



***Maharashtra State Electricity Transmission
Company Ltd.***

State Load Dispatch Center, Airoli

Daily system Report

for

13/May/2012

State Load Dispatch Center, Airoli (MSETCL)
Daily system Report for 13/May/2012 SUNDAY

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSGENCO	Daily	Monthly	E) Central Sector	Daily	Monthly
1) Thermal	109.404	1617.941	1) Gujrat	7.821	28.471
2) Hydro	15.739	163.861	2) Madhya Pradesh	18.792	225.364
3) Gas	11.209	144.969	3) Chattisgarh	10.990	142.730
Total MSGENCO	136.352	1926.771	4) Maharashtra	61.613	776.325
B) OTHERS			5) Goa	-6.596	-86.404
1) JSW JAIGAD	25.310	348.398	6) TAPS 1&2 Injection	7.745	100.633
2) WPCL	3.934	119.169	7) RGPPL Injection	19.222	270.303
3) Other CPP / IPP	7.938	120.723	8) Pench (Excess)	-0.101	-1.908
4) Wind Generation	10.937	163.458	# Total Cent. Sector	119.486	1455.514
5) PENCH (MS)	0.101	1.908	F) Other Exchanges		
C) TPCL & REL			1) With TPCL (Excess)	-10.023	-174.296
1) TPCL Thermal	24.375	345.126	G) Bilateral Power *		
2) TPCL Hydro	0.964	48.097	1) MSEDCL Bilateral	36.836	497.876
TOTAL TPCL	25.339	393.223	Include PX	0.000	-2.446
3) REL Thermal	12.548	163.371	2) MUMBAI Bilateral	9.050	178.644
D) STATE			Include PX	1.131	27.626
1) Thermal (A1+C1+C3)	146.327	2126.438	3) MUMBAI Schedule	9.050	178.644
2) Hydro (A2+B5+C2)	16.804	213.866	H) ENERGY CATERED (MUs)		
3) Gas (A3)	11.209	144.969	1) MSEDCL	294.035	3961.645
4) Wind (B4)	10.937	163.458	2) TPCL	31.270	483.164
5) CPP (B1+B2+B3)	37.182	588.290	3) REL	16.636	247.689
TOTAL STATE	222.459	3237.021	TOTAL STATE	341.941	4692.498

DETAILS OF MAHARASHTRA STATE PEAK DEMAND(MW)

PARTICULARS	A. Morning Peak at 12 Hrs	B. Evening Peak at 17 Hrs	C. Night Minimum at 5 Hrs
MSGENCO Thermal	4597	4658	4367
MSGENCO Hydro	1236	1100	149
MSGENCO Gas	455	456	486
MSGENCO Total Generation	6288	6214	5002
Central Sector Receipt	5033	4897	4946
WIND	284	640	393
CPP / IPP	1450	1441	1895
Exchange with Mumbai	-334	-451	-382
MSEDCL DEMAND MET	12721	12741	11854
Load Shedding	703	436	252
MSEDCL DEMAND	13424	13177	12106
TPCL GENERATION	1098	1067	892
R-INFRA GENERATION	523	522	521
TPCL+R-INFRA DEMAND	1955	2040	1795
STATE DEMAND MET	14676	14781	13649
STATE DEMAND	15379	15217	13901
Frequency (Hz)	49.82	49.86	49.90

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49.2 Hz
50.54 Hz at 18:03 Hrs	49.42 Hz at 20:06 Hrs	49.9	0 % of Time(min)

* Displayed for information, not added in total. # Total Cent. Sector includes MSEDCL and TPCL bilateral power.

