

	<p style="text-align: center;"> MAHA TRANS CO Maharashtra State Electricity Transmission Co. Ltd. MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LTD.</p> <p style="text-align: center;">CIN NO. U40109MH2005SGC153646 Maharashtra State Load Dispatch Center</p> <p>Tele :91-022-27601762 (P) Office of The Chief Engineer 91-022-27601931 (O) Extn.1003 Maharashtra State Load Email: cesldc@mahatransco.in Dispatch Center Thane-Belapur Road, P.O. Airoli Navi Mumbai Pin – 400 708. website : www.mahasldc.in</p>	<p style="text-align: center;"> RIGHT TO INFORMATION</p> <p style="text-align: center;"> महाराष्ट्र राज्य विद्युत् प्रसारण</p>
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Ref. No. CE/MSLDC/OP/OCC/ **No 0 2 4 0 5** ,

Date: **21 NOV 2024**

To,

Members of the OCC as per mailing list.

Sub: Minutes of the 8th Operation Co-ordination Committee (OCC) meeting held on 21.10.2024 at 11:30 hrs. through physical & video conferencing mode at MSLDC Kalwa.

- Ref.:**1. Seventh (7th) OCC MOM Circulated vide CE/MSLDC/Op/OCC/812 dtd 03.05.2024
2. Eighth (8th) OCC Agenda Circulated vide CE/MSLDC/Op/OCC/2154 dtd 17.10.2024

Dear Sir/Madam,

In reference to the above subject, the Eighth (8th) Operation Co-ordination Committee (OCC) meeting was held on 21.10.2024 at 14:30 hrs through physical & video conferencing mode at MSLDC Kalwa. The Minutes of the said meeting are attached herewith.

Encl: As above.

Yours sincerely,



(Girish Pantoji)

**Superintending Engineer (Ops),
MSLDC (Member Convener of OCC)**

Copy s.w.rs. to:

The Director (Operations), MSETCL, Prakashganga, Mumbai.

Sub: Minutes of the 8th Operation Co-ordination Committee (OCC) meeting held on 21.10.2024 at 14:30 hrs at MSLDC Kalwa.

OCC members as per list shown below:

Sr. No	Name of Organization	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	Shri Mahendra Walke	CE, Tr O&M MSETCL	Invitee	9769213955	ceoandm@mahatransco.in
2 b	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	022-6952200 69853535 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	pssc@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	Abhishek.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	pnkjamteke@gmail.com

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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	Akshayv.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@jbmgroupp.com
22	SLDC	Shri Girish Pantoji	SE(OP), MSLDC	Member-Convener	9822414154	seop@mahasldc.in

Minutes of the Eighth (8th) Operation Co-ordination Committee (OCC) meeting held on 21st October 2024 at 14:30 Hrs. through physical & video conferencing mode.

The 8th meeting of the OCC, was convened on 21.10.2024 at 14:30 hrs through physical and video conferencing mode. The meeting was chaired by Respected Executive Director, MSLDC.

The Executive Director (MSLDC) & the Chairman of the OCC, welcomed all the members.

The list of participants in the meeting is attached herewith as **ANNEXURE – A**.

The detailed Point-wise Discussions held during the meeting are as follows:

Item No. 1: Confirmation of Minutes of Meeting of the 7th OCC Meeting held on 14.02.2024:

- The Minutes of the 7th OCC meeting have been conveyed vide vide CE/MSLDC/Op/OCC/812 dated. 03.05.2024, with all the members and requested to offer any comments on the same so as to confirm the MoM.

The OCC affirms the minutes of the 7th OCC meeting since no feedback was received.

Item No. 2: Presentation on Maharashtra system Grid performance from January 2024-September 2024.

