

To,

All OCC members as per list

Sr. No.	Name of Organisation	Name of Nominee	Designation	Committee constituent	Contact No.	E-mail ID
1	SLDC	Shri Shrikant Jaltare	ED, MSLDC	Chairperson	022-27301931	edmsebholding@gmail.com
2	SLDC	Shri Mahesh Bhagwat	SE(OP), MSLDC	Member-Convener	9920499062	seoperationmsldc@gmail.com
3	MSETCL		ED, Tr O&M MSETCL	Member		edtrans@mahatransco.in
4	SLDC	Mrs. Juelee Wagh	CE, MSLDC	Member	9819241773	cesldc@mahasldc.in
5	STU/MSETCL	Shri Sanjeev Bhole	CE, STU	Member	9588401698	cestu@mahatransco.in
6						
7	MSEDCL	Shri Gopichand Ghodke	S.E LM Cell, MSEDCL	Member	9833980238	selmkalwa@gmail.com
8	MSPGCL	Shri E. S. Moze	Dy.CE(Works) MSPGCL	Member	8879770737	cegwmahagenco.in
9	TPCL	Shri Kiran Desale	Head Transmission TPCL	Member	9223553342	desalekv@tatapower.com
		Shri Milind Gole	Head Grid Operations (PSCC), TPCL	Member	9820868264	pssc@tatapower.com
10	AEML	Shri Dilip Devasthale	Head O&M AEML Transmission	Member	9324180932	Dilip.Devasthale@adani.com
11	ATIL	Shri Abhishek Kukreja	Associate Manager-O&M	Member	6359956492	Abjishek.Kukreja@adani.com
12	MEGPTCL	Shri Rakesh Bhalerao	Associate Manager-Business Development	Member	7045953823	rakesh.bhalerao@adani.com
13	JPTL	Shri Vaibhav D Sansare	Associate Manager-Transmission	Member	9552577122	Vaibhav.sansare@jsw.in
14	APTCL	Shri Rajiv Nimje	AGM, APTCL	Member	9422308883	Rajiv.nimje@rattanindia.com
15	VIPL	VIPL Respresentative		Member		

16	JSWEL	Shri Harshal Joshi	Manager (OSTS Dept,JSW)	Member	9552577131	harshal.joshi@jsw.in
17	ADTPS	Shri Vijay Dalli	VP-Operations ADTPS	Member	9325119741	Vijay.Dali@adani.com
18	RIPL	Shri Amit Panchalwar	DGM,RIPL	Member	9503229333	amit.panchalwar@rattanindia.com
19	APML, Tiroda	Shri Manoj Taunk	Associate VP-Protection & Metering	Member	9099005517	Manoj.Taunk@adani.com
		Shri Akshay Mathur		Member	9870663062	Akkshayv.Mathur@adani.com
20	SWPGL Wardha.	Shri Dinesh B Mewade	DGM,SWPGL	Member	7387007010	Dinesh.m@saiwardha.com
		Shri Prabhjit Singh Samra	GM (BDG – Operations), SWPGL	Member	9177025554	Dbg_operatios@saiwardha.com
21	CSE	Shri Sachin Burani Shreedhara Korukonda	Manager (Solar project)	Member (Solar)	9924532382	sachin.burani@cleantechsolar.com sreedhara.korukonda@cleantechsolar.com
22	Cleanwin Power, Satara	Shri Mangesh Lavhale Shri Neeraj Sharma	Manager (Wind project)	Member (Wind)	9881498595 9650358798	mangesh.lavhale@herofutureenergies.com neeraj.sharma@herofutureenergies.com

Agenda for 4th Operation Co-ordination Committee meeting scheduled on 29^h August 2022 at 11:30 Hrs. through hybrid mode i.e. physical and video conferencing.

