

**List of Important
&
Non-important grid elements
in Maharashtra State for
FY 2025-26
(As on 31.05.2025)**

Category	ID.NO.	APPROVAL
SLDC	1	
RLDC	2	WRPC OCC

Break up of Maharashtra State Elements / Outage

Category	ID.NO.	APPROVAL	765 KV	HVDC	400 KV Lines	220 KV & below	765/400 KV ICTs	400/220/132 KV ICTs	400kV & Above Bus reactor	220kV Bus Reactor	TOTAL
SLDC	1		0	0	57	12	0	84	24	6	183
RLDC	2	WRPC OCC	6	3	75	42	6	2	7	0	141
TOTAL			6	3	132	54	6	86	31	6	324

Important Points Regarding Outage Code as on 31.05.2025

Sr.no	Element	Type of outage	Category (ID.NO.)
1	765 KV Bus	Complete out	2
2	400 KV Bus	Complete out	2
3	400 KV Aux,Bus	Complete out	1
4	400 KV Line	Complete out	As per list
5	400 /220 /132 KV ICT	Complete out	As per list
6	400 KV Line/ICT *	ON TBC	1 or 2
7	400 KV Line/ICT #	Tie or Own bkr out	1 or 2
8	400 KV Bus Coupler	Out	2
9	765 KV Tie Breaker	Out	2
10	400 KV Tie Breaker #	Out	1 or 2
11	765 /400 KV Bus bar Protection	Out	2
12	765 KV Station Transformer	Out	2
13	400 KV Station Transformer	Out	1
14	400 /220 KV Line PID*	A/R bypass	1 or 2
15	400/220 KV Line OPGW*	A/R bypass	1 or 2
16	400 /220 KV Line PID D/C	A/R bypass	2
17	400 /220 KV Line PID D/C	A/R bypass	2
18	765 KV Line reactor (Swichable)	Out	2
19	400 KV Line reactor (Swichable)	Out	1
20	765 KV Line reactor (Non Swichable)	Out	2
21	400 KV Line reactor (Non Swichable)	Out	1
22	765 KV Bus reactor	Out	2
23	400 KV Bus reactor	Out	As per list
24	765/400 KV Spare ICT	Out	2
25	400 KV On line testing*	Out	1 or 2
26	HVDC Filters @ Chandrapur & Padghe	Out	2

Note:-

- 1) * It is depending on the line under the category 1 or 2 as per the list.
- 2) # In case of Main & Tie breaker, if category 2 line is in the same or opposite Dia, then WRLDC permission is needed. And if Category 1 line in same or both Dia, then only SLDC permission is required.
- 3) All long outages for state element under the category 1 as per the list more than 2 days (48 hrs) , WRLDC permission is required.

List of Important Grid Elements in Maharashtra finalized as on 31.05.2025

1. Transmission Lines

C. List of 400 kV Lines

SI No	Category (ID.NO.)	End-1	End-2	Ckt No.	Line Owner	End-1 Owner	End-2 Owner	Km	Conductor Type	SIL (Uncompensated) (MW)	End 1 LR (Mvar)	End 2 LR (Mvar)
1	2	Tiroda	Koradi 3	1	MEGPTCL	MEGPTCL	MEGPTCL	138	Quad Bermisis	2250	240	240
2	2	Tiroda	Koradi 3	2	MEGPTCL	MEGPTCL	MEGPTCL	138	Quad Bermisis	2250	240	240
3	2	Akola 2	Koradi 3	1	MEGPTCL	MEGPTCL	MEGPTCL	222	Quad Bermisis	2250	240	240
4	2	Akola 2	Koradi 3	2	MEGPTCL	MEGPTCL	MEGPTCL	222	Quad Bermisis	2250	240	240
5	2	Akola 2	Ektuni	1	MEGPTCL	MEGPTCL	MSETCL	220	Quad Bermisis	2250	240	240
6	2	Akola 2	Ektuni	2	MEGPTCL	MEGPTCL	MSETCL	220	Quad Bermisis	2250	240	240

Category	ID.NO.	APPROVAL	NO.
SLDC	1		0
RLDC	2	WRPC OCC	6
		TOTAL	6

List of Important Grid Elements in Maharashtra finalized as on 31.05.2025

4. HVDC System

B. HVDC Bipole

Sl. No.	Category (ID.NO.)	Details of HVDC bipole	No of circuits	Capacity	Km	Maintained by	End-1	End-2
1	2	Chandrapur-Padghe HVDC	Pole-1	750	752	MSETCL	MSETCL	MSETCL
2	2	Chandrapur-Padghe HVDC	Pole-2	750	752	MSETCL	MSETCL	MSETCL
3	2	Chandrapur-Padghe HVDC	Bipole	1500	752	MSETCL	MSETCL	MSETCL

