

State Load Despatch Center, Airoli (MSETCL) Statement I
Daily system Report for 20/Jul/2016 WEDNESDAY

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSPGCL	Daily	Monthly	E) InterState Exchanges	Daily	Monthly
1) Thermal	79.829	1644.540	1) Gujrat	-0.900	-120.840
2) Hydro	11.303	135.745	2) Madhya Pradesh	15.582	244.163
3) Gas	6.646	143.086	3) Chattisgarh	7.750	135.440
Total MSPGCL	97.778	1923.371	4) Maharashtra Net	84.086	1215.937
B) 1) APML	44.889	966.985	5) Goa (Amona)	-0.472	-13.693
2) JSWEL	21.598	397.328	6) TAPS 1&2 Injection	3.650	70.610
3) VIPL	6.967	183.062	7) RGPPL Injection	11.090	228.188
4) RPL(AMT)	0.000	3.657	8) Pench (MS)	0.209	4.520
5) WPCL	4.469	68.952	9) Pench (Excess)	-0.209	-4.520
6) Other IPP	2.316	48.045	Total	120.577	1755.285
C) 1) TPCL Thermal	15.912	294.127	a) Mumbai Schedule	21.040	402.704
2) TPCL Hydro	6.863	70.008	b) Mumbai Drawl	24.071	481.264
3) TPCL Gas	0.000	67.751	c) MSEDCL Bilateral *	34.659	514.793
4) R-INFRA Thermal	11.388	209.582	Include PX	0.000	-141.710
D) STATE			d) Mumbai Bilateral *	21.040	402.704
1) Thermal	187.368	3816.278	Include PX	4.968	34.495
(A1+C1+C4+(B1-B6))			Include Standby	0.000	0.000
2) Hydro (A2+C2)	18.166	205.753	H) ENERGY CATERED (MUs)		
3) Gas (A3+C3)	6.646	210.837	1) MSEDCL	297.250	5644.433
4) Wind	21.891	764.538	2) Mumbai Discoms	58.234	1122.733
6) SOLAR	0.836	14.474	TOTAL STATE	355.484	6767.166
TOTAL STATE	234.907	5011.880			

* Displayed for information, not added in total.

DETAILS OF MAHARASHTRA STATE PEAK DEMAND(MW) Statement II

PARTICULARS	A. Morning Peak at 10 Hrs	B. Day Peak at 13 Hrs	C. Evening Peak at 20 Hrs	D. Night Minimum at 3 Hrs
MSPGCL Thermal	3186	3258	3382	3188
MSPGCL Hydro	890	529	1261	91
MSPGCL Gas	275	274	288	273
MSPGCL Total Generation	4351	4061	4931	3552
Central Sector Receipt	6028	5527	5110	4317
WIND	578	873	1112	889
CPP / IPP	3364	3367	3394	3343
SOLAR	99	131	0	0
Exchange with Mumbai	-1135	-1413	-1083	-791
MSEDCL DEMAND MET	13285	12546	13464	11310
Load Shedding	0	0	0	0
MSEDCL DEMAND	13285	12546	13464	11310
TPCL GENERATION	1088	1083	1120	520
R-INFRA GENERATION	507	509	509	403
MUMBAI DEMAND	2730	3005	2712	1714
STATE DEMAND MET	16015	15551	16176	13024
STATE DEMAND	16015	15551	16176	13024
Frequency (Hz)	49.97	49.97	49.96	49.97

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49.2 Hz
50.15 Hz at 06.02 Hrs	49.81 Hz at 14.40 Hrs	49.97	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 20/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	9.28	236.67	405	329
Total	9.28	237.59		
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	4.28	73.32	195	157
Unit 4	4.23	75.49	184	160
Unit 5	7.92	164.29	345	320
Unit 6	10.09	176.90	454	370
Unit 7	7.09	139.51	385	0
Unit 8	5.36	89.27	415	0
Total	38.97	718.77		
Paras				
Unit 3	5.75	101.30	255	200
Unit 4	5.03	97.50	245	141
Total	10.78	198.79		
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	11.86	206.11	500	460
Total	11.86	273.06		
Nasik				
Unit 3	4.48	82.68	200	165
Unit 4	0.00	0.00	0	0
Unit 5	4.46	82.15	199	165
Total	8.93	164.84		
Uran				
All Units	6.65	143.09	288	272
Total	6.65	143.09		
PENCH (MS)				
Pench (MS)	0.21	4.52	40	0