Shift Engineer

Shift Incharge

State Load Dispatch Center, Airoli (MSETCL)

Daily and Progressive Generation, Maximum, Minimum, OLC Details for 13/May/2012

Generating unit	Generation				OLC (MW)	Generating unit	Generation				OLC (MW)	
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)			Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)		
Koradi						Total	10.50	102.30			1090	
Unit 5	3.31	41.18	157	120	135	Hydro						
Unit 6	2.85	37.15	140	94	110	KDPH	0.83	9.39	35	34	36	
Unit 7	3.38	44.04	155	115	145	VTRNA	1.15	11.82	61	0	60	
Total	9.54	122.38			390	TILLARI	0.06	0.90	46	0	60	
Bhusawal						BHTGR/VEER	0.00	2.31	0	0	12	
Unit 2	3.16	46.76	175	0	160	BHIRA T.R.	0.16	2.43	77	0	40	
Unit 3	2.32	49.13	180	0	0	RNGR+BHTSA	0.27	3.59	12	11	0	
Unit 4	0.00	35.22	0	0	0	BHANDARDRA	1.12	7.43	47	46	30	
Unit 5	0.00	0.00	0	0	0	ELDARY	0.00	1.74	0	0	0	
Total	5.48	131.10			160	SMLHY_PTN	0.45	7.76	25	15	9	
Parli						GHATGHAR	1.20	14.18	250	0	0	
Unit 3	4.55	58.74	200	169	185	Total	5.24	61.56			247	
Unit 4	3.65	48.47	178	123	169	Wind						
Unit 5	3.90	52.26	172	135	160	MalharPeth	0.22	5.90				
Unit 6	3.87	52.55	193	140	155	Vankuswadi	0.42	9.52				
Unit 7	0.29	43.13	137	0	0	ATIT	0.05	1.37				
Total	16.25	255.16			669	Kale	0.12	3.76				
Chandrapur						Satara	0.66	11.37				
Unit 1	3.51	39.11	164	92	150	Shirala	0.08	2.98				
Unit 2	3.38	48.18	168	121	165	K Mahankal	0.01	6.56				
Unit 3	3.95	56.74	185	128	185	Supa	0.08	2.07				
Unit 4	3.93	54.30	190	136	200	Vita	0.26	13.21				
Unit 5	11.08	142.32	475	450	470	Dondaicha	7.27	77.86				
Unit 6	9.89	130.58	420	405	425	Sakri	0.86	8.49				
Unit 7	0.00	114.42	0	0	0	Nandurbar	0.14	7.16				
Total	35.75	585.65			1595	Khandke	0.40	6.29				
Paras						Khaparale	0.37	6.93				
Unit 3	6.08	64.82	260	239	250	Total	10.94	163.46				
Unit 4	0.00	0.59	0	0	0	CPP						
Total	6.08	65.40			250	JSW_JAIGAD	25.31	348.40	1126	814	1030	
Khaparkheda						WARDHA	3.93	119.17	441	0	450	
Unit 1	4.32	51.42	190	170	180	Other CPPs	7.94	120.72				
Unit 2	4.09	55.21	182	160	180	Total	37.18	588.29			1480	
Unit 3	4.44	57.71	193	179	180	Tata						
Unit 4	4.47	57.68	195	175	180	Trombay 4	0.00	0.00	0	0	0	
Unit 5	4.75	62.41	264	0	150	Trombay 5	10.07	140.15	503	290	500	
Total	22.08	284.42			870	Trombay 6	3.80	70.17	160	157	500	
Nasik						Trombay 7A	2.97	36.91	126	121	120	
Unit 3	5.19	60.02	220	210	192	Trombay 7B	1.64	20.82	70	68	60	
Unit 4	4.71	58.48	201	175	200	Trombay 8	5.89	77.08	251	199	250	
Unit 5	4.33	55.33	194	166	190	TATA Hydro	0.96	48.10	250	0	447	
Total	14.23	173.83			582	Total	25.34	393.22			1877	
Uran						REL						
All Units	11.21	144.97	486	448	460	1&2	12.55	163.37	526	521	500	
Total	11.21	144.97			460	Total	12.55	163.37			500	
PENCH (MS)						Cent Sect						
Pench (MS)	0.10	1.91	24	0	0	Share					5183	
Total	0.10	1.91			0	Total					5183	
Koyna												
Stage 1-2	4.50	46.48	500	35	520							
Stage 4	4.41	37.66	651	0	250							
Stage 3	1.58	18.16	240	0	320							
Koyna 12&4 Total	8.92	84.14			770							
						MS	Thermal	109.40	1617.94			4516
						PG	Thml+Gas	120.61	1762.91			4976
						CL	Hydro	15.74	163.86			1337
							Total	136.35	1926.77			6313
						State Total		222.46	3237.02			15353

