MAHATRANSCO
Maharashtra State Electricity Transmission Co. Ltd.

MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO.LTD.

CIN NO. U40109MH2005SGC153646
Maharashtra State Load Dispatch Center
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Office of The Chief Engineer
Maharashtra State Load Despatch Center
Thane-Belapur Road, P.O. Airoli
Navi Mumbai Pin – 400 708.

RIGHT TO INFORMATION

Ref. No. CE/MSLDC/ Op./ NO.957 **Date:** 14/5/2025

To,

As per mailing list

Sub: Agenda for the 9th Operation Co-ordination Committee (OCC) meeting.

Ref.: 1) 8th OCC MoM Circulated vide CE/MSLDC/TECH/Op/OCC/2405 Dated. 21.11.2024
2) 9th OCC Agenda request through E-mail dtd. 02.04.2025
Reminder sent on 06.05.2025

Dear Sir,

In reference to the above subject, the 8th Operation Co-ordination Committee (OCC) meeting was convened on 21st October 2024, Minutes of the same are circulated vide letter under reference 1.

Vide letter under reference no. 2, the undersigned, Member Convener of OCC had requested all the members of the OCC to submit agenda items for 9th OCC meeting.

Please find enclosed the agenda for the 9th OCC meeting scheduled on **16.05.2025 at 11 hrs.** at SLDC, Kalwa **through hybrid mode i.e., physical and video conferencing.**

It is requested to kindly make it convenient to attend the meeting with relevant information.

Encl: As above.

Yours sincerely,

Superintending Engineer (Op), MSLDC
(Member Convener of OCC)

Copy s.w.rs. to:
The Director (Operations), MSETCL, Prakashganga, Mumbai.
The Executive Director, MSLDC, Airoli, Navi Mumbai.

All OCC members as per list

Sr. No	Name of Organiza -tion	Name of Nominee	Designation	Committee constituent	Contact No.	E-mail ID
1	SLDC	Shri Shashank Jewalikar	ED, MSLDC	Chairperson	022-27301931	edmsebholding@gmail.com
2 a	MSETCL	VACANT	ED, Tr O&M MSETCL	Member		
2 b	MSETCL	Shri Mahendra Walke	CE, Tr O&M MSETCL	Invitee	9769213955	ceoandm@mahatransco.in
2 c	MSETCL	Shri Jayant Kulkarni	CE, ACI &P MSETCL	Invitee	7030964900	ceaci@mahatransco.in
3	SLDC	Shri Girish Pantoji	CE (I/c), MSLDC	Member	9822414154	cesldc@mahasldc.in
4	STU/ MSETCL	Shri. Peeyush Sharma	CE, STU	Member	9769213865	cestu@mahatransco.in
5	MSEDCL	Shri Pravin Annachatre	S.E (LM), MSEDCL	Member	9833980238	selmkalwa@gmail.com
6	MSPGCL	Shri. Anil Kathoye	CE, (Works) MSPGCL	Member	022-69522006985353 5 Ext. 3519	cegw@mahagenco.in
7	TPCL	Shri Kiran Desale	Head Trans. TPCL	Member	9223553342	desalekv@tatapower.com
		Shri Milind Gole	Head (PSCC), TPCL	Member	9820868264	pscc@tatapower.com
8	AEML	Shri Mahesh Andhari	Head O&M AEML Transmission	Member	9323549996	mahesh.andhari@adani.com
9	AEML	Shri Ranjeet Sawardekar	Assistant VP, AEML Distribution	Member	9324818009	ranjeet.sawardekar@adani.com
10	ATIL	Shri Abhishek Kukreja	Associate Manager-O&M	Member	6359956492	Abjishek.Kukreja@adani.com
11	MEGPTCL	Shri Rakesh Bhalerao	Associate Manager-Business Development	Member	7045953823	rakesh.bhalerao@adani.com
12	JPTL	Shri Vaibhav D Sansare	Associate Manager-Transmission	Member	9552577122	Vaibhav.sansare@jsw.in
13	APTCL	Shri Rajiv Nimje	AGM, APTCL	Member	9422308883	Rajiv.nimje@rattanindia.com
14	VIPL	Shri Pankaj Ranteke	Dy.GM	Member	8975122333	pnkjramteke@gmail.com
15	JSWEL	Shri Harshal Joshi	Manager (OSTS Dept, JSW)	Member	9552577131	harshal.joshi@jsw.in
16	ADTPS	Shri Vijay Dalli	VP-Operations ADTPS	Member	9325119741	Vijay.Dali@adani.com