Category	ID.NO.	APPROVAL	NO.
SLDC	1		0
RLDC	2	WRPC OCC	3
		TOTAL	3

List of Important Grid Elements in Maharashtra finalized as on 31.05.2025

1. Transmission Lines

C. List of 400 kV Lines

Sl No	Category (ID.NO.)	End-1	End-2	Ckt No.	Line Owner	End-1 Owner	End-2 Owner	Km	Conductor Type	SIL (Uncompensated) (MW)	End 1 LR (Mvar)	End 2 LR (Mvar)
1	1	Aurangabad- M(Waluj)	Taptithanda	1	MSETCL	MSETCL	MSETCL	135	Twin ACSR Moose	515	---	---
2	1	Aurangabad- M(Waluj)	Deepnagar	2	MSETCL	MSETCL	MSETCL	185	Twin ACSR Moose	515	---	---
3	1	Aurangabad- M(Waluj)	Bableshwar	1	MSETCL	MSETCL	MSETCL	131	Twin ACSR Moose	515	---	---
4	1	Bableshwar	IB-Nasik	1	MSETCL	MSETCL	Ratan India	56.76	Quad ACSR Moose	687	---	---
5	1	Bableshwar	IB-Nasik	2	MSETCL	MSETCL	Ratan India	56.76	Quad ACSR Moose	687	---	---
6	1	Bhusawal (Khadka)	Aurangabad-M(Waluj)	1	MSETCL	MSETCL	MSETCL	238	Twin ACSR Moose	515	---	50
7	1	Bhusawal (Khadka)	Deepnagar	1	MSETCL	MSETCL	MSETCL	15	Twin ACSR Moose	515	---	---
8	1	Bhusawal (Khadka)	Deepnagar	2	MSETCL	MSETCL	MSETCL	15	Twin ACSR Moose	515	---	---
9	1	Bhusawal (Khadka)	Akola	1	MSETCL	MSETCL	MSETCL	182	Twin ACSR Moose	515	50	---
10	1	Bhusawal (Khadka)	Bableshwar	1	MSETCL	MSETCL	MSETCL	220	Twin ACSR Moose	515	---	---
11	1	Chandrapur	Khaparkheda	1	MSETCL	MSETCL	MSETCL	156	Twin ACSR Moose	515	---	---
12	1	Chandrapur Switching	Chandrapur- II	1	MSETCL	MSETCL	MSETCL	2.21	Quad AAAC Moose	687	---	---
13	1	Chandrapur Switching	Chandrapur- II	2	MSETCL	MSETCL	MSETCL	2.3	Quad AAAC Moose	687	---	---
14	1	Chandrapur- GCR	Chandrapur- II	1	MSETCL	MSETCL	MSETCL	1.2	HTLS 2100MVA Thermal loading	515	---	---
15	1	Chandrapur- GCR	Chandrapur- II	2	MSETCL	MSETCL	MSETCL	1.2	HTLS 2100MVA Thermal loading	515	---	---
16	1	Dhule-MS	Bableshwar	1	MSETCL	MSETCL	MSETCL	170	Twin ACSR Moose	515	---	---
17	1	Dhule-MS	Bableshwar	2	MSETCL	MSETCL	MSETCL	170	Twin ACSR Moose	515	---	---
18	1	IEPL	Warora	1	WRTS-1	IEPL	MSETCL	150	QUAD ACSR MOOSE	687	---	---
19	1	IEPL	Koradi-II	2	WRTS-1	IEPL	MSETCL	95	QUAD ACSR MOOSE	687	---	---
20	1	Jaigad	New koyna	1	MSETCL	JAIGAD- IPP	MSETCL	54.75	QUAD ACSR MOOSE	687	---	---
21	1	Jaigad	New koyna	2	MSETCL	JAIGAD- IPP	MSETCL	54.75	QUAD ACSR MOOSE	687	---	---
22	1	Karad	Kolhapur	1	MSETCL	MSETCL	MSETCL	105	Twin ACSR Moose	515	---	---
23	1	Karad	Kolhapur	2	MSETCL	MSETCL	MSETCL	105	Twin ACSR Moose	515	---	---
24	1	Karad	Jaigad	1	MSETCL	MSETCL	JAIGAD- IPP	111	QUAD ACSR MOOSE	687	---	---
25	1	Karad	Jaigad	2	MSETCL	MSETCL	JAIGAD- IPP	111	QUAD ACSR MOOSE	687	---	---
26	1	Karad	New Koyna	1	MSETCL	MSETCL	MSETCL	72	Twin ACSR Moose	515	---	---
27	1	Karad	New Koyna	2	MSETCL	MSETCL	MSETCL	72	Twin ACSR Moose	515	---	---
28	1	Jejuri	Koyna stage- IV	1	MSETCL	MSETCL	MSETCL	171.5	Twin ACSR Moose	515	---	---
29	1	Lonikand	Koyna stage- IV	1	MSETCL	MSETCL	MSETCL	183	Twin ACSR Moose	515	---	---
30	1	Lonikand	Jejuri	1	MSETCL	MSETCL	MSETCL	49.99	Twin ACSR Moose	515	---	---
31	1	Lonikand	Jejuri	2	MSETCL	MSETCL	MSETCL	48	Twin ACSR Moose	515	---	---
32	1	Koradi	Khaparkheda	1	MSETCL	MSETCL	MSETCL	10	Twin ACSR Moose	515	---	---
33	1	Koradi	Khaparkheda	2	MSETCL	MSETCL	MSETCL	10	Twin ACSR Moose	515	---	---
34	1	Koyna stage- IV	Lonikhand	1	MSETCL	MSETCL	MSETCL	183	Twin ACSR Moose	515	---	---
35	1	Koyna stage- IV	New Koyna	1	MSETCL	MSETCL	MSETCL	14	Twin ACSR Moose	515	---	---
36	1	Koyna stage- IV	New Koyna	2	MSETCL	MSETCL	MSETCL	14	Twin ACSR Moose	515	---	---
37	1	Nandgaonpeth	Koradi	1	MSETCL	MSETCL	MSETCL	140	Twin ACSR Moose	515	---	---
38	1	Padghe	Nagothane	1	MSETCL	MSETCL	MSETCL	116	Twin ACSR Moose	515	---	---
39	1	Padghe	Nagothane	2	MSETCL	MSETCL	MSETCL	116	Twin ACSR Moose	515	---	---
40	1	Taptithanda	Deepnagar	1	MSETCL	MSETCL	MSETCL	203	Twin ACSR Moose	515	---	---
41	1	Akola-M	Akola(2)	1	MEGPTCL	MSETCL	MEGPTCL	30	QUAD ACSR MOOSE	687	---	---
42	1	Akola-M	Akola(2)	2	MEGPTCL	MSETCL	MEGPTCL	30	QUAD ACSR MOOSE	687	---	---
43	1	Akola(2)	Nandgaon peth	1	MEGPTL	MEGPTL	Ratan India	104	Quad ACSR Moose	687	---	---
44	1	Akola(2)	Nandgaon peth	2	MEGPTL	MEGPTL	Ratan India	104	Quad ACSR Moose	687	---	---
45	1	Akola-M	Nandgaon peth	1	MSETCL	MSETCL	Ratan India	117	Twin ACSR Moose	515	---	---