State Load Dispatch Center, Airoli (MSETCL)

Hourly Load Data As on 13/May/2012

TIME SR. NO.	MSPGCL GEN.			TOTAL	WIND	CPP / IPP	CS SHARE	CS RECPT	Mum.S CH.	Mum. NET EXCH.	MSEDCL DEMAND MET	LOAD SHEDDING	MSEDCL DEMAND WITH LS	TPCL + R -INFRA DEMAND	STATE DEMAND	FREQ. (Hz)
	THM	HY	GAS													
1	4269	294	480	5043	587	1894	5060	5285	-693	-499	12310	175	12485	2158	14643	50.05
2	4311	149	485	4945	550	1894	4962	5243	-588	-483	12149	225	12374	2038	14412	50.00
3	4179	149	485	4813	563	1897	4935	5213	-498	-393	12093	238	12331	1920	14251	49.96
4	4232	159	485	4876	512	1901	4889	4990	-444	-368	11911	244	12155	1839	13994	49.84
5	4367	149	486	5002	393	1895	4868	4946	-440	-382	11854	252	12106	1795	13901	49.90
6	4447	210	486	5143	375	1895	4863	5126	-440	-421	12118	342	12460	1835	14295	49.90
7	4529	210	478	5217	358	1898	4865	4580	-443	-348	11705	589	12294	1764	14058	50.07
8	4575	205	476	5256	447	1880	4824	4524	-415	-334	11773	563	12336	1744	14080	50.05
9	4551	228	466	5245	561	1882	4835	4490	-429	-356	11822	583	12405	1790	14195	49.99
10	4564	656	464	5684	382	1457	4871	4991	-196	-315	12199	434	12633	1872	14505	50.00
11	4664	1329	455	6448	215	1448	4964	4871	-223	-382	12600	447	13047	1999	15046	49.85
12	4597	1236	455	6288	284	1450	4908	5033	-227	-334	12721	703	13424	1955	15379	49.82
13	4626	1186	454	6266	461	1446	4897	4755	-232	-446	12482	819	13301	2066	15367	49.78
14	4656	879	450	5985	421	1446	4900	5056	-234	-436	12472	707	13179	2055	15234	49.84
15	4623	1418	448	6489	650	1447	4892	4837	-231	-434	12989	591	13580	2051	15631	49.74
16	4615	1664	454	6733	509	1449	4907	4799	-228	-442	13048	449	13497	2059	15556	49.93
17	4658	1100	456	6214	640	1441	4914	4897	-224	-451	12741	436	13177	2040	15217	49.86
18	4639	388	457	5484	671	1441	4839	4890	-195	-585	11901	416	12317	2011	14328	49.98
19	4676	226	457	5359	530	1401	4886	4849	-189	-592	11547	391	11938	1967	13905	50.00
20	4701	520	464	5685	363	1144	5102	5225	-231	-419	12005	610	12615	2161	14776	49.82
21	4696	398	467	5561	366	1145	5419	5395	-484	-317	12173	606	12779	2190	14969	49.76
22	4720	636	467	5823	300	1147	5470	5154	-530	-394	12054	588	12642	2194	14836	49.80
23	4786	1044	467	6297	350	1142	5396	5106	-598	-426	12492	227	12719	2200	14919	49.70
24	4723	1306	467	6496	449	1142	5309	5231	-636	-466	12876	165	13041	2207	15248	49.86
MUs	109.40	15.74	11.21	136.35	10.94	37.18	119.78	119.49	-9.05	-10.02	294.04	10.80	304.84	47.91	352.74	49.90

NOTE : ALL VALUES IN MW

Mumbai Sch./Net Exch is shown with reference to MSETCL System. (+) indicates Mum. to MSETCL and (-) indicates MSETCL to Mum. Mumbai Schedule is calculated for MSETCL periphery (taking 4% loss for import & 4.85% MSETCL loss # Without Applying Load Diversity Factor

State Load Dispatch Center, Airoli (MSETCL)
Details of Generating Unit Outages/Trippings for 13/May/2012