17	RIPL	Shri Amit Panchalwar	DGM, RIPL	Member	9503229333	amit.panchalwar@rattanindia.com
18	APML, Tiroda	Shri Manoj Taunk	Associate VP-Protection & Metering	Member	9099005517	Manoj.Taunk@adani.com
		Shri Akshay Mathur		Member	9870663062	Akkshayv.Mathur@adani.com
19	SWPGL Wardha.	Shri Dinesh B Mewade	DGM, SWPGL	Member	7387007010	Dinesh.m@saiwardha.com
		Shri Prabhjit Singh Samra	GM (BDG – Operations), SWPGL	Member	9177025554	bdg.operations@saiwardha.com
20	M/S. Lalpur wind Energy	Mr. Mahesh Sakure		Member (Wind)	9730300469	mahesh.sakure@ilfsindia.com srimay.pattnaik@windworld.com
21	JBM Solar Energy Maharashtra Pvt. Ltd.	Mr Sandeep Mittal		Member (Solar)	8826664545	sandeep.mittal@jbmgroup.com
22	SLDC	Shri Girish Pantoji	SE(OP), MSLDC	Member-Convener	9822414154	seop@mahasldc.in

Agenda for 9th Operation Co-ordination Committee meeting scheduled on 16th May 2025 at 11 Hrs. through hybrid mode i.e. physical and video conferencing.

Agenda Points: -

1. Confirmation of the minutes of the 8th OCC held on 21.10.2024 through hybrid mode and circulated vide CE/MSLDC/TECH/Op/OCC/2405 Dated. 21.11.2024.

Action to be taken based on decisions of previous OCCM. SLDC circulated actions to be taken based on discussion of previous OCCM. The same has been attached as **Annexure1.1.**

Members may like to discuss.

2. Presentation on Maharashtra system Annual Grid performance for CY 2024.

3. MSLDC Agenda:

3.1 Procedure to consider 'Deemed availability of grid element under the act of God or under the force majeure during the calculation of Transmission Availability'

As per the clause 6 (i) of Annexure II of MERC MYT Regulations, 2019, which is reproduced below:

6. Outage time of transmission elements for the following contingencies shall be excluded from the total time of the element under period of consideration:

i. Outage of elements due to force majeure events beyond the control of the Transmission Licensee. However, onus of satisfying the MSLDC that element outage was due to aforesaid events and not due to design failure shall rest with the Transmission Licensee. A reasonable restoration time for the element shall be considered and any additional time taken by the Transmission Licensee for restoration of the element beyond the reasonable time shall be treated as outage time attributable to the Transmission Licensee. Circuits restored through ERS (Emergency Restoration System) shall be considered as available.

The objective of this procedure is to clarify the events to consider any tripping/outage of the grid element as deemed available under the act of God or under the force majeure while calculating Transmission system availability by Transmission Licensee / issuing the Transmission system availability certificate at MSLDC.

The procedure for the same is being formulated in accordance with the Regulation No. 28.2 (f) of the MEGC, 2020.

The draft procedure formulated by SLDC is shared for comments from all the stakeholders. Comments are received from stakeholders.

Members may like to discuss.

3.2 Procedure to recover 'Increment in Generation (VSE)' charges while availing outages proposed for Third party ORC work in Maharashtra Grid:

During major outages for ORC (Outright Contract) works in Mumbai/MMR & Pune area, due to any system constraints, the costlier Mumbai embedded generation, Nasik generation & Koyna hydro is required to be picked up as per requirement to maintain system 'N-1' compliant and to resolve the system constraints. This causes additional burden on the DSM pool. In this respect, MSLDC enquired with such stake holders whether such additional burden needs to be shared by the agency carrying out such ORC works. This scenario is similar to the charges levied by Indian Railways to transmission/distribution licensees for granting power/ traffic blocks.

The procedure for the same is formulated in accordance with the Regulation No. 28.2 (f) of the MEGC, 2020 and directives of GCC.

This procedure is finalized after taking comments from the stakeholders and is circulated vide T.O.L. no. MSLDC/Tech/Op/MEGC-2020/859 dtd 02.05.2025 and is also published on MSLDC website.

https://mahasldc.in/wp-content/uploads/2025/05/Final-VSE-Procedure-published-on-website.pdf

Members may like to discuss.

3.3 Discussion on Generator Planned outages in 590th WRPC OCC Meeting:

In the 590th WRPC OCC meeting_17.04.2025, discussion on Generator Planned Outages was done as below;

1. Generating unit shutdowns are finalized by WRPC and the annual outage plan is prepared. The outages are further reviewed and finalized during pre-OCCM by WRPC. However, it has been observed that generators frequently deviate from the approved outage schedule. Generators are not availing outages on the OCC approved outages schedule further; they also extend the timelines of the outages without taking consent from WRPC.

2. As informed by WRLDC that in the present practice, generators are not taking operational code from the WRLDC for the unit outage. Therefore, it is proposed that regional entity generating units shall take operational codes from WRLDC Control room for planned shutdown of units which are discussed and approved by OCC. The list of Generator approved outages is already being circulated as Annexure 3.1.

3. Similarly, SLDC codes shall also follow similar practice for the intrastate generating units. This will improve the monitoring of deviations from the planned schedule.

In line with the above deliberations, SLDC has to inform all intra-state generators of Maharashtra to obtain prior SLDC codes while availing Generator Planned Outage & also code for re-synchronization at the time of charging henceforth.

Members may like to discuss.

