

भारत सरकार केंद्रीय विद्युत प्राधिकरण दक्षिण क्षेत्रीय विद्युत समिति 29, रेसकोर्स क्रॉस रोड बेंगलूर- 560 009 Email:mssrpc-ka@nic.in	 सत्यमेव जयते	Government of India Central Electricity Authority Southern Regional Power Committee 29, Race Course Cross Road Bengaluru-560 009 Web site: www.srpc.kar.nic.in Phone: 080-22282516	
सं/No.	SRPC/SE(O)/ 239 th OCC/2026-27/	दिनांक/ Date	01 st June 2026

सेवा में / To

संलग्न सूची के अनुसार/As per the list enclosed

विषय: द क्षे वि स की प्रचालन समन्वय उप समिति की 239 वी बैठक की कार्यसूची के संबंध में ।
Subject: Agenda for the 239th Meeting of Operation Coordination Sub-Committee-reg.

महोदय/महोदया/ Sir/ Madam,

संलग्न, 10 जून 2026 (बुधवार) को 10:00 बजे से विडियो कॉन्फ्रेंसिंग के माध्यम से होने वाली एस आर पी सी की संचालन समन्वय उप समिति 239 वी बैठक की कार्यसूची । कार्यसूची एस आर पी सी की वेबसाइट (www.srpc.kar.nic.in) पर भी उपलब्ध है।

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

Enclosed, please find the Agenda for the 239th Meeting of the Operation Coordination Sub-Committee of SRPC to be held on 10th June 2026 (Wednesday) from 10:00 Hrs through Video Conference. The Agenda is also available at SRPC website (www.srpc.kar.nic.in).

Kindly arrange to send the data in respect of the system latest by 05th June 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,

Malini 01/06/2026

(एन एस मालिनी / N S Malini)

अधीक्षक अभियंता / Superintending Engineer (O)

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SOUTHERN REGIONAL POWER COMMITTEE (SRPC)

Agenda for the 239th Meeting of Operation Coordination Sub-Committee (OCC) to be held on 10th June 2026

1. Introduction

The 239th Meeting of the Operation Coordination Sub-Committee (OCC) of the Southern Regional Power Committee (SRPC) is scheduled for 10th June 2026(Wednesday) through Video Conference at 10:00Hrs.

2. Confirmation of the Minutes of 238th Meeting of OCC

- (i) The 238th Meeting of OCC was held on 11.05.2026 through Video conference.
- (ii) The Minutes of the Meeting were issued on 22.05.2026.

The Minutes of the 238th Meeting of OCC may please be confirmed.

3. Implementation of SRPC recommended AUFR and df/dt scheme

- (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.
- ❖ Subsequently, SRPC vide letter dated 15.09.2025 (**Annexure-3a**) circulated the distribution of new AUFLS relief quantum among SR states/UT as follows (for FY 2025-26):

State	State/UT contribution	State Demand Contribution	Stage-1	Stage-2	Stage-3	Stage-4	Total
Andhra Pradesh	0.183	12768	577	692	807	807	2883
Telangana	0.217	15160	685	822	959	959	3425
Karnataka	0.229	16029	724	869	1014	1014	3621
Kerala	0.075	5274	238	286	333	333	1190
Tamil Nadu	0.288	20155	911	1093	1275	1275	4554
Puducherry	0.008	548	25	30	35	35	125
Total	1.000	69934	3160	3792	4423	4423	15798

237th UPDATES:

- a) SRPC presented AUFLS-Monthly Reports for March-2026 prepared by states in compliance with NPC committee on AUFLS recommendations are as follows:
- b) Andhra Pradesh

STATE	Status/Settings	Stage-1 (49.4 Hz)	Stage-2 (49.2Hz)	Stage-3 (49.0 Hz)	Stage-4 (48.8 Hz)	Total
AP	Recommended (A)	607	729	850	850	3036.00
	SRPC Recommended quantum	577	692	807	807	2883
	Implemented (B)	636.06	647.73	759.84	805.72	2849.35
	SCADA monitored (C)	619.28	647.73	709.28	794.55	2770.84
	Actual flow on SCADA monitored (D)	513.00	548.00	553.80	639.77	2254.57
	Balance implemented (E)= (B) – (C)	16.78	0.00	50.56	11.17	78.51
	Actual flow on balance implemented (F)	13.900	0.000	39.477	8.992	62.37
	Desired relief (G) = (B) X Average state Demand for the month/ (State Demand Contribution)	536.08	545.92	640.41	679.08	2401.49
	Actual relief (H) = (D + F)	526.90	548.00	593.28	648.76	2316.94
Deficit (-)/Surplus (+) --> (H – G)	-9.18	2.08	-47.13	-30.31	-84.55	

- “Recommended (A)” row may be corrected as per “SRPC Recommended Quantum”
- SRPC observed that the “SRPC Recommended Quantum” and “Implemented (B)” are nearly same with a deficit of about 33 MW.
- Minor deficit of 84.55 MW was noted in the relief achieved and it was suggested to identify additional load under AUFR
- AP submitted that, due to restrictions arising from islanding schemes at Visakhapatnam and Vijayawada, as well as the presence of emergency service feeders, there is difficulty in identifying additional loads for AUFR-based relief.
- MS, SRPC opined that bridging the deficit of about 85 MW is feasible and requested AP to examine the matter and identify suitable loads to achieve the required relief.
- ❖ 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, and report compliance to SRPC.

c) Karnataka

Karnataka	Stage -1 49.4Hz	Stage -2 49.2Hz	Stage -3 49.0Hz	Stage -4 48.8Hz	STATE TOTAL
Recommended(A)	724	869	1014	1014	3621
SRPC recommended quantum	724	869	1014	1014	3621
Implemented (B)	853.2	907.32	1255.71	1055.07	4071.3
SCADA monitored (C)	800.8	891.66	1229.71	1055.1	3977.27
Actual Flow on SCADA monitored (D)	647.36	551.9	774.21	510.65	2484.12
Balance implemented (E) = (B)-(C)	52.4	15.66	26	0	94.03
Actual Flow on Balance implemented (F)	28.29	8.59	2.92	0	39.8
Desired relief (G) = (B) X Average State Demand for the month/(State Demand Contribution)	742.43	789.53	1092.68	918.09	3542.73
Actual Relief (H) = (D+F)	675.65	560.49	777.13	510.65	2523.92
Deficit(-) /Surplus (+) (H-G)	-66.78	-229.04	-315.55	-407.44	-1018.81

- “SRPC Recommended Quantum” and “Recommended (A)” are matching.
- “Implemented (B)” quantum is more than “SRPC Recommended Quantum” by about 400 MW. However, the “Actual relief (H)” is much less than the “Desired Relief (G)” by 1018 MW.
- Since Desired Relief (G) is calculated based on “Implemented (B)” (which is much higher than the Recommended (A)), the desired relief is mathematically a higher value. SRPC suggested that the Declared Relief on the feeders may be reduced to the appropriate level (instead of maximum loading on feeders) to reduce the “Implemented (B)” quantum, so that mathematically “Desired Relief (G)” would be appropriately adjusted.

- Karnataka stated that some feeders are IP connected feeders, which operate in batches may not always be in charged condition. So, a higher number of feeders were provided to obtain the requisite relief.
- SRPC clarified that as per the new methodology, the Declared Relief on feeders is not based on maximum load or average load. Instead, an appropriate intermediate loading may be declared.
- ❖ ***KPTCL to rationalize the declared implemented quantum by aligning it with the recommended value, avoid over-declaration of lightly loaded feeders, and optimize the declaration to ensure that realistic relief is reflected and the overall percentage performance improves.***

d) Kerala

Kerala	Stage-1 49.4Hz	Stage-2 49.2Hz	Stage-3 49.0Hz	Stag4-4 48.5Hz	State Total
Recommended(A)	238.00	286.00	333.00	333.00	1190.00
SRPC recommended value	238	286	333	333	1190
Implemented (B)	291.50	303.20	382.20	357.00	1333.90
SCADA MONITORED (C)	259.00	223.00	266.00	237.00	985.00
ACTUAL FLOW ON SCADA MONITORED (D)	296.49	134.12	192.31	176.90	799.82
BALANCE IMPLEMENTED (E) = B-C	32.50	80.20	116.20	120.00	348.90
Actual flow on balance implemented (F)	37.9	151.1	178.9	155.2	523.05
Desired Relief (G)=(B)xAverage State demand for themonth/(State demand Contribution)	227.0	236.1	297.6	278.0	1038.55
Actual relief(H)=(D+f)	334.3	285.2	371.2	332.1	1322.87
Deficit(-) / Surplus(+) H-G	107.4	49.2	73.6	54.1	284.32

Kerala AUFR relief was observed to be satisfactory

- SRPC observed that the “SRPC Recommended Quantum” and “Implemented (B)” are matching.
- The “Implemented (B)” is higher than the recommended value, which is desirable
- Actual relief (H) is higher than the Desired Relief (G), which is satisfactory
 - ❖ ***Kerala SLDC was advised to continue the existing practice.***

e) Tamil Nadu

AUFLS NEW FORMAT	STATE : TAMIL NADU		MONTH	Mar-26	
	Stage -1	Stage -2	Stage -3	Stage -4	STATE TOTAL
	49.4 Hz	49.2 Hz	49.0 Hz	48.8Hz	
Recommended (A)	916	1099	1283	1283	4581
SRPC Recommended quantum	911	1093	1275	1275	4554
Implemented (B)	929	1070	1150.5	1153	4302.5
SCADA monitored (C)	703	898	1116	1078	3795
Actual flow on SCADA monitored (D)	939	969	1032	1110	4050
Balance implemented (E) =(B) – (C)	226	172	34.5	75	507.5
Actual flow on balance implemented (F)	353	176	52	117	698
Desired relief (G) = (B) x Average state Demand for the month/state Demand Contribution	774	891	959	961	3585
Actual relief (H) =(D+F)	1292	1145	1084	1227	4748
Deficit (-) /Surplus (+) H-G	518	254	125	266	1163

TN AUFR relief was observed to be satisfactory

- The “Recommended (A)” may be corrected to “SRPC Recommended Quantum”
 - “Implemented (B)” quantum is less than “SRPC Recommended Quantum” by about 200 MW. However, the “Actual relief (H)” is much higher than the “Desired Relief (G)”.
 - The calculation error as noted in 236th OCC has been rectified.
- ❖ *The relief quantum is appreciated and TN was requested to maintain the same.*

f) Telangana

Status/Settings	49.4 Hz Stage-1	49.2 Hz Stage-2	49.0 Hz Stage-3	48.8 Hz Stage-4	Total
Recommended (A)	685	822	959	959	3425
SRPC recommended quantum	685	822	959	959	3425
Implemented (B)	446	435	473	582.45	1936.45
SCADA Monitored (C)	434.09	419.12	463.37	462.5	1779.08
Actual flow on SCADA monitored (D)	582.52	609.73	622.61	602.31	2417.17
Balance Implemented (E) = (B - C)	11.8652	15.54514	9.63	119.95	156.99
Actual flow on balance implemented (F)	196.00	96.00	74.00	—	366
Desired relief (G) = (B) x Average State Demand for the month / (State Demand Contribution)	400.4545	390.3163	424.7399	523.0227	1738.5334
Actual relief (H) = (D + F)	778.52	705.73	696.61	602.31	2783.17
Deficit (-) / Surplus (+) H - G	378.07	315.41	271.87	79.29	1044.64

- “SRPC Recommended Quantum” and “Implemented (B)” are matching.
- “Implemented (B)” quantum is less than “SRPC Recommended Quantum” by about 1500 MW. However, the “Actual relief (H)” is more than the “Desired Relief (G)” by 1044 MW
- The “Actual flow on balance implemented (F)” may not be correct due to significant difference between “Balance Implemented (E)” and “Actual flow on balance implemented (F)”. Telangana was advised to re-check the values.
- Telangana was advised to increase the implemented quantum. Subsequently, based on the

“Desired Relief (G)”, if required, additional feeders may be identified for load relief to bridge the remaining deficit.