Generating unit	Generation			
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)
Total	0.21	4.52		
Koyna				
Stage 1-2	4.20	49.72	570	40
Stage 4	2.36	13.21	670	0
Stage 3	2.12	30.52	240	0
Total	8.68	93.46		
Hydro				
KDPH	0.00	0.00	0	0
VTRNA	0.16	4.12	60	0
TILLARI	0.00	6.91	0	0
BHTGR/VEER	0.00	0.00	0	0
BHIRA T.R.	0.48	7.88	80	0
RNGR+BHTSA	0.00	0.12	0	0
BHANDARDRA	0.63	7.98	27	26
ELDARY	0.00	0.00	0	0
SMLHY_PTN	0.21	0.21	9	8
GHATGHAR	1.14	15.06	250	0
Total	2.62	42.29		
Wind				
Total	21.89	764.54	0	0
Total	21.89	764.54		
CPP				
APML(Mus)	44.89	966.98	0	0
JSWEL(Mus)	21.60	397.33	0	0
VIPL(Mus)	6.97	183.06	0	0
RPLAMT(Mus)	0.00	3.66	0	0
WPCL(Mus)	4.47	68.95	0	0
Other(Mus)	2.32	48.04	0	0
Total	80.24	1668.03		
SOLAR				
Total	0.84	14.47	0	0
Total	0.84	14.47		
Tata				
Trombay 5	10.32	186.80	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	5.59	107.33	248	202
TATA Hydro	6.86	70.01	387	12
Total	22.78	431.89		
R-INFRA				
1-2	11.39	209.58	511	402
Total	11.39	209.58		

* 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	79.83	1644.54	MSPGCL Total	97.78	1923.37
Koradi 9	0.00	0.00	MSPGCL Thml+Gas	86.48	1787.63	Koyna 1,2 & 4 Total	6.56	62.93
Koradi 10	0.00	1.46	MSPGCL Hydro	11.30	135.74	State Total	234.91	5011.88
Parli 8	0.00	0.00						

State Load Despatch Center,Airoli (MSETCL)
Hourly Load Data As on 20/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	3230	81	283	3594	898	3362	0	4349	4474	-948	11380	0	11380	1955	13336	49.92
2	3180	76	272	3528	921	3346	0	4274	4335	-862	11268	0	11268	1793	13060	49.96
3	3188	91	273	3552	889	3343	0	4472	4317	-791	11310	0	11310	1714	13024	49.97
4	3284	81	275	3640	863	3313	0	4490	4339	-749	11406	0	11406	1669	13075	49.98
5	3233	166	276	3675	861	3133	0	4507	4711	-753	11627	0	11627	1676	13303	49.98
6	3369	456	275	4100	804	3082	0	4588	4839	-787	12038	0	12038	1797	13836	49.96
7	3521	1016	276	4813	638	3282	3	4630	4758	-592	12902	0	12902	1931	14832	49.98
8	3482	1009	274	4765	528	3362	24	4809	5213	-595	13296	0	13296	2170	15466	49.97
9	3183	1214	283	4680	642	3352	79	5369	5454	-858	13349	0	13349	2452	15801	49.98
10	3186	890	275	4351	578	3364	99	5609	6028	-1135	13285	0	13285	2730	16015	49.97
11	3254	757	278	4289	588	3356	75	5820	6050	-1387	12971	0	12971	2990	15961	49.97
12	3212	620	277	4109	837	3374	91	5685	5872	-1422	12861	0	12861	3011	15872	49.95
13	3258	529	274	4061	873	3367	131	5271	5527	-1413	12546	0	12546	3005	15551	49.97
14	3284	301	273	3858	1128	3392	103	5109	5196	-1273	12404	0	12404	2883	15287	49.98
15	3239	134	273	3646	1234	3373	99	5119	5051	-1241	12162	0	12162	2862	15024	49.96
16	3287	139	273	3699	1153	3362	72	5012	5130	-1236	12180	0	12180	2860	15040	49.99
17	3299	93	273	3665	1035	3380	37	4830	5035	-1204	11948	0	11948	2823	14770	49.94
18	3348	79	288	3715	1052	3376	20	4706	5000	-1158	12004	0	12004	2783	14788	49.97
19	3430	261	276	3967	1134	3348	3	4920	5130	-1106	12476	0	12476	2732	15208	49.96
20	3382	1261	288	4931	1112	3394	0	4954	5110	-1083	13464	0	13464	2712	16176	49.96
21	3468	1034	273	4775	1220	3402	0	5012	5021	-1017	13401	0	13401	2647	16048	49.96
22	3545	631	273	4449	928	3400	0	4950	4827	-867	12737	0	12737	2493	15230	49.98
23	3530	225	284	4039	969	3388	0	4853	4710	-773	12333	0	12333	2364	14697	49.97
24	3437	159	281	3877	1006	3390	0	4710	4450	-821	11902	0	11902	2182	14084	49.97
MUs	79.83	11.30	6.65	97.78	21.89	80.24	0.84	118.05	120.58	-24.07	297.25	0.00	297.25	58.23	355.48	49.97