3.4 Resource Adequacy Regulations, 2024 and its timelines for submission of demand forecasts for FY 25-26 to SLDC.

3.4.(a) Submission of Category-wise Consumption Data and demand projections for FY 2026-27 as per Hon. MERC RA Regulations 2024 – Clause 6.3

As per Clause 6.3 of the Hon'ble MERC Resource Adequacy Regulations, 2024, distribution licensees are required to submit category-wise consumption data, including assessed consumption data for various consumer categories (such as agricultural, domestic, etc.), to MSLDC and/or STU for the purpose of state-level demand forecasting.
The due date for submission of data for the previous financial year (FY 2026–27) was 21st April 2025. However, data is received from MSEDCL, AEML, TATA-D & NULLP only till date.
Hence, all other distribution licensees are requested to submit the data at the earliest.
In this regard MSLDC has sent a reminder email on dated 02.05.2025 to the distribution licensees.

Members may like to discuss.

3.4. (b) Compliance with Hon. MERC RA regulation 2024, Clause 7.4 – Submission of Hourly ST & MT Demand Forecasts on Rolling Basis.

As per Clause 7.4 of the Hon'ble MERC Resource Adequacy Regulations, 2024, all the distribution licensees are requested to submit the following demand forecasts on a rolling basis:

- **Short-Term (ST) Demand Forecasts** – Hourly forecasts for a **1-year horizon**
- **Medium-Term (MT) Demand Forecasts** – Hourly forecasts for a **5-year horizon**

The due date for submission of the required data was 30th April 2025. However, as of now, partial data is received from: MSEDCL, TPC, BEST, GEPL, MBPPL, MADC and NULLP.
Among these, only AEML and ASL have submitted both the hourly demand projections for FY 2026-27 and category-wise consumption data for the previous year.

All other distribution licensees are requested to submit the pending data at the earliest.
In this regard, MSLDC has already sent a reminder email on 2nd May 2025 to all concerned distribution licensees.

Members may like to discuss.

3.5 Grid Disturbance in Maharashtra Grid on 12.03.2025 at 14:55 hrs.

There was a grid disturbance on 12.03.2025 at 14:55, where multiple transmission lines and generators tripping in **South Gujarat** led to excessive power flow from Maharashtra to Gujarat leading to voltage collapse in Maharashtra and resulting into loss of load to the tune of around 3900 MW in MMR, Pune and Nashik area.

Recommendations & Mitigating measures:

A. Short Term

3.6.1 System Strengthening:

1) Following Transmission Schemes proposed in MMR & Pune Area should be completed on top priority:

Sr. No.	Name of Scheme	Proposed Year
1	220 kV DC line from 765 kV Shikrapur PG to 220 kV Khed City - 18 kms	(2024-25)
2	220 kV DC line from 765 kV Shikrapur PG to 220 kV Ranjangaon S/s using existing corridor - 10 kms	(2024-25)
3	Reorientation of 220 kV Babhleshwar - Ranjagaon ckt & Lonikand - Ranjangaon Ckt at Khed City - 5 kms	(2024-25)
4	HTLS conductor of 400 kV Lonikand - Chakan (NEW)	(2025-26)
5	220kV TalegaonPG-Chakan DC with HTLS conductor - 6km	(2025-26)
6	HTLS conductor of 400 kV Talegaon (PG) - Chakan (NEW)	(2025-26)
7		
8	400kV LILO - Lonikand-I Jejuri at 765kV Shikrapur PG -30km approx.	(2026-27)
9	220kV Pune-III (ISTS-New) (PG) – Nandedcity 220kV D/C line.-60km (Western Region Network expansion scheme)	(2026-27)
10	LILO of both ckt of 220 kV Jejuri (M) – Phursungi (M) D/C line- 5km along with HTLS conductor at 765/400/220 kV Pune-III (ISTS-New) (PG) S/s with HTLS conductor (twin zebra equivalent) (Western Region Network expansion scheme)	(2026-27)
11	HTLS conductor of 400 kV Lonikand - Talegaon (PG) (NEW)	(2026-27)

2) To address low voltage issues in MMR, Pune & Nashik area:

   - Commissioning of 1425 MVAR, 170 MVAR & 160 MVAR compensation planned at Pune, Vashi and Nasik respectively.

3.6.2 Protection

1) Review of provisioning of UVLS schemes at identified 400 kV Sub-stations where UVLS is presently not provided is essential.
2) Review of 400 kV Babhaleshwar UVLS scheme so as to have necessary load curtailment instead of network opening.
3) Provisioning of LTS scheme on 220/132 kV ICTs at Nashik.
4) Verification of protection settings of Bus coupler at 220 kV Nashik OCR.
5) Review of LTS Scheme of all 400 kV ICTs ensuring availability of such scheme on each individual ICT.

3.6.3 Automation & Communication

1) MSLDC has participated in the ULDC scheme of Grid-India for SCADA system in Western Region. WRLDC need to expediate the activities under ULDC project so that actual work can be initiated & SCADA system can be commissioned at MSLDC on priority.
2) All LTS schemes installed at important Transmission elements viz. ICTs & 400 kV lines, should be integrated in MSLDC & ALDC SCADA System.
3) Separate Screen with alert facility for all LTS Schemes to be maintained in MSLDC & ALDC Control Room.
4) List of Sub-stations in MMR & Mumbai area for installation of PMUs has been issued by STU to TPCL & AEML. Hence, TPCL & AEML along with MSETCL need to expedite the work of installation of PMUs and its integration with MSLDC URTDSM System.

