Inputs for 244th 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/243rd 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 received. 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 regarding 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 been forwarded to management approval is received for the revised quotation. It will be procured and commissioned in 3 months period.

Table 1

2. Prolonged AC transmission elements outage:

Sl. No	400 kV Element	Reason	Outage Date and Time	Update as per SLDC/243rd 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 Narendra, Kudgi (NTPC), Somanhalli, Yelahanka, Hoody, Mysore, Bidadi, Guttur, Nelamangala, Hoody, Jindal, Mysore, KV Kota, Vijayawada, Vemagiri,

Ramagundam, Nirmal, Nagarjunasagr, Arasur, Neyveli TSII, NNTPP, Kozhikode substations during October 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, RTPS, Hosur, Pondy.

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. Persistent Over-Drawal by SR States during Low-Frequency Operation:

During the period from 01.09.2026 to 08.10.2026, the Southern Region grid experienced sustained low-frequency conditions, with frequency remaining below 49.90 Hz for 17.6% of the time and reaching a minimum of 49.413 Hz. Frequency dropped below 49.50 Hz on 37 occasions, predominantly during the evening peak hours (17:00–20:00 hrs), and Stage-I Under Frequency Relay (UFR) operated on 11 days. All States in the Southern Region continued to overdraw power during these low-frequency conditions, including when frequency was below 49.50 Hz, despite repeated resource adequacy advisories, real-time alerts, emergency messages, communications to the heads of SLDCs, and emergency regulatory measures issued by SRLDC. The relief achieved through ADMS was also largely inadequate. The matter has been deliberated regularly in the OCC forum. In view of the persistent over drawl and non-compliance, SRLDC filed a petition before the Hon'ble CERC on 16.10.2026 seeking enforcement of grid discipline, adherence to drawal schedules, effective operation of ADMS and emergency load relief schemes, and adequate resource tie-ups for peak hours.

In addition to above, persistent deviations from the schedule by Tamil Nadu, Karnataka, Andhra Pradesh have been observed during October 2026. The matter has been consistently taken up through various communications and real-time messages. Several physical regulation measures were also undertaken during the month to control the deviations and maintain grid security. However, despite these interventions, instances of significant deviations continued, particularly during lean/non-solar hours, at times leading to critical grid operating conditions and adversely affecting frequency stability and overall grid security.

It may be recalled that 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 issued in this regard in October 2026.

d. Deviation from schedule by Jindal Power Limited (Simhapuri) and Meenkshi Energy Limited

Persistent under-injection by Jindal Power Limited (Simhapuri) and Meenakshi in the range of 100–250 MW during morning and evening non-solar peak hours. Such deviations from schedule during non-solar peak demand periods may adversely affect grid operation and demand–generation balance.

Communications issued in this regard in October 2026.

4. 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 per latest OCC/COMSR
Tamil Nadu	31.01.2027	Forecasting tool in use. Extension of 2 years proposed, for extension quote is awaited from 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

Table 3

The concerned SLDCs were requested to provide an update on their action plans for the continued utilization of the required REMC infrastructure and associated applications beyond the AMC period. It is understood that most SLDCs are presently not dependent on the REMC SCADA system for acquisition of renewable energy telemetry, as such data is largely available through their respective SCADA/EMS systems. However, the Forecasting & Scheduling (F&S) functionalities of the REMC system continue to play a critical role in meeting operational and regulatory requirements and, therefore, require continuity beyond the AMC period.

Considering the criticality of these functionalities, the concerned SLDCs may suitably examine available options for ensuring the continued availability, sustenance, and modernization of the REMC Forecasting & Scheduling applications, either through extension of the existing arrangements or through suitable migration/upgradation measures, as considered appropriate.

5. 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. In 243rd OCC meeting, SRTS-I informed that discussions are underway with the OEM for a two-year extension of the AMC under the same terms and conditions as the original contract. The OEM's consent is awaited. 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.

Status of upgrading the Control Centre portion of the URTDSM infrastructure at the SLDCs are as follows:

Name of SLDC	**243rd OCC remarks**
APSLDC	The matter regarding WAMS infrastructure has been brought to the management's attention. However, no guidance or directions have been received from the management so far.
SLDC KPTCL	The issue is under discussion with the management.
TNSLDC	The issue was discussed by the P&C wing of TNSLDC with higher management. The update would be furnished in the upcoming PCSC meeting.
TGSLDC	The issue is under discussion with the management.
KSEBL	The issue is under discussion with the management.

Table 4

All SLDCs are requested to update their action plan for Control Centre portion of the WAMS infrastructure.