

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

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSPGCL	Daily	Monthly	E) InterState Exchanges	Daily	Monthly
1) Thermal	86.105	1411.265	1) Gujrat	10.984	110.629
2) Hydro	8.083	262.834	2) Madhya Pradesh	18.474	247.560
3) Gas	3.489	160.869	3) Chattisgarh	5.860	132.160
Total MSPGCL	97.677	1834.968	4) Maharashtra Net	71.307	1262.464
B) 1) APML	55.098	638.679	5) Goa (Amona)	-0.640	-13.291
2) JSWEL	22.030	415.888	6) TAPS 1&2 Injection	7.632	150.999
3) VIPL	6.630	192.050	7) RGPPL Injection	12.409	234.822
4) RPL(AMT)	0.000	0.000	8) Pench (MS)	0.228	4.708
5) WPCL	4.741	88.393	9) Pench (Excess)	-0.228	-4.708
6) PGPL	0.000	22.991	Total	125.798	2120.635
7) Other IPP	2.460	44.711	a) Mumbai Schedule	15.745	364.380
C) 1) TPCL Thermal	15.911	277.182	b) Mumbai Drawl	21.805	455.769
2) TPCL Hydro	5.516	116.671	c) MSEDCL Bilateral *	28.330	544.488
3) TPCL Gas	4.170	74.164	Include PX	-0.928	-29.784
4) R-INFRA Thermal	11.019	205.178	d) Mumbai Bilateral *	15.745	364.380
D) STATE			Include PX	0.809	36.463
1) Thermal	203.994	3273.346	Include Standby	0.000	0.000
(A1+C1+C4+(B1-B6))			H) ENERGY CATERED (MUs)		
2) Hydro	13.599	379.505	1) MSEDCL	334.017	5821.509
3) Gas	7.659	258.024	2) Mumbai Discoms	58.416	1128.959
4) Wind	40.688	901.830	TOTAL STATE	392.433	6950.468
6) SOLAR	0.700	17.133			
TOTAL STATE	266.640	4829.838			

* Displayed for information, not added in total.

DETAILS OF MAHARASHTRA STATE PEAK DEMAND(MW) Statement II

PARTICULARS	A. Morning Peak at 12 Hrs	B. Day Peak at 13 Hrs	C. Evening Peak at 20 Hrs	D. Night Minimum at 4 Hrs
MSPGCL Thermal	3742	3732	3673	3255
MSPGCL Hydro	291	133	884	72
MSPGCL Gas	146	134	144	147
MSPGCL Total Generation	4179	3999	4701	3474
Central Sector Receipt	5972	5805	5152	4728
WIND	2075	1901	1481	1743
CPP / IPP Thermal	3879	3858	3958	3513
CPP / IPP Gas	0	0	0	0
SOLAR	113	94	0	0
Exchange with Mumbai	-1171	-1219	-1029	-718
MSEDCL DEMAND MET	15047	14438	14262	12740
Load Shedding	0	0	0	0
MSEDCL DEMAND	15047	14438	14262	12740
TPCL GENERATION	1305	1303	1190	653
R-INFRA GENERATION	503	438	506	403
MUMBAI DEMAND	2979	2960	2725	1774
STATE DEMAND MET	18026	17398	16988	14514
STATE DEMAND	18026	17398	16988	14514
Frequency (Hz)	49.94	49.93	49.84	49.98

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49.2 Hz
50.17 Hz at 06.01 Hrs	49.71 Hz at 19.49 Hrs	49.94	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/Aug/2016

Generating unit	Generation			
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)
Koradi				
Unit 5	0.00	0.00	0	0
Unit 6	0.00	0.00	0	0
Unit 7	0.00	0.00	0	0
Unit 8	9.77	161.10	430	380
Total	9.77	161.10		
Bhusawal				
Unit 2	0.00	0.00	0	0
Unit 3	0.00	0.00	0	0
Unit 4	0.00	10.56	0	0
Unit 5	0.00	0.00	0	0
Total	0.00	10.56		
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	4.37	45.60	194	160
Unit 4	4.01	69.56	174	157
Unit 5	9.88	166.95	430	370
Unit 6	10.41	158.70	455	370
Unit 7	9.52	172.60	415	360
Unit 8	7.78	98.56	407	150
Total	45.97	711.97		
Paras				
Unit 3	5.80	49.27	255	201
Unit 4	5.36	97.84	242	193
Total	11.15	147.10		
Khaparkheda				
Unit 1	0.00	0.00	0	0
Unit 2	0.00	0.00	0	0
Unit 3	0.00	0.00	0	0
Unit 4	0.00	0.00	0	0
Unit 5	10.89	204.42	500	380
Total	10.89	204.42		
Nasik				
Unit 3	4.12	79.70	190	160
Unit 4	4.20	69.23	201	159
Unit 5	0.00	10.04	0	0
Total	8.32	158.96		
Uran				
All Units	3.49	160.87	148	134
Total	3.49	160.87		
PGPL				
Unit 1	0.00	14.19	0	0

