

State Load Despatch Center, Airoli (MSETCL) Statement I
Daily system Report for 22/Jul/2016 FRIDAY

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSPGCL	Daily	Monthly	E) InterState Exchanges	Daily	Monthly
1) Thermal	84.197	1813.007	1) Gujrat	-0.486	-123.090
2) Hydro	5.675	148.935	2) Madhya Pradesh	15.502	274.336
3) Gas	5.943	155.849	3) Chattisgarh	8.290	151.860
Total MSPGCL	95.815	2117.791	4) Maharashtra Net	86.682	1385.695
B) 1) APML	41.956	1052.213	5) Goa (Amona)	-0.400	-14.687
2) JSWEL	21.464	440.232	6) TAPS 1&2 Injection	3.665	77.942
3) VIPL	5.846	195.504	7) RGPPL Injection	11.668	251.662
4) RPL(AMT)	0.000	3.657	8) Pench (MS)	0.022	4.720
5) WPCL	2.660	74.119	9) Pench (Excess)	-0.022	-4.720
6) Other IPP	2.422	52.796	Total	124.899	1998.998
C) 1) TPCL Thermal	13.869	322.809	a) Mumbai Schedule	20.267	442.806
2) TPCL Hydro	6.910	83.738	b) Mumbai Drawl	26.280	531.781
3) TPCL Gas	0.000	67.751	c) MSEDCL Bilateral *	33.514	582.932
4) R-INFRA Thermal	10.235	230.553	Include PX	-0.037	-141.747
D) STATE			d) Mumbai Bilateral *	20.267	442.806
1) Thermal	182.649	4184.890	Include PX	4.763	43.546
(A1+C1+C4+(B1-B6))			Include Standby	0.000	0.000
2) Hydro (A2+C2)	12.585	232.673	H) ENERGY CATERED (MUs)		
3) Gas (A3+C3)	5.943	223.600	1) MSEDCL	287.934	6224.615
4) Wind	18.644	805.322	2) Mumbai Discoms	57.294	1236.633
6) SOLAR	0.508	15.764	TOTAL STATE	345.228	7461.248
TOTAL STATE	220.329	5462.249			

* Displayed for information, not added in total.

DETAILS OF MAHARASHTRA STATE PEAK DEMAND(MW) Statement II

PARTICULARS	A. Morning Peak at 9 Hrs	B. Day Peak at 13 Hrs	C. Evening Peak at 20 Hrs	D. Night Minimum at 5 Hrs
MSPGCL Thermal	3565	3737	3617	3246
MSPGCL Hydro	698	133	745	52
MSPGCL Gas	292	140	276	289
MSPGCL Total Generation	4555	4010	4638	3587
Central Sector Receipt	5834	5466	5828	4976
WIND	594	664	651	718
CPP / IPP	3266	3249	3142	2848
SOLAR	21	64	0	0
Exchange with Mumbai	-904	-1609	-1326	-718
MSEDCL DEMAND MET	13366	11844	12933	11411
Load Shedding	0	0	0	0
MSEDCL DEMAND	13366	11844	12933	11411
TPCL GENERATION	1102	939	941	517
R-INFRA GENERATION	511	403	403	402
MUMBAI DEMAND	2517	2951	2670	1637
STATE DEMAND MET	15883	14795	15603	13048
STATE DEMAND	15883	14795	15603	13048
Frequency (Hz)	50.00	49.97	49.94	49.94

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49.2 Hz
50.12 Hz at 14:02 Hrs	49.83 Hz at 19:52 Hrs	49.98	0 % of Time(min)

Note : The report is based on Operational Data and is for statistical purpose only.