- The Superintending Engineer (Ops - MSLDC) & Member Convenor of the OCC presented the Maharashtra System Grid performance from January 2024-September 2024. (the presentation is attached as **ANNEXURE – B**)
- As informed by the representative of MSPGCL, the revival dates for Uran Unit A0 are 21.11.2024 whereas for Ghatghar Unit 2 repairs, order is placed and it shall be revived by March 2025.
- On TPCL unit 5 revival, the Chairman has asked TPCL to submit a presentation on the detailed repair activities and its timelines. Also, that a team comprising WRPC and SLDC will visit the TPCL Unit-5 works to review the restoration status.
- The lacunae in MVAr resource availability are noted. There is shortage of capacitors and reactors in the network. The Chairman stressed on revival of the failed reactors, at the earliest. Also, the proposed shunt reactor and capacitor schemes need to be implemented at an earliest.
- The Chairman instructed to form a study group involving the Mumbai utilities including transmission & distribution utilities to study the major occurrences at 220 kV Gorai bus fault which was predominantly undervoltage phenomena. During this fault no major

load loss was reported by utilities although there was load crash of 1045 MW observed followed by slow recovery of demand in 3 minutes duration.

- The Chairman instructed to review MMR LTS as per decided timelines, in LTS committee meeting.

With due deliberations, all OCC members took note of the same.

Item No. 3 MSLDC Agenda:

3.1 Resource Adequacy Regulations, 2024 and its timelines for submission of demand forecasts to SLDC.

MSLDC briefed about the RA regulation 2024.

The objective of these Regulations is to enable the implementation of Resource Adequacy framework by outlining a mechanism for planning of generation and transmission resources for reliably meeting the projected demand in compliance with specified reliability standards for serving the load with an optimum generation mix.

The Resource Adequacy framework shall cover a mechanism for demand assessment and forecasting, generation resource planning, procurement planning, and monitoring and compliance.

These Regulations shall apply to the generating companies, distribution licensees, State Load Despatch Centre, State Transmission Utility, full transmission Open Access participants, and other grid connected entities and stakeholders within Maharashtra. Provided that distribution licensees shall consider demand of partial open access consumers while forecasting their demand for RA planning.

The timelines for submission of Short term Resource Adequacy Plan (ST-DRAP) and Medium term Resource Adequacy Plans (MT-DRAP) along with associated activities for implementation of the Resource Adequacy Framework in the State of Maharashtra are mentioned in **ANNEXURE-1**.

- Data is received by SLDC from all Discoms.
- Discoms informed that the ST-DRAP and MT-DRAP have been submitted to the Hon'ble Commission with a copy to SLDC.
- Aggregation at SLDC is in progress.

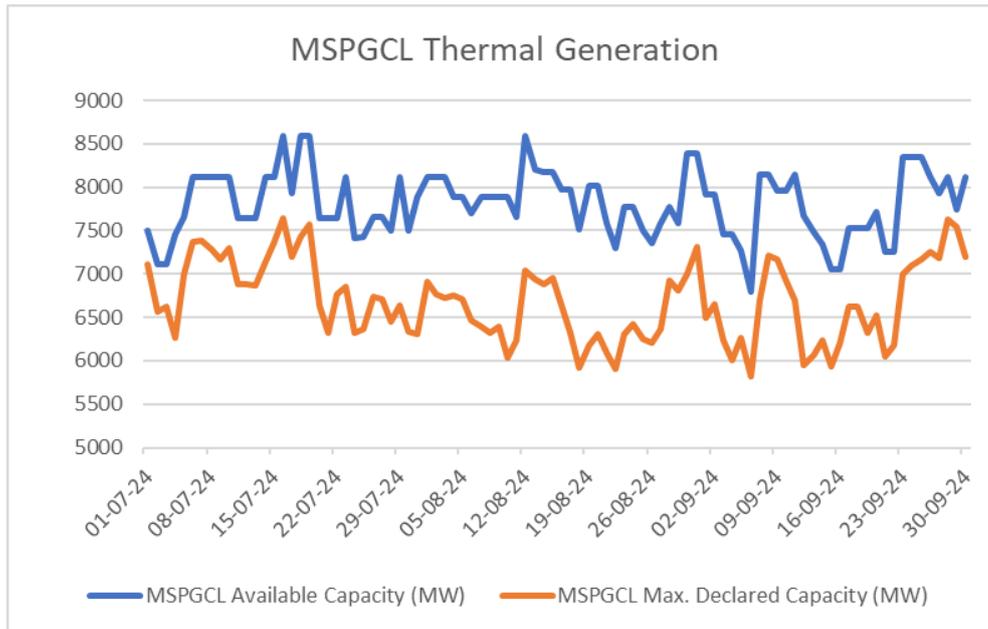
All OCC members took note of the same.

