

State Load Despatch Center,Airoli (MSETCL) Statement I
Daily system Report for 23/Jul/2016 SATURDAY

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSPGCL	Daily	Monthly	E) InterState Exchanges	Daily	Monthly
1) Thermal	76.244	1889.251	1) Gujrat	-1.268	-124.358
2) Hydro	11.672	160.607	2) Madhya Pradesh	19.370	293.706
3) Gas	6.760	162.609	3) Chattisgarh	8.730	160.590
Total MSPGCL	94.676	2212.467	4) Maharashtra Net	81.631	1467.326
B) 1) APML	45.183	1097.396	5) Goa (Amona)	-0.570	-15.257
2) JSWEL	21.528	461.760	6) TAPS 1&2 Injection	1.619	79.561
3) VIPL	6.585	202.089	7) RGPPL Injection	11.665	263.327
4) RPL(AMT)	0.000	3.657	8) Pench (MS)	0.058	4.778
5) WPCL	2.430	76.549	9) Pench (Excess)	-0.058	-4.778
6) Other IPP	2.623	55.419	Total	121.119	2120.117
C) 1) TPCL Thermal	15.732	338.541	a) Mumbai Schedule	21.037	463.843
2) TPCL Hydro	6.718	90.456	b) Mumbai Drawl	20.910	552.691
3) TPCL Gas	0.000	67.751	c) MSEDCL Bilateral *	32.827	615.759
4) R-INFRA Thermal	11.263	241.816	Include PX	-0.067	-141.814
D) STATE			d) Mumbai Bilateral *	21.037	463.843
1) Thermal	181.588	4366.478	Include PX	3.597	47.142
(A1+C1+C4+(B1-B6))			Include Standby	0.000	0.000
2) Hydro (A2+C2)	18.390	251.063	H) ENERGY CATERED (MUs)		
3) Gas (A3+C3)	6.760	230.360	1) MSEDCL	289.016	6513.631
4) Wind	14.804	820.126	2) Mumbai Discoms	54.622	1291.255
6) SOLAR	0.978	16.742	TOTAL STATE	343.638	7804.886
TOTAL STATE	222.520	5684.769			

* Displayed for information, not added in total.

DETAILS OF MAHARASHTRA STATE PEAK DEMAND(MW) Statement II

PARTICULARS	A. Morning Peak at 11 Hrs	B. Day Peak at 13 Hrs	C. Evening Peak at 20 Hrs	D. Night Minimum at 4 Hrs
MSPGCL Thermal	3151	3105	3258	2991
MSPGCL Hydro	1010	790	1006	55
MSPGCL Gas	290	274	275	287
MSPGCL Total Generation	4451	4169	4539	3333
Central Sector Receipt	5450	5409	5860	4366
WIND	428	286	714	853
CPP / IPP	3345	3348	3332	2989
SOLAR	117	138	0	0
Exchange with Mumbai	-998	-1129	-1031	-754
MSEDCL DEMAND MET	12793	12221	13414	10787
Load Shedding	0	0	0	0
MSEDCL DEMAND	12793	12221	13414	10787
TPCL GENERATION	1117	1113	1078	519
R-INFRA GENERATION	506	510	467	403
MUMBAI DEMAND	2621	2752	2576	1676
STATE DEMAND MET	15414	14973	15990	12463
STATE DEMAND	15414	14973	15990	12463
Frequency (Hz)	49.99	49.97	49.87	49.95

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49.2 Hz
50.16 Hz at 13:02 Hrs	49.72 Hz at 19:41 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 23/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	13.21	271.28	625	394
Total	13.21	272.20		
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	3.84	85.35	183	125
Unit 4	3.98	87.72	175	158
Unit 5	0.00	179.16	0	0
Unit 6	8.68	204.68	400	318
Unit 7	8.08	164.85	388	285
Unit 8	7.06	114.65	370	172
Total	31.62	836.40		
Paras				
Unit 3	5.62	117.98	252	196
Unit 4	5.22	113.04	249	0
Total	10.84	231.01		
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	11.67	240.79	505	400
Total	11.67	307.73		
Nasik				
Unit 3	4.45	95.48	200	165
Unit 4	0.00	0.00	0	0
Unit 5	4.44	94.93	198	166
Total	8.89	190.41		
Uran				
All Units	6.76	162.61	298	266
Total	6.76	162.61		
PENCH (MS)				
Pench (MS)	0.06	4.78	22	0