Generating unit	Generation			
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)
Unit 2	0.00	8.80	0	0
Total	0.00	22.99		
PENCH (MS)				
Pench (MS)	0.23	4.71	27	0
Total	0.23	4.71		
Koyna				
Stage 1-2	4.28	78.53	430	40
Stage 4	0.64	67.65	250	0
Stage 3	1.23	45.57	160	0
Total	6.16	191.75		
Hydro				
KDPH	0.00	5.89	0	0
VTRNA	0.00	15.14	0	0
TILLARI	0.20	5.45	60	0
BHTGR/VEER	0.00	0.00	0	0
BHIRA T.R.	0.50	9.28	80	0
RNGR+BHTSA	0.00	4.33	0	0
BHANDARDRA	0.35	8.66	15	14
ELDARY	0.00	0.00	0	0
SMLHY_PTN	0.22	7.21	17	6
GHATGHAR	0.66	15.14	120	0
Total	1.93	71.09		
Wind				
Total	40.69	901.83	0	0
Total	40.69	901.83		
CPP				
APML(Mus)	55.10	638.68	0	0
JSWEL(Mus)	22.03	415.89	0	0
VIPL(Mus)	6.63	192.05	0	0
RPLAMT(Mus)	0.00	0.00	0	0
WPCL(Mus)	4.74	88.39	0	0
Other(Mus)	2.46	44.71	0	0
Total	90.96	1379.72		
SOLAR				
Total	0.70	17.13	0	0
Total	0.70	17.13		
Tata				
Trombay 5	10.35	174.22	489	313
Trombay 6	0.00	0.00	0	0
Trombay 7A	2.62	45.61	115	60
Trombay 7B	1.55	28.56	67	48
Trombay 8	5.56	102.97	250	201
TATA Hydro	5.52	116.67	387	16
Total	25.60	468.02		
R-INFRA				
1-2	11.02	205.18	509	401
Total	11.02	205.18		

* Infirm Power		
Particulars	Daily (Mus)	Monthly
Chandrapur 9	0.00	17.16
Koradi 9	0.00	0.00
Koradi 10	0.00	0.00
Parli 8	0.00	0.00

Summary		
Particulars	Daily (Mus)	Monthly (Mus)
MSPGCL Thermal	86.10	1411.26
MSPGCL Thml+Gas	89.59	1572.13
MSPGCL Hydro	8.08	262.83

Summary		
Particulars	Daily (Mus)	Monthly (Mus)
MSPGCL Total	97.68	1834.97
Koyna 1,2 & 4 Total	4.92	146.18
State Total	266.64	4829.84

State Load Despatch Center,Airoli (MSETCL)