3.2 High quantum of Partial Outages in MSPGCL units:

In WRPC OCCM (582nd) meeting, WRPC highlighted the high quantum of partial outage in MSPGCL thermal units due to poor coal quality and coal mill issues.

Also, in the various meetings conducted by MoP/CEA, MSPGCL was advised to minimize partial outages by opting for imported coal blending.

- The available capacity MW versus declared capacity of MSPGCL for the period of Jul-24 to Sept-24 is shown below



- The Chairman said that this issue is discussed in multiple meetings including MoP meetings. The remedial measures to improve the coal quality may be expediated by MSPGCL.
- DC declaration of MSPGCL plants is less than normal many times. It was also informed that it is resulting into lesser capacity credit numbers for MSPGCL generators while carrying out resource adequacy estimations. The Chairman asked MSPGCL to submit a detailed short term and long-term plan for ensuring DC on plant-to-plant basis for PLF.

After due deliberations, OCC suggested that MSPGCL should submit short term and long-term plan to avoid partial outages.

3.3 Submission of Frequency response data for the FRC event status:

All the SLDCs shall work out FRC for all the intra-state entities (for events indicated by the Regional Load Despatch Centres) based on the HDR available at their respective SLDCs and submit the same

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to respective RLDC within six (6) working days after the event. (Format as per Table). (sub-clause (a(v)) of clause (9) of IEGC Regulation Annexure-2)

Timeline for FRC and FRP computation during events

Particulars	Stipulated Timeline*
Submission of high-resolution data by regional entity generating stations and state control to RLDC's	2 working days after the event
FRC and FRP computation by NLDC	3 working days after the event
FRC and FRP computation by RLDC, SLDC and Generating Units	6 working days after the event

* Timeline for data submission and FRC computation are excluding the day of event.

It is observed that MSPGCL & JSW are not submitting the FRC data as per the timeline mentioned above.

- The Chairman instructed all generators to follow the above timelines and submit the FRC data especially MSPGCL and JSW.

With due deliberations, all OCC members took note of the same.

3.4 Periodic Testing of Power System Elements in compliance to Regulations 40 of IEGC 2023:

CERC has notified IEGC 2023 Regulations on dtd. 29.05.2023 effective from 01.10.2023. As per Regulation 40 of IEGC 2023, all synchronous generators are mandated for periodic testing of power system elements.

The copy of the said Tests required for Power System Elements is attached herewith as **ANNEXURE-2**

- The Chairman directed all generators to submit the periodic testing details, if completed and the plan if the periodic testing is yet to be carried out. Letter in this regard was given by SLDC on 7th June.

With due deliberations, OCC took a note of the same.

3.5 Regarding implementation of FGMO in intra state generating units in compliance to MEGC 2020 and IEGC 2023:

As per clause 30.3 of MERC (State Grid Code) Regulations, 2020 all intra state generating units shall operate in FGMO and FGMO should be implemented within one year from the date of notification of these Regulations. Further, in Oct,2023, as per Guidelines under IEGC 2023, the generating

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stations and units with governors shall operate in Free Governor Mode of Operation. Hence, in accordance with the above regulations all intra state generating units are requested to implement FGMO to all applicable generating units. If units are still operating under RGMO needs to be converted to FGMO at an earliest. In this regard MSLDC already sent a letter to all intra state generating units on 24th Feb 2022 & 07th Mar 2024 respectively. Further as per MEGC 2020 Primary frequency response test to be conducted on all generating units of Maharashtra. However, the primary response test was not done on MSPGCL and RIPL units till the date.