Generating unit	Generation			
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)
Total	0.06	4.78		
Koyna				
Stage 1-2	4.12	59.36	465	40
Stage 4	2.57	17.13	745	0
Stage 3	2.79	36.04	240	0
Total	9.48	112.52		
Hydro				
KDPH	0.00	0.00	0	0
VTRNA	0.00	4.12	0	0
TILLARI	0.13	7.16	61	0
BHTGR/VEER	0.00	0.00	0	0
BHIRA T.R.	0.50	9.35	80	0
RNGR+BHTSA	0.00	0.15	0	0
BHANDARDRA	0.00	8.27	0	0
ELDARY	0.00	0.00	0	0
SMLHY_PTN	0.24	0.90	10	9
GHATGHAR	1.32	18.12	250	0
Total	2.19	48.09		
Wind				
Total	14.80	820.13	0	0
Total	14.80	820.13		
CPP				
APML(Mus)	45.18	1097.40	0	0
JSWEL(Mus)	21.53	461.76	0	0
VIPL(Mus)	6.58	202.09	0	0
RPLAMT(Mus)	0.00	3.66	0	0
WPCL(Mus)	2.43	76.55	0	0
Other(Mus)	2.62	55.42	0	0
Total	78.35	1896.87		
SOLAR				
Total	0.98	16.74	0	0
Total	0.98	16.74		
Tata				
Trombay 5	10.19	215.27	486	312
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	5.54	123.27	250	202
TATA Hydro	6.72	90.46	387	12
Total	22.45	496.75		
R-INFRA				
1-2	11.26	241.82	511	401
Total	11.26	241.82		

* 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	76.24	1889.25	MSPGCL Total	94.68	2212.47
Koradi 9	0.00	0.00	MSPGCL Thml+Gas	83.00	2051.86	Koyna 1,2 & 4 Total	6.69	76.48
Koradi 10	0.00	1.46	MSPGCL Hydro	11.67	160.61	State Total	222.52	5684.77
Parli 8	0.00	0.00						

State Load Despatch Center,Airoli (MSETCL)
Hourly Load Data As on 23/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	3344	54	287	3685	975	3087	0	4447	4261	-871	11137	0	11137	1938	13075	49.98
2	3215	49	277	3541	836	3041	0	4479	4171	-770	10819	0	10819	1802	12621	49.98
3	3031	59	288	3378	862	2993	0	4491	4404	-781	10856	0	10856	1714	12570	49.96
4	2991	55	287	3333	853	2989	0	4375	4366	-754	10787	0	10787	1676	12463	49.95
5	2961	60	278	3299	730	3008	0	4376	4670	-728	10979	0	10979	1670	12649	49.93
6	3171	55	297	3523	553	3108	0	4433	4911	-605	11490	0	11490	1763	13253	49.94
7	3342	111	289	3742	496	3275	1	4762	5092	-472	12134	0	12134	1851	13985	49.99
8	3368	206	298	3872	447	3345	17	5016	5408	-391	12698	0	12698	1969	14667	49.96
9	3220	414	284	3918	437	3347	50	5307	5407	-619	12540	0	12540	2230	14770	50.00
10	3057	825	279	4161	438	3363	87	5355	5462	-821	12690	0	12690	2438	15128	50.01
11	3151	1010	290	4451	428	3345	117	5339	5450	-998	12793	0	12793	2621	15414	49.99
12	3074	875	276	4225	362	3357	126	5351	5445	-1141	12374	0	12374	2756	15130	49.98
13	3105	790	274	4169	286	3348	138	5140	5409	-1129	12221	0	12221	2752	14973	49.97
14	3149	612	268	4029	338	3336	119	5044	5142	-989	11975	0	11975	2609	14584	50.00
15	3156	665	285	4106	483	3341	109	4953	5115	-992	12162	0	12162	2606	14768	49.94
16	3260	568	273	4101	689	3344	110	4914	4927	-1040	12131	0	12131	2587	14718	49.96
17	3304	230	266	3800	872	3349	60	4873	4759	-980	11860	0	11860	2559	14419	49.98
18	3198	144	271	3613	951	3329	39	4992	5059	-1182	11809	0	11809	2521	14330	49.97
19	3265	366	283	3914	878	3243	5	5105	5470	-1154	12356	0	12356	2493	14849	49.96
20	3258	1006	275	4539	714	3332	0	5174	5860	-1031	13414	0	13414	2576	15990	49.87
21	3207	1458	284	4949	644	3373	0	5164	5165	-969	13162	0	13162	2581	15743	49.97
22	3231	1257	275	4763	519	3378	0	5093	5086	-932	12814	0	12814	2429	15243	49.97
23	3229	493	288	4010	520	3368	0	5044	5284	-868	12314	0	12314	2292	14606	49.93
24	2957	310	288	3555	493	3345	0	4741	4796	-693	11496	0	11496	2190	13686	49.98
MUs	76.24	11.67	6.76	94.68	14.80	78.35	0.98	117.97	121.12	-20.91	289.02	0.00	289.02	54.62	343.64	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 23/Jul/2016