- ❖ *Telangana to correct data (Column E) reconcile declared vs actual relief, increase implemented quantum by identifying additional feeders, and examine methodology, as accurate data and higher implementation are essential.*

g) Puducherry

	Stage - 1 49.4 Hz	Stage - 2 49.2 Hz	Stage - 3 49.0 Hz	Stage - 4 48.8 Hz	STATE TOTAL
Recommended (A)	26	31	36	36	129
SRPC recommended quantum	25	30	35	35	125
Implemented (B)	26	31	36	36	129
SCADA monitored (C)	26	31	32	36	125
Actual flow on SCADA MONITORED (D)	25	33	30	36	124
Balance implemented (E) = (B) - (C)	0	0	0	0	0
Actual flow on balance implemented (F)	0	0	0	0	0
Desired relief (G)= (B) x Average State Demand for the month/(State Demand Contribution)	20	24	28	28	100
Actual relief (H)= (D+F)	25	33	30	36	124
Deficit (-)/Surplus (+) H - G	5	9	2	8	24

PED AUFR relief was observed to be satisfactory

- The “Recommended (A)” may be corrected to “SRPC Recommended Quantum”
- “Implemented (B)” quantum is slightly more than “SRPC Recommended Quantum” by about 4 MW.
- “Actual relief (H)” is higher than the “Desired Relief (G)” with a surplus of 24 MW.

General Conclusion/Action Points

- After detailed deliberations, it was concluded that in “Desired Relief (G)” formula, $\text{Desired Relief (G)} = (\text{B}) \times (\text{Average State Demand for the month}) / (\text{State Demand Contribution})$ (B) in in the above formula may be taken as higher of “Recommended (A)” quantum or “Implemented (B)” quantum
- AP, TN and PED may correct the “Recommended (A)” quantum as per “SRPC Recommended Quantum”
- All States were advised to ensure accurate declaration of implemented quantum, identification of adequate feeders to meet the required relief, correctness of PMU/ETR data, and proper coordination and time synchronization of UFR schemes to ensure reliable operation during frequency disturbances.

AUFR tripping observed on 03.03.2026

h) As discussed in 236th OCC agenda item no. 3, AUFR tripping were reported on 03.03.2026. The tripping details shared by states are as follows:

State	Tripping Details of 03.03.2026
Andhra Pradesh	Nil
Telangana	74 MW
Karnataka	Nil
Tamil Nadu	Nil
Kerala	46.4 MW
Puducherry	Nil

Kerala stated that Load Relief was on 46.4 MW was observed on 03.03.2026 at 18:52 hours due to AUFR Stage-1 operation.

The load relief details are as follows:

110 kV Chengalam SS (11kV loads)	10.7 MW
110 kV Kizhissery SS (11kV loads)	23 MW
110 kV Parippally SS (11kV loads)	12.7 MW
Total Load Loss	46.4 MW

As per PMU at Kalamassery, lowest frequency was observed as 49.416 Hz. Relay wing was directed to verify the settings at these stations.

- i) **Telangana** reported a load loss of 74 MW. TG informed that the relays were supposed to operate at 19:16 hours, however they operated at 19:19 hours, indicating a delay of 3 minutes. The matter is being investigated.

MS, SRPC observed that system frequency is uniform across the grid, hence, it may be a time synch issue. It was suggested to obtain PMU data from the nearest available substation from SRLDC to validate the timeline. Telangana was requested to furnish the tripping details.

- j) SRPC advised TG to verify the relay settings. In case the set point is at 49.41 Hz and the tripping occurred tripped, it is acceptable. However, if the set point is at 49.40 Hz and tripping still occurred in this incident, then verification may be required.

Action Points

- Telangana to obtain PMU data from the nearest available substation through SRLDC to validate the event timeline. Investigate the reason for the 3-minute delay in relay operation and furnish the findings.
- Telangana to furnish detailed tripping information to SRPC. Verify the relay settings and confirm whether tripping occurred in accordance with the set frequency (49.41 Hz / 49.40 Hz).
- **All states/UT to include the revised AUFLS relief quantum in monthly reports.**

Grid Frequency dip Event on 13.05.2026 – Non operation of UFR Stage 1 & Automatic disconnection of PSP before UFR

- a) SRLDC vide letter dated 15.05.2026 (**Annexure-3b**) informed that grid frequency dipped to 49.40 Hz at 14:09 Hrs on 13.05.2026 due to solar generation loss in the Western Region. Subsequently, the frequency recovered to around 49.55 Hz, initially aided by operation of Under Frequency Relays (UFRs).
- b) During the above grid event, it was observed that Tamil Nadu was overdrawing up to about 500 MW during the event. As per information received from SLDCs and SRLDC SCADA data, inadequate operation of UFR Stage-1 was observed in certain States.
- c) In particular, against the approved quantum of 929 MW for Tamil Nadu, only about 26 MW load relief was observed through UFR Stage-1 operation. The same was highlighted, by SRLDC, to TANTRANSCO vide letter dated 15.05.2026 (**Annexure-3c**)

Constituent	Quantum Approved	Quantum Installed	Quantum Operated	Remarks	Quantum not operated
Andhra Pradesh	577	636	432	Data furnished by Andhra Pradesh	204
Telangana	685	446	243	Data furnished by Telangana	203
Karnataka	724	853	131	As per SRLDC SCADA data	722
Kerala	238	292	160	As per SRLDC SCADA data	132

Constituent	Quantum Approved	Quantum Installed	Quantum Operated	Remarks	Quantum not operated
Tamil Nadu	911	929	26	As per SRLDC SCADA data	903
Puducherry	25	26	11	As per SRLDC SCADA data	15

d) It was also informed by SRLDC that around 1800 MW of pumping load was in operation in the Southern Region during the frequency dip event, comprising approximately 210 MW at Nagarjunasagar PSP and approximately 1600 MW at Greenko PSP. It was observed that Nagarjunasagar PSP stopped pumping operation after operational instructions. In this regard, attention is invited to Note-2 of Regulation 29(12) of IEGC-2023, which stipulates that

“Pumped storage hydro plants operating in pumping mode or ESS operating in charging mode shall be automatically disconnected before the first stage of UFR.”

- e) Greenko vide letter dated 14.05.2026 (**Annexure-3d**), informed that the Pinnapuram PSP units operating in pump mode failed to trip because protection relay settings had not been reverted to SRPC-approved values after commissioning trials due to an oversight by the OEM. Upon detecting this discrepancy, Greenko immediately restored the under-frequency (U/F) and over-frequency (O/F) thresholds to their mandated limits of 49.5 Hz and 50.5 Hz, respectively, with a 5-second operational delay.
- f) Also, it is to be noted that similar Frequency dip happened on 08th, 09th Sept 2025 and 31st Oct 2025. The same was in detail deliberated in 232-235th OCC wherein all SLDCs sought clarification & a detailed report identifying the root cause of the trippings and corrective action taken.
- g) Further, it is to be noted that the matter regarding AUFLS and df/dt scheme was also deliberated during the 52nd TCC and 55th SRPC meetings held at Udaipur on 25th and 26th July 2025, wherein it was emphasized that PSPs operating in pumping mode and ESS operating in charging mode shall be automatically disconnected before operation of first stage UFR.
- h) The same Grid Frequency dip Event on 13.05.2026 was highlighted in 239th OCC - **SRLDC Agenda No. 7 iv**

➤ *May be deliberated*

4. Review of Transmission Line Trippings during Thunderstorm/Adverse Weather Conditions and need for enhanced Situational Awareness of Stressed Corridors (SRLDC Agenda No. 7 vi.)

a) SRLDC vide mail dated 01.06.2026 had highlighted that during recent weeks, many transmission line trippings have been observed across the Southern Region due to thunderstorms, heavy winds, lightning activity, and other adverse weather conditions. These incidents have resulted in load loss, generation loss, system constraints, and operational challenges. Further, incidents such as tower collapse and conductor snapping have also been observed, leading to prolonged restoration timelines and reduction in transmission corridor availability. The following major trippings have been observed recently:

S.No.	Name of the Transmission line	Owner	Outage	Revival	Reason	Remarks
1	400KV-Kaiga-Guttur-2	KPTCL	14-May-26 17:39 Hrs.	Yet to Revive	Tower Collapse	Kaiga, Kadra, Kodasalli generation is being evacuated through 400kV Kaiga-Narendra D/c and
2	400KV-Kaiga-Guttur-1		14-May-26 17:39	Yet to Revive	Tower Collapse	

S.No.	Name of the Transmission line	Owner	Outage	Revival	Reason	Remarks
			Hrs.			tripping of any one line on this section may lead to evacuation constraints from Kaiga.
3	220KV Vena-GadagPS-1	Vena	17-May-26 16:14 Hrs.	Yet to Revive	Tower Collapse	Due to loss of evacuation line, 160 MW generation effected.
4	220KV Green Infra-GadagPS-1		17-May-26 16:16 Hrs.	Yet to Revive	Tower Collapse	Due to loss of evacuation line, 69 MW generation effected.
5	400KV Gadag-Koppal-1	GADAG IIA	23-May-26 18:13 Hrs.	Yet to Revive	Tower Collapse	Tripping of 400kV Koppal-Kudgi D/c or 400kV Gadag-Kudgi D/c may lead loss of RE generation at Koppal PS & Gadag PS
6	400KV Gadag-Koppal-2		23-May-26 18:13 Hrs.	Yet to Revive	Tower Collapse	
7	400KV-Nagapattnam_PS-Trichy-1	POWERGRID	31-May-26 17:04 Hrs.	Yet to Revive	Tower Collapse	
8	400KV-Nagapattnam_PS-Trichy-2	POWERGRID	31-May-26 17:04 Hrs.	Yet to Revive	Tower Collapse	
9	400KV Kudgi PG-Kolhapur PG-1	POWERGRID	24-May-26	25-May-26	TRIPPED ON R-N FAULT	SR EXPORT TTC/ATC would reduce
10	765KV Warora- Warangal (New)- 1	WKTL (ADANI)	25-May-26	25-May-26	Tripped on R-B Fault	SR Import TTC/ATC would reduce.
11	765KV Warangal (New) - Chilakaluripeta-2	WKTL (ADANI)	25-May-26	28-May-26	Tripped on B-N FAULT	SR Import TTC/ATC would reduce
12	765KV Warangal (New) - Chilakaluripeta-1	WKTL (ADANI)	25-May-26	26-May-26	Tripped on B-N fault	SR Import TTC/ATC would reduce
13	765KV Warangal (New) - Chilakaluripeta-1	WKTL (ADANI)	26-May-26	27-May-26	Tripped on R-G fault	SR Import TTC/ATC would reduce

- b) During the tripping of 220KV Gadag PSS, there was generation loss of 82MW from 220kV Vena Gadag PS and 70MW from Green Infra Gadag PS. In the present operating scenario, the grid is continuously operating under high loading conditions and stressed network conditions. There is a need for periodic review and enhanced situational awareness of vulnerable transmission corridors/zones by Transmission licenses.
- c) Further, all concerned transmission licensees are requested to provide details of the corrective and preventive measures/actions taken by them to avoid recurrence of such incidents in future. The

transmission licensees may also furnish the expected restoration timelines for the affected transmission elements along with periodic status updates of restoration activities being undertaken. Detail of Availability of ERS also to be provided.

- d) The same issue was highlighted by NLDC vide its letter dated 02.06.2026 (**Annexure-4a**).

➤ *May be deliberated*

5. Tripping of 765KV-Ariyalur-NCPS line (SRLDC Agenda No 7.v)

- a) 765KV-Ariyalur-NCPS-1 feeder tripped at 23:30 hrs. on 18.05.2026. Insulator decapping reported in multiple locations after patrolling. During antecedent conditions, 765kV Ariyalur NCPS line-2 was under outage. Tripping of the only source led to complete outage of 765kV NCPS Pooling station and 765kV NCPS Generating station which resulted in a generation loss of 520MW.