Below is the list of InSGS generators whose Governors are still operating under RGMO mode.

FGMO/RGMO Status of generating units of Maharashtra					
Generating Station	Unit Capacity (MW)	FGMO/RGMO Status	FGMO/RGMO Mode	Whether Primar Frequency Response (PFR) Test Done/Not Done	
IPP AND PRIVATE GENERATORS					
APML, Tirora	5x660	Yes	FGMO	Test done as per MEGC 2020/IEGC 2017 (5th amendment)	
Tata Power Trombay	U5 (1x500)	Yes	RGMO		
	U7 (1x120)		RGMO		
	U8 (1x250)		FGMO		
Tata Power Bhira	U1 to U6 (6x25)	Yes	FGMO		
	BPSU (1x150)				
RattanIndia, Amravati	5x270	Yes	RGMO	PFR test not done	
IEPL	1x270	Yes	RGMO		
MSPGCL GENERATORS					
BHUSAWAL U3	1x210	Yes	FGMO/RGMO	PFR test not done in any of the units of MSPGCL till date.	
BHUSAWAL U4, U5	2x500	Yes	RGMO		
CHANDRAPUR U3, U4	2x210	Yes	RGMO		
CHANDRAPUR U5 TO U9	5x500	Yes	RGMO		
KORADI U6	1x228	Yes	RGMO		
KORADI U8 TO U10	3x660	Yes	RGMO		
KHAPERKHEDA U1 TO U4	4x210	Yes	RGMO		
KHAPERKHEDA U5	1x500	Yes	FGMO/RGMO		
NASIK U3 to 5	1x210	Yes	RGMO		
PARALI U6 TO U7	2x250	Yes	FGMO/RGMO		
PARALI U8	1x250	Yes	RGMO		
PARAS U3, U4	2x250	Yes	RGMO		
URAN	4x108	Yes	FGMO		
URAN	2x120	Yes	FGMO		
KOYNA STAGE-1 U1 TO 4	4x70	Yes	FGMO		
KOYNA STAGE-2 U5 TO 8	4x80	Yes	FGMO		
KOYNA STAGE-3 U1 TO 4	4x80	Yes	FGMO		
KOYNA STAGE-4 U1 TO 4	4x250	Yes	RGMO		
GHATGHAR U1, U2	2x125	Not Available	-		PO for implementation of RGMO/FGMO is already placed.
VAITARNA	1x60	Not Available	-		Upgradation is proposed under DPR in FY 2024-25
TILLARI	1x60	Not Available	-	Procurement for replacement of Governor is in process through DPR. After replacement of new governing scheme, unit operation may be in FGMO/ RGMO mode.	
BHIRA (TR)	2x40	Not Available	-	Procurement for replacement of Governor is in process through DPR	

- The Chairman instructed all generators to submit a detailed plan for operation under FGMO.

With due deliberations, OCC took a note of the same.

3.6 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 subject was discussed in 6th OCC meeting dtd 18.08.2023, the procedure for the same is being formulated in accordance with the Regulation No. 28.2 (f) of the MEGC, 2020 and directives of GCC.

- SLDC has formulated a procedure in this regard.
- The Chairman said that the draft procedure should be shared with all the stakeholders for comments.

The OCC took a note of the same.

3.7 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.

At present, three events, 2 Nos of M/s AEML & 1 No of MEGPTCL are required to be discussed as both the transmission licensees are requested to consider the following events under the Clause 6 (i) of Annexure II of MERC MYT Regulations, 2019 & exclude the same from availability calculations.

- The Chairman said that the draft procedure formulated by SLDC shall be shared for comments from all the stakeholders. The events as mentioned in **Agenda point no. 3.8** below, which need to be considered under force majeure category or otherwise during calculation of availability may be finalized through VC after finalizing the procedure.

