRLDC noted that AP, TN and Karnataka had furnished the report for Q4 of FY 2025-26. AP and TN had furnished the report for Q1 of FY 2026-27. Karnataka was requested to furnish the report for Q1 of FY 2026-27
  - ***TN SLDC may respond***
  - ***States to operate the Grid as per the essence of the Petition/Order.***

### 34. Primary Response Requirement as per Indian Electricity Grid Code – 2023

- (i) SRLDC vide communication dated 27.02.2024 had brought attention to the requirements outlined in the Indian Electricity Grid Code (IEGC), 2023, particularly regarding the deployment of Primary, Secondary and Tertiary reserves for the purpose of frequency control, reducing area control error and relieving congestion. These mandates include the necessity for generating stations and units to have electronically controlled governing systems or frequency controllers in accordance with the CEA Technical Standards for Connectivity and provide primary response ancillary service (PRAS). An urgent transition plan is necessary to switch governors from Restricted Governor Mode of Operation (RGMO) to Free Governor Mode of Operation (FGMO) as it is due since 1<sup>st</sup> October 2023. This plan may be developed in collaboration with respective Original Equipment Manufacturers (OEMs) and implemented promptly.

As intimated by the generators during the deliberations in the OCC meetings, most of the generating units have already shifted to **Free Governor Mode of Operation (FGMO)**. *Generators still under RGMO mode are requested to expedite change over to FGMO mode. Generators are requested to provide the updated FGMO implementation status. The status of units still operating under Restricted Governor Mode of Operation (RGMO) is placed at **Annexure-34a***

### 35. Monthly Review of LGBR for the next 13 months (Availability & Requirement)

- (i) SRLDC has declared 06:00 Hrs to 08:00 Hrs, 19:00 Hrs to 20:00 Hrs and 21:00 Hrs to 22:00 Hrs as Peak hours for August 2026.
- (ii) SLDCs to furnish the detailed Availability & Requirement for the next 13 months period from **August to August** (13 months LGBR rolling plan for energy and demand (peak hours as well as solar hours) by **6<sup>th</sup> August 2026**. SLDCs may furnish the data for analysis.
  - *SLDCs to furnish the detailed Availability & Requirement for the next 13-month period from July 2026 to July 2027.*
  - *The plan for meeting the LGB (Month wise) may be submitted in writing.*

### 36. ACTIONABLE POINTS FOR COMPLIANCE AS PER IEGC 2023

#### 36.1 Periodic Testing of Generators, HVDC/FACTS Devices

- (i) Regulation 40 (1) of CERC (IEGC) Regulations, 2023 stipulate that there shall be periodic tests, as required under clause (3) of this Regulation, carried out on power system elements for ascertaining the correctness of mathematical models used for simulation studies as well as ensuring desired performance during an event in the system.
- (ii) The tests shall be performed once every five (5) years or whenever major retrofitting is done. If any adverse performance is observed during any grid event, then the tests shall be carried out even earlier, if so advised by SLDC or RLDC or NLDC or RPC, as the case may be.
- (iii) Further, Regulation 40(1)(b) stipulate that “*All equipment owners shall submit a testing plan for the next year to the concerned **RPC by 31<sup>st</sup> October** to ensure proper coordination during testing as per the schedule. In case of any change in the schedule, the owners shall inform the concerned RPC in advance.*”
- (iv) Generators and HVDC/FACT owners were to furnish the Testing schedule for 2024-25 by 31<sup>st</sup> October 2023.

#### **Name of the test for Periodic Testing of Generators**

- 1) Real and Reactive Power Capability assessment.

- 2) Assessment of Reactive Power Control Capability as per CEA Technical Standards for Connectivity
- 3) Model Validation and verification test for the complete Generator and Excitation System model including PSS
- 4) Model Validation and verification of Turbine/Governor and Load Control or Active Power/ Frequency Control Functions.
- 5) Testing of Governor Performance and Automatic Generation Control.

**Name of the test for HVDC & Facts:**

- 1) Reactive Power Controller (RPC) Capability for HVDC/FACTS
  - 2) Filter bank adequacy assessment based on present grid condition, in consultation with NLDC.
  - 3) Validation of response by FACTS devices as per settings.
- (v) SRPC had expressed concern over the widespread non-compliance by several generators with the provisions of Regulation 40(1) and Regulation 40(1)(b) of the CERC (IEGC) Regulations, 2023, particularly with respect to periodic testing requirements. A non-compliance notice had been issued to such generators. The list of generators who have not furnished the testing schedule for the period 2024–29 and the list of generators who had furnished testing schedules for FY 2024–25 but have not conducted the tests and/or not submitted test reports to SRPC also have been furnished.
- (vi) In this regard, SRPC vide letter dtd 27.05.2026 communicated over non-compliance of the above Reg 40 (1) & 40(1)(b) to all the generators.
- ❖ A Special Meeting on Non-Compliance of IEGC-2023 Regulation 40 on Periodic Testing of Generators with respect to conventional generators was held on 18.06.2026. A detailed review of the status of all the conventional generators was taken. The record notes of the meeting were issued on 02.07.2026. The testing schedule for the periodic testing of conventional generating station in the Southern Region for the period 2024-29 is enclosed as **Annexure-36a**. GENCOs are requested to share any corrections/changes in the schedule to seoprnsrpc-ka@nic.in and srpc.operation@gmail.com for necessary updating.

➤ **All the generators to note all the above for strict Compliance**

### 36.2 Operational Planning Study

- (i) As per IEGC (Regulation 33) on Operational Planning Study the following is to be noted by all concerned:

**TIME HORIZON FOR OPERATIONAL PLANNING STUDY**

| Time horizon of operational planning Study | Agency               | Means for carrying out study                                           |
|--------------------------------------------|----------------------|------------------------------------------------------------------------|
| Real time and Intra-day                    | NLDC, RLDC and SLDC  | For various operating conditions using online/offline SCADA/EMS system |
| Day-ahead                                  | NLDC, RLDC, and SLDC | For various operating conditions using offline tools                   |
| Weekly                                     | NLDC, RLDC, and SLDC | For various operating conditions using offline tools                   |

|                |     |                                                      |
|----------------|-----|------------------------------------------------------|
| Monthly/Yearly | RPC | For various operating conditions using offline tools |
|----------------|-----|------------------------------------------------------|

- **All concerned entities need to initiate actions to comply the following IEGC provisions:**
  - (i) IEGC 2023 Regulation 33 (6) – “Operational planning study shall be done **to assess whether the planned operations shall result in deviations** from any of the system operational limits defined under these regulations and applicable CEA Standards. **The deviations, if any, shall be reviewed in the monthly operational meeting of RPC** and significant deviations shall be monitored by RPC for early resolution.
  - (ii) IEGC 2023 Regulation 33 (8) – “NLDC, RLDCs, RPCs and SLDCs shall have operating plans to address potential deviations from system operational limit identified as a result of the operational planning study. These operating plans shall be communicated to users in advance so that they can take corrective measures. **In case any user is unable to adhere to such an operating plan**, it shall inform the respective SLDC, RLDC and NLDC in advance with detailed reasons and explanations for the non-adherence. **These detailed reasons and explanations shall be discussed in the monthly operation sub-committee of the respective region and a quarterly report shall be submitted by the respective RPC to the Commission and CEA**”
  - (iii) SRLDC to furnish OP Study for **July 2026**
    - **SRLDC /SLDCs may update on the status of RA study.**
    - **Review of past month operational studies**
    - **This month operational studies**

### 37. Grid Operation during July 2026

- 1) Operational discipline by SLDCs, ISGS and ISTS licensees
  - 2) Schedule v/s Actual Generation of various power stations
  - 3) SPS Status in SR: Existing and proposed.  
Details of utilization of ISGS URS power
  - 4) Frequency related issues (underdrawal/overdrawal)
  - 5) Instance of deployment of Ancillary Services/AGC
  - 6) Maximum demand met and details of mix of generation in meeting the demand.
  - 7) Solar generation hours during the month/ solar Peak
  - 8) Wind generation pattern and peak
  - 9) Transmission network / system operation issues.
  - 10) Any specific issues need attention.