- b) The details of tripping of lines connected to NCPS station is given below:

Element	Tripping time	Restoration time	Reason	Outage period in days
765KV-Ariyalur-NCPS-2	2026-01-01 03:25	2026-01-12 11:36	Tripped on Y-N fault	11
765KV-Ariyalur-NCPS-1	2026-01-12 16:54	2026-01-24 19:13	Insulators decap has been identified LOC NO 12 20 38 70 83	12
765KV-Ariyalur-NCPS-2	2026-01-24 16:34	2026-02-10 09:32	Tripped on Y-N fault	17
765KV-Ariyalur-NCPS-2	2026-03-01 03:59	2026-03-09 18:54	Tripped on Y-N fault	9
765KV-Ariyalur-NCPS-1	2026-03-15 06:50	2026-03-31 14:02	Tripped on Y-N fault	16
765KV-Ariyalur-NCPS-1	2026-04-04 10:22	2026-04-04 11:38	Low SF6 gas pressure	0
765KV-Ariyalur-NCPS-2	2026-05-08 09:28	2026-05-11 15:15	Tripped on Y-N fault	3
765KV-Ariyalur-NCPS-2	2026-05-11 15:16	2026-05-21 13:00	Tripped on Y-N fault	10
765KV-NCPS-NCPS STG3-1	2026-05-18 23:30	2026-05-21 13:00	Tripped due to loss evacuating NCPS-Ariyalur line-1	3
765KV-NCPS-NCPS STG3-2	2026-05-18 23:30	2026-05-21 13:00	Tripped due to loss evacuating NCPS-Ariyalur line-1	3
765KV-Ariyalur-NCPS-1	2026-05-18 23:30	Outage going on	Tripped on Y-N fault	11

- c) The time taken for attending insulator decapping is high and this delay in attending insulator decapping activities in Tamil Nadu is impacting smooth and secure grid operation. Tamil Nadu may plan for the early restoration of transmission lines affected by insulator decapping to minimize operational risks and enhance grid reliability.

➤ *TN SLDC/SRLDC may respond*

6. Timely Submission of Monthly PSS/E cases by states (SRLDC Agenda No.3)

- ✓ As per agreed procedure, all the states must submit the PSSE cases by 10th of every month for D+11 month & 8th of every month for D+1 month. The following table shows dates on which SR states have submitted the PSSE cases for D+11 month.

State	Month Ahead Cases	11-month ahead Cases
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Last Date of Submission	08-04-2026	10-04-2026
AP	22-04-2026	24-04-2026
TS	22-04-2026	22-04-2026
KA	22-04-2026	22-04-2026
TN	15-04-2026	15-04-2026
KL	06-04-2026	06-04-2026
PY	10-04-2026	10-04-2026

- ✓ States are requested to submit the PSS/E cases timely for preparing all India PSS®E file for carrying out the power system simulation studies.

➤ *SRLDC/SLDCs may respond*

7. Persistent Overloading of Critical ISTS Corridors in Tamil Nadu & Karnataka under High RE Injection Scenario (SRLDC Agenda No 1 & 2)

- a) During high Renewable Energy (RE) generation scenarios, continuous N-1 violations are being observed on the following critical ISTS corridors:
- 400 kV Madurai–Udumalpet S/c
 - 400 kV Tirunelveli–Udumalpet D/c
 - 400 kV Madurai–Pugalur D/c
- b) Detailed analysis indicates that the overloading is primarily due to heavy RE power injection from the Tamil Nadu intra-state network into the ISTS network through the 400/230 kV ICTs at Madurai, Tirunelveli, Udumalpet, Pugalur and Trichy substations. In addition, substantial power flow is also being observed from 400 kV Kanarpatty towards Tirunelveli through the 400 kV Tirunelveli–Kanarpatty S/c line.
- c) Further, low voltage conditions are also being observed at several substations where significant RE power is being injected from the 230 kV network to the 400 kV network, mainly due to high MVar drawal by RE plants. The excessive reactive power consumption by RE generators is aggravating voltage profile issues in the Southern Region grid, particularly during high RE generation periods.
- d) It is observed that nearly 2935 MW of additional RE capacity has been integrated into the Tamil Nadu system during FY 2025-26, as per MNRE installed capacity data dated 30.03.2026. However, as per the CEA transmission progress report dated 30.03.2026, no corresponding 400 kV / 765 kV transmission infrastructure appears to have been commissioned for evacuation of this additional RE capacity.

The above network condition is resulting in persistent stress on key ISTS corridors and is significantly impacting secure grid operation. Further, due to the overloading of the above lines, SRLDC may not be able to operate the Raigarh–Pugalur HVDC link in reverse power flow mode (SR → WR), thereby adversely affecting the export TTC/ATC of the Southern Region.

In view of the above, Tamil Nadu is requested to furnish the following details:

- (i) Details and locations of the additional 2935 MW RE capacity integrated during FY 2025-26.
- (ii) The identified transmission system and evacuation scheme planned for the above RE capacity, including associated 400 kV / 765 kV infrastructure.
- (iii) Status of commissioning timelines of the evacuation system corresponding to the above RE integration.

- (iv) Basis on which the RE integration was permitted by Tamil Nadu SLDC in the absence of matching transmission augmentation at the 400 kV level.
- (v) Measures proposed by Tamil Nadu to mitigate persistent ISTS overloading and N-1 violations under high RE scenarios.
- (vi) Whether any generation regulation / curtailment mechanism is being implemented to maintain secure loading on ISTS corridors during high RE injection conditions.
- (vii) Expected timeline by which the identified transmission constraints will be resolved.

Actions taken / proposed by Tamil Nadu to mitigate low voltage conditions at substations experiencing high RE injection, including installation of shunt capacitors/reactors, implementation of dynamic reactive compensation, enforcement of RE plant reactive power support, and voltage control measures at pooling stations and generating stations.

➤ *SRLDC may present & TN SLDC/TANTRANSCO may respond*

KARNATAKA

During high Renewable Energy (RE) generation scenarios, N-1 violations are being observed on the following critical ISTS substations:

- 765/400kV Raichur (PG) ICTs
- 400/220kV Kudgi (NTPC) ICTs
- 400/220kV Narendra ICTs
- 400/220kV Munirabad ICTs
- 400/220kV Hiriyur ICTs

Detailed analysis indicates that the overloading is primarily due to heavy RE power injection from the Karnataka intra-state network into the ISTS network. These injections are affecting SR Export TTC/ATC. It is observed that nearly 878 MW of additional RE capacity has been integrated into the Karnataka system during FY 2025-26, as per MNRE installed capacity data dated 30.03.2026. However, as per the CEA transmission progress report dated 30.03.2026, no corresponding 400 kV / 765 kV transmission infrastructure appears to have been commissioned for evacuation of this additional RE capacity. The above network condition is resulting in persistent stress on key ISTS corridors and is significantly impacting secure grid operation.

In view of the above, Karnataka is requested to furnish the following details:

- (i) Details and locations of the additional 878 MW RE capacity integrated during FY 2025-26.
- (ii) The identified transmission system and evacuation scheme planned for the above RE capacity, including associated 400 kV / 765 kV infrastructure.
- (iii) Status of commissioning timelines of the evacuation system corresponding to the above RE integration.
- (iv) Basis on which the RE integration was permitted by Karnataka SLDC in the absence of matching transmission augmentation at the 400 kV level.
- (v) Measures proposed by Karnataka to mitigate persistent ISTS overloading and N-1 violations under high RE scenarios.
- (vi) Whether any generation regulation / curtailment mechanism is being implemented to maintain secure loading on ISTS corridors during high RE injection conditions.
- (vii) Expected timeline by which the identified transmission constraints will be resolved.
- (viii) Actions taken / proposed by Karnataka to mitigate low voltage conditions at substations experiencing high RE injection, including installation of shunt capacitors/reactors, implementation of dynamic reactive compensation, enforcement of RE plant reactive power support, and voltage control measures at pooling stations and generating stations.

8. 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 31st 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 207th meeting held in October-2023 and 49th TCC/ 52nd SRPC meeting held in August-2024.
- ✓ Further, vide letter dated 03.06.2025 (**Annexure-8a**), 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 (**Annexure-8b**), 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 (**Annexure-8c**), 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 timeless 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 meeting is being convened on 18.06.2026 (Thursday) at 10:30 hrs through Video Conference to deliberate on the above Regulation 40 compliance with conventional generators (Thermal, Hydro, Gas).
 - **All conventional generators, GENCOs, SLDCs and SRLDC are requested to attend the meeting.**

9. Discussion on NLDC Draft Guidelines for Harmonics Measurement at Transmission Level.

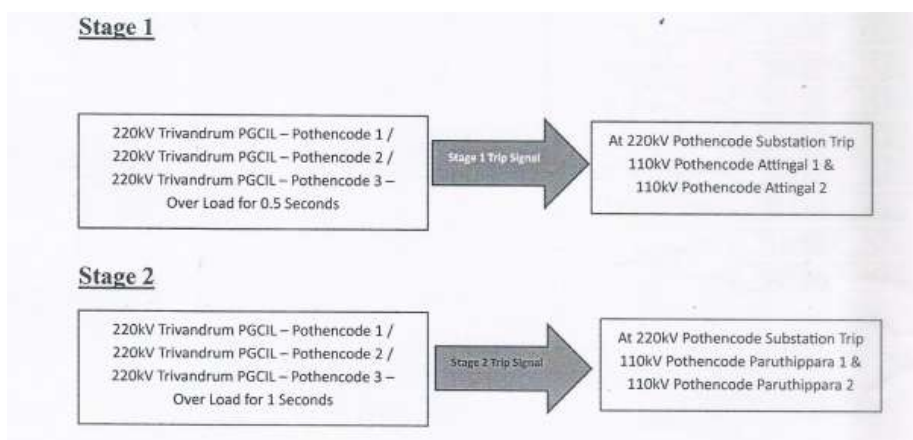
- a) During the 17th meeting of the National Protection Committee (NPC) held on 27.02.2026 at Visakhapatnam, Andhra Pradesh, the issue of evolving a uniform criterion for harmonics measurement in the grid was deliberated. NPC decided that the report prepared by Grid-India shall be examined by the RPCs in coordination with RLDCs and other stakeholders.
- b) Further, it was concluded that the matter may be discussed in the concerned Protection Sub-Committees of RPCs and comments may be submitted for further deliberation in the Protection Subgroup of NPC to evolve a uniform and implementable criterion.
- c) Subsequently, a meeting of the Protection Subgroup of NPC has been scheduled on 04.06.2026 to discuss the draft guidelines on harmonics measurement at the transmission level prepared by NLDC, Grid-India (**Annexure-9a**).
 - **May be noted**

10. Draft Amendment II to Manual on Transmission Planning Criteria

- a) CEA has circulated Draft Amendment-II to the Manual on Transmission Planning Criteria vide letter dated 19.05.2026 (**Annexure-10a**), inviting comments/suggestions from stakeholders.
- b) Members may deliberate on the proposed amendments and furnish their comments/suggestions, if any, for onward submission to CEA by the stipulated timeline
 - **All utilities may furnish the comments**

11. SPS at 220kV Pothencode Substation

- a) KSEB vide letter dated 18.05.2026 (**Annexure-11a**) 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.



➤ **KSEBL may present**

12. NLDC communication - for adherence to the approved shutdown timelines

- a) NLDC vide letter dated 18.05.2026 (**Annexure-12a**) has highlighted the issue of non-adherence to approved shutdown timelines by various indenting entities. It was observed that a considerable number of shutdowns, including long-duration outages having implications on TTC/ATC revisions, were not returned within the approved timelines during the period from 01.01.2026 to 31.03.2026.
- b) NLDC has further informed that despite repeated follow-ups, optimized shutdown timelines and detailed work plans are often not submitted in the respective OCC forums. Such delays constrain the flexibility available for accommodating emergency outages as well as future planned shutdowns, thereby affecting efficient grid operation and outage planning process.

- c) The detailed list of NLDC purview SR elements with delays exceeding three hours is enclosed at **Annexure-12b**
➤ *NLDC/SRLDC may present*

13. AP Agenda

A) LILO Works to construct 400/220kV GIS SS at Atchutapuram

- a) APSLDC vide letter dated 29.05.2026 (**Annexure-13a**) requested to facilitate shutdown for Construction of 400/220kV GIS at Atchutapuram making LILO of (2*3.5 KM approx.) both circuits of the existing 400kV Kalapaka - Khammam and Kalapaka– Asupaka TMDC line at the proposed 400/220kV GIS Atchutapuram on LS basis.
- b) Line Clear for Stringing of 12 No’s Twin Moose ACSR Conductors between location AP 3 and AP 4 for the period from 10.06.2026 to 16.06.2026 of 400kV HNPCL –Guddigudem 1&2 and 400kV Kalapaka –STTP – Vemagiri Lines.