The OCC took a note of the same.

3.8 Events in AEML & MEGPTCL Network:

AEML Network:

1. Event 1: Delayed 220kV Aarey – Saki 2 cable UG cable fault repairs due to heavy dust storm & pouring rains:

220kV Aarey – Saki 2 feeder tripped on 7th May 2024 at 21:47 Hrs due to cable fault. Typical fault repair time of any EHV underground cable is around 14 days. But, due to unpredicted heavy rains & storm on 14.05.2024 & 15.05.2024, joint pit, & trenching excavation for civil work of jointing bay was completely washed out & M/s AEML had to redo it after the complete stoppage of rains. After the normal weather, M/s AEML initiated the works and restored the line on 23rd May 2024 at 17:35 Hrs

M/s AEML requested MSLDC to consider the above events under the Clause 6 (i) of Annexure II of MERC MYT Regulations, 2019 & exclude the same from availability calculations.

2. Event 2: 220kV Gorai Busbar flashover & Link Box Failure of Gorai MSETCL Borivali line 1 & 2 at AEML Gorai EHV substation

Gorai 220kV GIS Bus-1 & Bus-2 tripped simultaneously on 28.05.2024 at 17:59 hrs, resulted in station blackout & total loss of 99 MW load in area. M/s AEML charged 220kV Main Bus-2 along with the associated equipment by 20:30 Hrs on same day except Bus 1, 220kV Gorai – MSETCL Borivali 1 & 2 feeders & 125 MVA Power Transformer 2.

This tripping has experienced fault current of magnitude of 58.6 kA and heavy voltage dip in transmission system which was never experienced by Transmission system in past. Such passage of abnormal fault current of 58.6kA, resulted into damage of link boxes on 220kV Gorai – MSETCL Borivali 1 & 2 feeders.

After the occurrence, M/s AEML has immediately contacted to OEM & requested them to initiate repairs activity. As per OEM assessment, repairs require 220kV GIS module with special consumables which needs to be manufactured and imported from M/s Hitachi, China factory. After rigorous follow up, material has reached site on 20th July 2024. After the restoration of damaged link box, both the feeders were taken into service on 02.06.2024 & 04.06.2024 respectively.

In view of above, M/s AEML requested to MSLDC to exclude the abnormal restoration time requiring to repair the damage which is caused due to abnormal fault current of magnitude of 58.6kA, which was never expected & hence beyond the control of M/s AEML.

Members may like to discuss

MEGPTCL Network:

On 26th May 2024 at 18:10 hrs, 4 Nos of Tower collapsed of 765kV Akola 2 – Ektuni ckt. 2 due to sporadic heavy whirl wind followed by heavy localized cyclonic storm.

At the time of incident weather condition was stormy with heavy rain. Prima facie it appeared that a strong localized Whirl wind engulfed the tower under reference. The windstorm was so strong that it has damaged the 3 nos of towers and due to this 1 Nos of tower were completely got collapsed. Line restoration on the original co-ordinates was initiated as foundation of tower was intact and no damages were observed. Restoration work was started from 27th May,2023 and line has been again successfully charged on 12th Jun,2024.

M/s MEGPTCL requested MSLDC to consider the above events under the Clause 6 (i) of Annexure II of MERC MYT Regulations, 2019 as force majeure & exclude the same from availability calculations.

3.9 Regarding proposals of Project related outages: -

At present, there are various project works are going on in Mumbai, Pune & Nashik area for Metro, DFCCIL, NHRCL, PGCIL work etc. It is observed that, project related outages are submitted in Outage Management system of MSLDC on day ahead basis or through POST OCC without any discussion. It becomes very difficult to decide the priority of the work from the multiple outages due to lack of information.

It is to inform that, in project related outages various things are involved like First time charging approval for the element from SLDC/WRLDC, Scada visibility, Protection co-ordination, Load flow studies etc. and these processes cannot be completed in short period of time. It results into deferment of outages by SLDC.