### 38. SRLDC Agenda Items

SRLDC vide mail dated 30.07.2026, had furnished the Agenda **(Annexure-38a)**

1. Prolonged outage of Bus reactors & Line reactors w.r.t following substations

| Sl. No | 400 kV Element             | Reason                                                       | Outage Date and Time | Update as per SLDC/240 <sup>th</sup> OCCM                                                                                                                                                                                                                                                                                                     |
|--------|----------------------------|--------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | HEBBANAHALLI - 400KV B/R 1 | Forced outage due to CB issues.<br>R phase bushing flashover | 22-Nov-2024 20:39    | KAR SLDC informed that the required material is yet to be received for installation of Hebbanahalli B/R. It is awaited to arrive from Germany.                                                                                                                                                                                                |
| 2      | SEIL_P2 - 400KV B/R 1      | Oil Leak from the Radiator.<br>Later isolator got damaged    | 24-Jun-2025 10:01    | SEIL P2 informed that material is expected to be dispatched from Sweden by July 2026 end. Restoration of the B/R is planned by September 26.                                                                                                                                                                                                  |
| 3      | KV_KOTA - 400KV B/R 1      | PRV Operated                                                 | 21-Aug-2025 10:54    | BHEL (OEM) is required to carry out physical inspection and submit the quotation, which is presently under process. It was further informed that issuance of LOI to BHEL and finalization of the exact restoration timeline would be taken up after approval of the quotation. BHEL is not responding for quotation. Matter is being pursued. |
| 4      | TALGUPPA - 400KV B/R 2     | Y-ph CB failed                                               | 07-Feb-2026 06:46    | KAR SLDC informed that OEM had submitted a quotation earlier. Following subsequent negotiations, the quoted price was reduced, and the revised quotation has been forwarded for approval. The restoration of failed CB is planned by September 26/October 26.                                                                                 |

## 2. Prolonged AC transmission elements outage

-Nil

## 3. Operational issues faced in SR Grid:

### i. ICT loading issues

ICT N-1 loading violation observed at Bidadi, Gazuwaka, Hoody, Kalikiri, Mysore, Kalvendapattu, Narendra, Nelamangala, NNTPP, Sholingnallur, Sattenapally, Vijayawada, Vemagiri and Yelahanka substations during July 2026. Respective entity may please take action.

### ii. Low voltages in Southern Region

Low voltage conditions were observed at 400 kV stations, particularly during the morning peak hours, at Doni, Guttur, Kaiga, Munirabad, Kalvendapattu, Kamudhi, Kannarpatti, Karaikudi, Madurai, Munirabad, NNTPP, Puducherry, Sholinganalur, Sunguvarchatram, Tharamani, Trichy and Vellaviduthi.

As per IEGC 2023 Annexure-4 regarding Reactive Power Compensation,

*“Reactive power compensation should ideally be provided locally, by generating reactive power as close to the reactive power consumption as possible. The regional entities are expected to provide local VAR compensation or generation such that they do not draw VARs from the EHV grid, particularly under low-voltage condition. ”*

It is therefore requested that, corrective actions in this regard may please be taken for safe & secure operation of the grid.

### iii. Deviation in drawal by States

Persistent deviations from the schedule by Tamil Nadu have been observed on 02<sup>nd</sup>, 05<sup>th</sup>, 06<sup>th</sup>, 12<sup>th</sup>, 13<sup>th</sup>, 14<sup>th</sup>, 15<sup>th</sup> and 16<sup>th</sup> July 2026. This issue has been consistently taken up through various communications and real-time messages. On certain occasions physical regulatory measures were also taken in view of the obstinate deviations.

However, despite these efforts, instances of significant deviations have continued. At times, these deviations have pushed the grid into critical operating conditions, particularly during non-solar hours, thereby adversely affecting frequency stability and overall grid security.

Persistent deviations from the schedule by Andhra Pradesh have been observed on 17<sup>th</sup> and 19<sup>th</sup> July 2026.

In light of the above, it is reiterated that proactive planning of the Load-Generation Balance (LGBR) and optimal management of the State's power portfolio must be ensured.

In this regard following clauses of the Indian Electricity Grid Code (IEGC) 2023 shall be noted and complied:

30.(3) All users shall adhere to their schedule of injection or drawl, as the case may be, and take such action as required under these regulations and as directed by NLDC or respective RLDCs or respective SLDCs so that the grid frequency is maintained and remains within the allowable band.

45. (6) Each regional entity shall regulate its generation or demand or both, as the case may be, so as to adhere to the schedule of net injection into or net drawal from the inter-State transmission system.

Communications issued in this regard on 08<sup>th</sup>, 15<sup>th</sup>, 16<sup>th</sup> and 20<sup>th</sup> July 2026.

### iv.SPS Mock test of KK-1 & KK-2 and RP-1 & RP-2

Included in Main Agenda

## 39. Status of Augmentation capacity under implementation by PGCIL/RTM

The following ICTs are under implementation in SR under RTM route:

| S.No. | Substation | ICT Capacity | Latest Update<br>(240 <sup>th</sup> OCC) |
|-------|------------|--------------|------------------------------------------|
|-------|------------|--------------|------------------------------------------|

|    |                                                                                                                                    |                                                                                                                                                                                                           |                                                                                                                       |
|----|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 1  | <b>Kurnool-3 new S/S</b>                                                                                                           | 9 x 500 MVA, 400/220 kV,<br><b>ICT (1 to 9)</b>                                                                                                                                                           | <b>53 JCC:</b> ICT 1-4,6-7: com-<br>missioned in March 2025<br>ICT 5: Charged in October<br>2025<br>ICT 8-9: Oct 2027 |
| 4  | <b>Kurnool New S/s</b>                                                                                                             | 1 x 1500 MVA, 765/400 kV<br><b>ICT (3)</b>                                                                                                                                                                | <b>53 JCC:</b> charged on<br>28.03.2026                                                                               |
| 5  | <b>Koppal PS</b>                                                                                                                   | 1x500MVA, 400/220kV<br><b>ICT (6th)</b>                                                                                                                                                                   | <b>53 JCC:</b> charged on<br>03.12.2025                                                                               |
| 6  | <b>Gadag PS</b>                                                                                                                    | 1x500MVA, 400/220kV<br><b>ICT (6th)</b>                                                                                                                                                                   | <b>53 JCC:</b> charged on<br>11.03.2026                                                                               |
| 7  | <b>Tuticorin-II GIS PS</b>                                                                                                         | 500 MVA, 400/230kV<br><b>ICT (6<sup>th</sup>)</b>                                                                                                                                                         | <b>53 JCC:</b> By June 2026                                                                                           |
| 8  | <b>NP Kunta PS</b>                                                                                                                 | 1x500 MVA, 400/220kV<br><b>ICT (5th)</b>                                                                                                                                                                  | <b>53 JCC:</b> By June 2026                                                                                           |
| 9  | <b>Tumkur (Pavagada)<br/>400/220kV PS</b>                                                                                          | 2x500MVA, 400/220kV<br><b>ICTs (7th &amp; 8th)</b>                                                                                                                                                        | <b>53 JCC:</b> ICT 7: By June<br>2026<br>ICT 8: By August 2026                                                        |
| 10 | <b>Karur PS</b>                                                                                                                    | 2x500 MVA, 400/230 kV<br><b>ICT (3rd &amp; 4th)</b>                                                                                                                                                       | <b>53 JCC:</b> By October 2026                                                                                        |
| 11 | <b>Onshore Pooling Sta-<br/>tion (GIS) near Avarai-<br/>kulam, Tirunelveli Dis-<br/>trict and Offshore (OSS-<br/>1) SS-1 (GIS)</b> | 2x500 MVA, 400/230 kV<br>ICTs at Onshore Pooling<br>Station<br>300 MVA <sub>r</sub> STATCOM<br>along with 2x125MVA <sub>r</sub><br>MSR<br>2x315 MVA, 230/66kV<br>ICTs at OffShore Substa-<br>tion-1 (GIS) | <b>51 JCC:</b> By end of March<br>2030                                                                                |
| 12 | <b>Tumkur (Pavagada) PS</b>                                                                                                        | 2x500 MVA, 400/220 kV<br>ICTs (9th & 10th)                                                                                                                                                                | <b>53 JCC:</b> By September 2026                                                                                      |
| 13 | <b>Yelahanka (GIS) S/S</b>                                                                                                         | 1x500MVA, 400/220kV<br><b>ICT (3rd)</b>                                                                                                                                                                   | <b>53 JCC:</b> By March 2027                                                                                          |
| 14 | <b>Bidadi (GIS) S/S</b>                                                                                                            | 1x500 MVA, 400/220kV<br><b>ICT (3rd)</b>                                                                                                                                                                  | <b>53 JCC:</b> By March 2027                                                                                          |
| 15 | <b>Tuticorin-II GIS S/S</b>                                                                                                        | 1x500 MVA, 400/230kV<br><b>ICT (7th)</b>                                                                                                                                                                  | <b>53 JCC:</b> By February 2028                                                                                       |
| 16 | <b>Nagarjunasagar S/S</b>                                                                                                          | 1x500 MVA, 400/230kV<br><b>ICT (4th)</b>                                                                                                                                                                  | <b>53 JCC:</b> By May 2027                                                                                            |
| 17 | <b>Kozhikode S/S</b>                                                                                                               | 1x500 MVA, 400/220kV<br><b>ICT (4th)</b>                                                                                                                                                                  | <b>53 JCC:</b> By Feb 2027                                                                                            |
| 18 | <b>Trivandrum S/S</b>                                                                                                              | 1x500 MVA, 400/220kV<br><b>ICT (4th)</b>                                                                                                                                                                  | <b>53 JCC:</b> By Feb 2027                                                                                            |
| 19 | <b>Udumalpet S/S</b>                                                                                                               | 1x500 MVA, 400/220kV<br><b>ICT (2<sup>nd</sup> or new)</b>                                                                                                                                                | <b>53 JCC:</b> By Feb 2027                                                                                            |