Shift Engineer

Shift Incharge

Daily and Progressive Generation,Maximum,Minimum for 22/Jul/2016

Generating unit	Generation			
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)
Koradi				
Unit 5	0.00	0.32	0	0
Unit 6	0.00	0.00	0	0
Unit 7	0.00	0.60	0	0
Unit 8	12.22	258.06	660	415
Total	12.22	258.98		
Bhusawal				
Unit 2	0.00	0.00	0	0
Unit 3	0.00	30.01	0	0
Unit 4	0.00	9.10	0	0
Unit 5	0.00	9.00	0	0
Total	0.00	48.11		
Parli				
Unit 4	0.00	0.00	0	0
Unit 5	0.00	0.00	0	0
Unit 6	0.00	0.00	0	0
Unit 7	0.00	0.00	0	0
Total	0.00	0.00		
Chandrapur				
Unit 3	4.17	81.51	190	157
Unit 4	4.14	83.75	184	160
Unit 5	7.21	179.16	335	0
Unit 6	9.36	196.00	425	355
Unit 7	8.43	156.78	388	310
Unit 8	8.80	107.59	451	278
Total	42.10	804.78		
Paras				
Unit 3	5.22	112.35	252	196
Unit 4	5.21	107.82	250	152
Total	10.43	220.17		
Khaparkheda				
Unit 1	0.00	0.00	0	0
Unit 2	0.00	19.12	0	0
Unit 3	0.00	19.82	0	0
Unit 4	0.00	28.00	0	0
Unit 5	11.18	229.11	500	400
Total	11.18	296.06		
Nasik				
Unit 3	4.16	91.03	195	165
Unit 4	0.00	0.00	0	0
Unit 5	4.09	90.49	197	163
Total	8.26	181.52		
Uran				
All Units	5.94	155.85	292	131
Total	5.94	155.85		
PENCH (MS)				
Pench (MS)	0.02	4.72	13	0

Generating unit	Generation			
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)
Total	0.02	4.72		
Koyna				
Stage 1-2	2.72	55.24	510	40
Stage 4	0.54	14.56	202	0
Stage 3	1.00	33.25	160	0
Total	4.26	103.04		
Hydro				
KDPH	0.00	0.00	0	0
VTRNA	0.00	4.12	0	0
TILLARI	0.00	7.03	0	0
BHTGR/VEER	0.00	0.00	0	0
BHIRA T.R.	0.47	8.85	80	0
RNGR+BHTSA	0.00	0.15	0	0
BHANDARDRA	0.07	8.27	4	3
ELDARY	0.00	0.00	0	0
SMLHY_PTN	0.23	0.67	10	9
GHATGHAR	0.64	16.80	250	0
Total	1.41	45.89		
Wind				
Total	18.64	805.32	0	0
Total	18.64	805.32		
CPP				
APML(Mus)	41.96	1052.21	0	0
JSWEL(Mus)	21.46	440.23	0	0
VIPL(Mus)	5.85	195.50	0	0
RPLAMT(Mus)	0.00	3.66	0	0
WPCL(Mus)	2.66	74.12	0	0
Other(Mus)	2.42	52.80	0	0
Total	74.35	1818.52		
SOLAR				
Total	0.51	15.76	0	0
Total	0.51	15.76		
Tata				
Trombay 5	8.81	205.08	486	314
Trombay 6	0.00	0.00	0	0
Trombay 7A	0.00	42.23	0	0
Trombay 7B	0.00	25.52	0	0
Trombay 8	5.06	117.73	238	199
TATA Hydro	6.91	83.74	387	0
Total	20.78	474.30		
R-INFRA				
1-2	10.24	230.55	511	401
Total	10.24	230.55		

* Infirm Power			Summary			Summary		
Particulars	Daily (Mus)	Monthly	Particulars	Daily (Mus)	Monthly (Mus)	Particulars	Daily (Mus)	Monthly (Mus)
Chandrapur 9	0.00	1.92	MSPGCL Thermal	84.20	1813.01	MSPGCL Total	95.82	2117.79
Koradi 9	0.00	0.00	MSPGCL Thml+Gas	90.14	1968.86	Koyna 1,2 & 4 Total	3.27	69.80
Koradi 10	0.00	1.46	MSPGCL Hydro	5.68	148.94	State Total	220.33	5462.25
Parli 8	0.00	0.00						

State Load Despatch Center,Airoli (MSETCL)