To avoid such things, it is requested to submit the project related outage proposals before the 15-20 days to SLDC and to arrange a meeting physically or virtually with the stakeholders along with the SLDC team to discuss the outage details. It will be easy to SLDC to plan such outages with related/required approvals in feasible time period. It will be helpful to field officers also to complete the project works at the earliest without any hurdles. Same is convened in the MOCM meetings also.

- The Chairman expressed his displeasure regarding lack of meticulous planning while proposing project related outages. He instructed for coordinated approach while proposing any outage. He also asked to schedule a separate meeting with all transmission licensees for planning and segregation of important outages.

With due deliberations, OCC took a note of the same.

3.10 Updation of SCADA SLDs / Elements of Mumbai network for safe operation at SLDC: -

It is seen that; SCADA data is not updated for the Mumbai network. It causes difficulties to shift engineers while giving the outages in the Mumbai network.

It is proposed that TPCL, AEML and MSETCL (Vashi Zone) to depute authorized representatives to SCADA department and update all elements of Mumbai & MMR grid, for safe Grid operations. It is proposed to complete the updation latest by 30-11-2024 positively.

- The Chairman instructed SCADA department of SLDC to share printouts of the existing configuration in SCADA with the concerned utilities in Mumbai Network. Also, SCADA department to ensure the identified elements are added in SCADA system and unnecessary data points to be deleted and to share connectivity issues with AC&I dept. He asked the concerned utilities to depute authorized personnel for updation of data points at SCADA dept. SLDC by 30th November 2024. In addition, he asked to conduct a separate meeting with Central Railway.

With due deliberations, OCC took a note of the same.

3.11 EHV Cables and its accessories in MMR and Mumbai region installed in Important Grid Lines:

It is seen that many EHV Cables and its accessories in MMR and Mumbai region installed in important 220 kV Grid Lines.

The following tripping due to EHV Cables has made Mumbai and MMR grid unstable.

1. 220 kV PDG (Gigaplex) – NTT Neon DC-13 line is under outage from 30-09-2024.
2. 220 kV Ulwe – Waghivali (M) ckt-2 is under outage from 25-06-2024.

With the commissioning of 220 kV APTA ckt-1 & 2 from Navi Mumbai PG on 15-10-2024, the loading of 220 kV Ulwe – Waghivali (M) ckt-1 goes beyond 800 – 850 A. This creates a transmission constraint in MMR.

Also, due to absence of 220 kV PDG – NTT Neon line, for second source for 220 kV Bapgaon ss – 220 kV AKP – Nashik is bunched with 220 kV NTT – Bapgaon line. This bunching has created transmission constraint in MMR. And, further to control high loadings of 220 kV Nashik Babhleshwar D/C, the Nashik Support through these lines is withdrawn.

Hence, in conclusion, EHV Cables in Mumbai / MMR important grid lines are to be maintained with sufficient spares. The ampacity of the lines, should not be affected due to failure of these EHV cables. There should be bunching facility to isolate the faulty portion available on CTT, so that the Grid lines will be intact, even after any cable issue.

- The Chairman said that 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.

With due deliberations, OCC took a note of the same.

3.12 New Targets of the relief quantum at each stage of AUFLS for Maharashtra State.

As per minutes of 158th Protection Committee meeting held on 24th July 2024, NPC Secretariat, CEA has communicated the new relief quantum for each region (based on Regional Peak Demand Met during the previous year) for implementation in the upcoming Financial Year (FY).