|    |                              |                                                     |                             |
|----|------------------------------|-----------------------------------------------------|-----------------------------|
| 20 | <b>Thrissur VSC HVDC S/S</b> | 1x500 MVA, 400/220kV<br><b>ICT (3rd)</b>            | <b>53 JCC:</b> By Aug 2027  |
| 21 | <b>Narendra S/S</b>          | 1x500 MVA, 400/220kV<br><b>ICT (3rd)</b>            | <b>53 JCC:</b> By Sept 2027 |
| 22 | <b>Kalivanthapattu S/S</b>   | 1x500 MVA, 400/220kV<br><b>ICT (4<sup>th</sup>)</b> | <b>53 JCC:</b> By June 2027 |

**40. The following ICTs are under implementation in SR under TBCB route:**

| S.No. | Substation                                                                                 | TBCB                              | ICT Capacity                                                                | Latest update (240 <sup>th</sup> OCC)                                                                                                      |
|-------|--------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | <b>Kasargode GIS S/S</b>                                                                   | Udupi Kasargode TL (Sterlite)     | 2x500MVA, 400/220 kV<br><b>ICTs</b>                                         | <b>53 JCC:</b> COD is dependent on completion of Udupi-Kasargode line held up due to RoW issues                                            |
| 2     | <b>Narendra (New) (GIS)</b>                                                                | WRSR Power TL (Adani)             | 4x1500 MVA, 765/400 kV<br><b>ICTs</b>                                       | <b>53 JCC:</b> By October 2026                                                                                                             |
| 3     | <b>New pooling station</b> at suitable border location between Ananthpuram & Kurnool distt | Ananthpuram Kurnool TL (PGCIL)    | 7x500MVA, 400/220 kV<br><b>ICTs</b>                                         | <b>53 JCC:</b><br>ICT-1 charged on 31.01.2026<br>ICT-2 charged on 14.03.2026<br>ICT-3 charged on 27.03.2026<br>ICT-4 charged on 31.03.2026 |
| 4     | <b>Koppal-II (Phase- A) Pooling Station</b>                                                | Koppal II Gadag II TL (PGCIL)     | 4x1500 MVA, 765/400 kV<br>ICTs (1-4)<br>4x500 MVA, 400/220 kV<br>ICTs (1-4) | <b>53 JCC:</b> By June 2026                                                                                                                |
|       | <b>Gadag-II (Phase -A) Pooling Station</b>                                                 |                                   | 2x500 MVA, 400/220 kV<br>ICTs (1-2)                                         |                                                                                                                                            |
| 5     | <b>Bidar SS</b>                                                                            | Bidar TL (PGCIL)                  | 3x1500 MVA, 765/400 kV<br>ICTs (1-3)<br>5x500 MVA, 400/220 kV<br>ICTs (1-5) | <b>53 JCC:</b> June 2026                                                                                                                   |
| 6     | <b>Tumkur-II PS</b>                                                                        | Tumkur-II REZ Power TL (GR Infra) | 4x500 MVA, 400/220 kV<br>ICTs                                               | <b>53 JCC:</b> By September 2026                                                                                                           |
| 7     | <b>Bijapur PS</b>                                                                          | Bijapur REZ TL (GR infra)         | 5x500 MVA, 400/220 kV<br>ICTs                                               | <b>53 JCC:</b> By January 2027                                                                                                             |
| 8     | <b>Koppal-II PS</b>                                                                        | Gadag II and Koppal II TL (PGCIL) | 3x1500 MVA, 765/400 kV<br>ICTs (5-7)<br>5x500 MVA, 400/220 kV<br>ICTs (5-9) | <b>53 JCC:</b> By August 2026                                                                                                              |

|    |                                         |                                                                |                                                                                           |                                                                                    |
|----|-----------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|    | <b>Gadag-II PS</b>                      |                                                                | 7x500 MVA, 400/220 kV<br>ICTs (3-9)                                                       |                                                                                    |
| 9  | <b>Bidar PS</b>                         | Bidar TL<br>(PGCIL)                                            | 1x1500 MVA, 765/400 kV<br>ICT (4)<br>3x500 MVA, 400/220 kV<br>ICTs (6-8)                  | <b>53 JCC:</b><br>765/400 kV ICTs<br>by Feb 2027<br>400/220 kV ICTs<br>by Feb 2027 |
| 10 | <b>Davanagere /Chitra-<br/>durga</b>    | Chitraddurga Bel-<br>lary REZ TL<br>(PGCIL)                    | 4x1500 MVA, 765/400 kV<br>ICTs (1-4)<br>4x500 MVA, 400/220 kV<br>ICTs (1-4)               | <b>53 JCC:</b> By March<br>2027                                                    |
|    | <b>Bellary PS</b>                       |                                                                | 4x500 MVA, 400/220 kV<br>ICTs (1-4)                                                       | <b>53 JCC:</b> By Sept<br>2027                                                     |
| 11 | <b>Kurnool-IV PS</b>                    | Kurnool-IV TL<br>(PGCIL)                                       | 4x1500 MVA, 765/400 kV<br>ICTs (1-4)<br>4x500 MVA, 400/220 kV<br>ICTs (1-4)               | <b>53 JCC:</b> By March<br>2027                                                    |
|    | <b>C'Peta SS</b>                        |                                                                | 1x1500 MVA, 765/400 kV<br>ICTs (3)                                                        |                                                                                    |
| 12 | <b>Kurnool-III PS</b>                   | Kurnool-III PS<br>RE TL (PGCIL)                                | 3x1500MVA, 765/400 kV<br><b>ICTs</b><br>1x1500 MVA, 765/400 kV<br>ICTs (7 <sup>th</sup> ) | <b>53 JCC:</b> March<br>2027                                                       |
| 13 | <b>Anathapuram-II PS</b>                | Anathapur II REZ<br>TL (Resonia)                               | 4x1500 MVA, 765/400 kV<br>ICTs (1-4)<br>6x500 MVA, 400/220 kV ICTs<br>(1-6)               | <b>53 JCC:</b> March<br>2027                                                       |
| 14 | <b>Anathapuram-II PS</b>                | Anantapur II<br>Power TL (Shiva-<br>laya construction<br>Ltd.) | 1x500 MVA, 400/220 kV ICT<br>2x1500 MVA, 765/400 kV<br>ICTs<br>6x500 MVA, 400/220 kV ICTs | <b>53 JCC:</b> April 2028                                                          |
|    | <b>CN'Halli SS</b>                      |                                                                | 3x1500 MVA, 765/400 kV<br>ICTs                                                            | <b>53 JCC:</b> April 2028                                                          |
| 15 | <b>Davanagere PS</b>                    | Davanagere<br>Power TL<br>(PGCIL)                              | 4x500 MVA, 400/220 kV ICTs<br>(5-8)                                                       | <b>53 JCC:</b> September<br>2027                                                   |
|    | <b>Davanagere /Chitra-<br/>durga PS</b> |                                                                | 1x1500 MVA, 765/400 kV ICT                                                                | <b>53 JCC:</b> September<br>2027                                                   |
| 16 | <b>Davanagere PS</b>                    | Bellary Davanag-<br>ere TL (PGCIL)                             | 2x1500 MVA, 765/400 kV<br>ICTs (6-7)                                                      | <b>53 JCC:</b> February<br>2028                                                    |
|    | <b>Bellary PS</b>                       |                                                                | 6x500 MVA, 400/220 kV ICTs                                                                | <b>53 JCC:</b> February<br>2028                                                    |