Hourly Load Data As on 22/Jul/2016

Annexure-2

TIME SR. NO.	MSPGCL GEN.			TOTAL	WIND	CPP / IPP	SOLAR	CS SHARE	CS RECPT	Mum. NET EXCH.	MSEDCL DEM. MET	LOAD SHEDDI NG	MSEDCL DEM. WITH LS	MUMBAI DEMAND	STATE DEMAND	FREQ. (Hz)
	THM	HY	GAS													
1	3528	53	288	3869	706	3275	0	4578	4543	-848	11545	0	11545	1911	13456	49.98
2	3588	53	277	3918	680	3258	0	4611	4404	-783	11477	0	11477	1752	13229	49.97
3	3438	57	289	3784	742	3086	0	4798	4535	-752	11395	0	11395	1673	13068	49.98
4	3284	52	290	3626	759	2899	0	4787	4896	-705	11475	0	11475	1625	13100	50.00
5	3246	52	289	3587	718	2848	0	4875	4976	-718	11411	0	11411	1637	13048	49.94
6	3371	172	278	3821	791	2996	0	4911	5346	-717	12237	0	12237	1746	13983	49.95
7	3612	531	276	4419	507	3175	2	4917	5411	-529	12985	0	12985	1924	14909	49.97
8	3647	480	288	4415	549	3282	20	5245	5523	-493	13296	0	13296	2108	15404	50.02
9	3565	698	292	4555	594	3266	21	5737	5834	-904	13366	0	13366	2517	15883	50.00
10	3560	553	275	4388	589	3291	45	5675	5885	-1136	13062	0	13062	2753	15815	49.99
11	3683	433	256	4372	632	3284	64	5932	5774	-1375	12751	0	12751	2943	15694	49.98
12	3727	181	140	4048	541	3243	83	5737	5583	-1563	11935	0	11935	2986	14921	49.96
13	3737	133	140	4010	664	3249	64	5376	5466	-1609	11844	0	11844	2951	14795	49.97
14	3559	64	131	3754	1021	3132	59	5259	5245	-1493	11718	0	11718	2799	14517	49.96
15	3367	53	155	3575	1174	2935	54	5082	5068	-1502	11304	0	11304	2808	14112	50.02
16	3353	58	154	3565	1273	2719	43	5050	4831	-1505	10926	0	10926	2809	13735	50.02
17	3266	53	174	3493	1092	2713	34	5041	5081	-1468	10945	0	10945	2775	13720	49.96
18	3294	63	264	3621	918	2713	17	4928	5155	-1435	10989	0	10989	2744	13733	49.97
19	3441	426	285	4152	759	2884	2	5273	5552	-1367	11982	0	11982	2678	14660	49.99
20	3617	745	276	4638	651	3142	0	5368	5828	-1326	12933	0	12933	2670	15603	49.94
21	3726	496	276	4498	766	3308	0	5355	5358	-1022	12908	0	12908	2566	15474	49.94
22	3717	163	286	4166	793	3354	0	5247	5071	-1002	12382	0	12382	2486	14868	49.97
23	3543	53	285	3881	826	3204	0	4909	4943	-998	11856	0	11856	2272	14128	49.98
24	3328	53	279	3660	899	3089	0	4702	4591	-1030	11209	0	11209	2161	13370	49.98
MUs	84.20	5.67	5.94	95.81	18.64	74.35	0.51	123.39	124.90	-26.28	287.93	0.00	287.93	57.29	345.23	49.98

NOTE : ALL VALUES IN MW

Mumbai Net Exch is shown with reference to MSETCL system and (-) sign indicates MSETCL periphery to Mumbai system.