Agenda Points: -

1. Confirmation of the minutes of the 3rd OCC held on 02.05.2022 through video conferencing.
2. System Disturbance in the Maharashtra Network for the period April 2022 to July 2022 is enclosed in **Annexure 3**.
3. Status of completion of ongoing schemes in Maharashtra & Mumbai: -
 - 3.1 Status of Reactors is enclosed in **Annexure 3.1**
 - 3.2 Status of State Transmission Schemes is enclosed in **Annexure 3.2**
 - 3.3 Status of Mumbai Transmission Schemes is enclosed in **Annexure 3.3**
4. **Discussion and finalization of Draft procedures formulated towards,**

4.1 “Load Curtailment for the State of Maharashtra.”

Draft of procedure was published on website and circulated through mail for comments on 19.07.22 & last date of submission of comments was 05.08.2022. However, Comments received from AEML, BEST, GEPL, MBPPL, KRCIPPL, TPCL and is awaited from MSEDCL. The comments received from various stake holders are consolidated and attached herewith as **Annexure 4.1**. As per the provisions of the MEGC, 2020, the procedure can be implemented only after concurrence from the GCC.

Committee members may discuss the draft procedure.

4.2 “Planned Outage Management in Mumbai and MMR Region.”

Draft MOCM procedure was circulated through mail for comments on 06.06.2022 & last date of submission of comments was 14.06.2022. A meeting was conducted on 15.06.2022 through VC for discussion on procedure under the chairmanship of the Chief Engineer, SLDC). Based on the discussions held in the said meeting and comments received from AEML & TPCL, the draft procedure has been updated. Also, MOCM was conducted since last two months as a trial operation.

Committee members may discuss the draft procedure.

5. Status of commissioning of LTS on 400 kV Talegaon (PG) – Kalwa, 400 kV Talegaon (PG) – Kharghar and 400 kV Padghe – Kalwa D/C lines:

In accordance with the recommendations of various Committees constituted to enquire occurrence held on 12.10.2020, a committee was constituted by the Executive Director (MSLDC) to review & develop LTS Scheme of various 400 kV & 220 kV lines feeding power to MMR area including Mumbai.

The said committee, with detailed studies, formulated LTS Schemes and with the recommendations from State OCC & GCC, the scheme was submitted to PCM-WRPC for further ratification and approval.

In the 148th PCM-WRPC Meeting held on 20.04.2022, the scheme was discussed and approved for implementation. Accordingly, vide letter No. 986 dated 02.06.2022, MSLDC has requested the Chief Engineer (ACI&P), MSETCL to co-ordinate with all the concerned stake holders viz. MSETCL, TPC, AEML & MSEDCL for establishment of said LTS schemes.

As the said scheme is important considering the loading of lines & maintaining the power supply in MMR & Mumbai area, implementation is to be carried out on priority.

In view of above, the Chief Engineer (ACI&P), MSETCL is requested provide the status of implementation of the said scheme.

Members may like to discuss.

6. Operation of Generating Units in FGMO & periodic testing from third party agencies:

As per the regulation NO. 30.3 of the MEGC, 2020, all the thermal & hydro generating units (with capacity specified in the regulation) shall be operated under free governor mode of operation (FGMO).

Further, it is mandated that the generators presently operating under restricted governor mode of operation (RGMO) shall be operated in FGMO within one year from the date of notification of these Regulations i.e. by 02.09.2020 (date on which the MEGC, 2020 was notified).

As per regulation No. 30.5 of the MEGC, 2020, periodic check-ups by the third party should be conducted at regular intervals, once in two years, through independent agencies selected by SLDC. The cost of such tests shall be recovered from the generators by the SLDC. If deemed necessary by SLDC, the test may be conducted more than once in two years.

Accordingly, MSLDC, vide letter no 354 dated 24.02.2022 has already communicated all the Generating Companies to carry out third party testing and submission of report. However, till date no update has been provided to MSLDC in this respect.