Existing target of the relief quantum at each stage of AUFLS for Maharashtra is given below:

UFR settings & Existing Target Quantum (in MW)					
Utility	49.40 Hz	49.20 Hz	49.00 Hz	48.80 Hz	Total
Maharashtra	805	810	815	820	3250

WRPC has calculated the distribution of new targets based on the above WR quantum among the states for different stages based on the peak demand met by states in the Financial Year 2023-24 and the new targets of the relief quantum at each stage of AUFLS for Maharashtra are as given below:

UFR settings & New Target Quantum (in MW)						
	State Peak Demand (MW)	49.40 Hz	49.20 Hz	49.00 Hz	48.80 Hz	Total
Maharashtra	28969	1313	1576	1839	1839	6567

Based on the above, the additional quantum required to be wired up under each stage of AUFLS is as follows:

Hence, Additional quantum (MW) over existing quantum required to be wired up under each stage of AUFLS					
	49.40 Hz	49.20 Hz	49.00 Hz	48.80 Hz	Total
Maharashtra	508	766	1024	1019	3317

For the implementation of additional AUFLS quantum, additional feeders need to be identified and additional under-frequency relays may be procured, if required. The criteria for identification of feeders is mentioned in the MoM of WRPC 158th PCM held on 24.07.2024 (enclosed).

Correspondence in this regard was done by this office vide L. no. 1728 dtd 28.08.2024 to inform the implementation plan along with the present status to wire up the additional quantum.

ACI& P has communicated MSEDCL vide letter no.744 dtd. 03.10.2024 the substation wise HV feeders (33/22/11kV) data and have requested to confirm zone wise and stage wise HV feeders other than already connected to existing AUFLS to be included for implementation of additional AUFLS quantum as per WRPC guidelines.

- The Chief Engineer (AC&I) said that 11/33kV feeders average loading is collected from field and is referred to MSEDCL. Also, these feeders are segregated category wise and shared with 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.

With due deliberations, OCC took a note of the same.

3.13 Co-ordination between Projects/Construction division and O&M division for rigorous compliance of SoP dated 17.01.2022:-

Hon'ble MERC has notified the MERC (Deviation and Settlement Mechanism and Related Matters) Regulations 2019 on 01.03.2019.

For computation of deviations of Buyers and Sellers SEMs are installed at all interface points. The meter data recorded and communicated by these SEMs to MSLDC is of utmost importance for computing the DSM bill. As such, a Standard Operating Procedure (SoP) for (a) Addition of new interface location; (b) Replacement of ABT meter (SEM); (c) Change in CT/PT Ratio and Polarity at substation was devised and circulated from office of Director Operations to all the field offices so that there should not be any miss out of interface location and/or any mismatch in CT/PT ratio in order to issue error free weekly DSM bills.

In this context, it is to appraise that even after the SoP has been circulated to all the field offices through email dated 18.01.2022; it is not being scrupulously followed.

One major observation is that in certain cases Projects/Construction division doesn't hand over the substation to O&M and the charging process gets completed. As such the information with regard to addition of new interface location (as per SoP) for DSM software is not sent to SLDC on time. This results in issuance of incorrect weekly DSM Bills to utilities and thereby, gives rise to undesired commercial implications. Moreover, this also results in incorrect computation of the Monthly Transmission Loss.

In order to tackle this issue, it is essential that sharing of necessary information amongst field offices must be ensured so that timely intimation can be passed on to SLDC for DSM Billing.

- 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.

With due deliberations, OCC took a note of the same.

4. TPCL Agenda:

4.1 SCADA Visibility of KVTL Vikhroli and MSETCL Waghivli :

SLDC has provided MMR lines and 400KV input line real time data through ICCP. Additionally, similar real time data is required for all connected elements of KVTL Vikhroli and MSETCL Waghivli for real time monitoring of Mumbai Power System. (Data requirement point list has already shared with SLDC).

- The Chairman has requested the TPCL to co-ordinate with the SCADA section of SLDC for compliance of above.

4.2 Voltage fluctuations on account of tripping in MSETCL network:

Important and critical consumers in Mumbai like Refineries, RCF and Data centres experienced voltage fluctuations on 50 occasions since April 2024, due to tripping in MSETCL / Grid network. OCC members may discuss about measures of prevention of tripping of Grid element.

- The Chairman has asked TPCL to take up specific trippings where any lacunae in fault clearance is observed in PCC meeting so that the issue can discussed in detail and studied.