3.6.4 Procedural Review

1) List of critical and non-critical loads/feeders for all the Sub-stations in the State should be prepared. Load Trimming Protocol for entire State like the protocol prepared for MMR & Mumbai region should be prepared for faster response & avoiding mis-communication during implementation. The list should be updated on six-monthly basis.
2) The PCC should review all the LTS, SPS, UVLS settings routinely. Healthiness of all the LTS, SPS, UVLS schemes should be ensured by all the transmission licensees and report should be sent to MSLDC.
3) Trials of LTS, SPS, UVLS schemes should be taken by all the transmission licensees and report should be sent to MSLDC.

B. Long Term

3.6.5 Grid Strengthening:

1) Integrated Resource Planning for Mumbai, MMR & Pune cluster:
    - Around 15000 MW load is concentrated in Mumbai, MMR & Pune area.
    - This area has limited embedded generation, inadequate transmission network and Reactive Power compensation.
    - Hence, it is suggested that an integrated resource planning study for this area with increasing demand needs to be carried out by STU.
    - While carrying out such integrated resource planning study, ensuring availability of enough synchronous generating sources for maintaining grid inertia, reactive support and fulfilling necessary active power support in case of islanding operation, these aspects shall be taken care of.

2) **Planning of Adequate Reactive power compensation and timely implementation:**
    - Reactive Power Requirement Studies need to be carried out on yearly basis by STU.

- Dynamic compensation through STATCOM, SVC, etc in MMR & Pune region with high density of loads and changing nature of loads in future (with increasing no. of Data Centers, Metro in this area) need to be considered.
- With installation of around 25 GW Solar Generation under various schemes in the State, daily variations in the Thermal generation to the tune of around 4000 MW is expected. There might be need of two shift operation of thermal units. Thus, the reactive support from Thermal Generation will not be adequate. Hence, reactive power support from VRE sources needs to be ensured.
- STU & transmission licensees should ensure timely commissioning of the reactive compensation.

3) Upgradation of existing HVDC Capacity:

During the incidence, ± 500 kV, 1500 MW Chandrapur – Padghe HVDC played important role in providing additional power at 400 kV Padghe bus when high export started from Padghe to Tarapur & Boisar (PG) and limiting the loading on 400 kV Babhaleshwar – Padghe D/C lines.

Considering severely low voltages at multiple locations in MMR & Pune area, VSC based HVDC can provide reactive power support.

Hence, the option of upgrading the existing Chandrapur – Padghe HVDC to 3000 MW VSC based HVDC needs to be explored on top priority. It is learnt that the existing line capacity is adequate for 3000 MW capacity. Hence, upgradation of terminal stations only will be required. This aspect should be verified by STU on priority.

3.6.6 Protection, Communication & Automation:

1) Enhancing full visibility of Maharashtra Power system at MSLDC:

At present complete visibility of all the 765 kV & 400 kV Sub-stations is available at MSLDC & ALDC.

The visibility of transmission elements at 220 kV level & below 50 %.

Hence, execution of planned schemes for ensuring full visibility of Maharashtra Power System to MSLDC needs to be expediated.

2) **Expansion of Optical Fibre Communication backbone:**

The utility of PMU data was seen during handling of this incidence as well as for post-incidence analysis as detailed in this report. Hence, an expansion of Optical Fibre communication backbone ensuring availability of necessary communication infrastructure for placing of PMUs at all critical locations in the Maharashtra Transmission System is required.

3) **Use of State Estimator & ADMS for reliable Grid Operation**s:

- MSLDC has already participated in the ULDC Scheme of Grid India. In the proposed SCADA System, features of State Estimator, ADMS, etc are covered.
- Hence, Grid India should expedite the issuance of LoI for the shortlisted vendor so that SCADA System can be commissioned on priority.

4) Installation of PMUs under Wide-Area Measurement System (WAMS) for situational awareness:

- For situational awareness, MSLDC is using PMU data installed at 5 Nos. of 400 kV Sub-stations.
- In first phase, MSLDC has already requested STU for installation of PMUs at critical locations in MMR region and all 400 KV s/stns of MSETCL. STU has further directed TPCL, AEML & MSETCL to install the PMUs at the earliest. This work needs to be completed on priority.
- In the second phase, STU should direct all transmission utilities to install PMUs at strategic locations & RE Plants. MSLDC should simultaneously arrange to install PDCs for integration of PMUs having latest configurations and softwares required for data analytics and decision support.