#### 41. Assessment of online Dynamic Line Rating-Pilot Scheme

- a) The DLR pilot project on the **400 kV Tuticorin PS–Madurai D/C line**, approved by SRPC (TP) The Dynamic Line Rating (DLR) pilot project, approved by SRPC with PGCIL as the Nodal Agency, was commissioned on the 400 kV Tuticorin PS–Madurai D/C line under PGCIL's R&D fund. However, due to inadequate line loading, the intended sag measurement could not be completed, necessitating identification of an alternate line. Subsequently, SRPC, TCC, and OCC forums directed PGCIL, in consultation with SRLDC, to identify a suitable high-loading transmission corridor, assess the feasibility of shifting the DLR system, and submit the associated implementation timeline and cost implications. After technical evaluation, the 400 kV Pavagada–Gooty line was identified as the most suitable location for the pilot, considering its sustained high loading and potential to demonstrate renewable energy evacuation benefits. PGCIL has initiated action with the OEM/agency to assess feasibility and submit the commercial offer and implementation schedule, which are presently awaited.
- b) In the **239<sup>th</sup> OCC meeting**, PGCIL SR-II informed that the concerned agency had been requested to submit its feasibility report and commercial offer. The details are awaited.
- c) Subsequent to the deliberations in the 239<sup>th</sup> OCC meeting, PGCIL initiated action for shifting and implementation of the Dynamic Line Rating (DLR) pilot project on the 400 kV Pavagada–Gooty Line-I. PGCIL informed that the Siemens make DLR sensors would be installed as a pilot project without any financial implication, and that the 400 kV Pavagada–Gooty D/C line (Twin Moose conductor) had been identified as the most suitable transmission corridor based on CEA deliberations and system studies, considering its sustained high loading during peak solar generation and its potential to demonstrate enhanced transmission capacity and renewable energy evacuation benefits through DLR implementation. Accordingly, shutdown of the line was sought for installation of the sensors. During the coordination process, SRLDC requested PGCIL to furnish details regarding the number and proposed locations of the DLR sensors (KMZ file), along with arrangements for providing dashboard access to enable real-time monitoring of DLR measurements and line ratings during system operation. Subsequently, SRPC advised that the shutdown may be facilitated subject to prevailing grid conditions, while directing PGCIL to adhere strictly to the approved outage schedule for execution of the installation works.
- d) Subsequently, SR II PGCIL vide email dtd 30.06.2026 informed that 14 Nos of DLR sensors were successfully commissioned, by availing S/D from 25.06.2026 to 27.06.2026. Further, PGCIL requested SRPC/SRLDC to furnish the email IDs of the concerned officials for inclusion in the DLR platform user list, to facilitate provisioning of dashboard access and enable real-time monitoring of DLR measurements and line ratings during the pilot operation.
- e) PGCIL conducted a training session on the DLR Sensors Dashboard through Siemens Energy on 13.07.2026 for the sensors installed on the 400 kV Gooty–Pavagada transmission line

➤ *SR-I may update the status.*

#### 42. Status of New Thermal Projects of Central /State Sector (Scheduled for COD during 2026-27)

| Sl No | Name of project                         | Capacity in MW | Status (240 <sup>th</sup> OCC)                                                                                                                                            |
|-------|-----------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | <b>TANGEDCO-North Chennai Stage III</b> | 1 x 800        | <b>235<sup>th</sup> OCC:</b> COD declared on 24.01.2026.<br>SRPC requested TNPGL/SLDC to formally communicate the commissioning details as well as trial run particulars. |

|   |                                                        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---|--------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2 | <b>TANGEDCO-Udangudi Stage I</b>                       | 2 x 660 | <b>57<sup>th</sup> SRPC:</b><br>Trial operations commenced on 04.02.2026, and coal synchronization has been successfully achieved. The unit is currently being operated at a load of around 400–500 MW, considering the prevailing summer demand requirements.<br><b>240<sup>th</sup> OCC:</b><br>Unit 1: COD is expected by August 2026.<br>Unit 2: COD is expected by December 2026                                                                                                                                                                                                                                                                                                    |
| 3 | <b>TANGEDCO-Ennore SEZ STPP (North Chennai Stg IV)</b> | 2 x 660 | <b>240<sup>th</sup> OCC:</b> Expected date of commissioning for<br>Unit 1: August 2027<br>Unit 2: October 2027                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 4 | <b>TANGEDCO-Ennore TPS Exp.</b>                        | 1 x 660 | <b>240<sup>th</sup> OCC:</b> ETPS Expansion project to be established on “as is where is basis condition” under DBFOO model through tariff based competitive bidding, approval obtained from Hon'ble TNERC and Tender opening is 15.07.2026.                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 5 | <b>Uppur TPS</b>                                       | 2x800   | <b>54<sup>th</sup> TCC</b><br>Regarding continuation of Uppur TPS: Policy decision has to be taken<br><b>240<sup>th</sup> OCC</b><br>GOTN accorded approval for establishing 1 × 800 MW coal-based thermal power project in Thoothukudi District, making use of the existing Udangudi Stage I land, coal jetty, common facilities, and relocating materials originally procured for the 2 × 800 MW Uppur Project under TBCB mode vide GO(Ms) No. 45, dt. 14.03.2026.<br>To make optimal use of the high-cost materials already procured for the 2 × 800 MW Uppur Project for the implementation of the newly proposed thermal power plant in Tuticorin District is currently under study |
| 6 | <b>TSGENCO-Damaracherla (Yadadri)</b>                  | 5 x 800 | <b>239<sup>th</sup> OCC</b><br>Unit-1: COD declared on 12.07.2025<br>Unit 2: COD declared on 25.01.2025<br>Unit-3: COD declared on 13.05.2026<br>Unit-4: COD declared on 08.01.2026<br>Unit-5: COD expected in August 2026                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

#### 43. Implementation of Bus and Line Reactors by the Utilities

##### 1. APTRANSCO:

| Sl. No | Substation (400kV) | Type/Capacity | Approved in | Status (240 <sup>th</sup> OCC) |
|--------|--------------------|---------------|-------------|--------------------------------|
|--------|--------------------|---------------|-------------|--------------------------------|

|   |                     |                   |  |                                                                                        |
|---|---------------------|-------------------|--|----------------------------------------------------------------------------------------|
| 1 | <b>Atchutapuram</b> | <b>1x125+2x80</b> |  | Expected completion by December-2026. Works are under progress for SS and the Reactor. |
| 2 | <b>Kakinada SEZ</b> | <b>125</b>        |  | Expected completion by June-2027. Works are under progress for SS and the Reactor.     |