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 20/Jul/2016

Position as on 6.30 Hrs of 21/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	Koyna Unit 8	80	29/06/2016	08.20		Continued.	Turbine Maintenance Work.	
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	
RGPL	Dabhol 3A	230	07/05/2016	18.44		Continued.	Low Vaccum	
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.	

State Load Despatch Center,Airoli (MSETCL) Statement-VI
Details of Generating Unit Outages/Trippings for 20/Jul/2016

Position as on 6.30 Hrs of 21/Jul/2016

Generating Company	Name of Generating Unit	Capacity	Tripped Date	Tripped Time	Sync.Date	Sync. Time	Reason of Outage	Expected Date
RGPPL	Dabhol 2B	230	20/06/2016	13.03		Continued.	Change Over.	
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.	
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.	
MSPGCL	Chandrapur Unit 7	500	17/07/2016	21.41	20/07/2016	02.41	Boiler Tube Leakage	
MSPGCL	Chandrapur Unit-8	500	20/07/2016	07.50	20/07/2016	14.56	Generator Earth fault	
RGPPL	Dabhol 2B	230	20/07/2016	16.16	20/07/2016	17.33	High Drum Level	
RGPPL	Dabhol 2X	290	20/07/2016	16.16	20/07/2016	19.01	High Drum Level	

State Load Despatch Center,Airoli (MSETCL)
Details of Line outages/Trippings for 20/Jul/2016

Statement-VII

Position as on 6.30 Hrs of 21/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	19/07/2016	13.01	20/07/2016	11.25	HT	Over Voltage
Kolhapur Solapur (PG) II	InterState	19/07/2016	17.31		Continued.	HT	Over Voltage
Dhule Sar'Sarovar I	InterState	20/07/2016	18.02		Continued.	HT	Over Voltage
Lamboti - Solapur (PG)	InterState	20/07/2016	19.03		Continued.	T	Distance Protection
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		Continued.	HT	Over Voltage
Karad - Jaigad - II	IntraState	16/07/2016	16.36		Continued.	HT	Over Voltage
Akola-Nandgaonpeth (RPL)	IntraState	19/07/2016	09.53	20/07/2016	05.40	PO	Testing work(RFC 23.11Hrs)
Lonikand I - Koyna stage-IV	IntraState	19/07/2016	22.56	20/07/2016	07.07	HT	Over Voltage
Main Bus-II @ Koradi	IntraState	20/07/2016	11.30		Continued.	PO	Isolator alignment work
Girwali-Solapur (Lamboti)	IntraState	20/07/2016	18.03	20/07/2016	19.19	T	Over Voltage
Lonikand I - Koyna stage-IV	IntraState	20/07/2016	23.54		Continued.	HT	Over Voltage
400 KV ICT Outages/Trippings							
400/220/33 Kv 315 MVA ICT II @Bableshtar	IntraState	19/07/2016	21.37	21/07/2016	03.01	T	Differential protection
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
Loteparshuram- Dasturi Line	IntraState	19/07/2016	14.55	20/07/2016	03.48	T	Distance Protection
220kv Halkarni- Tillary	IntraState	20/07/2016	05.05	20/07/2016	09.42	T	LA Burst at Halkarni
Niwali - Pawas Line	IntraState	20/07/2016	10.15	20/07/2016	12.40	PO	To attend Hot Spot
Karad -Mudshingi Ckt- IV	IntraState	20/07/2016	10.20	20/07/2016	13.15	PO	RMW work
Mahad-Kandalgaon	IntraState	20/07/2016	22.30	21/07/2016	00.10	EO	To attend Hot Spot
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)
132 KV LINE Outages/Trippings							
Bhusawal - Yaval	IntraState	20/07/2016	11.33	20/07/2016	16.45	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.

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