State Load Despatch Center,Airoli (MSETCL) Statement-VI
Details of Generating Unit Outages/Trippings for 22/Jul/2016

Position as on 6.30 Hrs of 23/Jul/2016

Generating Company	Name of Generating Unit	Capacity	Tripped Date	Tripped Time	Sync.Date	Sync. Time	Reason of Outage	Expected Date
PLANNED OUTAGE								
TPC-G	Trombay 6	500	15/07/2015	17.08		Continued.	Economic shutdown,(AOH for 06.03.2016 To 04.04.2016) Unit Test synch.07.04.2016 (12.03 To 12.30hrs)After overhaul	
CENT.SECTOR	Tarapur 2	160	10/09/2015	12.55		Continued.	Refuelling work	
MSPGCL	Koyna Unit 10	80	29/12/2015	08:00		Continued.	Annual Overhaul	
MSPGCL	Nasik Unit 4	210	19/06/2016	00.20		Continued.	Capital Overhaul.	
IPP	JSW (J) U3	300	21/06/2016	18.15		Continued.	Capital Overhaul	
MSPGCL	Khaparkheda Unit 1	210	25/06/2016	23.45		Continued.	Zero Schedule by MSEDCL from 00.00Hrs Dt.18-7-16 and A.O.H from 25/06/2016 to 17/07/2016	
MSPGCL	Bhusawal Unit 4	500	01/07/2016	23.55		Continued.	A.O.H from 17/07/2016 and Zero Shedule By MSEDCL from 1/07/2016 to 16/07/2016.	
IPP	VIPL U-2	300	15/07/2016	00.16		Continued.	Genrator Inspection.	
TPC-G	Trombay 7B	60	19/07/2016	21.49		Continued.	Mandatory Gas Path Inspection for 7 Days	
TPC-G	Trombay 7A	120	19/07/2016	22.02		Continued.	Mandatory Gas Path Inspection for 7 Days	
FORCED OUTAGE								
RGPL	Dabhol 1B	230	28/05/2013	22:02		Continued.	Gas Shortage.	
RGPL	Dabhol 1X	290	27/06/2013	21.46		Continued.	Gas Shortage	
RGPL	Dabhol 1A	230	27/06/2013	21.47		Continued.	Gas Shortage	
IPP	Dhariwal	300	28/05/2014	02.27		Continued.	No PPA.	
MSPGCL	Koradi Unit 6	210	20/03/2015	01.02		Continued.	Economic shutdown	
MSPGCL	Parli Unit 6	250	25/06/2015	15.03		Continued.	Water Shortage	
MSPGCL	Parli Unit 4	210	05/07/2015	18.45		Continued.	Water Shortage	
MSPGCL	Parli Unit 5	210	06/07/2015	14.55		Continued.	Water Shortage.	
MSPGCL	Parli Unit 7	250	08/07/2015	12.08		Continued.	Water Shortage	
CPP	WPCL U-1	135	16/02/2016	17.09		Continued.	No PPA.	
IPP	WPCL U-2	135	29/02/2016	21.46		Continued.	Change over against Unit III	
IPP	RPL(AMT) U-5	270	24/05/2016	00.05		Continued.	Zero Shedule By MSEDCL.	
MSPGCL	Uran Unit 7	108	24/05/2016	17.42		Continued.	Generation Bearing Vibration High.	
MSPGCL	Koradi Unit 9	660	04/06/2016	14.45		Continued.	No concent to operate	
MSPGCL	Bhusawal Unit 2	210	14/06/2016	19.35		Continued.	Boiler Tube Leakage(Converted to Zero Shedule By MSEDCL. from 00.00Hrs dt.19-6-16)	
IPP	RPL(AMT) U-2	270	18/06/2016	06.54		Continued.	Zero Shedule By MSEDCL.	
IPP	RPL(AMT) U-3	270	29/06/2016	03.01		Continued.	Zero Shedule By MSEDCL.	
IPP	RPL(AMT) U-4	270	30/06/2016	10.11		Continued.	Zero Schedule By MSEDCL.	

