Inputs for 243rd OCC Meeting Agenda

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

Sl No	400 kV Element	Reason	Outage Date and Time	Update as per SLDC/242nd OCCM
1	HEBBANAHALLI - 400KV B/R 1	Forced outage due to CB issues. R phase bushing flashover	22-Nov-2024 20:39	KAR SLDC informed that the required material is yet to be received for installation of Hebbanahalli B/R. It is awaited to arrive from Germany.
2	SEIL_P2 - 400KV B/R 1	Oil Leak from the Radiator. Later isolator got damaged	24-Jun-2025 10:01	SEIL P2 informed that material is in transit and expected to reach site by 1st week of October 26. Restoration of the B/R is planned by October 26 end.
3	KV_KOTA - 400KV B/R 1	PRV Operated	21-Aug-2025 10:54	Quotation sanction is under process. Upon approval, the matter re-garding the deputation of a BHEL (OEM) engineer will be taken up.
4	TALGUPPA - 400KV B/R 2	Y-ph CB failed	07-Feb-2026 06:46	KAR SLDC informed that OEM had submitted a quotation earlier. Following subsequent negotiations, the quoted price was reduced, and the revised quotation has been forwarded to management for approval.

Table 1

2. Prolonged AC transmission elements outage:

Sl No	400 kV Element	Reason	Outage Date and Time	Update as per SLDC/242nd OCCM
1	400KV/230KV PULIYANTHOPE-ICT-2	Y Phase differential protection operated	02-Apr-2026 20:29	Rectification of the ICT is in the scope of supplier
2	400KV-ENNORE SEZ-NCTPS_STAGE_II-1	flange insulator failure between the 401 CTB to disconnector module 401-89B and 401 – 89BE	11-May-2026 14:07	Breaker issue to be rectified by OEM(BHEL).

Table 2

3. Operational issues faced in SR Grid:

a. ICT loading issues:

ICT N-1 loading violation observed at Bidadi, Gazuwaka, Guttur, Hoody, Jindal, Kalikiri, KV Kota, Mysore, Narendra, Nelamangala, Ramagundam, Somanahalli, Vijayawada, Vemagiri, Arasur, Neyveli TSII, NNTPP and Yelahanka substations during September 2026. Respective entity may please take action.

b. Low voltages in Southern Region:

Low voltage conditions were observed at 400 kV stations, particularly during the morning peak hours, at Doni, Guttur, Hoody, Jagalur, Munirabad, Mylasandra, Somanahalli, Hosur, Pondy and Vellalaviduthi.

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

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

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

c. Deviation in drawal by States:

Persistent deviations from the schedule by Tamil Nadu, Karnataka, Andhra Pradesh, Kerala and Telangana have been observed during September 2026. The matter has been consistently taken up through various communications and real-time messages. Physical regulation measures were also undertaken during the month on several occasions to control the deviations and maintain grid security. However, despite these measures, instances of significant deviations continued, particularly during non-solar hours, at times leading to critical grid operating conditions and adversely affecting frequency stability and overall grid security.

It is pertinent to mention, CERC, vide its 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 an Action Plan for ensuring grid security and controlling over-drawl/deviations.

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

30.(3) All users shall adhere to their schedule of injection or drawl, as the case may be, and take such action as required under these regulations and as directed by NLDC or respective RLDCs or respective SLDCs so that the grid frequency is maintained and remains within the allowable band.
45. (6) Each regional entity shall regulate its generation or demand or both, as the case may be, so as to adhere to the schedule of net injection into or net drawal from the inter-State transmission system.

Various Communications were issued in this regard during September 2026.

d. Resource Adequacy and Maintaining Grid Discipline During High-Demand Conditions

Due to El Niño conditions, deficient rainfall, and persistently high temperatures, Southern Region has been experiencing a high-demand scenario. From 01 September 2026 onwards, resource inadequacy has been observed in Southern Region states to meet the increased demand.