SI No	Category (ID.NO.)	End-1	End-2	Ckt No.	Line Owner	End-1 Owner	End-2 Owner	Km	Conductor Type	SIL (Uncompensated) (MW)	End 1 LR (Mvar)	End 2 LR (Mvar)
46	1	Koradi	Bhusawal (Khadka)	2	MSETCL	MSETCL	MSETCL	343	Twin ACSR Moose	515	50	50
47	1	Lonikhand-II	Lonikand	1	MSETCL	MSETCL	MSETCL	1	Twin ACSR Moose	515	---	---
48	1	Lonikhand-II	Lonikand	2	MSETCL	MSETCL	MSETCL	1	Twin ACSR Moose	515	---	---
49	1	Chandrapur	Parli-M	3	MSETCL	MSETCL	MSETCL	371	Twin ACSR Moose	515	50	50
50	1	Chandrapur- II	Nanded	1	MSETCL	MSETCL	MSETCL	257.4	Twin ACSR Moose	515	50	---
51	1	Chandrapur- II	Nanded	2	MSETCL	MSETCL	MSETCL	257.4	Twin ACSR Moose	515	50	---
52	1	Parli-M	Nanded	1	MSETCL	MSETCL	MSETCL	162.84	Twin ACSR Moose	515	50	---
53	1	Parli-M	Nanded	2	MSETCL	MSETCL	MSETCL	162.84	Twin ACSR Moose	515	50	---
54	1	HVDC Chandrapur -ChprGCR	Tie-1	1	MSETCL	MSETCL	MSETCL	0.1	Quad Bermisis	687		
55	1	HVDC Chandrapur -ChprGCR	Tie-2	2	MSETCL	MSETCL	MSETCL	0.1	Quad Bermisis	687		
56	1	HVDC Padge-Padghe GCR	Tie-1	1	MSETCL	MSETCL	MSETCL	0.176	Quad ACSRMoose	687		
57	1	HVDC Padge-Padghe GCR	Tie-2	2	MSETCL	MSETCL	MSETCL	0.176	Quad ACSRMoose	687		
58	2	Akola	Aurangabad-PG	1	WRTS-1	MSETCL	WRTS-1	294	Twin ACSR Moose	515	50	50
59	2	Akola	Aurangabad-PG	2	WRTS-1	MSETCL	WRTS-1	294	Twin ACSR Moose	515	50	50
60	2	Alkud	Solapur-PG	1	WRTM	MSETCL	WRTS-1	176	Twin ACSR Moose	515	---	50
61	2	Aurangabad- M(Waluj)	Pune- PG(Shikrapur)	1	WTPL	MSETCL	WRTS-1	223	Twin ACSR Moose	515	---	50
62	2	Aurangabad- M(Waluj)	Pune- PG(Shikrapur)	2	WTPL	MSETCL	WRTS-1	223	Twin ACSR Moose	515	---	50
63	2	Aurangabad- M(Waluj)	Aurangabad-PG	1	WRTS-1	MSETCL	WRTS-1	54	Quad ACSRMoose	687	---	---
64	2	Aurangabad- M(Waluj)	Aurangabad-PG	2	WRTS-1	MSETCL	WRTS-1	54	Quad ACSRMoose	687	---	---
65	2	Bableshwar	Padghe	1	MSETCL	MSETCL	MSETCL	174	Twin ACSR Moose	515	---	---
66	2	Bableshwar	Padghe	2	MSETCL	MSETCL	MSETCL	174	Twin ACSR Moose	515	---	---
67	2	Chandrapur	Bhadrawati	1	WRTS-1	MSETCL	WRTS-1	22.42	Twin ACSR Moose	515		
68	2	Chandrapur	Bhadrawati	2	WRTS-1	MSETCL	WRTS-1	22.42	Twin ACSR Moose	515		
69	2	Chandrapur	Bhadrawati	3	WRTS-1	MSETCL	WRTS-1	22.42	Twin ACSR Moose	515		
70	2	Chandrapur	Bhadrawati	4	WRTS-1	MSETCL	WRTS-1	22.42	Twin ACSR Moose	515		
71	2	Chandrapur- II	Dhariwal	1	MSETCL	MSETCL	Dhariwal Infra	8	Twin ACSR Moose	515	---	---
72	2	Chandrapur- II	Dhariwal	2	MSETCL	MSETCL	Dhariwal Infra	8	Twin ACSR Moose	515	---	---
73	2	Chakan	Pune-PG	1	MSETCL	MSETCL	WRTS-1	18	Twin ACSR Moose	515		
74	2	Dhule-BDTCL	Dhule-MS	1	BDTCL	BDTCL	MSETCL	18	Quad ACSR Moose	687		
75	2	Dhule-BDTCL	Dhule-MS	2	BDTCL	BDTCL	MSETCL	18	Quad ACSR Moose	687		
76	2	Ektuni (Aurangabad(3))	Bableshwar	1	MSETCL	MSETCL	MSETCL	132	Quad ACSR Moose	687		
77	2	Ektuni (Aurangabad(3))	Bableshwar	2	MSETCL	MSETCL	MSETCL	132	Quad ACSR Moose	687		
78	2	Kudus	Kala	1	WRTS-2	MSETCL	WRTS-2	83.41	Twin ACSR Moose	515		
79	2	Kudus	Kala	2	WRTS-2	MSETCL	WRTS-2	83.41	Twin ACSR Moose	515		
80	2	Kudus	Padgha (GIS)	1	WRTS-1	MSETCL	WRTS-1	17	Quad ACSR Moose	687		
81	2	Kudus	Padgha (GIS)	2	WRTS-1	MSETCL	WRTS-1	17	Quad ACSR Moose	687		
82	2	Kalwa	Padghe	1	MSETCL	MSETCL	MSETCL	52	Twin ACSR Moose	515		
83	2	Kalwa	Padghe	2	MSETCL	MSETCL	MSETCL	52	Twin ACSR Moose	515		
84	2	Kalwa	Kharghar	1	MSETCL	MSETCL	MSETCL	28	Twin ACSR Moose	515		
85	2	Karad	Solapur-PG	1	MSETCL	MSETCL	MSETCL	299.5	TWIN ACSR MOOSE	515	80	
86	2	Karad	Jejuri	1	MSETCL	MSETCL	MSETCL	136.18	TWIN ACSR MOOSE	515		
87	2	Karjat	Lonikhand-II	1	MSETCL	MSETCL	MSETCL	85.4	Twin ACSR Moose	515		50
88	2	Karjat	Lonikhand-II	2	MSETCL	MSETCL	MSETCL	85.4	Twin ACSR Moose	515		50
89	2	Karad	Jejuri	1	MSETCL	MSETCL	MSETCL	136	Twin ACSR Moose	515		
90	2	Khandwa	Dhule-MS	1	WRTS-2	WRTS-2	MSETCL	261.78	Twin ACSR Moose	515	50	50
91	2	Khandwa	Dhule-MS	2	WRTS-2	WRTS-2	MSETCL	261.78	Twin ACSR Moose	515	50	50
92	2	Kharghar	Pune-PG	1	MSETCL/ WTPL	MSETCL	MSETCL	93	Twin ACSR Moose	515		
93	2	Kharghar	Padghe GIS	1	MUML	MSETCL	WRTS-1	70.942	AAAC Quad Moose	687		
94	2	Kharghar	Vikhroli	1	KVTL	MSETCL	KVTL	21.7	HTLS 2100MVA Thermal loading	687		