4.3 Tripping of 220 KV Kalwa – Salsette-4 & Kalwa – Mulund-2 lines at MSETCL Kalwa for fault on 220 KV Kalwa – Salsette-3 line

At 1448 hrs on 11th August 2024, 220 KV Kalwa- Salsette-3 line tripped & auto reclosed due to failure of A phase LA at Kalwa. At the same time, Kalwa – Salsette-4 and Kalwa – Mulund - 2 lines tripped and auto reclosed at Kalwa which is not a desired tripping.

- The Chairman has asked TPCL to take up this issue in PCC meeting so that this issue can discussed and studied.

4.4 Non consideration of TPC- D contracted wind generation embedded in MSEDCL for DSM Bills

Since May-23, TPC D contracted wind generation, embedded in MSEDCL is not being considered in DSM Bills.

This is impacting TPC-D Commercially. Also, this will lead to multiple revisions in DSM Bills. TPC-D request to consider the same in DSM Bills.

- The Chairman has asked TPCL to take up the commercial issue separately with the EA dept of SLDC.

4.5 Zero Scheduling of Trombay Unit-8

TPC-D had requested MSLDC for zero schedule for Trombay Unit-8 on 29th June and 3rd August 2024 due to various reasons such as,

- Drop in demand.
- Increase in contracted wind generation.
- Rising lake levels and must run hydro generation for controlling flood situations.

However, SLDC has not permitted the same. It caused commercial implications to DISCOMs. SLDC needs to allow zero schedule request of any unit by DISCOM and device suitable mechanism for running the unit under zero schedule to address any Transmission constraint issue.

- SLDC representative informed the forum regarding reasons for not allowing zero schedule to Trombay Unit-8 on 29th June and 3rd August 2024 in view of secure and reliable supply to Mumbai system.

4.6 Revision of Intra state RE Generation

At present, revision of intra state RE is happening at 4th time block. As different PSS schedules are revised in different blocks, eventually the revisions are taking place in almost every time block. DISCOMs are not in a position to buy/sale for shortage / surplus as real time market window closes before 6-time blocks. Hence RE power revisions also needs to be affected as applicable in Interstate RE revisions.

- The Chairman said that the revisions are being done as per provisions in the MERC RE F&S Regulation and suggested to take up this issue in appropriate forum for this purpose.

6. MSEDCL Agenda:

Missing PENCH schedule in WBSSES / MSLDC website.

MSEDCL has contracted capacity of 160 MW i.e. 33.75% in PENCH hydro plant (80*2 = 160 MW) and Madhya Pradesh is another beneficiary having 66.25 % in PENCH hydro. But the schedule data in r/o PENCH hydro is neither available on WRLDC nor on MSLDC website

though PENCH hydro is always on bar. WRPC issues regional weekly DSM bills which includes schedule / injection data from PENCH as allotted to MSEDCL. But the same is not reflected in MSEDCL's drawal schedule while computing DSM / ADSM charges in r/o MSEDCL since 11th October 2021. This results into not only incorrect weekly DSM bills for MSEDCL but also financial loss to MSEDCL. MSEDCL has pointed out this discrepancy to the Energy account section of MSLDC but they have neither reverted on this issue nor taken any step so that the issue will be taken on WRPC forum.

- The Chairman has asked MSEDCL to take up the commercial issue separately with the EA dept of SLDC.

7. ADTPS Agenda:

7.1 Revised DSM bill issues: Changes are noticed in SG data of revised Bills received. Corrections escalated are still pending.

- The Chairman has asked AEML / ADTPS to take up the commercial issue separately with the Energy Accounting department of SLDC.

7.2 ADTPS Unit-1 Annual Overhauling dates confirmation (From 11th Dec-24 to 20th Jan-25) as communicated via email dated 20 June 2024.

- The Chairman asked ADTPS to plan AOH only after revival of TPC Unit#5 and to confirm the AOH dates during MOCM.

With these discussions the meeting concluded with vote of thanks.

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