Hence, the Generating Companies are requested to provide:

- a) Details of generating units operating under RGMO
- b) Details of generating units operating under FGMO
- c) Timeline for migration from RGMO to FGMO
- d) Details of generating units not having RGMO & FGMO

Timelines for completion of third-party testing and submission of reports for all the generating units under its ownership

Members may like to discuss.

7. Status of making Kalwa Nodal centre operational for co-ordination of Tripping/Load Shedding information issued by MSLDC:

In the 4th GCC meeting held on 04.05.2022, the Chairman of GCC requested the Executive Director (Operations), MSETCL to look in to the matter and make all the Nodal Centers including Kalwa nodal Centre operational for smooth flow of information and implementation of MSLDC Control Room instructions.

MSETCL is requested to update the status.

8. Agenda from AEML:

Operation Guidelines for 220kV Reactor at Gorai EHV Sub Station.

AEML to elaborate.

9. Agenda from TPCL:

9.1 Mumbai Transmission Constraints

Embedded generation in Mumbai is always getting picked up by SLDC due to Transmission line

Following two options were constraints.

to be exercised as decided in DSM working Group Committee meeting held on 29th November 2021.

Option 1	Embedded Generation pick up is forcefully scheduled to contracted Discom	Contracted Discom are not able to optimize Power Purchase cost	Trial planned for one week, still continues after 7 months
Option 2	Sharing Transmission corridor amongs Mumbai Discoms as per CPD / NCPD	Equa opportunity for all Discoms to optimize Power Purchase cost	Option to be implemented

However, implementation of Option -1 is being continued by SLDC till date, though the same was to be continued only for a month.

With option 1, SLDC is forcefully scheduling embedded generation to Mumbai Discom's who have respective PPA and loosing of opportunity to optimize on Power Purchase cost to the consumer.

There is need of considering option -2 for picking up embedded generation in Mumbai where Transmission corridor shares can be declared as per CPD / NCPD ratios. The quantum of power allowed to be brought may be based on LTOA / MTOA / STOA as LTOA & MTOA quantum are pre-decided and STOA may be allocated based on base TCR on pro-rata basis as per constraints.

In case of Over drawl of any Discom more than its share in transmission corridor, the DISCOM need to pay to the congestion pool, a penalty charge which may be either fixed or based on Marginal generation cost and any embedded generation required to be picked up for this over drawl would be paid from congestion pool.

Hence the Generation scheduling for Mumbai Transmission constraints as per Option -1 needs be stopped. Either Option - 2 to be tried or current VSE operation as per DSM regulations to be followed.

9.2 Hydro Generation pick up by SLDC:

TATA Hydro Generation, which is contracted with BEST & TPC-D, is being picked up frequently to meet System contingencies i.e. Transmission line tripping / controlling loading of Transmission elements /State over drawl.

The real time hydro pick- up by SLDC has following effects

- 1) As this resource is limited, contracted Discom's, loose subsequent water to remain within Krishna water targets (18 Mus Hydro utilized by SLDC without any payback). In order to achieve the same, the DISCOM's need to purchase power at higher rates and thus losing the opportunity to optimize their power purchase cost. This result into end users of Discom's paying higher cost for power.
- 2) TPC D & BEST Hydro schedule is replaced by actual hydro in DSM and scheduled drawl are corrected post facto by SLDC. This result into heavy under drawl for Discom's as they are already balanced in real time (Load & Generation matching). Surplus power above volume limit is not paid back in DSM mechanism thus affecting power cost optimization by DISCOM's. Even if Hydro VSE is considered separately, the opportunity cost borne by Discom's is not compensated as maximum payback rate is Rs 3.94 PU.

9.3 Outage Management:

- a) **Approved Outage** –Multiple follow ups are required on real time while getting the outage approval even if the outage is approved in OMS portal. Contingency plans and load management confirmation though submitted on day ahead basis, are again to be communicated to SLDC prior to outage. This leads to substantial delay for the scheduled outage.
- b) **Emergency Outage** – Emergency outage requests are required to be sent through email as well as upload in OMS portal. Multiple follow ups are required to get the outage approval. This leads to delay in outage and can affect equipment under emergency.