State Load Despatch Center,Airoli (MSETCL) Statement-VI
Details of Generating Unit Outages/Trippings for 22/Jul/2016

Position as on 6.30 Hrs of 23/Jul/2016

Generating Company	Name of Generating Unit	Capacity	Tripped Date	Tripped Time	Sync.Date	Sync. Time	Reason of Outage	Expected Date
MSPGCL	Koradi Unit 5	200	01/07/2016	02.23		Continued.	Zero Shedule By MSEDCL.	
MSPGCL	Koradi Unit 7	210	01/07/2016	04.43		Continued.	Zero Shedule By MSEDCL.	
IPP	RPL(AMT) U-1	270	01/07/2016	18.40		Continued.	Zero Shedule By MSEDCL.	
MSPGCL	Bhusawal Unit 5	500	01/07/2016	23.59		Continued.	Zero Shedule By MSEDCL.	
MSPGCL	Chandrapur Unit 9	500	02/07/2016	07.26		Continued.	M.S.Temp.Low.	
MSPGCL	Khaparkheda Unit 2	210	05/07/2016	23.46		Continued.	Zero Shedule By MSEDCL.	
MSPGCL	Khaparkheda Unit 3	210	05/07/2016	23.52		Continued.	Zero Shedule By MSEDCL.	
MSPGCL	Khaparkheda Unit 4	210	08/07/2016	03.07		Continued.	Zero Shedule By MSEDCL.	
MSPGCL	Bhusawal Unit 3	210	08/07/2016	23.57		Continued.	ID Fan Problem (Converted to Zero schedule by MSEDCL from 11-07-2016)	
IPP	Adani U-4	660	13/07/2016	02.22		Continued.	Zero Shedule By MSEDCL.	
IPP	Adani U-1	660	13/07/2016	02.29		Continued.	Zero Shedule By MSEDCL.	
RGPL	Dabhol 3B	230	18/07/2016	12.40		Continued.	Tripped.	
RGPL	Dabhol 2A	230	18/07/2016	17.27		Continued.	Purge Valve Problem.	
IPP	WPCL U-3	135	21/07/2016	00.02		Continued.	Boiler Tube Leakage	
MSPGCL	Uran Unit 5	108	22/07/2016	10.42	22/07/2016	13.48	Boiler Protection	
CENT.SECTOR	TARAPUR-3	540	22/07/2016	20.30		Continued.	Reactor PCP mechanical seal damage	
MSPGCL	Chandrapur Unit 5	500	22/07/2016	22.48		Continued.	PA Fan problem	

State Load Despatch Center,Airoli (MSETCL)
Details of Line outages/Trippings for 22/Jul/2016