Position as on 6.30 Hrs of 24/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	Khaparkhedha 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 23/Jul/2016

Position as on 6.30 Hrs of 24/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	
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	
MSPGCL	Paras Unit 4	250	23/07/2016	22.59		Continued.	Furnace Pressure High	

State Load Despatch Center,Airoli (MSETCL)
Details of Line outages/Trippings for 23/Jul/2016

Statement-VII

Position as on 6.30 Hrs of 24/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	23/07/2016	10.39	HT	Over Voltage
Kolhapur Solapur (PG) II	InterState	19/07/2016	17.31	23/07/2016	09.25	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
Karad Solapur (PG)	InterState	23/07/2016	10.08		Continued.	PO	Attending Hot Spot
Lamboti - Solapur (PG)	InterState	23/07/2016	15.22	23/07/2016	16.47	T	Distance Protection
Kolhapur Solapur(PG) I	InterState	23/07/2016	21.47	24/07/2016	07.00	HT	Over Voltage
Kolhapur Solapur (PG) II	InterState	24/07/2016	00.41		Continued.	T	Over Voltage
Karad Solapur (PG)	InterState	24/07/2016	11.40		Continued.	T	Over Voltage
Ektuni-Bableshwar 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
Karad - Jaigad - II	IntraState	16/07/2016	16.36	23/07/2016	10.45	HT	Over Voltage
karad -kolhapur-I	IntraState	18/07/2016	12.15	24/07/2016	07.28	HT	Over Voltage
N.Koyna-Karad -Ckt I	IntraState	22/07/2016	09.28		Continued.	PO	String replacement(RFC 16.51Hrs)
Lonikand I - Koyna stage-IV	IntraState	22/07/2016	22.36	23/07/2016	07.35	HT	Over Voltage
Lonikand2-Lonikand1 (Intrconector)	IntraState	23/07/2016	09.03	23/07/2016	17.06	PO	Line Maintenance work
Karad-Jaigad - I	IntraState	23/07/2016	12.09		Continued.	HT	Over Voltage
Solapur - Parli(PG) I	IntraState	24/07/2016	14.01	24/07/2016	19.04	EO	Line Maintenance work
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
Vankuswade - Kdph	IntraState	23/07/2016	06.15		Continued.	T	Distance Protection
New Koyna - Loteparshuram	IntraState	23/07/2016	08.57	23/07/2016	12.12	PO	To BY Pass CC.
Half Main Bus Section- I @ Magarpatta	IntraState	23/07/2016	09.50	23/07/2016	17.20	PO	Routine Maintenance Work
Kalwa-TIFIL	IntraState	23/07/2016	10.10	23/07/2016	17.40	PO	To attend Hot Spot
Vankuswade - Kdph	IntraState	24/07/2016	05.20		Continued.	T	Distance Protection
Pargaon(Kathapur)-Lonikand	IntraState	24/07/2016	07.10	24/07/2016	07.45	PO	Bus Fault At Kathapur End.
Bableshwar- Alephata	IntraState	24/07/2016	07.57		Continued.	HT	Load Diversion.
Kalwa - Mulund 1	IntraState	24/07/2016	10.58	24/07/2016	15.08	PO	Shifted On TBC At Kalwa End.
Ranjangaon-Lonikand	IntraState	24/07/2016	11.00		Continued.	PO	Overhauling Work.
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 200 Mva Vijai Ict 1 @Ranjangaon	IntraState	23/07/2016	09.50	23/07/2016	18.49	PO	Routine Maintenance Work
132 KV LINE Outages/Trippings							
Babhaleshwar-Rahuri	IntraState	23/07/2016	11.00	23/07/2016	12.08	PO	Flashover Insulator Replacement.

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 23/Jul/2016

Statement-VII

Position as on 6.30 Hrs of 24/Jul/2016

Name of Line	Inter State / Intra State	Tripped Date	Tripped Time	Sync. Date	Sync. Time	Outage Type	Reason of Outage
100 KV LINE Outages/Trippings							
Vasai-li - 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