Annexure-2

Hourly Load Data As on 20/Aug/2016

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			THM	GAS										
1	3312	222	148	3682	1595	3741	0	0	4354	4512	-885	12645	0	12645	2132	14777	49.89
2	3370	72	148	3590	1578	3749	0	0	4521	4550	-789	12678	0	12678	1935	14613	49.94
3	3174	67	148	3389	1760	3562	0	0	4596	4772	-757	12726	0	12726	1823	14550	49.95
4	3255	72	147	3474	1743	3513	0	0	4581	4728	-718	12740	0	12740	1774	14514	49.98
5	3385	102	147	3634	1751	3518	0	0	4598	4810	-685	13028	0	13028	1757	14784	49.96
6	3519	237	148	3904	1807	3735	0	0	4749	4897	-710	13633	0	13633	1858	15491	49.98
7	3547	398	148	4093	1758	3806	0	1	5176	5485	-647	14496	0	14496	1965	16461	49.98
8	3635	661	148	4444	1621	3804	0	15	5433	5936	-596	15224	0	15224	2097	17322	49.98
9	3614	699	139	4452	1738	3818	0	44	5358	5816	-740	15128	0	15128	2361	17489	49.95
10	3654	665	145	4464	1966	3834	0	59	5509	5754	-958	15120	0	15120	2681	17800	49.94
11	3639	337	145	4121	2019	3824	0	95	5788	5962	-1120	14901	0	14901	2883	17784	49.95
12	3742	291	146	4179	2075	3879	0	113	5645	5972	-1171	15047	0	15047	2979	18026	49.94
13	3732	133	134	3999	1901	3858	0	94	5537	5805	-1219	14438	0	14438	2960	17398	49.93
14	3695	65	143	3903	1916	3863	0	70	5381	5609	-1116	14245	0	14245	2820	17065	49.91
15	3726	110	142	3978	1886	3868	0	79	5361	5772	-1094	14489	0	14489	2807	17296	49.92
16	3759	300	144	4203	1730	3856	0	67	5331	5619	-1012	14464	0	14464	2809	17272	49.96
17	3762	355	145	4262	1841	3852	0	44	5022	5201	-994	14206	0	14206	2795	17002	49.96
18	3718	116	145	3979	1730	3799	0	18	4633	4745	-1186	13085	0	13085	2752	15837	49.99
19	3674	369	146	4189	1675	3726	0	1	4691	4873	-1149	13315	0	13315	2676	15991	49.95
20	3673	884	144	4701	1481	3958	0	0	5287	5152	-1029	14262	0	14262	2725	16988	49.84
21	3659	506	145	4310	1470	3960	0	0	5307	5271	-934	14076	0	14076	2662	16738	49.92
22	3632	150	148	3930	1178	3874	0	0	5119	5260	-771	13471	0	13471	2475	15946	49.91
23	3604	507	148	4259	1270	3782	0	0	4418	4752	-744	13319	0	13319	2403	15722	49.87
24	3625	765	148	4538	1199	3778	0	0	4601	4545	-781	13279	0	13279	2292	15571	49.89
MUs	86.10	8.08	3.49	97.68	40.69	90.96	0.00	0.70	121.00	125.80	-21.81	334.02	0.00	334.02	58.42	392.44	49.94

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/Aug/2016

Position as on 6.30 Hrs of 21/Aug/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	
MSPGCL	Koyana Unit 10	80	29/12/2015	08:00		Continued.	Annual Overhaul	
MSPGCL	Khaparkheda Unit 1	210	25/06/2016	23.45		Continued.	Zero Schedule by MSEDCL from 00.00Hrs Dt.19-7-16 and A.O.H from 25/06/2016 to 18/07/2016	
MSPGCL	Khaparkheda Unit 3	210	05/07/2016	23.52		Continued.	Zero Shedule By MSEDCL, converted for AOH from 00 Hrs Dt.25-7-16	
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 Schedule 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.	
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	Khaparkheda Unit 2	210	05/07/2016	23.46		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	

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

Position as on 6.30 Hrs of 21/Aug/2016

Generating Company	Name of Generating Unit	Capacity	Tripped Date	Tripped Time	Sync.Date	Sync. Time	Reason of Outage	Expected Date
							to Zero schedule by MSEDCL from 11-07-2016)	
IPP	Adani U-4	660	13/07/2016	02.22		Continued.	Zero Shedule By MSEDCL,Shedule Glven On 21/08/2016	
MSPGCL	Nasik Unit 5	210	03/08/2016	17.30		Continued.	Zero shedule	
MSPGCL	Chandrapur Unit 9	500	11/08/2016	22.11		Continued.	Oil Shortage.	
MSPGCL	Uran Unit B0	120	14/08/2016	07.56		Continued.	Maintenance work	
MSPGCL	Uran Unit 8	108	14/08/2016	07.56		Continued.	Maintenance work	
MSPGCL	Bhusawal Unit 4	500	14/08/2016	21.28		Continued.	Zero schedule given by MSEDCL	
RGPL	Dabhol 3A	230	16/08/2016	17.24		Continued.	Change Over	
PGPL	PGPL U2	126	18/08/2016	00.15	21/08/2016	21.12	Gas shortage	
PGPL	PGPL U1	262	18/08/2016	00.23	21/08/2016	20.32	Gas shortage	
MSPGCL	Koyana Unit 8	80	19/08/2016	11.00		Continued.	High Vibration On LGB & UGB.	
IPP	VIPL U-2	300	19/08/2016	12.32	21/08/2016	22.23	Boiler Tube Leakage	
MSPGCL	Uran Unit 5	108	19/08/2016	22.03		Continued.	Boiler trip.	
MSPGCL	Chandrapur Unit 4	210	21/08/2016	22.02		Continued.	ID Fan Problem	