Statement-VII

Position as on 6.30 Hrs of 23/Jul/2016

Name of Line	Inter State / Intra State	Tripped Date	Tripped Time	Sync. Date	Sync. Time	Outage Type	Reason of Outage
400 KV LINE Outages/Trippings							
Chandrapur Bhadravati III	InterState	10/07/2016	21.01		Continued.	HT	Over Voltage
Dhule Sar'Sarovar I	InterState	20/07/2016	18.02		Continued.	HT	Over Voltage
Kolhapur Solapur (PG) II	InterState	21/07/2016	08.30		Continued.	T	Over Voltage
Lamboti - Solapur (PG)	InterState	22/07/2016	02.20	22/07/2016	05.33	T	Over Voltage
Ektuni-Bableshtar ckt I	IntraState	01/07/2016	18.00		Continued.	HT	To control Load on Padgha-BBLSR Line
Bhusawal-Aurangabad	IntraState	02/07/2016	16.24		Continued.	HT	Over Voltage
Khadka- Deepnagar Ckt 1	IntraState	12/07/2016	13.11	22/07/2016	10.36	HT	Over Voltage
Karad - Jaigad - II	IntraState	16/07/2016	16.36		Continued.	HT	Over Voltage
karad -kolhapur-I	IntraState	18/07/2016	12.15		Continued.	HT	Over Voltage
Lonikand I - Koyna stage-IV	IntraState	21/07/2016	09.55	22/07/2016	09.00	PO	Routine Relay Testing Work.RFC @ 18.35 Hrs.
Girwali-Solapur (Lamboti)	IntraState	21/07/2016	23.56	22/07/2016	05.35	T	Over Voltage
N.Koyna-Karad -Ckt I	IntraState	22/07/2016	09.28		Continued.	PO	String replacement(RFC 16.51Hrs)
Khadka- Deepnagar Ckt 2	IntraState	22/07/2016	10.44	22/07/2016	18.59	PO	Line Maint.work(RFC 18.59Hrs)
Lonikand I - Koyna stage-IV	IntraState	22/07/2016	22.36		Continued.	HT	Over Voltage
400 KV ICT Outages/Trippings							
400/220 Kv 500 Mva Ict 1 @Lamboti	IntraState	21/07/2016	20.45	22/07/2016	10.00	T	Differntial Protection,Due to Delta Formation Jump Open.
400/220 Kv 500 MVA ICT-I @Kalwa	IntraState	22/07/2016	16.33	22/07/2016	17.53	PO	Own Breaker problem(Taken on TBC)
220 KV LINE Outages/Trippings							
Chandrapur GCR - Warora - I	IntraState	05/04/2015	09.13		Continued.	PO	Bunching of conductor Loc no 86 Disconnecting of jumer at Loc no 86 & 107 and de-energising the line bet.86 to 107.
Chandrapur GCR - Wani	IntraState	05/04/2015	09.15		Continued.	PO	Bunching of conductor Loc no 86 Disconnecting of jumer at Loc no 86 & 107 and de-energising the line bet.86 to 107.
GIS Bhandup - Borivali	IntraState	11/01/2016	07.42		Continued.	PO	Tower Erection Work.
Aurangabad (Waluj)-Bhenda	IntraState	22/06/2016	23.02		Continued.	HT	Hand Tripped.
Kalwa-Salsette-IV	IntraState	28/06/2016	18.17		Continued.	T	Distance Protection
Kandalgaon - ONGC Panvel	IntraState	22/07/2016	10.50	22/07/2016	15.07	PO	Line Maintenance work
Lonikand (400 Kv)-Theur li	IntraState	22/07/2016	12.37	22/07/2016	16.12	EO	Isolator Rod Burning
Warora - Wardha	IntraState	22/07/2016	19.17	22/07/2016	19.27	T	Distance Protection
Vankuswade - Kdph	IntraState	23/07/2016	06.15		Continued.	T	Distance Protection
220 KV ICT Outages/Trippings							
220/100 Kv 200 MVA ICT III @Borivali	IntraState	21/09/2014	09.16		Continued.	T	Failed on internal Fault(Now repaired and ready for commissioning)
220/132Kv 200MVA ICT-II @ Mudshingi	IntraState	22/07/2016	10.00	22/07/2016	13.40	PO	Routine Maintenance Work
132 KV LINE Outages/Trippings							
Kaulewada-Madgi-li	IntraState	21/07/2016	18.59	22/07/2016	06.04	T	Tripped @ Kalwewada End Only Distance Protection Z-2 R Ph.11KV Control Room Caught
Kaulewada-Madgi-I	IntraState	21/07/2016	18.59	22/07/2016	03.25	T	Tripped @ Kalwewada End Only Distance Protection Z-2 R Ph.11KV Control Room Caught
Bhandara-Madgi-li	IntraState	21/07/2016	18.59	22/07/2016	05.55	T	Tripped @ Bhandara End H/T @ Madgi End 11 KV Control Room Caught Fire.
Bhandara-Madgi-I	IntraState	21/07/2016	18.59	22/07/2016	03.52	T	Tripped @ Bhandara End H/T @ Madgi End 11 KV Control Room

HT : Hand Tripping, MT : Multiple Tripping, T : Tripping, PO : Planned Outage, EO : Emergency Outage, OO : Opportunity Outage

State Load Despatch Center,Airoli (MSETCL)
Details of Line outages/Trippings for 22/Jul/2016

Statement-VII

Position as on 6.30 Hrs of 23/Jul/2016

Name of Line	Inter State / Intra State	Tripped Date	Tripped Time	Sync. Date	Sync. Time	Outage Type	Reason of Outage
							Caught Fire.
Himayatnagar - Tamsa	IntraState	22/07/2016	08.44	22/07/2016	08.56	T	Distance Protection
100 KV LINE Outages/Trippings							
Vasai-Ii - Vasai 1 Line	IntraState	29/06/2016	11.28		Continued.	HT	To Control Kalwa-Salsette-6 Line Loading.