9.4 Communication regarding Trombay thermal plant:

All communication regarding thermal generation (Scheduling / Outage Management) needs to be done with the thermal generators directly.

Members may like to discuss.

10. Agenda from MSPGCL:

10.1 Khaperkheda Unit -2 dt. 08.05.2022 @ 15:30 Hrs:

Station transformer-2 tripped and at the same time problem in its HV breaker was also noticed. It was observed that air pressure low alarm and trip circuit not healthy alarm found persisting on its breaker panel. These alarms were confirmed by generation team who visited GCR and rectification work was also undertaken by GCR team. As breaker problem was not rectified by GCR team, it was decided to charge the station transformer through TBC and it was charged at 15:30 hrs. on dt. 00.05.2022.

10.2 Khaperkheda Unit -3 dt. 11.05.2022 @ 23:03 Hrs:

Heavy jerk was observed at 210 MW Khaperkheda generating end at 23:03 Hrs. of 10.05.2022 on all the 4 units. Maximum fault current noticed at generating LV end was 18kA and due to voltage dip several 6.6 kV feeders tripped on NPS protection. The unit auxiliaries were normalized and unit stabilised. Thereafter, in Unit-3 GT B phase HV bushing heavy sparking was observed on 11.05.2022 at around 10:00 Hrs. To attend it Unit 3 was withdrawn and checked. B phase bimetallic strip in PG clamp was found fused. Same has been attended in co-ordination with MSETCL team.

10.3 Khaperkheda Unit -5 dt. 07.07.2022 @ 13:34:05 Hrs:

Unit 5 tripped due to heavy jerk occurred during 220kV line tripped from old Khaperkheda to Ambazari on dtd. 07.07.2022 from Unit 5 GCR. At 13:35:05 Hrs. voltage dip observed in grid as 220kV line from old Khaperkheda to Ambazari tripped. Due to this voltage fluctuation, both ID fan control supply failed resulting in tripping of both ID fan and subsequently TG set (Unit-5) tripped.

10.4 Khaperkheda Unit -5 dt. 15.07.2022 @ 17:26:33 Hrs:

Unit 5 tripped due to heavy jerk occurred during 400kV transmission line tripped from old Khaperkheda to Koradi on date 15.07.2022 from unit 5 GCR. At 17:26:33 Hrs. voltage dip observed in grid as 220kV line from old Khaperkheda to Koradi tripped, resulting in tripping of both ID fan. ID fan control transformer with 240/110-volt rating is provided for control circuit monitoring and control. After checking output voltage, observed 104.5 volt. Hence tap changed from 240 volt to +5% and output voltage showing 110 volts. Due to this both ID fan control supply failed resulted in tripping of both ID fan and subsequently TG set (unit 5) tripped.

10.5 Koradi Unit -10 dt. 22.05.2022 @ 21:53 Hrs:

Set withdrawn due to switchyard problem (Emergency outage on GT-10 main bay 401 & tie bay 402 for attending hotspot at jumper connection bar PAD of R phase line CT at GT#10 Hotspot attended by MSETCL and CT clamp replaced.

In view of such trippings, tremendous loss of generation occurred. Hence to avoid this, above points are submitted as an agenda point for 4th OCC meeting and further necessary action at your end, please.

MSETCL to provide comments on above issues.