Sl. No	Name of the feeder	Date	Timings	
			From	To
1	1.400kV NTPC- Vemagiri	10-06-2026	06-00 Hrs	18-00 Hrs
	2.400kV Kalapaka-Vemagiri	11-06-2026	06-00 Hrs	18-00 Hrs
	3.400kV HNPCL – Guddigudem-1	12-06-2026	06-00 Hrs	18-00 Hrs
	4.400kV HNPCL – Guddigudem-2	13-06-2026	06-00 Hrs	18-00 Hrs
		14-06-2026	06-00 Hrs	18-00 Hrs
		15-06-2026	06-00 Hrs	18-00 Hrs
		16-06-2026	06-00 Hrs	18-00 Hrs

- c) All the LCs for the above 400kV lines were requested in 238th Mid review outage, by APSLDC. However, SRLDC viewed that Atchutapuram related shutdowns may be planned after the revival of 400kV-KALPAKKA-KHAMMAM and 400kV-KALPAKKA-ASUPAKA.
- d) Further, it is to be noted that the APSLDC had already availed the S/D of 400kV KALPAKKA-KHAMMAM and 400kV-KALPAKKA-ASUPAKA TMDC lines for ‘Replacement of badly damaged rusted towers from Loc No.1 to 11’ in 400KV Kalapaka – Khammam & Asupaka TMDC line with Heavy galvanized Towers (120 Microns) along with stringing of conductor on turnkey basis under RMI scheme from 05.05.2026 to 26.06.2026 (53 days).
➤ *APSLDC/SRLDC may respond*

B) Replacement of Failed 400/220kV, 315MVA ICT-2 at 400kV PGCIL Nunna Substation with 500MVA ICT

- a) APSLDC vide letter dated 28.05.2026 (**Annexure-13b**) has informed that the 400/220kV, 315MVA ICT-2 at 400kV PGCIL Nunna Substation had failed on 25.05.2026.
- b) APSLDC has stated that, based on TTC/ATC studies and SCADA data analysis, the maximum loading recorded on the ICTs at Nunna Substation was 972 MW against the available capacity of 1130 MW, indicating approximately 86% loading. Considering the system adequacy, operational reliability and meeting future load requirements at Nunna, APSLDC has requested for replacement of the failed 315MVA ICT with a 500MVA ICT instead of another 315MVA ICT.
➤ *APSLDC/SRI PGCIL/SRLDC/CTUIL may respond*

14. NTPC Agenda

1. NTPC Simhadri

1. Simhadri STPS proposes to carry out following Tests in Stage-I Unit-1, to fulfil IEGC requirements:
 - Model Validation and verification of Turbine/Governor and Load Control or Active Power/ Frequency Control Functions.
 - Testing of Governor performance and Automatic Generation Control.

These Tests are to be done at 55%, 80% and 100% load and duration required for each load is 3 hours. It is requested to arrange to provide the following schedules on 15th & 16th June 2026, to carry out these Tests:

Schedule Re-quired	15 th June 2026				16 th June 2026			
	Min (MW)	SG	Max (MW)	SG	Min (MW)	SG	Max (MW)	SG
Block 41-52	515.62		726.56		515.62		726.56	
Block 61-72	631.81		843.75		631.81		843.75	
Block 75-86	726.56		937.50		726.56		937.50	

SRLDC personnel may please be deputed to witness above Tests.

2. Further, DCS R&M has been done in Unit-1 and before conducting its PG Test, Trial Operation of the Unit at Full Load for 72 hours, is to be done. Simhadri STPS proposes to be carry out, 72 hours Full Load Trial Operation, from 1st Block of 17th June to 96th Block of 19th June. The Schedule for Simhadri Stage-I during this period needs to be more than 726.56 MW. It is requested to arrange to provide minimum 726.56 MW schedule for Simhadri Stage-I from 10th June to 12th June for all the Blocks. RGMO/FGMO and AGC of Unit-1 needs to be kept OFF during the Test.
3. Overhauling of Simhadri Stage-II Unit-4 from 3rd August 2026 to 6th September 2026.

2. NTPC Ramagundam

1. Annual OH of Unit #5 (500MW) is proposed from 15/08/2026 to 28/09/2026 for 45 days.
2. Stage-1 AGC implemented
 - Unit-1 from 11/05/2026.
 - Unit-2 &3 AGC active from 17/04/2026.

3. NTPC Telangana

Rescheduling of NTPC Telangana Unit-1 Annual Overhaul

NTPC Telangana Unit-1 Annual Overhaul was approved in the 238th OCC from 10/06/2026 onwards for a period of 40 days. However, it is informed that the overhaul is now tentatively scheduled from 01/11/2026 for a period of 65 days to carry out Boiler SH/RH modification works by the OEM. Accordingly, the earlier approved outage schedule from 10/06/2026 may be treated as cancelled/rescheduled. The revised outage program may please be considered.

4. NTPC KUDGI

UNIT#1 AND 3 FGD PG test planned during June-2026.

- ✓ The test is planned at full load for 08 hours for three days in each unit.
- ✓ Test timings will be followed as advised by SRPC/SRLDC.
- ✓ Unit#1 and 3 will be kept at full load 800MW during test duration and no other activity will be carried out.
- ✓ It is requested to provide full schedule for 08 hours on daily basis, exact dates will be communicated one week advance.

- ✓ No test will be carried out during Saturday, Sunday and public holidays.
- ✓ It is requested to switch off TRAS/SRAS/SCED/RGMO during test duration.

5. NTPC Talcher

1. Shutdown program of Generating Units in June-Jul 2026:

Unit	Date of Planned S/D	Remarks
Unit#6 500MW	10.06.2026 to 14.07.2026 (35 days)	Approved in 238th OCC
Unit#3 500MW	16.07.2026 to 04.08.2026 (20 days)	Approved in 238th OCC The schedule may be revised to 20.07.2026 to 08.08.2026 considering revival of Unit#6 from Overhaul and stabilization.

2. Trial run of FGD system of Unit 4 of NTPC Talcher Kaniha Stage-II

- ❖ The schedule of execution of the 72-hour Trial Run at MCR of Unit#4 FGD is approved 3 continuous working days between Tuesday to Friday, preferably in the 1st week of June 2026 is approved in 238th OCC. The schedule may be revised to 4th week of June due to Technical constraints.
- ❖ The date of execution of the 72-hour Trial Run at MCR shall be intimated 7 days in advance to all beneficiaries, SRLDC and SRPC.
- ❖ Support from all beneficiaries is requested to provide a continuous full schedule for 72 hours for one unit to facilitate successful completion of the mandatory trial run.

3. PG Test of FGD system of Unit 3 of NTPC Talcher Kaniha Stage-II

- ❖ For conducting PG test of Unit 3 full load schedule for 72 hours may be provided in 1st week of July 2026
- ❖ The date of execution of the PG Test at MCR shall be intimated 7 days in advance to all beneficiaries, SRLDC and SRPC.
- ❖ Support from all beneficiaries is requested to provide a continuous full schedule for 72 hours for one unit to facilitate successful completion of the PG Test.

➤ *Forum may discuss*

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

The issue regarding operationalization of 230 kV BHAVINI – Kancheepuram Line-I & II for PFBR commissioning support was deliberated in the 238th OCC meeting and concluded as below.

- a) The requirement for early charging of 230 kV BHAVINI–Kancheepuram Line-I & II in view of PFBR commissioning was noted and emphasized that the issues may be resolved on priority to facilitate commissioning of the lines.
- b) Further, it was concluded that **TN SLDC** may issue a conditional operational approval considering the national importance of the project.
- c) **BHAVINI** to ensure the participation in all the relevant meetings of SRPC/SRLDC & furnish phased injection schedule well in advance and ensure readiness of SCADA, telemetry, communication, FTC, and metering requirements.
- d) Upon the receipt of injection schedule, TN SLDC, BHAVINI, MAPS and SRLDC may jointly study the proposed injection pattern of BHAVINI and assess system requirements/modifications, if any, required in the Tamil Nadu grid prior to commencement of injection.

Post OCC Update:

- e) BHAVINI vide mail dated 12.05.2026 forwarded the APTEL final verdict document (**Annexure-15a**) and once again requested TANTRANSOCO to facilitate 230kV Kancheepuram -I & II feeders at the earliest.
 - **TNSLDC/BHAVINI may respond on closing of 230 kV BHAVINI – Kancheepuram Line-I & II**
 - **TNSLDC, BHAVINI, MAPS & SRLDC may update the study on the injection pattern**

16. Grid operational Issues – SRLDC Concerns

A) Grid Operational messages

SRLDC had issued a number of Grid Operational messages to entities during May 2026.

- **SRLDC may take up the same and respective entities may respond**

B) Follow up on Non-reporting of Karnataka SCADA Data to SRLDC

- a) SRLDC has reported that SCADA data from multiple intra-state substations of Karnataka is not being received since the night hours of 29.04.2026, thereby affecting real-time system visibility. The non-reporting of SCADA data is impacting real-time visibility of grid parameters at SRLDC, thereby affecting system monitoring, real-time operation and overall grid security.
- b) The issue was discussed in 238th OCC. It was concluded that KAR SLDC to furnish a detailed report within one week covering the root cause analysis, corrective actions taken, preventive measures proposed, and the alternative communication path/mechanism envisaged for ensuring uninterrupted real-time SCADA data availability during future VSAT failures.
- c) However, no report had been received from KAR SLDC
 - **KAR SLDC may respond**

C) 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 238th OCC meeting. SRLDC had highlighted that steep demand reduction, particularly in Andhra Pradesh and Karnataka due to agricultural load switching, had resulted in operational challenges including tripping of critical transmission elements.
- b) APSLDC and KPTCL had informed that measures are being explored for staggering agricultural load reduction to smoothen the demand curve and avoid abrupt demand variations.
- c) SLDCs to examine and implement suitable staggering of agricultural load reduction during evening hours to smoothen the Grid Operation avoiding sharp demand drops in the grid.
- d) In this regard, NLDC vide letter dated 27.05.2026 (**Annexure-16c**) communicated to Andhra Pradesh and Karnataka states highlighting the same and necessary measures for smoothen the Grid Operation avoiding sharp demand drops in the grid.

APSLDC/KAR SLDC/SLDCs may inform the action taken

D) Frequent Tripping of 400 kV Jindal – BPS Lines at Jindal End due to GPR

- a) Frequent tripping of the 400 kV Jindal–BPS transmission lines has been observed at the Jindal end, reportedly attributed to Ground Potential Rise (GPR), which is impacting reliable power evacuation and system stability in the area.
- b) The 400 kV Jindal–BPS lines are experiencing repeated trippings at the Jindal end, particularly during fault/disturbance conditions, and preliminary observations indicate that GPR-related issues may be leading to protection mal-operation or unwanted tripping.

- c) The recurring tripping of these critical transmission lines is affecting system reliability, causing transmission constraints, impacting power evacuation from the Jindal generation complex, and posing a concern for grid security and operational stability.
- d) In 238th OCC, it was concluded that as the matter was already deliberated in 142nd PCSC meeting. Based on the decision of the PCSC meeting, a joint team comprising CPRI, POWERGRID (Corporate GIS), SRPC, SRLDC, and concerned stakeholders will visit the site to undertake detailed analysis of the repeated trippings and recommend suitable corrective measures for resolution.
- e) The Joint visit is planned on 12.07.2026

17. Switching Operation of 2×125 MVAR Bus Reactors at Kaiga: Communication dated 02.04.2026

- ❖ Kaiga (KGS) had highlighted simultaneous reactor switching and sought clear voltage-based SOP; flagged concerns on frequent switching impact, especially for nuclear units. Kaiga 400 kV switchyard is connected through two 400 kV lines each from Narendra and Guttur. In the past, high bus voltage conditions at Kaiga led to frequent line outages. To mitigate this, two numbers of 125 MVAR bus reactors had commissioned and are under operation as per SRLDC instructions, since February 2026.

The matter was deliberated in detail in the 237th OCC and the following was concluded:

- ❖ A dead band of 395–410 kV shall be maintained for reactor switching for 400 kV system voltage control.
- ❖ KGS shall undertake controlled and staggered switching of 2×125 MVAR bus reactors in coordination with / as per advice of SRLDC, along with OEM approved reactive power support (details to be furnished by next OCC).
- ❖ KGS shall maintain and submit periodic records of:
 - a) Reactor switching with time-stamps
 - b) Pre- and post-switching voltage at 400 kV & 220 kV levels
 - c) Reactive power flow (direction & magnitude).
- ❖ The data shall be reviewed by SRLDC, and compliance along with its impact on voltage profile shall be examined in subsequent OCC meetings.
- ❖ In 238th OCC, it was noted that **there was no participation from KGS during the deliberations.**
 - *KGS to furnish details of reactive power support (as per OEM) & periodic records as suggested.*
 - *SRLDC shall review and present the study.*

18. Reduction of HVDC Talcher-Kolar power flow

Background:

Following tripping of Talcher Unit-4 on 21.12.2025, HVDC Talcher–Kolar power flow reduced from 2000 MW to 1400 MW and continued at this level till 23.12.2025 despite unit restoration. Clarification on power limitation logic and delay in restoration of power order was sought.