SI No	Category (ID.NO.)	End-1	End-2	Ckt No.	Line Owner	End-1 Owner	End-2 Owner	Km	Conductor Type	SIL (Uncompensated) (MW)	End 1 LR (Mvar)	End 2 LR (Mvar)
95	2	Kalwa	Vikhroli	1	KVTL	MSETCL	KVTL	14	Twin ACSR Moose	515		
96	2	Kolhapur	Kolhapur-PG	1	WRTS-1	MSETCL	WRTS-1	50	HTLS 2100MVA Thermal loading	687		
97	2	Kolhapur	Kolhapur-PG	2	WRTS-1	MSETCL	WRTS-1	50	HTLS 2100MVA Thermal loading	687		
98	2	Kolhapur	Alkud	1	MSETCL/ WTPL	MSETCL	MSETCL	68.75	Twin ACSR Moose	515		
99	2	Kolhapur	Solapur-PG	2	WTPL	MSETCL	WRTS-1	216	Twin ACSR Moose	515		50
100	2	Koradi	Satpura	1	WRTS-1	MSETCL	MPPGCL	149	Twin ACSR Moose	515		50
101	2	Koradi	Bhilai	1	WRTS-1	MSETCL	CSPTCL	272	Twin ACSR Moose	515		50
102	2	Koradi-II	Koradi-III	1	MSETCL	MSETCL	MEGPTCL	37.87	Quad ACSR Moose	687		
103	2	Koradi-II	Koradi-III	2	MSETCL	MSETCL	MEGPTCL	39	Quad ACSR Moose	687		
104	2	Lonikand	Chakan	1	MSETCL	MSETCL	MSETCL	37	Twin ACSR Moose	515		
105	2	Lonikand	Pune-PG	1	MSETCL	MSETCL	WRTS-1	46	Twin ACSR Moose	515		
106	2	Padghe	Boisar-PG	1	WRTS-2	MSETCL	WRTS-2	101	Twin ACSR Moose	515		
107	2	Parli-M	Karjat	1	MSETCL	MSETCL	MSETCL	216.47	Twin ACSR Moose	515	50	
108	2	Parli-M	Karjat	2	MSETCL	MSETCL	MSETCL	214.68	Twin ACSR Moose	515	50	
109	2	Parli-M	Solapur-M	1	MSETCL	MSETCL	MSETCL	182.86	Twin ACSR Moose	515	50	
110	2	Parli-M	Parli-New (PG)	1	PPTL Powergrid	MSETCL	PPTL Powergrid	23.3	Quad ACSR Moose	687		
111	2	Parli-M	Parli-New (PG)	2	PPTL Powergrid	MSETCL	PPTL Powergrid	23.3	Quad ACSR Moose	687		
112	2	RGPPL	New Koyna	1	MSETCL	RGPPL	MSETCL	60	Quad ACSR Moose	687		
113	2	RGPPL	New Koyna	2	MSETCL	RGPPL	MSETCL	60	Quad ACSR Moose	687		
114	2	RGPPL	Nagothane	1	MSETCL	RGPPL	MSETCL	136	Quad ACSR Moose	687		
115	2	RGPPL	Nagothane	2	MSETCL	RGPPL	MSETCL	136	Quad ACSR Moose	687		
116	2	SSP	Dhule-MS	1	MSETCL	SSNNL	MSETCL	236	Twin ACSR Moose	515	50	
117	2	SSP	Dhule-MS	2	MSETCL	SSNNL	MSETCL	236	Twin ACSR Moose	515	50	
118	2	Solapur	Solapur (PG)	1	MSETCL	MSETCL	WRTS-1	178	Twin ACSR Moose	515		
119	2	Tarapur-3&4	Padghe	1	WRTS-1	NPCL	MSETCL	91.12	Twin ACSR Moose	515		
120	2	Tarapur-3&4	Padghe	2	WRTS-1	NPCL	MSETCL	91.12	Twin ACSR Moose	515		
121	2	Tiroda	Warora	1	ATIL	APML	MSETCL	219	Quad ACSR Moose	687		
122	2	Tiroda	Warora	2	ATIL	APML	MSETCL	219	Quad ACSR Moose	687		
123	2	Taptithanda	Ektuni (Aurangabad(3))	1	MSETCL	MSETCL	MSETCL	4.9	Quad ACSR Moose	687		
124	2	Taptithanda	Ektuni (Aurangabad(3))	2	MSETCL	MSETCL	MSETCL	4.9	Quad ACSR Moose	687		
125	2	Vikhroli	Navi Mumbai (PG)	1	MUML	KVTL	WRTS-1	61.341	AAAC Quad Moose	687		
126	2	Vikhroli	Pune-PG	1	KVTL	KVTL	WRTS-1	110	Twin ACSR Moose Conductor	515		
127	2	Wardha-PG	Akola	1	WRTS-1	WRTS-1	MSETCL	161.87	Twin ACSR Moose	515		
128	2	Wardha-PG	Akola	2	WRTS-1	WRTS-1	WRTS-1	161.87	Twin ACSR Moose	515		
129	2	Wardha-PG	Koradi-II	1	WRTS-1	WRTS-1	MSETCL	120	Quad ACSR Moose	687		
130	2	Warora-PG	Warora	1	MSETCL/WRTS-1	PWTL Powergrid	MSETCL	130	Quad ACSR Moose	687		
131	2	Warora	Chandrapur- II	1	MSETCL	MSETCL	MSETCL	45	Quad ACSR Moose	687		
132	2	Warora	Chandrapur- II	2	MSETCL	MSETCL	MSETCL	45	Quad ACSR Moose	687		