11. Status of State Transmission Schemes:

Sr No	Zone	Particulars	Voltage level	FY 21-22	FY 22-23	FY 23-24	FY 24-25
1	Aurangabad	Link line	132kV	132kV Majalgaon – Pathri - SCDC 35 ckm			
2		2nd ckt stringing	132kV		Parbhani - Pathri-48km		
3		Replacement conductor	132kV		Latur - Ujani - Naldurg - Solapur DC line renovation using 0.2 ACSR Conductor -115km		
		Link line	400kV		LILO on another Ckt. Of 400kV Bhusawal 2 - Aurangabad 1 for Thaptitanda.		
4	Karad	Link line	220 kV		220kv Karad - Koyna SCDC-3.5 km		
5		Link line	132 kV	Ambheri - Aundh - 14km		Conversion of 132 kV Phaltan - Dahiwadi SCSC to DCDC line -35km	
6			132kV	LILO of one ckt of 220 kV Mhaishal - Jath line at Alkud – 46 ckt kms (GEC II) (Remaining scope of Alkud work)			
7			110kV	Kavathe M'kal -			

Sr No	Zone	Particulars	Voltage level	FY 21-22	FY 22-23	FY 23-24	FY 24-25
				Jath (GEC)- DC - 32km (commissioned)			
<u>8</u>			110kV			110kV Wathar - Kale (T) -35km	
<u>9</u>			132kV			Oglewadi-Mayani 40km	
<u>10</u>		Conversion	110kV			110 kv Mayani-Diganchi S/C TO D/C - - 45km	
<u>11</u>		ICT - Addition	400 kV		Alkud (1X500) MVA 400/220kV (Remaining Scope)		
<u>12</u>	Nasik	Substation	400kV		400kV Balsane , District-Dhule	400/220 kV Pimpalgaon District- Nashik	
<u>13</u>		Associated lines	400kV		LILO on 400kV Sardarsrovar Dhule D/C line - 36 ck	LILO 400kV A'bad PG-Boisar (PG) DC line at 400 kV Pimpalgaon -3 km	
<u>14</u>			220kV	220 kV DC line on DC towers from 220 kV Jeur s/s to 400 kV Karajat s/s- 52 kms.	220kV Balsane - Shivajinagar DC line - 36 ckm	Interconnection between 400 kV Pimpalgaon & 220 kV Pipalgaon S/s - 1 kms	
<u>15</u>			220kV	220 kV DC line on MC towers by making LILO on 220 kV Bhigwan-Kurkumb line at prop. 400 kV Karjat S/S 18 kms.		Reorientation of 220 kV Eklahre - Pimpalgaon line at 400 kV S/s - 1km	
<u>16</u>			220kV	LILO on one ckt of Nagar - 220 kV Bhose line at 400 kV Karjat s/s - 38 kms.			
<u>17</u>			220kV	220kV DC line from Pimpalgaon to GCR & ECR Eklahre - 44 km			
<u>18</u>		Link lines	132kV	132 kV SCDC line from 220 kV Ahmednagar - 132 kV Supa s/s. 25 ckm (GEC)			
<u>19</u>			132kV	LILO on 132kV Shivajinagr-Dhule at Sakri -10 ckm			

Sr No	Zone	Particulars	Voltage level	FY 21-22	FY 22-23	FY 23-24	FY 24-25
<u>20</u>		<u>HTLS</u>	132kV		Shivajinagar - Sakri - Dhule - 80km		
<u>21</u>		Conversion	132kV			Conversion of 132 kV Babbleshwar - Sangamner SCSC line into DCDC - 34km	
<u>22</u>	Pune	Substation	400 kV		400/220 kV Hinjewadi (MIDC), District- Pune		
<u>23</u>			220 kV			220/132 kV Waghdari, District Solapur	
<u>24</u>		Associated line	400kV		LILO on Lonikand I - Koyna Stage IV at Hinjewadi		
<u>25</u>			220kV			LILO on one ckts of 220 kV Solapur PG - Narangwadi DC line at 220 kV Waghdari -40km	
<u>26</u>			132kV			LILO on both ckt 132kV Wagdari Tata Renew Solar	
<u>27</u>		Link lines	400kV	LILO of Karad - Lonikand at Jejuri 1.7km			
			400kV				400 kV D/C Jejuri- Hinjewadi Line (Jejuri Wainjhar)
<u>28</u>			220kV			220kV Talegaon PG-Chakan DC 6km	
<u>29</u>			220kV			Chinchwad Apta for Talegaon (PG) - 36km	
<u>30</u>			220kV			Urse - Chinchwad -20km	
<u>31</u>			220kV			Chinchwad - Kandalgaon - 28km	
			220kV		220 kV D/C line from 400 kV PGCIL (Kumbhari) S/Stn to 220/33 kV Bale S/Stn		
<u>32</u>		2nd ckt.	220 kV		Degaon –Mandrup		