The agenda item was deliberated in 57 SRPC-54 TCC and subsequently in OCC Meetings (till 238th):

Issue 1: Logic of Power Limit on HVDC system at Talcher end

The logic shared by PGCIL SR-II was presented. The key points are as follows:

- The bi-pole power transfer capability at HVDC Talcher is subject to operational constraints based on the number of generating units (500 MW each) and the number of AC transmission lines connected to the NTPC Talcher AC busbar.

- At present, there are six (06) generators and six (06) 400 kV transmission lines connected in the NTPC switchyard.
- Depending upon the availability of connected generators and 400 kV lines at NTPC, a four-digit bit code is generated and is used by the HVDC control system for Power Limitation Function to restrict the DC power transfer.
- Based on the logic diagram and available OEM document, it is understood that all six AC lines combinedly are treated as one generator unit (At least two AC line should be available for considering as one generator unit).
- The permissible bi-pole power transfer under different configurations is summarized below:

DC Power Limit in MW	Number of Generators + (logic of at least two AC lines taken as plus one)
Controlled shutdown or ESOF	0
500MW	1
1000MW	2
1500MW	3
No Limit	4/5/6

The following were noted:

- 1) **SR-II, PGCIL** had informed that on 21.12.2025, HVDC was operating at 2000 MW with 3 generators + AC line logic (treated as 4 units). Post tripping of Talcher Unit-4, configuration reduced to 2 generators (treated as 3 units), with expected limit of 1500 MW; however, due to filter/reactive constraints, power transfer was restricted to ~1400 MW.
- 2) **SRPC** had requested review of the logic. **SRLDC** stated the same would be examined. **PGCIL** highlighted that the logic is part of a legacy (~25-year-old) system with no OEM support. Hence, modification is not feasible presently except limited hardware-side adjustments, while major changes may be taken up during upgradation.
- 3) Further, in 238th OCC, it was concluded that SR II, PGCIL yet to confirm, with OEM, the possibility of modifying the existing MW threshold values in the present logic and feasibility of modification of power limitation logic in the system after the planned refurbishment.

Revised SPS logic of Talcher-Kolar proposed by ERPC

In 238th OCC, it was agreed that operationally will try to control the loading condition and, after completion of reconductoring of Talcher-Meeramundali line, the requirement of review of logic may be taken up, if necessary.

Issue 3: Status of Spares of Talcher-Kolar HVDC system (Total 4 spares):

Spares at Tacher end	Spares at Kolar end
Repaired Converter Transformer is under transportation and currently at Raipur. Expected to reach Talcher by June 2026. It was dispatched from Kalva, Mumbai	One healthy transformer is available at Kolar end
Another faulty Converter Transformer was transported from Talcher site on 17.01.2026 and is being sent to TARIL, Ahmedabad (not Mumbai)	
Third Faulty Converter Transformer is under tendering stage. The open tender would be awarded to the successful bidder based on the outcome.	

➤ ***SRLDC/SR II, PGCIL may respond***

19. NTPC KUDGI Agenda item – RSD Procedure

Background:

- ❖ In line with CERC Order in Petition No. 9/SM/2024, issues related to units remaining on-bar under USD with limited beneficiary support have been observed. A similar situation was addressed earlier through Reserve Shutdown (RSD) Procedure (2020–21) in the Southern Region.
- ❖ Based on discussions in 232nd–234th OCC, it was agreed to examine operational and commercial implications and take up the matter further. SRPC, vide letter dated 30.01.2026, circulated a Draft RSD Procedure, and stakeholders were requested to furnish comments.

Present Status:

- ❖ Subsequently, a meeting was held on 28.04.2026 through virtual conference with the stakeholders, wherein some constituents sought additional time to furnish their detailed comments. The record notes of the meeting will be shared after receipt of the inputs. It was observed that, while a few entities have already furnished their views, the remaining constituents are yet to communicate their approval/disapproval along with comments, if any, at the earliest for further processing.
 - *Constituents may furnish the views/comments at the earliest.*

20. Pending Items from Previous OCCs

S. No	Items to be discussed	Status/Remarks
1	<p>Frequent switching of Bus Reactors at Munirabad and Raichur sub-station on voltage regulations.</p> <p>For Discussion: JSWEL may update the following:</p> <ul style="list-style-type: none"> a) Budgetary approval was received. Any further update from OEM for carrying out the repairs, with regard to SVC. b) Inspection of UAT tap settings of the remaining 2 units, will be done along with boiler modification works (SBU-II- Planned outage scheduled in June 2026). c) The commissioning of master PPC. 	<i>KPTCL/ JSWEL</i>
2	<p>Non-Operation of SPS at Jindal TPS during Event on 19-06-2025</p> <p>For Discussion:</p> <ul style="list-style-type: none"> a) JSWEL may update the execution of OPGW works and commissioning of differential protection on Bellary lines. b) KPCL/KAR SRLDC may update the status of SPS implementation. c) YTPS/KPCL to update on the feasibility of handling sudden load throw-off in consultation with OEM. 	<i>SRLDC/KAR SLDC/KPCL/ JSWEL</i>
3	<p>Shifting of MEL–NPS Line from Phase-1 to Phase-2 and SEM Meter Shifting</p> <ul style="list-style-type: none"> • MEL to furnish the necessary correspondence/documents/ updated settings status to SRLDC at the earliest. 	<i>MEL/SRLDC</i>

4	<p>Low Voltages in Karnataka during Morning Peak Period For Discussion</p> <p><i>The status/action may be taken for the following:</i></p> <ul style="list-style-type: none"> a) Capacitor bank installation & STATCOM implementation (Action plan along with capacity) 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. c) Measures taken to enhance VAR support from conventional generators. d) Based on the discussions with the OEM, Status of YCCPP operation in synchronous condenser mode, may be shared. e) Steps taken to ensure reactive compensation planning at connec- 	<p>SRLDC/KAR SLDC/KPCL.</p>
5	<p>Pending Issues w.r.t Tamil Nadu system Control Area</p> <p>A. Outage of Kadamparai Units</p> <ul style="list-style-type: none"> • Both Unit 1 & Unit 3 are expected to be made operational in both pumping and generation mode within one year i.e., January 2027. • TN SLDC may furnish the details of work. 	<p>TNSLDC/ Kadamparai</p>
	<p>B. Low voltage profile in 220/400 kV switchyard at NNTPS For Discussion:</p> <ul style="list-style-type: none"> • The tender pertaining to the installation of 528 MVar capacitor banks had been opened – TN SLDC may update the Tender award details, installation of the capacitor bank & expected CoD. • Nagai Power Plant is presently injecting around 90 MW, with reactive power support in the range of 30–40 MVar – TNSLDC may update the efforts to get complete reactive power support from Nagai Power Plant 	<p>TNSLDC/SRLDC</p>

C	<p>High loading of 400kV Kanarpatty- S/C</p> <p>For Discussion:</p> <p>a) Temporary Solution:</p> <ul style="list-style-type: none"> TNSLDC may update the status of tender process & resolution of RoW issues including expected commissioning date (tentatively). <p>b) SPS Implementation</p> <ul style="list-style-type: none"> SRLDC/TN SLDC may furnish an update on SPS implementation. <p>c) Permanent Solution</p> <ul style="list-style-type: none"> SR II, PGCIL may update the approval for equipment drawing from corporate office & plan of action for commissioning by December 2026. <p>Additionally, TN SLDC may update on:</p> <ul style="list-style-type: none"> RE Monitoring & 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. Obtain compliance reports from RE generators on LVRT/HVRT/MVar support as per CEA connectivity Reg. Furnish a detailed incident report for the trippings on 23rd Aug 2024 and 24th Sep 2025 to SRPC 	<p>TANTRANSCO/TNSLDC/PGCIL/SRLDC</p>
D	<p>Implementation of 3rd ICT (315MVA) at 400/230kV Neyveli TS 2:</p> <ul style="list-style-type: none"> NLCIL TS II may update the status of works for both temporary/Shifting ICT & Permanent/New ICT – Plan of action to meet the temporary ICT installation in 2 months i.e., July 2026. 	<p>TPS II/TANTRANSCO</p>
E	<p>Expediting the Shifting of 220 KV Bay for Installation of 220/11 KV FGD Transformer by TANTRANSCO.</p> <p>For Discussion:</p> <ul style="list-style-type: none"> NTPL may update the status of commissioning of FGD transformer & approval for the permanent arrangement. 	<p>NTPL/TANTRANSCO</p>
F	<p>Sparing of one number of 315 MVA, 400/ 230 KV ICT at Kayathar 400KV</p> <p>For Discussion:</p> <p>a) TANTRANSCO would jointly visit the site along with PGCIL for testing of the equipment. Upon confirmation of the healthiness of the ICT, a separate Purchase Order (PO) would be placed for transportation of the ICT, and an MoU would be executed with SR-I, PGCIL prior to transportation.</p> <p>b) TANTRANSCO shall expedite procurement of new ICT as a long-term solution and furnish updated action plan to SRPC/SRLDC</p>	<p>TNSLDC/PGCIL</p>

6	<p>Power Shortage scenario of Puducherry</p> <p>PED to update the following:</p> <ul style="list-style-type: none"> • Status of tendering process for 35 MW BESS & the separate proposal to be put up to Govt for approval of the remaining 15MW BESS. • Additional connectivity to Yanam has been sought from Gollapalem Substation & the revised estimation is awaited from CGM(Commercial), APTRANSCO. 	<p><i>APSLDC/ PED</i></p>
7	<p>Reliable Power Supply to Puducherry & associated system Strengthening</p> <p>For Discussion:</p> <ul style="list-style-type: none"> ➤ PED had furnished the details, to CTUIL, of space availability for augmentation at 230/110kV Auto SS (Villianur, Bahour, Thondamanatham & Karaikal). PED had already issued a work order for augmentation of Transformer at Thondamanatham SS – Status may be updated. ➤ SR II, PGCIL to update the latest status on the detail survey, to be furnished by the month of May 2026 to CTUIL. 	<p><i>SR II PGCIL/ PED</i></p>
8	<p>Submission of Static IPv4 Address - SRLDC Outage Portal Access</p> <ul style="list-style-type: none"> • SRLDC Outage Portal (https://dailyreport.srldc.in/REPORTINGUIUAT/) is being secured through implementation of IP whitelisting. Post implementation, access will be permitted only from whitelisted Static IPv4 addresses to enhance cybersecurity. • All users/entities are requested to submit their Static IPv4 address details at the earliest to srldcoutage@grid-india.in, along with an authorization letter for the respective IP address. • Early submission is requested to ensure uninterrupted portal access and compliance with cybersecurity requirements & for checking the current IPv4 address, users may visit: www.whatismyipaddress.com <p>For Discussion:</p> <ol style="list-style-type: none"> a) SRLDC to indicate a tentative timeline for implementation of IP whitelisting for the outage portal b) All utilities to submit their Static IPv4 address details along with proper authorization to SRLDC at the earliest, if not already submitted, to facilitate timely implementation of IP whitelisting and ensure uninterrupted access to the outage portal 	<p><i>SRLDC/Entities who has not furnished the IP addresses</i></p>
9	<p>Operational Constraints at Bhadrawati Back-to-Back HVDC Link</p> <p>Background: 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> <p>Current Status (238th OCC):</p> <ul style="list-style-type: none"> • It was noted that the harmonics could not be measured accurately 	<p><i>SR I, PGCIL to furnish the harmonic measurement & SRLDC to share the analysis.</i></p>

	<p>when both main and tie breakers are in service. Therefore, it was suggested that harmonics be measured with only the main breaker in service. However, whenever the tie breaker is taken out of service, there is a possibility of pole block due to the feedback provided to the pole. Observations in this regard have been communicated to POWERGRID CC for obtaining consent.</p> <ul style="list-style-type: none"> • Upon receipt of consent from POWERGRID CC, an outage for the tie breaker will be applied for in the OCC, and harmonics will be measured through the main breaker. The harmonics measurement is planned during May 2026. • POWERGRID may clarify whether the feedback could be bypassed temporarily. 	
10	<p>Need for timely updating of State SCADA Networks and Sharing of FTC Procedures/ Discrepancies State SCADA modelling.</p> <ul style="list-style-type: none"> • It has been observed that several newly commissioned 220/230 kV substations and lines (≈ 43), though updated in PSSE models, are not reflected in State SCADA systems, leading to incomplete visibility at Southern Regional Load Despatch Centre. • This gap poses serious concerns for real-time operation, contingency handling, and system restoration. • From 232nd-238th OCC, all SLDCs were advised to expedite submission of SCADA modelling data and ensure timely updates. 	<p><i>SRLDC may present & SLDCs/NLCI L may update the status.</i></p>

21. Outage Planning of Transmission Lines and Elements

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

- (i) The outages proposed for the month of **July 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 **09.06.2026 through VC**.