Category	ID.NO.	APPROVAL	NO.
SLDC	1		57
RLDC	2	WRPC OCC	75
		TOTAL	132

List of Important Grid Elements in Maharashtra finalized as on 31.05.2025

D. List of Important 220 kV lines

SI No	Category (ID.NO.)	End-1	End-2	Ckt.no	Line Owner	Length(in Km)	Conductor Type
1	2	Apta	Navi Mumbai (PG)	1	MUML	16	0.35 ACSR Sheep
2	2	Apta	Navi Mumbai (PG)	2	MUML	16	0.35 ACSR Sheep
3	2	Taloja	Navi Mumbai (PG)	1	MUML	13	0.35 ACSR Sheep
4	2	Print House	Navi Mumbai (PG)	1	MUML	22	0.35 ACSR Sheep
5	2	Aurangabad-PG	Chitegoan	1	MSETCL	44	Single Zebra
6	2	Aurangabad-PG	Chitegoan	2	MSETCL	44	Single Zebra
7	2	Aurangabad-PG	Shendra	1	MSETCL	26	Single Zebra
8	2	Aurangabad-PG	Shendra GIS	1	MSETCL	17	Single Zebra
9	2	Boisar-PG	Panchali TSS	1	MSETCL	5	0.4 ACSR ZEBRA
10	2	Boisar-PG	Boisar-M	1	MSETCL	5	Twin ACSR Zebra
11	2	Boisar-PG	Boisar-M	2	MSETCL	5	HTLS ACCC Drake Single
12	2	Boisar-PG	Boisar-M	3	MSETCL	5	525 sqMM AAAC Twin
13	2	Boisar-PG	Borivali	1	MSETCL	81	AAAC
14	2	Reliance life science GIS	Navsari	1	MSETCL	141	Single Zebra
15	2	Nasik	Navsari	2	MSETCL	171	Single Zebra
16	2	Pandurna	Kalmeshwar	1	MSETCL/MPPTCL	68	Single Zebra
17	2	Solapur-PG	Kumbari	1	MSETCL	6	Single Zebra
18	2	Solapur-PG	Kumbari	2	MSETCL	6	Single Zebra
19	2	Solapur-PG	Narangwadi	1	MSETCL	74	ACSR ZEBRA
20	2	Solapur-PG	Narangwadi	2	MSETCL	74	ACSR ZEBRA
21	2	Solapur-PG	Bale	1	MSETCL	42	ACSR ZEBRA