Sr No	Zone	Particulars	Voltage level	FY 21-22	FY 22-23	FY 23-24	FY 24-25
		stringing			(GEC)- 15km		
33	Vashi	Substation	400 kV				400/220kV Velgaon, District- Palghar
34		Associated Lines	400 kV	400 kV D/C Babhaleshwar- Kudus line- 200 km			LILO on Tarapur-Kudus II DC line -
35							LILO Boisar- Borivali SC - 10km
36							LILO on Dahaun- Ghodbubdr DC 10km
37							LILO Dahanu- Versova SX - 5km
38							LILO Boisar- Versova SC- 5km
39				LILO on both ckts of 400 kV Tarapur-Padghe line at Kudus- 15 km			
40			220 kV	LILO on 220 kV Tarapur-Borivali & Boisar- Ghodbunder line at Kudus - 10			
41			220kV	LILO on 220 kV Padghe-Wada & 220 kV Kolshet- Wada at 400 kV Kudus - 10 km			
42		Link Lines	400 kV			Padghe - Padghe PG DC Line-7 km	
43		HTLS	400 kV	400kV Kalwa- Padgha ckt -I- 52km	400kV Kalwa- Padgha ckt -II- 52km		
44			220 kV		Padghe-Jambhul - 20 km & Jambhul- Pal 22km		
45					Padghe-Bhiwandi D/C -18.5km		
46					Padghe - Temghar Ckt I & II- 17km		
47		Reactor	400 kV	(1 X 125 MVAR at	(1 X 125 MVAR at		

Sr No	Zone	Particulars	Voltage level	FY 21-22	FY 22-23	FY 23-24	FY 24-25
				Kalwa)	Kudus)		
48	TPC-T	Link Lines	220 kV		Trombay to Dharavi and Salsette (Interconnection with Saki) (Multi circuit) - 59 km		
<u>49</u>					Double circuit 220 kV lines from Tata Waghivli S/S to MSETCL's Waghivli S/S		
<u>50</u>					220 kV Kalwa - Salsette line # 5-10 km		
<u>51</u>		Reactor	220 kV		Installation of 220 kV, 125 MVAR reactor at Salsette.		

MSETCL and TPCL to update status.

11. Long time outage on 110 kV Karanjade - Mankhurd and 110kV Karanjade – Chembur lines for construction of 400kV D/C and M/C Kharghar-Vikhroli transmission lines.:

On 21.08.2022, 110 kV Waghivali - Mankhurd and 110kV Waghivali - Chembur was charged without informing SLDC, inspite of an order was issued vide L.no. 54 dtd. 10.01.2022 for long outage permission for construction of 400kV D/C and M/C Kharghar-Vikhroli transmission lines. As these lines are in hydro black start path, SLDC should be aware of availability of these lines. This matter is already discussed with TPCL.

TPCL to justify the action.

3.0 - System Disturbance in the Maharashtra Network for the period April 22 to July 22.