During the morning and evening peak periods, system frequency has also been observed to remain on the lower side, primarily due to sudden load ramp-up, compounded by low wind generation and reduced hydro inflows.
The States are requested to take necessary proactive measures to address resource inadequacy, support system ramping requirements, minimize deviations and maintain grid discipline during the prevailing high-demand conditions. In this regard,

- States to ensure diligent preparation of Load Generation Balance (LGB) considering expected demand, generation availability, outages and renewable generation.
- Ensure realistic scheduling commensurate with available resources and minimize deviations from schedule.
- Ensure real-time preparedness and coordination to maintain grid discipline and system security during high-demand conditions.

4. ADMS and AUFR Operations during the September 2026 month

ADMS Operations

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.

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.

It is observed that large number of ADMS instances occurred during the month September 2026. The breakup of State wise and Stage wise ADMS instances is shown below:

State	No. of Stg-I ADMS instances	No. of Stg-II ADMS instances	No. of Stg-III ADMS instances
Andhra Pradesh	23	7	3
Karnataka	16	4	1
Telangana	13	1	
Kerala	31	8	5
Tamil Nadu	20	7	4
Total	103	27	13

Table 3

All the States are requested to share the healthiness of ADMS schemes/system installed in their State and share the information regarding the relief observed against each instance. In addition to that, it is requested to share the SCADA Snaps just before and just after the operation of each ADMS instance.

AUFR/df/dt Operations

Multiple instances of UFR operation informed during September 2026. The list of informed AUFR/df/dt instances are as below:

Sl. No	UFR Operation Date and Time	Lowest Frequency as per PMU in Hz
1	29-09-2026 at 17:53 Hrs	49.41
2	29-09-2026 at 18:19 Hrs	49.41
3	29-09-2026 at 18:39 Hrs	49.41
4	21-09-2026 at 18:44 Hrs	49.41
5	21-09-2026 at 18:17 Hrs	49.41
6	19-09-2026 at 18:36 Hrs	49.42
7	16-09-2026 at 18:38 Hrs	49.42
8	16-09-2026 at 18:24 Hrs	49.42
9	15-09-2026 at 18:41 Hrs	49.41
10	15-09-2026 at 18:33 Hrs	49.41
11	11-09-2026 at 18:38 Hrs	49.42

Table 4

All the States are requested to share the healthiness of AUFR system installed in their State and share the information regarding the relief observed against each instance.

5. Status of REMC Project in SR SLDCs

The REMC project in the Southern Region was commissioned in 2020. The current status of project completion at the respective SLDCs is as follows:

Name of SLDC	AMC completion date	Remarks as on 74th COMSR
Tamil Nadu	31.01.2027	Forecasting tool in use. Extension of 2 years proposed. Discussion under progress with vendor.
Andhra Pradesh	13.01.2027	Forecasting tool in use. An extension of 1 year is proposed.
Karnataka	13.02.2027	Forecasting & Scheduling tool in use. Extension under discussion with management
Telangana	17.01.2031	Forecasting tool in use. Currently project is in maintenance phase

The concerned SLDCs are requested to provide an update on the action plan for the continued use of the REMC system for grid operations, RE scheduling, and forecasting requirements. Further, SLDCs are requested to confirm the data acquisition of telemetry from RE stations through the REMC system.

6. Continuation of WAMS Infrastructure at SLDC Control Centres beyond URTDSM Phase-I AMC

The URTDSM Phase-I AMC is scheduled to expire on 31st January 2027. During the 68th COMSR Meeting, SRTS-I informed that a provision for an additional two-year extension is available under the existing contract and that the matter would be taken up with the OEM. It was also informed that URTDSM Phase-II has been approved only for the RLDC/NLDC portion. The action plan for upgrading the Control Centre portion of the URTDSM infrastructure at the SLDCs is yet to be finalized. In view of the above, the respective SLDCs are required to take necessary measures to ensure the continued

operation, maintenance and availability of the WAMS infrastructure at their Control Centres beyond the expiry of URTDSM Phase-I AMC.

During the 73rd COMSR Meeting, KARSLDC, APSLDC and TNSLDC informed that the matter would be discussed internally with their respective managements and that an update would be provided to the forum. However, TGSLDC, KSEBL are yet to provide their response in this regard. All SLDCs are requested to update their action plan for Control Centre portion of the WAMS infrastructure.