## 2. APGENCO:

| Sl. No | Substation (400kV)   | Type/Capacity                  | Approved in         | Status (240 <sup>th</sup> OCC)                                                                                                                                                                                    |
|--------|----------------------|--------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | <b>VTPS Stage IV</b> | <b>Bus Reactor/ 1x125 MVar</b> | 39 <sup>th</sup> SC | <b>240<sup>th</sup> OCC:</b> Material reached site. Civil works in progress. Expected by end of August, 2026                                                                                                      |
| 2      | <b>Polavaram HEP</b> | <b>Bus Reactor/ 2x125 MVar</b> | 42 <sup>nd</sup> SC | Included in EPC contract. Drawings are submitted. Reactor is a part of Switchyard commissioning works. Work of switchyard are still to commence. Once the line works is completed, then erection will be started. |

## 3. KPCL:

| Sl. No | Substation (400kV) | Type/Capacity                  | Approved in           | Status (240 <sup>th</sup> OCC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------|--------------------|--------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | <b>Yeramarus</b>   | <b>Bus Reactor/ 1x125 MVar</b> | 1 <sup>st</sup> SRSCT | <b>57<sup>th</sup> SRPC</b><br><b>KPCL</b> had informed that the project cost is ~₹53 Cr (including bay & civil works) and indicated requirement of PSDF funding.<br><b>KAR SLDC</b> had emphasized the criticality of the reactor for voltage control and urged early implementation.<br><b>SRPC</b> had noted prolonged delay (~8 years) and advised pursuing approval through <b>KERC</b> for tariff-based recovery instead of PSDF.<br><b>KPCL</b> had stated that the proposal would be placed before higher management for necessary approvals. |

## 4. TANTRANSCO:

|  | Substation | MVAR | Type | Approved in | Status (240 <sup>th</sup> OCC) |
|--|------------|------|------|-------------|--------------------------------|
|--|------------|------|------|-------------|--------------------------------|

| Sl. No. |                           |         |      |                       |                                                                                                                                                                                                                               |
|---------|---------------------------|---------|------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | <b>Coimbatore (765kV)</b> | 2 x 330 | Line | 42 <sup>nd</sup> SC   | Portion of land required for Coimbatore 765KV SS to be acquired. G.O. issued on 29.12.2022 for compulsory acquisition of land and being processed. Tender floated under TBCB. The reactor will be commissioned along with SS. |
| 2       | <b>Kayathar</b>           | 1x125   | Bus  | 42 <sup>nd</sup> SC   | Space availability confirmed from the field for provision of these Bus reactors in the Substations. Administrative Approval yet to be obtained.                                                                               |
| 3       | <b>Kamuthi</b>            | 1x125   | Bus  | 42 <sup>nd</sup> SC   |                                                                                                                                                                                                                               |
| 4       | <b>Parali</b>             | 125     | Bus  | 42 <sup>nd</sup> SC   | Awarded on 21.01.2021. Work will be taken up along with establishment of Substation.                                                                                                                                          |
| 5       | <b>Arni</b>               | 2 x 125 | Bus  | 42 <sup>nd</sup> SC   | Administrative Approval for SS and Reactor to be obtained.                                                                                                                                                                    |
| 6       | <b>Edayarpalayam</b>      | 2 x 125 | Bus  | 38 <sup>th</sup> SC   | Contract terminated. Retendered under TBCB. The reactor will be commissioned along with SS.                                                                                                                                   |
| 7       | <b>Ottiyambakkam</b>      | 2x125   | Bus  | 2 <sup>nd</sup> SRSCT | DPR to be evolved and Fund to be tied up.                                                                                                                                                                                     |

#### 5. **TGTRANSCO:**

| Sl. No | Substation (400kV) | Bus Reactor MVAR | Approved in   | Status (240 <sup>th</sup> OCC)                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------|--------------------|------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Uddandapur         | 1x125            | 1st SRPC (TP) | Contract awarded on 04.03.2022. Reactor received at site. Reactor foundation works under progress                                                                                                                                                                                                                                                                                                                                                                           |
| 2      | Narlapur           | 1x125            | 1st SRPC (TP) | Contract has been awarded for the erection of 400KV LI SS along with the supply & erection of 125 MVAR Reactors. The civil works of associated equipment are completed. The 125MVAR Reactors are supplied to respective 400kV substations.<br>Erection works at Yedula & Vattam completed and erection works at Narlapur are under progress.<br>Expected date of commissioning:<br>Vattam : <b>31.07.2026</b><br>Yedula : <b>31.07.2026</b><br>Narlapur : <b>30.09.2026</b> |
| 3      | Yedula             | 1x125            | 1st SRPC (TP) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 4      | Vettam             | 1x125            | 1st SRPC (TP) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

#### 44. **Daily Load Forecast by SLDCs**

- (i) SLDCs are requested to divide the state load in to area-wise (district-wise/Substation wise) while carrying out the forecasting incorporating weather conditions etc.
- (ii) SLDCs are requested to furnish the load forecast error (forecast Vs actual demand) on monthly basis to SRLDC along with reasons for sustained deviation.
- (iii) SLDCs may share the day-ahead forecast by 12:00 hrs every day to SRLDC, for the subsequent day.
- (iv) In the 208<sup>th</sup>/209<sup>th</sup> Meetings of OCC, **SRLDC has circulated standardized formats for presentation of data over a period of days (weekly/monthly/yearly).**

#### 45. RE Forecast by SRLDC/SLDCs

- (i) SRLDC to present the forecast, actual and forecast errors for wind and solar for the previous month in the OCC Meeting. All states had been requested to furnish the implemented forecast, day ahead forecast & actual also (before 5<sup>th</sup> of every month).
- (ii) SLDCs may also carry out the analysis and present the observations of their RE forecast, issues faced etc. in the meeting.
  - *SRLDC/SLDCs may present the data for June 2026.*

#### Regulatory Reference: IEGC 2023 - Clause 31 (3) b

##### Quote

*According to Clause 31 (3) b of the IEGC 2023, RLDC is responsible for forecasting generation from wind, solar, ESS, and Renewable Energy hybrid generating stations that are regional entities, while SLDC is responsible for forecasting generation from intra-state renewable energy sources for various time horizons, as per Clause (1) of Regulation 31 of these regulations for operational planning.*

##### Unquote

- *All SLDCs may note & present the same.*

#### 46. Automatic Demand Side Management Scheme (ADMS)

- (i) As per clauses 36 (2) of IEGC, SLDC, in coordination with STU and Distribution Licensee (s), shall develop Automatic Demand Management scheme with emergency controls at SLDC.
- (ii) CERC order dated 11.09.2023 in Petition No. 132/MP/2022 in the matter of over drawl from the grid by regional entities leading to insecure operation of the grid and other associated matters had directed the respondent SLDCs to ensure Automatic Demand Management System (ADMS) is in place in accordance with the Grid Code with appropriate feeders mapping to get the desired load relief. If the ADMS is in implementation stage in any State then till the time of implementation of ADMS manual load shedding of radial feeders identified by SLDCs which shall be done with concerned SLDCs instructions without any delay during emergency conditions shall be shared with SRLDC. **The Status of the implementation of ADMS shall be updated to the SRLDC on quarterly basis by the respective SLDC.**
  - *TNSLDC to take immediate corrective action so that ADMS function properly & SLDCs may update on the action taken.*
  - *All the States to develop ADMS SCADA screen in the Control Room & maintain healthiness of ADMS.*
  - *SRLDC/SLDCs to present ADMS incidence.*

#### 47. MVAR Performance of generating units

- (i) Generators to take necessary action for absorption of MVAR up to the Capability. OEMs needed to be approached in case of less absorption and ensure MVAR absorption up to Capability.
- (ii) At any point of time injection of MVAR shall be strictly avoided if voltages are higher than rated voltages. Tap position to be relooked wherever found feasible.
- (iii) All the generators to analyze MVAR interchange on monthly basis and address the issues, if any, with intimation to SRLDC/SRPC.