Sr. no.	SUB-STATION	LINE/EQPT/ BUS AFFECTED	DATE OF TRIPPING	TIME (hrs)	Sync Hrs.	EQUIP. FAILURE	LOAD/GEN. AFFECTED (approx.)	REASONS OF FAILURE
1	220KV Jalna	132KV Jalna-Jalna MIDC	04.04.2022	16:31	16:38 hrs	NIL	114MW of jalna MIDC	Tripping of 220/132KV Nagewadi 150MVA ICT , causing LTS operation and tripping of 132KV Kanaya nagar ckt.
2	400KV Padghe	All lines , ICTs connected to Bus 1 and Bus 2	26.04.2022	10:09	11:20	Flashover on support insulator Auxiliary bus R ph Isolator of 400KV HVDC 2 bay	3110 MW	Flashover on support insulator Auxiliary bus R ph Isolator of 400KV HVDC 2 bay
3	220KV Padegaon	132KV Bus alongwith ICTs	03.05.2022	00:35 hrs	01:28	132 KV WALUJ CKT 1 Y PH CT BURST	LOAD ABOUT 91 MW AFFECTED FROM 00:35 HRS TO 01:28 HRS.	132 KV WALUJ CKT 1 Y PH CT BURST AND 132 KV BUS BAR PROT. OPTD
4	400KV Kharghar	400KV Talegaon PG-Kharghar line	05.05.2022	06:19	Line charged on 16:34	Nil	To control line loading of 400KV Kalwa -Talegaon PG aroud 750MW load curtailed of MMR to the tune of 290MW	At Loc.No.31 in Khandala Area suspension insulator string decapped.
5	132KV Waluj MIDC ss	All elements connector to 132KV Bus	10.05.2022	19:10	19:45	B PH CT of 132KV Waluj padegaon line	96MW	B PH CT of 132KV Waluj Padegaon line burst.
6	132KV Kanhan	All elements to 132KV kanhan	10.05.2022	23:02	03:33	NIL	approx. 300MW of Bhandara, Besa, Pardi, Mauda, Mansar	220 kV Khaparkheda-Kanhan line tripped due to snapped conductor. Subsequently, 220 kV Kanhan-Suryalaxmi tripped on overload at 23:35 hrs/10.05.2022 due to which Kanhan Substation went into dark.

3.0 - System Disturbance in the Maharashtra Network for the period April 22 to July 22.

Sr. no. 8	SUB-STATION	LINE/EQPT/ BUS AFFECTED	DATE OF TRIPPING	TIME (hrs)	Sync Hrs.	EQUIP. FAILURE	LOAD/GEN. AFFECTED (approx.)	REASONS OF FAILURE
7	400/220KV Padgha	All Lines & ICTs connected to 220KV A-Bus section-1 and 220 KV B-Bus section-3 along with Bus Coupler tripped.	19.06.22	13:08	14:06	NIL	499MW	De-capping of stub bus suspension string of Y-ph above 50 MVA 220/22 KV BHEL T/F Bay at 220 KV substation Padghe.
8	400KV Jejuri	400KV Lonikand-Jejuri line tripped	22.06.22	13:20	14:46	NIL	320.92 MW	400kV Lonikand-Jejuri line tripped while OPGW work was being carried out, for which Auto-Reclosure was taken out of service. Hence LTS stage-I,II&III operated on 400kV Jejuri-Koyna St-IV line.
9	220 KV KAWLEWADA	AT 09:31 HRS 220 KV BUSBAR OPTD. ALL 220 KV FEEDERS ALONG WITH 220/132 KV ICTS AND 220/33 KV 25 MVA TF I & II TRIPPED.	18.07.22	09:31 HRS	12:46	220 KV B PH BUS PT BURST AND	LOAD ABOUT 06 MW AFFECTED FROM 09:31 HRS TO 10:45 HRS.	220 KV B PH BUS PT BURST.
10	400KV Kalwa	400KV Kalwa-Padghe ckt 2	20.07.22	10:19	Load restored in 20Min	NIL	approx. 177 MW of MMR region to control loading on 400KV Kalwa-Padghe ckt. 1	R-phase conductor broken near dead end at Location No. 1046.
11	400KV Jejuri	220KV Lonikand -Theur ckt 1 and 2	21.07.22	15:38	16:50	NIL	186MW	Due to tripping of 220KV Lonikand -Theur ckt. 1 and 2 LTS operated on 400KV Jejuri-Koyna 4 line (400KV Jejuri-Lonikand under planned outage).