D. List of Important 220 kV lines

SI No	Category (ID.NO.)	End-1	End-2	Ckt.no	Line Owner	Length(in Km)	Conductor Type
22	2	Solapur-PG	Bale	2	MSETCL	42	ACSR ZEBRA
23	2	Talegaon	Pune-PG	1	MSETCL	2	Single Zebra
24	2	Talegaon	Pune-PG	2	MSETCL	2	Single Zebra
25	2	Parli	Parli -PG	1	MSETCL	22	Single Zebra
26	2	Parli	Parli -PG	2	MSETCL	33	Single Zebra
27	2	Dharashiv (Osmanabad)	Parli -PG	1	MSETCL	80	Single Zebra
28	2	Harangul	Parli -PG	1	MSETCL	51	Single Zebra
29	2	Tarapur-1&2	Boisar-M	1	MSETCL	22	Single Zebra
30	2	Tarapur-1&2	Kudus	1	MSETCL	92	AAAC 525 Sq.mm, 75 D
31	2	Wardha-PG	Wardha-M	1	MSETCL	25	Single Zebra
32	2	Wardha-PG	Badnera	1	MSETCL	95	Single Zebra
33	2	Wardha-PG	Pusad	1	MSETCL	142	Single Zebra
34	2	Wardha-PG	Bhugaon	1	MSETCL	25	Single Zebra
35	2	Wardha-PG	Yawatmal	1	MSETCL	61	Single Zebra
36	2	Wardha-PG	Yawatmal	2	MSETCL	61	Single Zebra
37	2	Kolhapur(Mudshingi)	Chikkodi	1	KPTCL/MSETCL	63	Single Zebra
38	2	Kolhapur(Talandage)	Chikkodi	1	KPTCL/MSETCL	51	Single Zebra
39	2	Mahalaxmi (Konalkatta)	Amona	1	MSETCL	28	Single Zebra
40	2	Tillari	Amona	1	MSETCL	41	Single Zebra
41	2	Talandge	Mudshingi	1	MSETCL	15	Single Zebra
42	2	Talandge	Mudshingi	2	MSETCL	15	Single Zebra
43	1	Halkarni	Tillari	1	MSETCL	26	Single Zebra

D. List of Important 220 kV lines

SI No	Category (ID.NO.)	End-1	End-2	Ckt.no	Line Owner	Length(in Km)	Conductor Type
44	1	Mahalaxmi (Konalkatta)	Halkarni	1	MSETCL	38	ZEBRA
45	1	Halkarni	Mumewadi	1	MSETCL	50	Single Zebra
46	1	Halkarni	Mumewadi	2	MSETCL	50	Single Zebra
47	1	Mumewadi	Belewadi	1	MSETCL	6	Single Zebra
48	1	Mumewadi	Hamidwada	1	MSETCL	23	Single Zebra
49	1	Belewadi	Mudshingi	1	MSETCL	55	Single Zebra
50	1	Hamidwada	Talandge	1	MSETCL	36	Single Zebra

Note:- 1) For outage on double ckt (Sr.No.41 & 42) WRLDC consent is required

2) For outage on Bus or single ckt (from sr.no.43 to 50) , only NOC of GOA is required

D. List of Important 220 kV lines

SI No	Category (ID.NO.)	End-1	End-2	Ckt.no	Line Owner	Length(in Km)	Conductor Type
List of Important 132 kV lines							
51	1	Dharni	Nepanagar	1	MSETCL	60	0.2 ACSR Panthar
52	1	Pench	Kanhan	1	MSETCL	52	Single Zebra
53	1	Pench	Mansar	2	MSETCL	32	Single Zebra
54	1	Mansar	Kanhan	1	MSETCL	21	Single Zebra

Category	ID.NO.	APPROVAL	NO.
SLDC	1		12
RLDC	2	WRPC OCC	42
		TOTAL	54

List of Important Grid Elements in Maharashtra finalized as on 31.05.2025

7. Inter Connecting Transformers (ICTs)

B. List of 765/400 kV ICTs

SI No	Category (ID.NO.)	Sub-Station	ICT No.	MVA	Voltage Ratio	Owner	Normal Tap Position	Present Tap Position
1	2	Akola(2)	1	1500	765/400	MEGPTCL	12	7
2	2	Ektuni (Aurangabad(3))	1	1500	765/400	MEGPTCL	12	12
3	2	Ektuni (Aurangabad(3))	2	1500	765/400	MEGPTCL	12	12
4	2	Koradi(III)	1	1500	765/400	MEGPTCL	12	11
5	2	Koradi(III)	2	1500	765/400	MEGPTCL	12	11
6	2	Tiroda	1	1500	765/400	APML	12	11