- (iv) In 239<sup>th</sup> OCC meeting, SRPC observed that the matter requires further examination and it was concluded that the observations and data presented by both sides would be examined in detail. The issue may be further deliberated between APL, SRLDC and SRPC.
- (v) Further, the 16<sup>th</sup> Meeting on MVAR Performance Analysis of State Generating Stations was convened on 06.07.2026, followed by the meeting on MVAR Performance Analysis of ISTS-connected Generating Stations on 07.07.2026. During the meetings, all SLDCs, SRLDC, and the individual generating stations presented their respective analyses. The Minutes of Meeting (MoM) are awaited.

#### 48. Black Start Mock Drill Exercises

- (i) Regulation 5.8b of CERC IEGC Regulation stipulates that “*Mock trial runs of the procedure for different subsystems shall be carried out by the Users/CTU/STU at least once every six months under intimation to the RLDC. Diesel Generator sets for black start would be tested on weekly basis and test report shall be sent to RLDC on quarterly basis*”.
- (ii) Point to point mock exercise for black start to be carried out by the constituents.
- (iii) SRLDC had clarified that as per new IEGC Black-start mock drill is to be conducted **once in every financial year** and requested all the constituents to furnish the tentative schedule of Black start exercise for 2026-27.

The tentative schedule of Black start exercise for the year 2026-27 may be updated by all states.

- ***SRLDC/SLDCs may update the status of the tests carried out during June 2026 & Plan for June 2026, as well as the proposed schedule for the period July-September 2026.***

As per IEGC 2023, Regulation 34

#### Clause 2

##### ***Quote***

*Each RLDC, in consultation with the NLDC, CTU, and the concerned STUs, SLDCs, users and RPC, shall prepare detailed procedures for restoration of the regional grid under partial and total blackouts which shall be reviewed and updated annually by the concerned RLDC*

***Unquote***

#### Clause 4

##### ***Quote***

*Simulation studies shall be carried out by each user in coordination with RLDC for preparing, reviewing and updating the restoration procedures considering the following:*

- (a) Black start capability of the generator;*
- (b) Ability of black start generator to build cranking path and sustain island;*
- (c) Impact of block load switching in or out;*
- (d) Line/transformer charging;*
- (e) Reduced fault levels;*
- (f) Protection settings under restoration condition.*

***Unquote***

- ❖ States were requested to inform SRLDC, CROOM on D-1 basis regarding the Black-start mock exercise to enable real-time monitoring from SRLDC
- ❖ In 233<sup>rd</sup> OCC, the following points were noted
  - The Actual Dates of Mock drill exercise to be informed on D-7 basis.

- To inform Control Room, SRLDC on D-1 basis regarding the Black-start mock exercise for monitoring in real-time.
- Point-to-point Mock drills to be completed

In 240<sup>th</sup> OCC, it was informed that there were no mockdrill was conducted in June 2026 & only Lower Sileru was planned in the month of July 2026.

- ❖ States were requested to update the tentative schedule of Black start exercise for the year 2026-27 to SRLDC. SRLDC further emphasized that 3 months of FY 2026-27 have already completed and requested all GENCOs to finalize and furnish their testing schedule for 2026-27 at the earliest and plan the completion of all mock-drills by December 2026
- ❖ SRLDC appraised that the workshop is due to be conducted this year and requested all states to propose suitable dates for conduct of the workshop with their stakeholders.

#### Action Points

- States are requested to update the tentative schedule for 2026-27
- Point to Point criteria needs to be ensured during Black Start Mock Drill
- States are requested to propose dates for workshop on black start procedures.
- *SLDCs/Utilities may update.*

### 49. PSS Tuning of Generating Units

- The Regulation 29(7) of CERC (IEGC) Regulations 2023 stipulates that ‘The tuning of AVR, PSS, Voltage Controllers (PPC) including for low and high voltage ride through capability of wind and solar generators or any other requirement as per CEA Technical Standards for Connectivity shall be carried out by the respective generating station:
    - *at least once every five (5) years;*
    - *based on operational feedback provided by the RLDC after analysis of a grid event or disturbance; and*
    - *in case of major network changes or fault level changes near the generating station as reported by NLDC or RLDC(s), as the case may be.*
    - *in case of a major change in the excitation system of the generating station.*
  - Regulation 29(8) of CERC (IEGC) Regulations 2023 stipulates that Power System Stabilizers (PSSs), AVRs of generating units and reactive power controllers shall be properly tuned by the generating station as per the plan and the procedure prepared by the concerned RPC. **In case the tuning is not complied with as per the plan and procedure, the concerned RLDC shall issue notice to the defaulting generating station to complete the tuning within a specified time, failing which the concerned RLDC may approach the Commission under Section 29 of the Act.**
  - The Procedure finalised in the Meeting held on 27.09.2023 through VC is available at SRPC website. As per the Procedure, the Annual Plan for PSS turning of generating units under commercial operation in SR will be prepared by SRPC and finalized every year in the February-March month OCC Meetings for next FY. The plan will be reviewed in monthly OCC Meetings.
  - Plan for PSS Tuning for the Year 2026-27 (Five Year cycle basis) [Annexure-49a](#)**  
In case the tuning is not complied with as per the plan and procedure, SRLDC shall issue notice to the defaulting generating station to complete the tuning within a specified time, failing which the concerned RLDC may approach the Commission under Section 29 of the Act.
- ✓ **In 233<sup>rd</sup> OCC**, it was observed that the following units retuning of PSS is pending as per the 5 year timeline considering upto March 2026: SDSTPS units, Lower Sileru Units, Srisailam RB units, HNPCL units, Bellary TPS Units, Nagjheri HEP Units, UPCL units, NCTPS Stage I units,

Tuticorin TPS Unit, Kadamparai units, Nagarjuna sagar HEP Unit 1, Yadadri Units, Srisailem LB Unit 4, NTPC Ramagundam Units, NTPC Simhadri Units, Vallur units (final reports to be furnished), NLCIL TPS-I Exp units, NLCIL TPS-II Exp units, MAPS, MPGL units.

- ✓ Further, NTPC stated that PSS tuning for Ramagundam units 4, 5 and 6 was carried out on 14<sup>th</sup>/15<sup>th</sup> November 25. The reports would be furnished. HNPCL stated that PSS tuning was carried out in January 2024 (10.01.24) for Unit 2. HNPCL may furnish the reports for analysis in the next PSS tuning meeting. PSS tuning for Unit 1 is planned by end of January 2026.

#### **Actionable Points**

- All the Generators may take necessary action as per the recommendations in Record Notes of the 15<sup>th</sup> PSS Meeting.
- Generators may carry out the retuning of PSS as per the schedule mentioned in Record Notes of the 15<sup>th</sup> PSS Meeting.
- All the simulation studies/field tests mentioned in the PSS tuning procedure (available on SRPC website) to be carried out by the generators.
- Report in the final form to be furnished by the generators to SRPC/SRLDC.
- NTECL Vallur to furnish final report all the 3 units for analysis.