5) Requirement of Integrated Data handling Platform:

- While carrying out post-incidence analysis, SLDC faced some challenges for handling large data sets generated at different monitoring systems. The real time analysis or any post incidence analysis in the modern power system will require handling of very large data sets. The complexity increases with multiple types of data emerging out of different systems like SCADA, PMU, Metering, Protection systems, Scheduling systems, etc.
- In this respect, MSLDC has already explored option for the use of Integrated Data handling platform having capability of integration with various softwares over different communication protocols. A Proof of Value (PoV) is successfully completed in the month of Feb-2025. Hence, there is a need to use such data handling platform at MSLDC as large sized data is daily generated. This will enhance the performance of MSLDC & the State Grid.
- SLDC needs to expedite the creation of integrated data handling platform.

3.6.7 Needed Regulatory Framework in the State for handling Grid disturbances:

- SLDC has identified following areas in which the supportive regulatory framework would be needed for handling of Grid disturbances.
  - Establishing mechanism for availability of Spinning Reserve in the Intra-State System.
  - Need of SCED & SCUC in the State.
    The High-Level Committee constituted by Hon'ble MERC for enquiry of the partial Grid disturbance in MMR & Mumbai area occurred on 12.10.2020 has recommended to carry out study for implementation of SCED & SCUC for scheduling embedded generation.

    Accordingly, MSLDC in collaboration with IIT, Bombay has undertaken studies using GAMS software to optimize internal resources & to consider security constraints prior to despatch of power in the State. MSLDC is the first SLDC carrying out such studies apart from NLDC.

    The preliminary study report has been submitted to Hon'ble MERC on 11.11.2024. further, a petition has been filed with Hon'ble MERC on 20.03.2025 for seeking approval for carrying out pilot operation of the same in the state. The petition has been admitted vide Case No. 51 of 2025.

3.6.8 Training & Awareness, Need for SLDC & Transmission Utilities:

- The Govt. of Maharashtra Committee constituted for enquiry of the partial Grid disturbance in MMR & Mumbai area occurred on 12.10.2020 has issued following recommendations:
  - *A task force should be set up to study emerging technologies and trends, and their impact on planning of the Mumbai network. The technologies/systems may include:*
    - *Electrical Vehicles/ Battery charging infrastructure and management*
    - *Grid Scale battery storage*
    - *Roof-top solar PV systems*
    - *Fault Current Limiters.*
  - *The staff of all utilities should keep abreast of the evolving trends, practices, and technologies. This requires the following. (**GoM Committee**)*
    - *Participation in national and international seminars, workshops and tutorials.*
    - *Presenting case studies and experiences.*
    - *Access to journals and periodicals of CIGRE, IEEE, standards etc.*
    - *Peer-to-peer interactions. Sharing of experiences, best practices with other utilities.*
    - *Visit to installations of new technologies in India and abroad.*
    - *Undergoing training in continuing education programs.*

  Hence, it is needed to review the existing training & awareness processes in line with above recommendations.
- MSLDC should consider creation of dedicated training cell.

Detailed analysis carried out by SLDC post the incidence and report submitted to MERC.

4. ADTPS Agenda:

1. ADTPS U-1 planned outage proposal for AOH in Aug-25

Annual Overhauling of ADTPS U-1 was planned in Dec-24 (12.12.2024 to 20.01.2024). However, the outage has got differed/postponed. We are planning to propose the AOH in the month of Aug-2025.

2. Ramp Rate certification methodology as per MYT regulation 2024

As per the MERC MYT Regulation 2024, with effect from 01-Apr-2025, in case of thermal generating units, the Return on Equity (RoE) is linked with ramp performance. MSLDC shall formulate the procedure for certification of Ramp Rate of thermal plants and submit for the approval of the Commission upon undertaking the due consultation of the stakeholders.

In view of this it is requested that the methodology / procedure for certification of Ramp Rate of thermal plants should be provided.

3. DSM Scheduling: Delayed Schedule Revision creation in DSM Scheduling portal

It has been observed that there are frequent instances of delays in revisions generation on the MSLDC DSM Portal. Revisions are getting generated just before the start of a block. On several occasions it is also observed that revisions are updated after the start of the Block and SG of Block in progress gets changed. These instances are more prominent during CMOD operation. Such delayed revisions are leading to deviations in DSM. Recent instances are enlisted below:

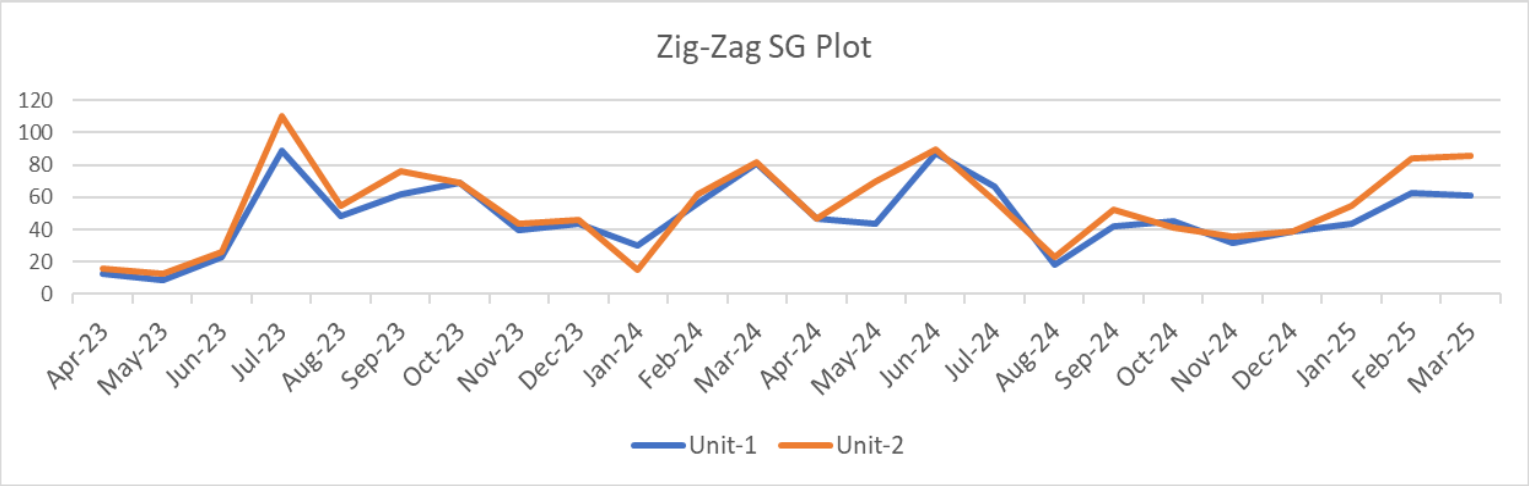
1. 17.02.2025, CMOD Rev. no.09 was generated at 00:01:37 Hrs. for block no.01.
2. 20.02.2025, CMOD Rev. no.107 was generated at 11:44:40 Hrs for block no.48.
3. 23.02.2025, CMOD Rev. no.142 was generated at 20:43:58 Hrs for block no.84.
4. 25.02.2025, CMOD Rev. no.11 was generated at 00:15:52 Hrs for block no.02.
5. 09.03.2025, CMOD Rev. no.13 was generated at 00:29:14 Hrs for block no.04.
6. 10.03.2025, CMOD Rev. no.62 was generated at 11:58:09 Hrs for block no.49.
7. 10.03.2025, CMOD Rev. no.67 was generated at 12:28:52 Hrs for block no.51
8. 11.03.2025, CMOD Rev. no.72 was generated at 12:30:30 Hrs for block no.51
9. 13.03.2025, CMOD Rev. no.55 was generated at 11:26:56 Hrs for block no. 47.
10. 13.03.2025, CMOD Rev. no.68 was generated at 12:57:57 Hrs for block no. 53.
11. 13.03.2025, CMOD Rev. no.71 was generated at 13:13:08 Hrs for block no. 54.
12. 02.04.2025, CMOD Rev. no.71 was generated at 11:45:27 Hrs for block no. 48
13. 03.04.2025, CMOD Rev. no.118 was generated at 20:14:35 Hrs for block no. 82

4. Zig-Zag SG to ADTPS Units

Frequent Events of Ramp up SG followed by ramp down SG and Vice-versa (Zig-Zag SG) are being experienced to both ADTPS units. In such cases it is difficult to manage deviations as it is calculated in energy terms. Also, this may impact machine performance as well. Kind submission to look into this to avoid / minimize Zig-Zag scheduling to ADTPS units.

Last two years data:

Month	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
Zig-Zag U-01	13	9	23	89	48	62	69	40	44	30	56	81	47	44	87	67	18	42	45	32	39	44	63	61
Zig-Zag U-02	16	13	26	110	55	76	69	44	46	15	62	82	47	70	90	58	23	52	41	36	39	55	84	86