Category	ID.NO.	APPROVAL	NO.
SLDC	1		0
RLDC	2	WRPC OCC	6
		TOTAL	6

List of Important Grid Elements in Maharashtra finalized as on 31.05.2025

SI No	Category (ID.NO.)	Sub-Station	ICT No.	MVA	Voltage Ratio	Owner	Normal Tap Position	Present Tap Position
1	1	Alkud	1	500	400/220	MSETCL	9b	9b
2	1	Akola-M	1	315	400/220	MSETCL	9b	8
3	1	Akola-M	2	315	400/220	MSETCL	9b	8
4	1	Akola-M	3	500	400/220	MSETCL	9b	9
5	1	Aurangabad-M(Waluj)	1	315	400/220	MSETCL	9b	9
6	1	Aurangabad-M(Waluj)	2	315	400/220	MSETCL	9b	9
7	1	Aurangabad-M(Waluj)	3	500	400/220	MSETCL	9	9
8	1	Bableshwar	1	315	400/220	MSETCL	9b	9
9	1	Bableshwar	2	315	400/220	MSETCL	9b	9
10	1	Bableshwar	3	500	400/220	MSETCL	9	9
11	1	Bableshwar	4	500	400/220	MSETCL	9	9
12	1	Bableshwar	5	500	400/220	MSETCL	9	9
13	1	Bhusawal (Khadka)	1	200	400/132	MSETCL	9	9
14	1	Bhusawal (Khadka)	2	200	400/132	MSETCL	9	9
15	1	Bhusawal (Khadka)	3	315	400/220	MSETCL	9b	9
16	1	Bhusawal (Khadka)	6	315	400/220	MSETCL	9	9
17	1	Chakan	1	315	400/220	MSETCL	9b	11
18	1	Chakan	2	315	400/220	MSETCL	9b	11
19	1	Chakan	3	315	400/220	MSETCL	9b	9b
20	1	Chandrapur	1	315	400/220	MSETCL	9b	9
21	1	Chandrapur	2	315	400/220	MSETCL	9b	9
22	1	Chandrapur II	1	500	400/220	MSETCL	9b	9b

SI No	Category (ID.NO.)	Sub-Station	ICT No.	MVA	Voltage Ratio	Owner	Normal Tap Position	Present Tap Position
23	1	Chandrapur II	2	500	400/220	MSETCL	9b	9b
24	1	Deepnagar	1	500	400/220	MSETCL	9	10
25	1	Deepnagar	2	500	400/220	MSETCL	9	10
26	1	Dhule-MS	1	315	400/220	MSETCL	9b	13
27	1	Dhule-MS	2	500	400/220	MSETCL	9b	15
28	1	Dhule-MS	3	500	400/220	MSETCL	9	9
29	1	Jejuri	1	500	400/220	MSETCL	9	9
30	1	Jejuri	2	500	400/220	MSETCL	9	9
31	1	Jejuri	3	500	400/220	MSETCL	9b	9b
32	1	Kalwa	1	500	400/220	MSETCL	9b	11
33	1	Kalwa	2	600	400/220	MSETCL	9b	11
34	1	Kalwa	3	500	400/220	MSETCL	9	11
35	1	Kalwa	4	500	400/220	MSETCL	9	11
36	1	Karad	1	315	400/220	MSETCL	9b	8
37	1	Karad	2	315	400/220	MSETCL	9b	8
38	1	Karad	3	315	400/220	MSETCL	9b	8
39	1	Karjat	1	500	400/220	MSETCL	9	9
40	1	Karjat	2	500	400/220	MSETCL	9	9
41	1	Khaparkheda	1	500	400/220	MSETCL	9	7
42	1	Khaparkheda	2	500	400/220	MSETCL	9	7
43	1	Kharghar	1	315	400/220	MSETCL	9b	11
44	1	Kharghar	2	315	400/220	MSETCL	9	11

SI No	Category (ID.NO.)	Sub-Station	ICT No.	MVA	Voltage Ratio	Owner	Normal Tap Position	Present Tap Position
45	1	Kharghar	3	315	400/220	MSETCL	9b	11
46	1	Kharghar	4	500	400/220	MSETCL	9	9
47	1	Kolhapur	1	500	400/220	MSETCL	9b	9b
48	1	Kolhapur	2	315	400/220	MSETCL	9b	9b
49	1	Kolhapur	3	500	400/220	MSETCL	9b	9b
50	1	Koradi	1	300	400/220	MSETCL	9b	7
51	1	Koradi	2	315	400/220	MSETCL	9b	7
52	1	Koradi-II	1	500	400/220	MSETCL	9	7
53	1	Koradi-II	2	500	400/220	MSETCL	9	7
54	1	Kudus	1	500	400/220	MSETCL	9b	9b
55	1	Kudus	2	500	400/220	MSETCL	9b	9b
56	1	Lonikhand	1	315	400/220	MSETCL	9b	9
57	1	Lonikhand	2	315	400/220	MSETCL	9b	9
58	1	Lonikhand	3	315	400/220	MSETCL	9b	9
59	1	Lonikhand-II	1	500	400/220	MSETCL	9	9
60	1	Lonikhand-II	2	500	400/220	MSETCL	9	9
61	1	Nagothane	1	315	400/220	MSETCL	9b	9
62	1	Nagothane	2	315	400/220	MSETCL	9b	9
63	1	Nagothane	3	500	400/220	MSETCL	9	8