Outage statistics for May 2026: SRLDC furnished the details via e-mail dated 01.06.2026, which are in **(Annexure-21.1a)** The analysis will be carried out during the Outage Coordination Meeting on 08.06.2026.

- (ii) The list of outages of Transmission Lines and Elements, proposed for **July 2026**, will be mailed to OCC Google Group after closing the outage submission window on **03.06.2026 (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 09.06.2026.**

21.2 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 05th 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 238th OCC, PGCIL further informed that approval of the Competent Committee recommendations is awaited and is expected within the next 7-10 days. Upon receipt of the approval, the tower replacement works would be scheduled accordingly
- ❖ It was concluded that SR I, PGCIL to expedite higher management approval and finalize the tower replacement plan in coordination with SEIL/AP entities by optimizing the shutdown along with SEIL-P1 and Krishnapatnam unit outages to minimize operational constraints and generation loss.

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

21.3 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.

- ❖ In 238th OCC, SR-I, PGCIL informed that a meeting has been scheduled on 11.05.2026 with NHAI authorities and further stated that letter would be issued to NHAI that all concerned concessionaires to be coordinated and furnish the shutdown schedules such that 400kV N'Sagar-Kadapa D/C shutdown activities may be availed in a single spell instead of multiple shutdowns by different concessionaires.

SR I, PGCIL may update

21.4 Diversion of 400 kV Thiruvallam - Nellore D/C, 400KV Kolar-Thiruvallam 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:

- 400 kV Thiruvallam–Nellore D/C
- 400 kV Kolar–Thiruvallam S/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–Thiruvallam 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 236th 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.
- ❖ In 238th Outage co-ordination meeting, it was concluded that the proposed shutdown works may be facilitated only after completion/revival of Talcher–Kolar diversion works, tentatively after 05.07.2026. Accordingly, SR-II, PGCIL was advised to communicate the same to NHAI and request submission of a revised shutdown proposal/schedule beyond the peak demand period.
 - ***SR II PGCIL may update status of coordination with NHAI & receipt of revised proposal.***

22. 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 June 2026 to August 2026 is at ([Annexure-22a](#))

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

23. 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.
- The status is being reviewed in OCC and SRPC meetings.
- The update as per 57th – 54th TCC Meeting is as follows:

Sl. No.	Entity	ERS Required as per the Govt. norms	No. of ERS set (tower) available	No. of ERS set (tower) unavailable	Status of procurement of ERS set (tower) with location	Remarks																																																										
1	Andhra Pradesh	3	2 Nos. (220 kV) 1. Visakhapatnam (Kalpakka-7 Towers, Srikakulam-3 towers) 2. Nellore (Nellore-6 Towers, Kurnool-4 Towers)	1	3 additional ERS sets are required for Andhra Pradesh (APTRANSCO)	APTRANSCO initiated tendering process (in 57th SRPC meeting)																																																										
		2		2			2	Telangana	3	1 No. (400 kV) 1. Shapurnagar- 16 towers	3	4 additional ERS sets are required for Telangana (TGTRANSCO)	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 3 Nos., considering the comparatively lower seismic risk in the geographical area of Telangana. (in 57th SRPC meeting)	2	1	3	Karnataka	3	1 No. set (400 kV) 1. Bangalore (Peenya) 2. Hubballi	3	3 additional ERS sets are required for Karnataka (KPTCL)	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. Tenders would be invited for 3 additional systems within 15 days (in 57th SRPC meeting).	1		4	Kerala	1	Nil	2	Retendering process has started for 2 sets of ERS (at 220 kV level) (Each set comprising of 4 towers). One is proposed for northern region of Kerala and one for southern region of Kerala.	KSEBL informed that Board has given approval for new Make in India conditions. Started the re-tendering process (in 57th SRPC meeting).	1		5	Tamil Nadu	3	2 Nos. 1. Sriperambudur 2. Trichy	3	4 additional ERS sets are required for Tamil Nadu (TANTRANSCO). 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 initiate action shortly (in 57th SRPC meeting).	2	0	1	1	6	Puducherry	Mutual sharing agreement	Nil	0	Mutual sharing with another transmission licensee to be confirmed by PED.	PED informed that PGCIL had given consent to share for natural calamities only (in 57th SRPC meeting)	7	Powergrid SR 1, VTL, PSITSL	3	3 Nos. 1. Visakhapatnam (400 kV) 16 Towers 2. Vijayawada (400 kV) 12 Towers 3. Nellore (765 kV) 24 Towers		2 additional ERS sets are required for SR-I POWERGRID	POWERGRID stated that order is placed for 5 Nos. for SR. SR-1 – 2 Nos SR-2 – 3 Nos.	2	2	8	Powergrid SR 2, PNMTL	3	2 Nos. 1. Kozhikode (400 kV) 12 Towers, 2. Sriperambudur (400 kV) 16 Towers
2	Telangana	3	1 No. (400 kV) 1. Shapurnagar- 16 towers	3	4 additional ERS sets are required for Telangana (TGTRANSCO)	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 3 Nos., considering the comparatively lower seismic risk in the geographical area of Telangana. (in 57th SRPC meeting)																																																										
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3	Karnataka	3	1 No. set (400 kV) 1. Bangalore (Peenya) 2. Hubballi	3	3 additional ERS sets are required for Karnataka (KPTCL)	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. Tenders would be invited for 3 additional systems within 15 days (in 57th SRPC meeting).																																																										
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		1		2																																																												

9	Kudgi TL	1	Nil.	0	Atleast 1 ERS set is required for Kudgi TL in SR which is compatible upto 765 kV	Sterlite Invt and Kudgi TL have a binding agreement that allows Kudgi TL to deploy ERS in an emergency situation.
				1		
10	MTL, RSTCL, KNTL, Gadag TL (Indigrid)	1	Nil in SR.	1	Atleast 1 ERS set is required for Indigrid in SR which is compatible upto 765 kV.	
				0		
11	WKTL, Karur TL (Adani Energy Solutions Ltd.)	1	Nil in SR.	0	Atleast 1 ERS set is required for Adani Energy Solutions Ltd. in SR which is compatible upto 765 kV.	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.
				1		

24. Crisis Management Plan (CMP- December 2025) of Ministry of Power

- a) 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 234th 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.
- b) 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.

The latest status of CMP/DMP Alignment – State-wise/Central Sector is as follows (57th SRPC–54th TCC & 238th OCC)

State/Entity	SLDC / Control Center	TRANSCO	GENCO	DISCOMS
Andhra Pradesh	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.	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.	VTPS was completed & the draft is ready for all other plants, would submit to Higher Management for approval, within a month.	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.
<p>238th OCC:</p> <p>APSLDC stated that the status is same. They are also pursuing with TRANSCO and DISCOMs to update their documents as per 2025 guidelines.</p> <p>APGENCO stated that they are in process of updating the CMP/DMP documents as per 2025 guidelines.</p>				
Karnataka	BESCOM is preparing for all DISCOMs/SLDC/TRANSCO except for KPCL. All the CMP/DMP were furnished to Higher Management for approval	BESCOM is preparing for all DISCOMs/SLDC/TRANSCO except for KPCL. All the CMP/DMP were furnished to Higher Management for approval	KPCL – including Hydro, CMP/DMP was already submitted to Management for approval.	BESCOM is preparing g for all DISCOMs/SLDC/TRANSCO except for KPCL. All the CMP/DMP were furnished to Higher Management for approval
<p>238th OCC:</p> <p>SLDC KPTCL stated that the status of CMP/DMP documents shown in the table remain the same. BESCOM was requested to incorporate the new changes as per the 2025 guidelines in the document put up for management approval.</p> <p>KPCL stated that CMP/DMP documents as per 2024 guidelines were approved and ready. The modification wrt 2025 guidelines are being carried out.</p>				
Kerala	CMP & DMP compiled across all wings (Transco, Genco, Discom) and formulation of SDMG submitted to Govt. and Govt. Approval expected by June 2026			
<p>238th OCC:</p> <p>After the formation of the new government, the matter will be followed up</p>				
Tamil Nadu	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"> • NCTPS St-I: have updated documents wrt CMP/DMP 2024(letter dated 16.02.2026). • MTPS St-I :Have updated document wrt DMP 2024(letter dated 09.02.2026). • MTPS St-II : have updated document wrt DMP 2024(letter dated 31.01.2026). <p>GENCO: Received documents from all Generating Stations including Hydro and in the process of compiling stage as per latest CEA 2025 document and soon would be</p>	Documents are prepared. After internal deliberations, would put up to competent authority for approval

			submitted to management for approval. Further, NCTPS Stage II was furnished on 02.03.2026.	
	238th OCC: TNSLDC updated that the CMP/DMP documents are prepared and are under internal deliberation stage. Subsequently, after finalizing the document, it will be put up for management approval. Status remains the same			
Telanga	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	documents need to be updated as per the latest CEA 2025 & to be finalised after incorporating the same	TGGENCO vide letter dated 17.02.2026 communicated that they have updated their documents as per CMP 2024 and DMP 2024 documents.	documents need to be updated as per the latest CEA 2025 & to be finalised after incorporating the same
	238th OCC: TGS LDC stated that the CMP/DMP documents wrt SLDC remains same. TGTRANSCO and DISCOMs are yet to prepare CMP/DMP documents. TGGENCO CMP/DMP documents as per 2024 guidelines were ready. They have to update wrt 2025 guidelines			
PGCIL (SR-I/SR-II)	56th SRPC: CMP/DMP documents aligned with MoP guidelines.			
NTPC	238th OCC: NTPC Ramagundam, NTPC Telangana and NTPC Simhadri stated that they have completed preparation of CMP/DMP documents as per 2025 guidelines. NTPC SRHQ stated that updation of CMP/DMP documents as per 2025 guidelines for other NTPC stations and NTECL Vallur is completed.			
NPCIL	56th SRPC: CMP/DMP already in place.			
NLCIL	238th OCC: NLCIL stated that the CMP/DMP documents are under preparation..			
NTPL	57th SRPC: Under Preparation, would complete at the earliest.			