#### **Past OCC Conclusion:**

- SRPC stated the following:
  - ✓ Partial Reports/data received from NLC TPS II U6, Yeramurus TPS U2, NPH U3, NTPC Ramagundam 4,5,6; NTPC Simhadri Units 1 to 4.
  - ✓ Status of PSS tuning of NLCIL TS2 U5& U3, KKNPP 2, SEL units to be confirmed.
  - ✓ Pending units to carry out PSS tuning as per the tuning schedule.
- NLCIL TPS-II stated that PSS tuning for Units 5 and 7 has been carried out, and the reports will be furnished within this month. AVR upgradation has been completed for Unit 3. The overhaul (OH) of Unit 3 was deferred during the current financial year. PSS tuning for Unit 3 will be carried out during the OH planned in the next financial year.
- NTPC Simhadri stated that the PSS tuning carried out in December 2024 was not satisfactory, as the waveforms were not captured properly. Therefore, re-tuning of the PSS is planned from 06<sup>th</sup> April to 11<sup>th</sup> April 2026 in coordination with the OEM, BHEL. The PSS tuning of Units-3 and 4 had been carried out, and the reports are being finalized. PSS tuning for Units-1 and 2 will be planned at a later stage.
- Adani Power Ltd. stated that PSS tuning of MPGL Unit 2 was carried out in March 2026. For UPCL Units 1 and 2, PSS tuning is planned in April 2026.
- SRPC requested Adani Power Ltd. to furnish the PSS tuning report of MPGL Unit 2, which will be discussed in the upcoming PSS tuning meeting.
- HNPCL stated that PSS tuning for Unit 1 is planned in March 2026, and the purchase order has already been placed. The PSS tuning will be carried out at the earliest opportunity.
- HNPCL further stated that PSS tuning for Unit 2 was carried out on 10.01.2024. SRPC requested HNPCL to furnish the report for analysis in the next PSS tuning meeting.
- KKNPP vide letter dated 04.04.2026 furnished the PSS tuning report of Unit 2
- Adani PL stated that PSS tuning for UPCL units 1 and 2 is planned to be carried out after the Hebbanahalli line termination works in the new S/S. MPGL Unit 2 PSS tuning report would be furnished.
- It was noted that PSS tuning details for a total of 13 generating units, including those of NTPC, SEIL, and NLCIL, had been received.

- Further, SRPC had conducted the 16<sup>th</sup> PSS Tuning Meeting with all the utilities on 13.07.2026 to review the pending PSS tuning activities. Subsequently the recommendations and reports received for 20 units (including NLCIL TPS-II Unit 1) were analyzed during the meeting. MoM will be issued shortly

➤ *Generators may update the status.*

## 50. Implementation of Scheduling, Accounting, Metering and Settlement of Transactions in Electricity (SAMAST) by State Utilities

- ❖ Ministry of Power Committee to address issues related to Renewable (Solar/Wind) generators in the Deviation Settlement Mechanism Regulations, 2022 has recommended that for judicious apportionment of deviation among intra state entities within states it is essential that the SAMAST framework should be implemented in each state.

This agenda item was taken up in the recent 57 SRPC-54 TCC meeting held on 16-17<sup>th</sup> March 2026

| State/Utility              | Status (240 <sup>th</sup> OCC)                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Andhra Pradesh/ AP-TRANSCO | <b>240<sup>th</sup> OCC:</b> PSDF requested to resend the proposal after some modifications suggested by them. Subsequently, proposal has been submitted to NLDC seeking PSDF funding, and their response is awaited.<br>Meanwhile, the management has taken a decision to proceed with the project using internal funds. Accordingly, the process for obtaining Administrative Approval has been initiated, and the proposal note is currently under circulation. |
| Kerala/ KSEBL              | Hardware SAT completed in first week of October 2025.<br><b>54<sup>th</sup> TCC:</b><br>It was informed that issues are being faced with API integration for WBES data, as the number of polling requests permitted is limited.<br><b>240<sup>th</sup> OCC:</b> SAT completed. Rectification of SAT punch points in progress. Scheduled to go live by August 2026                                                                                                  |
| Telangana/ TGTRANSCO       | <b>240<sup>th</sup> OCC:</b><br>Metering module: 689 out of 701 Energy Meters installation is completed<br>IT Module: Tender evaluation is in progress<br>Subsequently, the remaining two modules, namely AMR and hardware part, will be taken up. Expected to be completed by December-2026                                                                                                                                                                       |

➤ *States may update*

## 51. Status of Implementation Automatic Generation Control (AGC)

### a) Central Sector:

- ❖ All CGS stations of SR except NTPC Ramagundam STPS Stage-I had implemented AGC.

| Entity | Generator | Status (57 <sup>th</sup> SRPC / 54 <sup>th</sup> TCC) |
|--------|-----------|-------------------------------------------------------|
|--------|-----------|-------------------------------------------------------|

|                                                                                                                              |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NTPC</b>                                                                                                                  | <b>Ramagundam STPS Stage-I (3x200MW)</b> | <p><b>53<sup>rd</sup> TCC:</b> Completion is expected by December 2025.</p> <p><b>54<sup>th</sup> TCC:</b> Equipment had been reached site. NTPC is ready for implementation.</p> <p>Unit 3: By March 2026</p> <p>Unit 1 &amp; 2: will be taken along with Approved Annual Overhaul.</p> <p><b>238<sup>th</sup> OCC: AGC implemented in Unit 2 &amp; 3 on 18.04.2026</b></p> <p><b>Unit 1: will be implemented at the next opportunity</b></p> |
| <b>All the Generators to furnish the AGC Status at present. Issues after implementation, if any also may be highlighted.</b> |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                |

1. All generators to look into the inconsistencies observed in AGC corrections during low frequency events, especially when operators report receiving advise for opposite responses. Ensure ongoing communication with NLDC to address any issues promptly, especially given the current unavailability of machines.
2. **SRLDC** may schedule sessions with relevant stakeholders to discuss specific issues related to AGC performance, especially concerning lower frequency scenarios. Provide additional training or resources to operators to help them better understand AGC corrections and responses, especially in complex scenarios. Create a feedback loop for operators to report issues or **confusion regarding AGC operations so that they can be addressed in real-time.**

➤ *All the ISTS Generators may update the status*

**b) State Level-Pilot Project identification &Implementation:**

| State                 | Generator                                                                                                                                                      | Status (57 <sup>th</sup> SRPC / 54 <sup>rd</sup> TCC)                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Andhra Pradesh</b> | <b>Krishnapatnam (2x800MW)</b>                                                                                                                                 | <p><b>53<sup>rd</sup> TCC:</b> All units will be put under AGC by 2026-27(along with SCADA up gradation).</p> <p><b>54<sup>th</sup> TCC:</b> Order would be placed shortly, for RTU once new SCADA is commissioned.</p>                                                                                                                                                                                                                                                  |
| <b>Karnataka</b>      | <p><b>Sharavathy Generating Station (1035MW)</b></p> <p>(Available MW for AGC is 10 % of live load up to maximum of 100 MW (10% of 1035 MW))</p>               | <p>Sharavathy: Recently tested.</p> <p>Varahi: Test is planned.</p> <p><b>54<sup>th</sup> TCC:</b> Sharavathy GS &amp; Varahi: Testing had been completed. KAR SLDC stated that the matter needs to be taken up with Karnataka Electricity Regulatory Commission for approval of the commercial mechanism, following which implementation can be carried out. MS, SRPC stated in KERC Advisory Committee meeting, KERC had advised KARSLDC &amp; KPCL to move ahead.</p> |
|                       | <p><b>Varahi</b> Under Ground Power House (4x115 MW)</p> <p>(Available MW for AGC is 20% of live load up to maximum of 80 MW as per the programme planned)</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

|                   |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Kerala</b>     | <b>Kuttiady Unit No.5 (50 MW)</b>                | <b>52<sup>nd</sup> TCC</b><br>Being in the Northern Kerala, dedicated resources cannot be allocated for AGC at the moment.<br><b>54<sup>th</sup> TCC:</b> No resources are available                                                                                                                                                                                                                                                                                                                                                                                                     |
|                   | <b>Idukki Unit No.1 (130 MW)</b>                 | <b>52<sup>nd</sup> TCC</b><br>OPGW works completed. Work has been awarded for the integration by OEM, M/s GE.<br><b>54<sup>th</sup> TCC:</b> Still pending for revised estimation by OEM                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Tamil Nadu</b> | <b>1 North Chennai TPS Stage-II (2 x 600 MW)</b> | <b>52<sup>nd</sup> TCC:</b> RTU at Generating end to be provided. At SLDC, the work is completed.<br><b>53<sup>rd</sup> TCC:</b> The matter was discussed with the management and required funding had been agreed to be provided. Procurement of RTUs would be taken up.                                                                                                                                                                                                                                                                                                                |
|                   | <b>2 MTPS-II(1 x 600MW)</b>                      | <b>54<sup>th</sup> TCC :</b> Tenders were awarded for both stations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Telangana</b>  | <b>TS GENCO Stations</b>                         | <b>53<sup>rd</sup> TCC:</b> All units will be put under AGC by 2026-27(Along with SCADA upgradation.) However, all GENCOs have been requested to complete their respective works. They are progressing with AGC implementation and that the work on hardware and communication infrastructure will be completed ahead of SCADA upgrades, ensuring that integration with SCADA will be smooth once completed.<br><b>54<sup>th</sup> TCC:</b> TGGENCO informed that AGC had been completed at KTPS-7 and that the process of obtaining quotations for the remaining 12 units was underway. |