SI No	Category (ID.NO.)	Sub-Station	ICT No.	MVA	Voltage Ratio	Owner	Normal Tap Position	Present Tap Position
64	1	Nanded	1	500	400/220	MSETCL	9b	9b
65	1	Nanded	2	500	400/220	MSETCL	9b	9b
66	1	New koyna	1	315	400/220	MSETCL	9b	11
67	1	New koyna	2	315	400/220	MSETCL	9	11
68	1	New koyna	3	315	400/220	MSETCL	9	11
69	1	Padghe	1	315	400/220	MSETCL	9b	8
70	1	Padghe	2	315	400/220	MSETCL	9b	8
71	1	Padghe	3	315	400/220	MSETCL	9b	8
72	1	Padghe	4	600	400/220	MSETCL	9	8
73	1	Padgha	5	500	400/220	MSETCL	9	8
74	1	Padgha	6	500	400/220	MSETCL	9	8
75	1	Parli-M	1	315	400/220	MSETCL	9b	12
76	1	Parli-M	2	315	400/220	MSETCL	9b	12
77	1	Parli-M	3	500	400/220	MSETCL	9	12
78	1	Sholapur-M	1	500	400/220	MSETCL	9	11
79	1	Sholapur-M	2	500	400/220	MSETCL	9	11
80	1	Taptithanda	1	500	400/220	MSETCL	9	9
81	1	Taptithanda	2	500	400/220	MSETCL	9	9
82	1	Vikhroli	1	500	400/220	KVTL	9	9
83	1	Vikhroli	2	500	400/220	KVTL	9	9
84	1	Vikhroli	3	500	400/220	KVTL	9	9
85	1	Warora	1	500	400/220	MSETCL	9	9
86	1	Warora	2	500	400/220	MSETCL	9	9

SI No	Category (ID.NO.)	Sub-Station	ICT No.	MVA	Voltage Ratio	Owner	Normal Tap Position	Present Tap Position
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Category	ID.NO.	APPROVAL	NO.
SLDC	1		84
RLDC	2	WRPC OCC	2
		TOTAL	86

List of Important Grid Elements in Maharashtra finalized as on 31.05.2025

3. Bus Reactors

A. List of 765 kV Bus Reactors

Sr. No.	Category (ID.NO.)	Name of S/S	Owner	Nos of Reactor	Total MVAR
1	2	Akola(2)	MEGPTCL	3X80	240
2	2	Ektuni (Aurangabad(3))	MSETCL	3X80	240
3	2	Koradi(III)	MEGPTCL	3X80	240
4	2	Tiroda	APML	3X80	240

B. List of 400 kV Bus Reactors

S.No	Category (ID.NO.)	Substation	Owner	Nos of Reactor	Total MVAR	Rated Voltage	Remark
1	1	Akola	MSETCL	1X125	125	420	
2	1	Alkud	MSETCL	1X125	125	420	
3	1	Bableshwar	MSETCL	2x125	250	420	
4	1	Chandrapur 2	MSETCL	1x125	125	420	
5	1	Deepnagar	MSETCL	1x125	125	420	
6	1	Dhule (MS)	MSETCL	1x125	125	420	
7	1	Jaigad	JPTL	2x50	100	420	
8	1	Karjat	MSETCL	1x125	125	420	
9	1	Karad	MSETCL	1x125	205	420	
10	1	Kalwa	MSETCL	1x125	125	420	
11	1	Khaparkheda	MSETCL	1x125	125	420	
12	1	Kharghar	MSETCL	1X80	80	420	
13	1	Koradi	MSETCL	1X50	50	420	
14	1	Koradi 2	MSETCL	1X125	125	420	

S.No	Category (ID.NO.)	Substation	Owner	Nos of Reactor	Total MVAR	Rated Voltage	Remark
15	1	Lonikand - 2	MSETCL	1x125	125	420	
16	1	Nandgaonpeth	Rattan India	1x80	80	420	
17	1	Nanded	MSETCL	1x125	125	420	
18	1	Padghe	MSETCL	1X80	80	420	
19	1	Parli-M	MSETCL	1X125	125	420	
20	1	Solapur-M	MSETCL	1x125	125	420	
21	1	Tiroda	ATIL	2X80	160	420	
22	1	Vikhroli	KVTL	1X125	125	420	
23	1	Warora	MSETCL	1x125	125	420	
24	1	Taptitanda	MSETCL	1x125	125	420	
25	2	Kolhapur	MSETCL	1X125	125	420	
26	2	Dhule	Powergrid	1X80	80	420	Owner-Powergrid. Availability to be certified by WRLDC.
27	2	Kolhapur	Powergrid	1X80	80	420	

Category	ID.NO.	APPROVAL	NO.
SLDC	1		24
RLDC	2	WRPC OCC	7
		TOTAL	31

List of Important Grid Elements in Maharashtra finalized as on 31.05.2025

C. 220kV Bus Reactor

S.N	Category (ID.NO.)	Voltage Level	Substation	Owner	Nos of Reactor	Total MVAR	Remark
1	1	220kV	Karanjade	TPCL	2x40	80	
2	1	110 kV	Karanjade	TPCL	2x10	20	
3	1	220kV	Salsette	TPCL	1x125	125	
4	1	220kV	Mahalaxmi	TPCL	1x125	125	
5	1	220kV	Trombay (Tata)	TPCL	1x125	125	
6	1	220kV	Gorai	AEML	1X120	120	

Category	ID.NO.	APPROVAL	NO.
SLDC	1		6
RLDC	2	WRPC OCC	0
		TOTAL	6