➤ *Entities may update the status*

25. 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 Dispatch 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-25a**.

d) Status of staffing updated in 238th OCC is given below:

SLD C	Norm	Sanctioned	Present	Status/ Latest Updates
AP	144	96	69 (Technical executives = 62, Non-executive (Accounts) =7) Rest will be recruited at the Assistant Engineer	APERC approval received. 57 th SRPC: APTRANSCO stated that they would recruit 300 personnel for various posts by April-2026 end and some personnel would be assigned to APSLDC. 238th OCC: 3 nos. of additional engineers are expected to join shortly. The status would be updated subsequently.
KAR	144	99	91 As per the latest guidelines, the 60 Nos staff from field (communication), will be excluded.	57 th SRPC: 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, Non executives = 19 (Total = 67)	<ul style="list-style-type: none"> Reorganization and restructuring plan are ongoing; separate arrangements will be made for including more workforce in LD. Inclusion in the revised proposal is planned. KSEBL stated that the 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). 57thSRPC: 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 March 2026 end.
TN	144	57	57	Approval has been received for an additional 49 posts As a first spell, in principle approval has been accorded from the Higher management for creation of 18 Nos. posts under executive category as

				<p>stipulated in the Workforce Adequacy Guidelines.</p> <ul style="list-style-type: none"> TNSLDC stated that management approval for the proposed 18 posts is awaited. <p>57th SRPC:</p> <p>TANTRANSCO had informed that in principle approval for 49 posts were taken and 18 posts were under administrative approval.</p>
TG	144	87	98 (Technical Executives = 71, Non-Technical Executive =27)	<p>33 additional have been approved. Recruitment ongoing.</p> <p>Technical Executives = 71, NonTechnical Executive (Supervisors and workmen)=27.</p> <p>Additional Technical Executives plan: June 26 end = 34, Dec 26 = 10, June 27 = 10.</p> <p>Non-Technical Executive strength is planned to be reduced to 20 by June 2027.</p> <p>57th SRPC:</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 June 2027. Balance 24 would be for the HR and finance wings, with a plan to be shifted from the existing posts in TGTRANSCO.</p>
PED	62		Technical executive = 9, Non-executive = 3	<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>238th OCC:</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

- a) 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.
- b) This was deliberated in the 54rd TCC and 57th SRPC and further followed up in OCC Meetings.
- c) 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 57th SRPC-54th 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 238th 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*

26 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.**
- Average Monthly/Cumulative FRP and FRC for all Control Areas may be presented by SRLDC

27 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
SR Peak Vigilance	All thermal power plants must be more vigilant to maintain lower partial outages and support the grid during SR peak.
Partial Outage Updates	Generating plants should clearly update the reasons for higher average partial outages, focusing on technical reasons over poor coal quality, which can be secondary.
Data Coordination	All entities should ensure proper coordination between generators (State LDCs, TPPs, IPPs, and ISGS) and SRLDC for accurate and consistent data updates.
Clarity in Formats	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 view of the peak demand is going on, all generators may take necessary steps to minimise partial outages.

28 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 5% more than Benson Point.					
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
APGENCO & STU connected IPPs	3520	1180	1130	1680
TGGENCO & STU connected IPPs	3080	600	1000	250
KPCL & STU connected IPPs	1500		3260	1520
TNPGCL & STU connected IPPs	2325		250	2520
NTPC & NTECL	4400		1000	2600
NLCIL & NTPL units	1000		920	1470
ISTS connected IPPs	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-28a**) 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 235th 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-28b**).**

GENCOs noted for compliance.

29 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.*

30 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** (**Annexure-30 a**), 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 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.
 - ***TN SLDC may respond***
 - ***States to operate the Grid as per the essence of the Petition/Order.***

31 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 Re-

stricted Governor Mode of Operation (RGMO) to Free Governor Mode of Operation (FGMO) as it is due since 1st 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-31a](#)*

32 Monthly Review of LGBR for the next 13 months (Availability & Requirement)

- (i) SRLDC has declared 06:00 to 07:00 Hrs, 19:00 to 20:00Hrs, and 21:00 to 23:00 Hrs as **Peak hours for June 2026**.
- (ii) SLDCs to furnish the detailed Availability & Requirement for the next 13 months period from **June to June** (13 months LGBR rolling plan for energy and demand (peak hours as well as solar hours) by **6th June 2026**. SLDCs may furnish the data for analysis.
 - *SLDCs to furnish the detailed Availability & Requirement for the next 13-month period from June 2026 to June 2027.*
 - *The plan for meeting the LGB (Month wise) may be submitted in writing.*

33 ACTIONABLE POINTS FOR COMPLIANCE AS PER IEGC 2023

33.1 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 31st 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 31st 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, which was highlighted in Agenda No.3
- ❖ **SRPC** had informed that the google sheet for furnishing status/updates by generators/PGCIL was removed. Any changes in schedule or updates may be intimated through e-mail at seoprnsrpc-ka@nic.in and srpc.operation@gmail.com
- **All the generators to note all the above for strict Compliance**

33.2 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 **May 2026**

- **SRLDC /SLDCs may update on the status of RA study.**
- **Review of past month operational studies**
- **This month operational studies**

34 Grid Operation during May 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.**

SRLDC to present the data/information for May 2026 on the above.

35 SRLDC Agenda Items

SRLDC vide mail dated 01.06.2026, had furnished the Agenda **(Annexure-35a)**

1. Persistent Overloading of Critical ISTS Corridors in Tamil Nadu under High RE Injection Scenario
2. Persistent Overloading of Critical ISTS substations in Karnataka under High RE Injection Scenario
3. Timely Submission of Monthly PSS/E cases by states
4. Periodic testing of Power System Elements
5. Prolonged outage of Bus reactors & Line reactors w.r.t following substations
6. Prolonged AC transmission elements outage
7. Operational issues faced in SR Grid:
 - i. ICT loading issues
 - ii. Low voltages in Southern Region
 - iii. Deviation in drawal by States
 - iv. Grid Frequency Dip Event on 13.05.2026 - Observations and Compliance Requirements
 - v. Tripping of 765KV-Ariyalur-NCPS line
 - vi. Review of Transmission Line Trippings during Thunderstorm/Adverse Weather Conditions and need for enhanced Situational Awareness of Stressed Corridors
8. Submission of Self Audit Compliance Report (as per IEGC, 2023)

36 Status of Augmentation capacity under implementation by PGCIL

The following ICTs are under implementation in SR by PGCIL:

S.No.	Substation	ICT Capacity	Latest Update (238 th OCC)
1	Kurnool-3 new S/S	9 x 500 MVA, 400/220 kV, ICT (1 to 9)	233 OCC: ICT 1-4,6-7: commissioned in March 2025 ICT 5: Charged in October 2025 ICT 8-9: FY 2026-27
4	Kurnool New S/s	1 x 1500 MVA, 765/400 kV ICT (3)	236 OCC: By March 2026
5	Koppal PS	1x500MVA, 400/220kV ICT (6th)	51 JCC: By October 2025
6	Gadag PS	1x500MVA, 400/220kV ICT (6th)	51 JCC: By October 2025
7	Tuticorin-II GIS PS	500 MVA, 400/230kV ICT (6th)	51 JCC: By June 2026
8	NP Kunta PS	1x500 MVA, 400/220kV ICT (5th)	236 OCC: By April 2026
9	Tumkur (Pavagada) 400/220kV PS	2x500MVA, 400/220kV ICTs (7th & 8th)	51 JCC: ICT 7: By March 2026 ICT 8: By June 2026
10	Karur PS	2x500 MVA, 400/230 kV ICT (3rd & 4th)	51 JCC: By February 2026
11	Onshore Pooling Sta- tion (GIS) near Avaraikulam, Tirunelveli District and Offshore (OSS-1) SS-1 (GIS)	2x500 MVA, 400/230 kV ICTs at Onshore Pooling Station 300 MVAr STATCOM along with 2x125MVAr MSR 2x315 MVA, 230/66kV ICTs at OffShore Substation- 1 (GIS)	51 JCC: By end of March 2030
12	Tumkur (Pavagada) PS	2x500 MVA, 400/220 kV ICTs (9th & 10th)	51 JCC: By May 2026
13	Yelahanka (GIS) S/S	1x500MVA, 400/220kV ICT (3rd)	51 JCC: By December 2026
14	Bidadi (GIS) S/S	1x500 MVA, 400/220kV ICT (3rd)	51 JCC: By December 2026
15	Tuticorin-II GIS S/S	1x500 MVA, 400/230kV ICT (7th)	51 JCC: By March 2027
16	Nagarjunasagar S/S	1x500 MVA, 400/230kV ICT (4th)	51 JCC: By May 2027
17	Kozhikode S/S	1x500 MVA, 400/220kV ICT (4th)	51 JCC: By Feb 2027
18	Trivandrum S/S	1x500 MVA, 400/220kV ICT (4th)	51 JCC: By Feb 2027

19	Udumalpet S/S	1x500 MVA, 400/220kV ICT (2nd or new)	51 JCC: By Feb 2027
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37 The following ICTs are under implementation in SR under TBCB route:

S.No.	Substation	TBCB	ICT Capacity	Latest update (238 th OCC)
1	Kasargode GIS S/S	Udupi Kasargode TL (Sterlite)	2x500MVA, 400/220 kV ICTs	51 JCC: COD is dependent on completion of Udupi-Kasargode line held up due to RoW issues
2	Narendra (New) (GIS)	WRSR Power TL (Adani)	4x1500 MVA, 765/400 kV ICTs	51 JCC: By March 2026
3	New pooling station at suitable border location between Ananthpuram & Kurnool distt	Ananthpuram Kurnool TL (PGCIL)	7x500MVA, 400/220 kV ICTs	233 OCC: Progressively from January 2026
4	Koppal-II (Phase- A) Pooling Station	Koppal II Gadag II TL (PGCIL)	4x1500 MVA, 765/400 kV ICTs (1-4) 4x500 MVA, 400/220 kV ICTs (1-4)	51 JCC: By March 2026
	Gadag-II (Phase -A) Pooling Station		2x500 MVA, 400/220 kV ICTs (1-2)	
5	Bidar SS	Bidar TL (PGCIL)	3x1500 MVA, 765/400 kV ICTs (1-3) 5x500 MVA, 400/220 kV ICTs (1-5)	233 OCC: Progressively from March 2026
6	Tumkur-II PS	Tumkur-II REZ Power TL (GR Infra)	4x500 MVA, 400/220 kV ICTs	51 JCC: By September 2026
7	Bijapur PS	Bijapur REZ TL (GR infra)	5x500 MVA, 400/220 kV ICTs	51 JCC: By January 2027
8	Koppal-II PS	Gadag II and Koppal II TL (PGCIL)	3x1500 MVA, 765/400 kV ICTs (5-7) 5x500 MVA, 400/220 kV ICTs (5-9)	51 JCC: By August 2026
	Gadag-II PS		7x500 MVA, 400/220 kV ICTs (3-9)	
9	Bidar PS	Bidar TL (PGCIL)	1x1500 MVA, 765/400 kV ICT (4) 3x500 MVA, 400/220 kV ICTs (6-8)	51 JCC: 765/400 kV ICTs by Feb 2027 400/220 kV ICTs by Feb 2027

10	Davanagere /Chitradurga	Chitradurga Bellary REZ TL (PGCIL)	4x1500 MVA, 765/400 kV ICTs (1-4) 4x500 MVA, 400/220 kV ICTs (1-4)	51 JCC: By March 2027
	Bellary PS		4x500 MVA, 400/220 kV ICTs (1-4)	
11	Kurnool-IV PS	Kurnool-IV TL (PGCIL)	4x1500 MVA, 765/400 kV ICTs (1-4) 4x500 MVA, 400/220 kV ICTs (1-4)	51 JCC: By March 2027
	C’Peta SS		1x1500 MVA, 765/400 kV ICTs (3)	
12	Kurnool-III PS	Kurnool-III PS RE TL (PGCIL)	3x1500MVA, 765/400 kV ICTs 1x1500 MVA, 765/400 kV ICTs (7 th)	51 JCC: March 2027
13	Anathapuram-II PS	Anathapur II REZ TL (Resonia)	4x1500 MVA, 765/400 kV ICTs (1-4) 6x500 MVA, 400/220 kV ICTs (1-6)	51 JCC: March 2027

38 Assessment of online Dynamic Line Rating-Pilot Scheme

- a) The Dynamic Line Rating (DLR) pilot project on the 400 kV Tuticorin PS–Madurai D/C line, approved by SRPC (TP) in its 3rd meeting and endorsed by SRPC with PGCIL as the Nodal Agency, was commissioned on 11.01.2025 under PGCIL’s R&D fund without any cost implication to SR constituents. Trial operation and monitoring were completed; however, sag measurement on 400 kV Madurai–Tuticorin PS Line-1 could not be carried out due to inadequate loading, and an alternate line is being identified in coordination with SRLDC.
- b) In the 53rd TCC/56th SRPC meeting, PGCIL was requested to examine the suggested lines in consultation with SRLDC and submit a proposal, including the cost implications for shifting the DLR installation.
- c) In the 234th OCC meeting, SRLDC had stated that, as confirmed by PGCIL, the sensors placed on Quad-Moose conductors can also be utilized on Twin-Moose conductors. SRLDC further had informed that, since most of the high- loading lines have been approved for upgradation, the deployment of sensors on Twin-Moose conductor lines is being explored in consultation with PGCIL
- d) In the recent 57 SRPC-54 TCC held on 16-17th March 2026, SRLDC had shared the list of highly loaded 400kV Transmission lines (ISTS) in SR for placement of DLR & PGCIL was suggested to study the high loading of the above lines for assessment of Online DLR
- e) In 238th OCC, SRLDC had informed that it had concurred with the proposal received from PGCIL CC through NLDC for shifting the Dynamic Line Rating (DLR) system to the Pavagada–Gooty line, where loading of about 1000–1200 MW could be ensured during testing by opening a parallel line, thereby facilitating assessment of RE evacuation benefits. The forum noted that the cost and timeline for shifting the DLR would depend on detailed studies, and SR-II was requested to discuss the proposal with the OEM and furnish the implementation timeline and cost estimate to the forum.