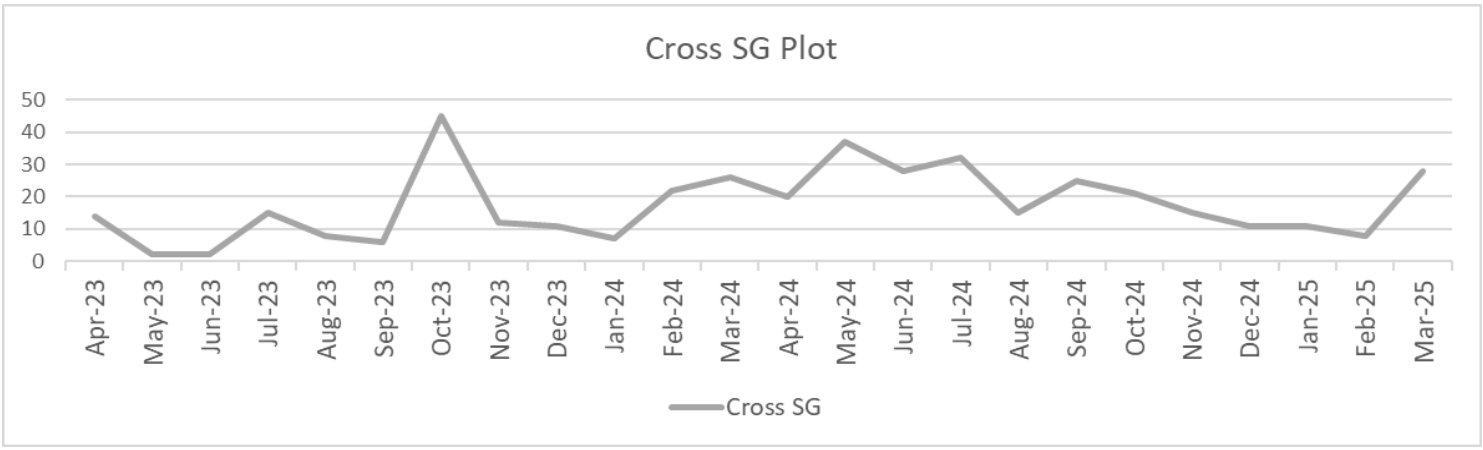
5. Cross SG to ADTPS Units

On certain occasions, it is also observed that, one Unit gets Ramp up SG and at the same time the other ADTPS unit is scheduled Ramp down SG of almost same quantum and vice-versa (Cross SG).

There is no/less ramp requirement at station level However, both units are getting cross directional ramp. This is creating unstable operation without any actual grid requirement which will hamper reliability of plant operation and overall plant availability. If not addressed, such ramp blocks are affecting the ramp performance evaluation (E/D ration & %AARR).

Last two years data:

Month	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
Cross SG	14	2	2	15	8	6	45	12	11	7	22	26	20	37	28	32	15	25	21	15	11	11	8	28



5. MSEDCL Agenda:

1. **Active Energy Consumption for Reactive Power Support by Koyna Hydro Stage-IV being incorrectly settled against MSEDCL's total drawal:**

   MSEDCL had raised this issue in MSPC Sub-Committee Meeting under DSM regime scheduled on 27.03.2025. However, it was informed to raise this issue in OCC meeting.

   Koyna Hydro Stage-IV are frequently operated in synchronous mode solely for reactive power support which requires drawal of active energy drawal from the grid. Mahagenco is paid for reactive power exchange for providing grid support. However, this active drawal during "condenser Mode" which is being done by MSLDC for reactive power Management of Grid is incorrectly accounted for as part of MSEDCL's total drawal, increasing its demand unnecessarily. It is to inform that Mahagenco does not net off this active energy drawal by Koyna HEP during its condenser mode operation in its monthly energy bill.

   Further, in case ISGS stations such as SSP & Pench, active energy drawn by them is not considered in their beneficiaries drawal but accounted as transmission loss. Hence same principle should be applied to energy drawal by InSGS during their condenser mode operations. Therefore, MSLDC should revise the MSEDCL drawal without considering Energy drawal of Koyna Stage-IV Hydro during Condenser mode and accordingly issue the revised DSM bills.

   This issue is already discussed in MSPC Sub committee meeting.

2. **The Operation of Koyna Stage I & II from current continuous operation mode to condenser mode during periods of low demand:**

   SLDC instruct Koyna Stage I to keep all 4 Units continuously synchronized to Grid, on context of immediate picking up Koyna Hydro Generation. Koyna HEP is compelled to generate a baseline of 5 MW per unit daily (totaling 40 MW on a 24x7 basis) from both Stage I & Stage II, even when such generation is not required by MSEDCL. Approximately 5 TMC of water (approx. 180MUs i.e financial burden of Rs.86.4 Crs annually is consumed annually due to SLDC's directives, adversely affecting MSEDCL's planned hydro usage strategy and operational efficiency. Koyna Stage I& II machines can also be run in condenser mode like Koyna stage IV.

   Instead of continuously running (24x7) Koyna Hydro Stage I&II machines to technical minimum (8 Nos x 5MW =40MW) , the three machines (80 MW each) of Koyna Stage I & Stage II, can be operated in condenser mode during periods when generation is not required as per Reactive power requirement of Grid by MSLDC. This will allow MSLDC to take these Stage I & II generation machines to be switched back to generation mode whenever necessary to address real-time system requirements.

3. **The real-time data of MSEDCL's drawal point from SLDC and sharing thereof for real-time demand forecasting and further time bound installation by MSETCL of the required SCADA systems at their EHV substations:**

   It is duty of STU to install SCADA at all Substations and it is real time visibility at SLDC through proper communication. SCADA/RTUs are not yet installed by STU on all MSEDCL's T-D interface drawal points inspite of Directives from Hon'ble Commission from time to time. In absence of same, MSEDCL real time demand is derived as under in SCADA. Non-availability of real time data (either SCADA or Interface meter) results in MSEDCL's underdrawal above the limits specified under the DSM Regulations, resulting in wastage of its

contracted resources. STU need to complete installation of SCADA at all T&D interface points and make real time visibility of the same to MSEDCL within fix timeline. STU is requested to permit MSEDCL to install additional IEM meter in series with MSETCL's IEM meter, for extracting real time data of the IEM. However, this project completion will require 2-3 years due to requirement of outages from MSETCL & EHV consumers. Therefore, MSETCL/STU is requested to allow MSEDCL to install its Modem/DCU to MSETCL IEM check meter whereby MSEDCL would access real time data through RS485/Ethernet/RS232 port.