## 52. Furnishing of information/data to SRPC Secretariat/CEA on regular basis

### 1) PSP-daily Demand and Consumption pattern (CEA requirement):

The daily Demand and Consumption pattern and the reason for significant variations w.r.t last year and past few days **is to be furnished in the prescribed format.**

### 2) Category-wise Consumption Pattern (CEA requirement):

RPCs had been requested to discuss/collect the data in respect of category-wise consumption of electricity in the States/UTs in OCC meetings on a regular basis in the prescribed format. All utilities may furnish data **till 30.04.2026.**

### 3) Status of Implementation of the revised FGD Installation/ESP Up-gradation Plan (CEA/MoP requirement):

- (i) All the concerned to comply with norms, as per CPCB timelines and changes thereof since the activity is monitored by Hon'ble Supreme Court/Government.
- (ii) **Updated information in respect of implementation of revised FGD installation/ESP to be furnished to CE (TPR&M), CEA ([etprm-cea@gov.in](mailto:etprm-cea@gov.in)) with a copy to SRPC.**

**4) Strict Compliance of Environment Emission Norms**

CEA is monitoring the compliance of Environment Emission norms. In this regard, it is requested that the requisite information in the specific format may kindly be furnished by all the TPPs on monthly basis **to CE (TPR&M), CEA ([cetprm-cea@gov.in](mailto:cetprm-cea@gov.in))** with a copy to SRPC. The progress of Installation of Pollution control equipment may kindly be updated in the OCC meetings.

**5) Capacitor Installation:**

Details of capacitors installed by all the states needed to be submitted on monthly basis to SRPC Secretariat.

- **SLDCs/TRANSCOs to carry out studies on voltage issues and plan for Capacitor Installation in low voltage pockets. Especially KPTCL to look into Bangalore area and TN SLDC to Chennai Area.**

**6) U/F & df/dt Relays Schemes:**

Utilities are requested to update the status on regular basis.

**7) Compliance of CEA Regulations for Grid connectivity of RE Sources:**

All the SLDCs are requested to update the status on RE SCADA availability on monthly basis. All the states/STUs should adhere to the Grid Connectivity Regulations as amended.

**8) Certification of Healthiness of Islanding Scheme (CEA/MoP requirement):**

- ✓ Participating Generator Utilities /transmission utilities/SLDCs/SRLDC may confirm the healthiness of the Islanding Schemes. This is a monthly requirement and all the utilities to furnish the information by first week of the every month so that the consolidated information can be passed on to CEA/MoP.
- ✓ Utilities are requested to confirm the Healthiness of Islanding scheme on monthly basis in the prescribed format within the specified dates (by the 3<sup>rd</sup> working day of the month) mailed to [srpc.protectiondata@gmail.com](mailto:srpc.protectiondata@gmail.com) & [srpc.operation@gmail.com](mailto:srpc.operation@gmail.com).

**9) Updating Daily/Monthly Generation and outages Data online at National Power Portal (NPP):**

- ✓ The generating stations are requested to update the data online on NPP portal regularly.
- ✓ SLDCs are responsible for the updating of data for all the generators including IPPs which are connected to respective network (even though in some stations PPA might have expired). The issues if any faced in updating the data may be taken up with CEA.

**10) Furnishing of Monthly Operating Report/Monthly Generation Report (CEA requirement):**

- ✓ CEA, OPM Division vide E-mail dated 28.06.2022 had informed that as per CEA (Furnishing of Statistics, Returns and Information) Regulations, 2007 data for the Monthly Operating Report/ Monthly Generation Report should be submitted by 7<sup>th</sup> of the month. However, it is noticed that the data is being sent by many stations/utilities till 15<sup>th</sup> of the month which results in inordinate delay in preparation of report by CEA.
- ✓ In view of above, it is requested that the data for the Monthly Operating Report/ Monthly Generation Report should be submitted by 7<sup>th</sup> of the month to the email id: [mgrceaopm@gmail.com](mailto:mgrceaopm@gmail.com)

- ✓ The monthly generation data w.r.t SR generators are being furnished to CEA by SRPC Secretariat. It is requested to all SLDCs and Generators to submit the generation data by 5<sup>th</sup> of every month (irrespective of date of OCC Meeting) to enable SRPC to consolidate the same and furnish to CEA by 5<sup>th</sup> of every month.

#### 11) Monitoring of Unscheduled Capacity in Intra-State Thermal Stations

- (i) MoP vide letter dated 13.10.2023 has been conveyed that for State Generating Companies, it has been decided that CEA will obtain the details from each State Generating company (plant wise) in the prescribed format. From this format, conclusion can be drawn whether or not thermal stations are offering its unscheduled capacity to the market for optimum resource utilization.
- (ii) It is requested to furnish the unscheduled capacity in Intra- State Thermal Stations for each state generating company (plant wise) in the prescribed format on a daily basis.
- (iii) The data may please be mailed in the prescribed format by SLDCs to GM division, CEA (gmcea@nic.in) with a copy to SRPC Secretariat.

#### 12) Shifting of agricultural loads from Non-Solar hours to solar hours.

- (i) *MoP vide communication dated 01.02.2024 had communicated certain observations regarding RE installed capacity and meeting the huge demand anticipated in the coming years.*
- (ii) **The following were the updates furnished by the SLDCs in the OCC meetings w.r.t shifting of agricultural loads to solar hours as per MoP communication:**

| State/UT       | Status of Agricultural Load Shifting                                                                   | Remarks/Next Steps                                                           |
|----------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Andhra Pradesh | - AP SLDC (05.03.2024): All 3 DISCOMs shifted 100% agricultural loads from non-solar to solar hours.   | Fully implemented as per MoP directives.                                     |
| Karnataka      | - Except feeders with transmission constraints, all other agricultural feeders shifted to solar hours. | ESCOMs & transmission wings following up on remaining feeders.               |
| Kerala         | - Agricultural load is minimal (~2% of total load).                                                    | Impact of rooftop solar installations on power distribution being addressed. |
| Tamil Nadu     | - Agricultural feeder segregation under RDSS and in progress.                                          | - Current supply hours: 08:00-18:00 & 22:00-06:00.                           |
| Telangana      | - TS SLDC: As per Telangana Govt. policy, 24-hour agricultural supply is provided.                     | No action taken to restrict load to solar hours.                             |
| Puducherry     | - 24x7 agricultural power supply ensured. No load scheduling enforced.                                 | - No feeder segregation done.                                                |
|                | - Consumers are being sensitized about MoP directives to encourage appropriate power consumption.      |                                                                              |

➤ *Status may be updated*

#### 53. Grid Highlights July 2026

- (i) System Frequency
- (ii) Pump Mode Operation

- (iii) Generation Capacity Addition
- (iv) Transmission elements commissioned

**54. Date & Venue/Mode of the 242<sup>nd</sup> Meeting of OCC/Outage coordination.**

| Meeting                                                                     | Date | Time | Mode |
|-----------------------------------------------------------------------------|------|------|------|
| 242 <sup>nd</sup> OCC Outage Coordination Meeting for Transmission Elements |      |      |      |
| 242 <sup>nd</sup> OCC Meeting                                               |      |      |      |

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