3.1 - Status of Reactors

Sr. No	Name of Substation	Capacity (MVA)	Status
1	400kV Nanded	1 x 125	LOA issued 21.11.19. Work completed – Civil 93% Electrical 80%
2	400kV Akola	1 x 125	LOA issued 06.12.19. Work completed – Civil 63% Electrical 66%
Commissioned			
1	400kV <u>Karad</u>	1 x 125	26.10.2017
2	400kV Kolhapur	1 x 125	07.02.2018
3	400kV Solapur	1 x 125	20.03.2018
4	400kV Chandrapur II	1 x 125	31.03.2021
5	400kV Dhule	1 x 125	07.04.2021
6	400kV <u>Bhusawal II</u>	1 x 125	03.08.2021
7	400kV <u>Lonikand II</u>	1 x 125	10.08.2021
8	400kV <u>Khaperkheda</u>	1 x 125	10.09.2021
9	400kV <u>Koradi II</u>	1 x 125	14.07.2022

3.2 - Status of State Transmission Schemes

Sr. No.	Name of the Scheme	CoD	Status
1	400 kV Bableshwar -Kudus D/C (Quad)	Mar 23	Package 1 Foundations - 205/227 Erection - 177/227 Stringing - 4.32 /150 Ckt km. Package 2 Foundations - 451/489 Erection - 418/489 Stringing - 187/305 Ckt km
2	400 kV D/C <u>Jejuri-Hinjewadi Line (Jejuri Wainihar)</u> Package-1.	2024-25	Foundations - 204/277 Erection - 187/277 Stringing - 69.5/195 ckt km
3	400 kV D/C <u>Jejuri-Hinjewadi Line (Jejuri Wainihar)</u> Package-2.		Balance work estimation is in progress.
4	LILO on another Ckt. Of 400kV <u>Bhusawal 2 - Aurangabad 1</u> for <u>Thaptitanda</u> .	Mar-23	50% work done approx. and for balance work LOA issued to new agency by C.O. Package 1 Foundations - 241/273 Erection - 228/273 Stringing - 126/176 Ckt km. Package 2 Foundations - 29/32 Erection - 16/45 Stringing - 0/50 Ckt km

3.3 - Status of MMR and Mumbai Transmission Schemes

Sr. No	Name of the Scheme	CoD	Status
1	220 kV Kalwa Trombay HTLS conversion	-	Work completed on 21.04.2022.
2	220 kV Mulund Trombay HTLS conversion	-	Work completed on 18.04.2022
3	220 kV <u>Boisar PG - Boisar (M)</u> D/C HTLS conversion (Tr. O&M)	-	Work completed on: 220 kV <u>Boisar PG - Boisar (M)</u> – 2 : 27.12.2021 220 kV <u>Boisar PG - Boisar (M)</u> – 1 : 30.05.2022
4	LILO of 220 kV Boisar – Ghodbunder & Tarapur – Borivali at Kudus. (Twin AAAC) - 10 km	Mar-23	Foundations: - 106/117 Erection: - 80/117 Stringing: - 0 / 116 KM. WIP
5	100-120 MVAR Reactor at 220 kV Gorai EHV S/s (New)	-	Commissioned on 27.03.2022
6	Installation at 220 kV, 2x 40 MVAR reactor at Karanjade	-	Commissioned on 21.02.2022
7	Installation at 110 kV, 2x10 MVAR reactor at Karanjade	-	Commissioned on 29.03.2022 and 31.03.2022
8	Installation of 220 kV, 125 MVAR reactor at Salsette	Feb.-23	Purchase Order placed.