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

Statement-VII

Position as on 6.30 Hrs of 21/Aug/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							
Kolhapur Solapur (PG) II	InterState	19/08/2016	20.20	20/08/2016	06.24	HT	Over Voltage
Dhule Khandwa II	InterState	20/08/2016	09.28	20/08/2016	14.11	T	Emergency outage
Kolhapur Solapur (PG) II	InterState	20/08/2016	16.48	21/08/2016	06.59	HT	Over Voltage
Kolhapur Solapur (PG) II	InterState	21/08/2016	17.13		Continued.	HT	Over Voltage
Bhusawal-Aurangabad	IntraState	27/07/2016	13.09	20/08/2016	09.06	HT	Over Voltage
Ektuni-Bableshwar ckt II	IntraState	01/08/2016	09.53		Continued.	HT	To control Padgha-BBLSR L/L
Padghe - Kharghar	IntraState	07/08/2016	17.07		Continued.	PO	Shifted on TBC at kharghar end
karad -kolhapur-II	IntraState	19/08/2016	09.20		Continued.	PO	For Isolator Assembly Replacement Work.
Jaigad-Karad Ckt-I	IntraState	19/08/2016	17.11		Continued.	HT	Over Voltage
Deepnagar - Aurangabad	IntraState	20/08/2016	10.26	20/08/2016	18.56	PO	Routine Maintenance Work
Bhusawal-Aurangabad	IntraState	20/08/2016	19.00		Continued.	HT	Over Voltage
Kalwa - Kharghar	IntraState	21/08/2016	06.10	21/08/2016	06.37	HT	Shifting From B Bus To A Bus Due To TBC Problem.
400 KV ICT Outages/Trippings							
400/220kv, 500 MVA ICT-III @Babhleshwar	IntraState	20/08/2016	11.06		Continued.	PO	Shifted on TBC, by hot line jumper open for construction of kudas bay ektuni CKT-2 will remain off during this outage period.
400/220/33 Kv 315 MVA ICT -I @Kharghar	IntraState	21/08/2016	06.41	21/08/2016	07.04	HT	Shifting From B Bus To A Bus Due To TBC Problem.
400/220kv 315MVA ICT-III @ Kharghar	IntraState	21/08/2016	07.06	21/08/2016	14.30	HT	Shifting From B Bus To A Bus Due To TBC Problem.
220 KV LINE Outages/Trippings							
Talandage - Chikodi	InterState	20/08/2016	14.36	20/08/2016	16.56	PO	Maintance work.
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.
Kalwa-Salsette-IV	IntraState	28/06/2016	18.17		Continued.	T	Distance Protection
Bableshwar- Alephata	IntraState	24/07/2016	07.57		Continued.	HT	Load Diversion.
Pophali - Kdph	IntraState	19/08/2016	00.20		Continued.	HT	Due to Snapping of conductor
Bableshwar Ahamadnagar-Ii	IntraState	20/08/2016	09.02	20/08/2016	21.02	PO	Relay testing work.
Shivajinagar - Malegaon	IntraState	20/08/2016	09.43	20/08/2016	13.25	PO	Replace the jumper.
Chinchwad-Hinjewadi I	IntraState	20/08/2016	10.12	20/08/2016	17.18	PO	Half yearly maintenance work
Hinganghat - Hinganghat Rly TSS 1	IntraState	20/08/2016	10.49	20/08/2016	22.10	PO	Dismantling of CB at TSS end.
Kharghar - Kalwa 2	IntraState	20/08/2016	13.35	20/08/2016	14.00	T	Tripped Without Any Indication
Padghe-Kamba II	IntraState	20/08/2016	14.23	20/08/2016	17.21	PO	Attending Hot Spot
Osmanabad - Solapur (Bale)	IntraState	21/08/2016	06.20	21/08/2016	13.19	T	Distance Protection B Phase.
Hamidwada-Mumewadi	IntraState	21/08/2016	12.24	21/08/2016	14.05	PO	Isolator Hot Spot Attending Work.
Parli 3 (Old Gcr)-Osmanabad	IntraState	21/08/2016	13.52	21/08/2016	07.19	HT	To control Parli ICT Loading.
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)
220/132 KV 100MVA ICT-I @ Shivajinagar	IntraState	20/08/2016	11.04	20/08/2016	20.52	PO	Replacement of jumper.

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 20/Aug/2016

Statement-VII

Position as on 6.30 Hrs of 21/Aug/2016

Name of Line	Inter State / Intra State	Tripped Date	Tripped Time	Sync. Date	Sync. Time	Outage Type	Reason of Outage
132 KV LINE Outages/Trippings							
Ranjangaon-Whirlpool	IntraState	20/08/2016	10.30	20/08/2016	11.44	PO	Attending Hot Spot
Bableshtar - Kopergaon	IntraState	20/08/2016	10.45	20/08/2016	14.10	PO	Routine Maintenance Work
100 KV LINE Outages/Trippings							
Vasai-Ii - Vasai 2 Line	IntraState	13/08/2016	08.53		Continued.	HT	ICT Problem.

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