Additional Agenda from MSEDCL:

1. **High difference between SCADA UI and WRPC DSM UI**:-

Due to continuous difference between STU-CTU drawal difference we are paying huge WRPC DSM bills. The interchange locations are equipped with AMR meters by the Automation department. At least these locations need to be fetched with high frequency and mapped along with SCADA drwal data. This can minimise our errors. Moreover, SCADA section engineers shall be assigned special work to minimize the difference between STU and CTU points.
For ready reference Excel sheet attached for latest DSM bill.

2. **Non availability of intra state DSM bill revision time stamping and reasons**;-

DSM bills and corresponding data available on our DSM website. The time and date of revision are not available with corresponding revisions. Moreover, the reason for revision is also not available there.

To be proposed for next MSPC Sub- committee meeting.

6. Any other points raised by committee members with permission of Chair.

Annexure1.1.

Compliance of 8th OCC meeting held on 21st October 2024

Sr no.	Agenda point	Details	Compliance from	Compliance required	Status
1	Item No. 3.2	High quantum of Partial Outages in MSPGCL units:	MSPGCL	MSPGCL should submit short term and long-term plan to avoid partial outages.	Recently a review meeting on the power supply position held on 28.04.2025 & 05.05.2025 respectively under the chairmanship of the Chairperson, CEA and again the concerns were raised regarding the high quantum of partial outages in MSPGCL thermal units. Hence, MSPGCL is requested to submit a long-term action plan aimed at addressing and reducing the high quantum of partial outages, particularly those arising from coal quality and coal mill problems.
2	Item No. 3.3	Submission of Frequency response data for the FRC event status	Generators	All the generating licensees to nominate a nodal officer for submission of required data to SLDC within stipulated time period.	Presently all the generators are following the timeline given by NLDC for FRC data submission also generating licensees nominated a nodal officer for the correspondence regarding the FRC data as and when required.
3	Item No. 3.4	Periodic Testing of Power System Elements in compliance to Regulations 40 of IEGC 2023:	Generators	All generators to submit the periodic testing details, if completed and the plan if the periodic testing is yet to be carried out.	In this regard SLDC has already sent a letter to all intra state generating licensees on 08.01.2025. Till date no testing plan was received except SWPGPL, JSW and AEML.
4	Item No. 3.5	Regarding implementation of FGMO in intra state generating units in compliance to MEGC	Generators	All generators to submit a detailed plan for operation under FGMO.	Till date all the intra state generator except MSPGCL are operating under FGMO.

		2020 and IEGC 2023:			
5	Item No. 3.9	Regarding proposals of Project related outages	Operation, SLDC	A separate meeting to be scheduled with all transmission licensees for planning and segregation of important outages.	These outages are discussed in state pre- OCC meeting & MOCM meeting held on monthly basis.
6	Item No. 3.10	Updation of SCADA SLDs / Elements of Mumbai network for safe operation at SLDC	SCADA, SLDC/Mumbai Utilities	SCADA department of SLDC to share printouts of the existing configuration in SCADA with concerned utilities in Mumbai Network. Also, SCADA dept. to ensure the identified elements are added in SCADA system & unnecessary data points to be deleted and to share connectivity issues with AC&I dept. He asked concerned utilities to depute authorized personnel for updation of data points at SCADA dept. SLDC by 30.11.24. In addition, he asked to conduct a separate meeting with CR.	Latest SLDs of the substations may be shared with SCADA department for updation of network elements.

7	Item No. 3.11	EHV Cables and its accessories in MMR and Mumbai region installed in Important Grid Lines:	TPCL/ MSETCL	EHV Cables in Mumbai / MMR important grid lines are to be maintained with sufficient spares. Respective transmission licensees should take care of their design so that the ATC should not be hampered and in case of any failure, there must be possibility of bypass arrangement whereby it can isolate and continue with the critical corridors.	
8	Item No. 3.12	New Targets of the relief quantum at each stage of AUFLS for Maharashtra State.	MSEDCL	The chairman instructed MSEDCL to confirm the feeder segregation. The Chairman has asked to follow-up for above with MSEDCL. Also, SCADA sect. to ensure and follow up for telemetry plan/status of these feeders visibility at SLDC.	Meeting was conducted on 8th April 2025 with ACI and MSEDCL. Updated list of EHV feeders to be included in stage 3 & 4 sent by ACI on 22.04.2025 to MSEDCL for confirmation purpose. Details awaited from MSEDCL.
9	Item No. 3.13	Co-ordination between Projects/Construction division and O&M division for rigorous compliance of SoP dated 17.01.2022	MSETCL (Projects)	The Chairman has requested the O&M and Projects Dept. to co-ordinate particularly for MSETCL projects so that addition of new interface location (as per SoP) for DSM software is sent to SLDC timely.	
10	Item No. 4.1	SCADA Visibility of KVTL Vikhroli and MSETCL Waghivli	SCADA, SLDC	TPCL to co-ordinate with the SCADA section of	Both Stations are visible.

				SLDC for compliance of above.	