- *SR-II to coordinate with the OEM and submit the cost estimate and implementation timeline for shifting the DLR system to the Pavagada–Gooty line.*
- *SRLDC/PGCIL may update the status*

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

Sl No	Name of project	Capacity in MW	Status (238 th OCC)
1	TANGEDCO-North Chennai Stage III	1 x 800	235th OCC: COD declared on 24.01.2026. SRPC requested TNPGL/SLDC to formally communicate the commissioning details as well as trial run particulars.
2	TANGEDCO-Udangudi Stage I	2 x 660	57th SRPC: 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. Unit 1: COD is expected by June 2026. Unit 2: COD is expected by September 2026
3	TANGEDCO-Ennore SEZ STPP (North Chennai Stg IV)	2 x 660	57th SRPC: Schedule changed to Unit 1: February 2027 Unit 2: March 2027
4	TANGEDCO-Ennore TPS Exp.	1 x 660	57th SRPC: TNPGL informed that it is a TBCB mode project. TNERC Order was received on 20.11.2025 and the bids have been floated. The bid opening is on 20.05.2026.
5	Uppur TPS	2x800	54th TCC Board approved relocation of high-value material from Uppur TPS to Udangudi Stage1. It is under process. Regarding continuation of Uppur TPS: Policy decision has to be taken
6	TSGENCO-Damaracherla (Yadadri)	5 x 800	238th OCC Unit-1: COD declared on 12.07.2025. Unit 2: COD declared on 25.01.2025. Unit-4: COD declared on 08.01.2026 Unit-3: First time synchronized on 10.12.2026. COD declared on 13.05.2026 Unit-5: COD expected in June 2026

40 Implementation of Bus and Line Reactors by the Utilities

1. APTRANSCO:

Sl. No	Substation (400kV)	Type/Capacity	Approved in	Status (238 th OCC)
1	Gudiwada	125		Expected completion by June-2026.

				Works are under progress for SS and the Reactor.
2	Atchutapuram	1x125+2x80		Expected completion by December-2026. Works are under progress for SS and the Reactor.
3	Kakinada SEZ	125		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 (238 th OCC)
1	VTPS Stage IV	Bus Reactor/ 1x125 MVar	39 th SC	238th OCC: Material reached site. Civil works in progress. Expected by end of August, 2026
2	Polavaram HEP	Bus Reactor/ 2x125 MVar	42 nd 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 (238 th OCC)
1	Yeramarus	Bus Reactor/ 1x125 MVar	1 st SRSCT	57th SRPC KPCL had informed that the project cost is ~₹ 53 Cr (including bay & civil works) and indicated requirement of PSDF funding. KAR SLDC had emphasized the criticality of the reactor for voltage control and urged early implementation. SRPC had noted prolonged delay (~8 years) and advised pursuing approval through KERC for tariff-based recovery instead of PSDF. KPCL had stated that the proposal would be placed before higher management for necessary approvals.

4. TANTRANSCO:

Sl. No.	Substation	MVAR	Type	Approved in	Status (238 th OCC)
1	Coimbatore (765kV)	2 x 330	Line	42 nd 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.
2	Kayathar	1x125	Bus	42 nd SC	Space availability confirmed from the field for provision of these Bus reactors in the Substations. Administrative Approval yet to be obtained.
3	Kamuthi	1x125	Bus	42 nd SC	
4	Parali	125	Bus	42 nd SC	Awarded on 21.01.2021 and work held up due to Forest clearance.
5	Arni	2 x 125	Bus	42 nd SC	Administrative Approval for SS and Reactor to be obtained.
6	Edayarpalayam	2 x 125	Bus	38 th SC	223rd OCC: contract terminated and retendered. Commissioning expected by 2026-27. 227th OCC : The SS is under construction and reactor and reactor is expected to be commissioned along with SS
7	Ottiyambakka m	2x125	Bus	2 nd SRSCT	DPR to be evolved and Fund to be tied up.

5. TGTRANSCO:

Sl. No	Substation (400kV)	Bus Reactor MVAR	Approved in	Status (238 th 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 under progress. At present 125MVAR Reactors are supplied to respective 400kV substations. Expected date of commissioning: Vattem : 31.05.2026 Yedula : 31.05.2026 Narlapur : 31.05.2026
3	Yedula	1x125	1st SRPC (TP)	
4	Vettam	1x125	1st SRPC (TP)	

41 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 208th/209th Meetings of OCC, SRLDC has circulated standardized formats for presentation of data over a period of days (weekly/monthly/yearly).
- *All SLDCs to present the load forecast error (forecast Vs actual demand) (monthly, weekly and day ahead in the next OCC Meeting).*

42 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 5th 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 May 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.*

43 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.*

44 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) **All the Generators may take necessary action as per the MoM of 15th Meeting MVAR performance analysis/OCC meetings.**

45 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 May 2026 & Plan for June 2026, as well as the proposed schedule for the period June-August 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 233rd 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
- **SLDCs/Utilities may update.**

46 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-46a](#)**
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 233rd 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, Srisailam 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 14th/15th 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 15th PSS Meeting.
- Generators may carry out the retuning of PSS as per the schedule mentioned in Record Notes of the 15th 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, Yeramarus 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 06th April to 11th 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.

➤ *Generators may update the status.*

47 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 16-17th March 2026

State/Utility	Status (54 th TCC/238 th OCC)
Andhra Pradesh/ APTRANSCO	235 th OCC: PSDF requested to resend the proposal after some modifications suggested by them. It is under process and would

	<p>be resubmitted to NLDC.</p> <p>54th TCC: EOI has been called. 1-2 parties have shown interest. After evaluation, tender will be called</p>
Kerala/ KSEBL	<p>54th TCC: Software SAT is in progress and nearing completion. Expected by end of March 2026. It was informed that issues are being faced with API integration for WBES data, as the number of polling requests permitted is limited. Further, API data for SRPC is presently not available. SRPC secretariat clarified that the required data will be available only after implementation of UAS. It was stated that, despite the above constraints and limited resources, efforts are being made to complete the work by 31.03.2026.</p>
Telangana/ TSTRANSCO	<p>235th OCC: TG highlighted that it is divided into 4 modules.</p> <ol style="list-style-type: none"> Metering module: 679 out of 701 Energy Meters installation is completed IT module: Tenders floated during February 2024 were cancelled. Fresh Tenders were floated on 03.12.2025. Pre-bid meeting was completed and corrigendum was issued. AMR: Expected to be completed by end of December-2026. Hardware module: Expected to be completed by end of December-2026 <p>54th TCC: Installation of meters is almost complete. Retendering of IT module is currently in progress, and orders are expected to be placed by end of April 2026. Subsequently, the remaining two modules, namely AMR and hardware part, will be taken up.</p>

➤ *States may update*

48 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 th SRPC / 54 th TCC)
NTPC	Ramagundam STPS Stage-I (3x200MW)	<p>53rd TCC: Completion is expected by December 2025.</p> <p>54th TCC: Equipment had been reached site. NTPC is ready for implementation.</p> <p>Unit 3: By March 2026</p> <p>Unit 1 & 2: will be taken along with Approved Annual Overhaul.</p> <p>238th OCC: AGC implemented in Unit 2 & 3 on 18.04.2026</p> <p>Unit 1: will be implemented at the next opportunity</p>

All the Generators to furnish the AGC Status at present. Issues after implementation, if any also may be highlighted.

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 th SRPC / 54 rd TCC)
Andhra Pradesh	Krishnapatnam (2x800MW)	53 rd TCC: All units will be put under AGC by 2026-27(along with SCADA up gradation). 54 th TCC: Order would be placed shortly, for RTU once new SCADA is commissioned.
Karnataka	Sharavathy Generating Station (1035MW) (Available MW for AGC is 10 % of live load up to maximum of 100 MW (10% of 1035 MW))	Sharavathy: Recently tested. Varahi: Test is planned. 54 th TCC: Sharavathy GS & 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 & KPCL to move ahead.
	Varahi Under Ground Power House (4x115 MW) (Available MW for AGC is 20% of live load up to maximum of 80 MW as per the programme planned)	
Kerala	Kuttiady Unit No.5 (50 MW)	52 nd TCC Being in the Northern Kerala, dedicated resources cannot be allocated for AGC at the moment. 54 th TCC: No resources are available
	Idukki Unit No.1 (130 MW)	52 nd TCC OPGW works completed. Work has been awarded for the integration by OEM, M/s GE. 54 th TCC: Still pending for revised estimation by OEM
Tamil Nadu	1 North Chennai TPS Stage-II (2 x 600 MW)	52 nd TCC: RTU at Generating end to be provided. At SLDC, the work is completed. 53 rd TCC: The matter was discussed with the management and required funding had been agreed to be provided. Procurement of RTUs would be taken
	2 MTPS-II(1 x 600MW)	

		up. 54th TCC : Tenders were awarded for both stations
Telangana	TS GENCO Stations	<p>53rd TCC: 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.</p> <p>54th TCC: TGGENCO informed that AGC had been completed at KTPS-7 and that the process of obtaining quotations for the remaining 12 units was underway.</p>

49 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 (cetprm-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)** 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 3rd working day of the month) mailed to srpc.protectiondata@gmail.com & 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 7th of the month. However, it is noticed that the data is being sent by many stations/utilities till 15th 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 7th of the month to the email id: 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 5th of every month (irrespective of date of OCC Meeting) to enable SRPC to consolidate the same and furnish to CEA by 5th 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 (pant 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

50 Grid Highlights May 2026

- (i) **System Frequency:**
- (ii) **Pump Mode Operation:**
- (iii) **Generation Capacity Addition:**
- (iv) **Transmission elements commissioned:**
- (v) **Any other event/Document release:**
- (vi) **Any other issues /event/Document release**

51 Points for Information

A) Failure of 500MVA ICT-1 at POWERGRID, Somanahalli Station on 31.05.2026 at 20:07Hrs

SR II, PGCIL vide E-mail dated 01.06.2026 had gave a brief summary on the incident as below:

- On 31.05.2026 at 20:07 hrs, the 500 MVA, 400/220 kV ICT-1 at Somanahalli Substation (CGL Make, Sl. No. T10660/1) tripped on REF, Differential, and Body Protection. Subsequent inspection revealed heavy oil leakage from the main tank stiffeners on the HV and IV sides along with bulging of the transformer tank, indicating severe internal damage.
- As per KPTCL, the 220 kV Somanahalli–Harohalli line had initially tripped at 19:52 hrs due to an R-phase fault with a fault current of about 8 kA. During test charging of the line at 20:07 hrs, the line tripped instantaneously with a fault current of about 12 kA, which is suspected to have resulted in the tripping and failure of Somanahalli ICT-1. Investigation into the root cause of the transformer failure is under progress.

KPTCL/SR II/SRLDC may respond

B) Directions Regarding Continuous Monitoring and Testing of Islanding Schemes

- ✓ Chairperson, CEA directed NPC Secretariat, CEA to issue a letter to all RPCs/RLDCs/SLDCs regarding directions for continuous monitoring and testing of Islanding Schemes and for undertaking a review of the existing Islanding Schemes.
- ✓ In view of the above, NPC vide letter dated 25.05.2026 (**Annexure-51b**) communicated on the subject for information and necessary action.
- ✓ The following actions required to be done on priority
 - a) A comprehensive review of all the existing schemes and IBD to be monitored continuously while the participating entities and Load Sentinel, the model loses such as import, Defense & Critical loads within the islands are to be reviewed.
(Action: RPC / RLDC / SLDCs)
 - b) Testing and validation of Islanding Schemes. Periodic testing of the implemented islanding schemes must be carried out to ensure their readiness and functional health.
(Action: RPC / RLDC / SLDCs)

➤ *All SLDCs/SRLDC may note*

52 Date & Venue/Mode of the 240th Meeting of OCC/Outage coordination.

Meeting	Date	Time	Mode
240 th OCC Outage Coordination Meeting for Transmission Elements	Will be confirmed	10:00Hrs	Video Conference
240 th OCC Meeting		10:00Hrs	Video Conference