Position as on 6.30 Hrs of 14/May/2012

Name of Generating Unit	Capacity	Tripped Date	Tripped Time	Sync.Date	Sync. Time	Reason of Outage	Expected Date
PLANNED OUTAGE							
Cent_Sect NTPC(V-4)	210	25/04/2012	00.07		Continued.	Annual Overhaul.	
Paras Unit 4	250	01/05/2012	03.25		Continued.	Annual Overhaul.	30/05/2012
FORCED OUTAGE							
Tata Trombay 4	150	14/02/2012	00.08		Continued.	Withdrawn/Cold Standby	
Bhusawal Unit 5	500	30/03/2012	04.34		Continued.	Hand Tripped	
Dabhol 1A	230	30/03/2012	23.29		Continued.	Gas Shortage	
Dabhol 1X	290	31/03/2012	19:43		Continued.	Maintenance work.	
Dabhol 1B	230	31/03/2012	19:45		Continued.	Maintenance work.	
Cent_Sect Kawas GT2A	106	26/04/2012	18.13		Continued.	Less Requisition	
Uran Unit 5	108	29/04/2012	11.20		Continued.	Gas Shortage	
Dabhol 3B	230	04/05/2012	11.18		Continued.	Gas shortage.	
Khaparkheda Unit 5	500	11/05/2012	10.20	13/05/2012	03.30	Gen.Prot.Operated.	
Chandrapur Unit 7	500	12/05/2012	13.50		Continued.	Boiler Tube Leakage	
Bhusawal Unit 4	500	12/05/2012	14.40	14/05/2012	02.22	B Phase LA of G.T.Burst	
Bhusawal Unit 3	210	12/05/2012	14.56	13/05/2012	09.30	Compressor A.C.Supply Failed	
Bhusawal Unit 2	210	12/05/2012	22.10	13/05/2012	03.41	Drum Level High	
Parli Unit 7	250	13/05/2012	02.27		Continued.	CHP Problem	
CPP WPCL U-1	135	13/05/2012	08.58		Continued.	Bus sectionaliser R phase C.T.Burst at Warora S/Stn.	
CPP WPCL U-2	135	13/05/2012	08.58		Continued.	Bus sectionaliser R phase C.T.Burst at Warora S/Stn.	
CPP WPCL U-3	135	13/05/2012	08.58		Continued.	Bus sectionaliser R phase C.T.Burst at Warora S/Stn.	
CPP WPCL U-4	135	13/05/2012	08.58		Continued.	Bus sectionaliser R phase C.T.Burst at Warora S/Stn.	
Koyna ST-IV 2	250	13/05/2012	09.00	13/05/2012	16.00	Preventive maint.work	
Koyna Unit 9	80	13/05/2012	17.30	13/05/2012	18.00	Coolar replacement work	
CPP JSW (J) U3	300	13/05/2012	18.55	14/05/2012	01.52	Generator Protection	
Bhusawal Unit 4	500	14/05/2012	03.01		Continued.	Low Drum Level	

State Load Dispatch Center,Airoli (MSETCL)
Details of Line outages/Trippings for 13/May/2012

Position as on 6.30 Hrs of 14/May/2012

Name of Line	Tripped Date	Tripped Time	Synchronise d Date	Synchronise d Time	Reason of Outage
InterState					
Voltage Level : 400KV			Outage Type PLANNED OUTAGE		
Parly(PG) - Wardha (PG) - I	12/05/2012	20.40		Continued.	Over voltage
Parli-Parli (PGCIL)-II	13/05/2012	08.03	13/05/2012	18.22	Extension of Bus-I
Voltage Level : 220KV			Outage Type PLANNED OUTAGE		
Sarani - Pandurna	10/05/2012	08.38		Continued.	Erection of New Tower @ Loc.No.4AR/MC 10 Outage upto
Voltage Level : 400KV			Outage Type HAND TRIPPED		
Dhule-Sar'Sarovar - II	09/05/2012	22.20		Continued.	Over Voltage.
Kolhapur - Mapusa - I	12/05/2012	17.13		Continued.	Over Voltage
Voltage Level : 220KV			Outage Type TRIPPED		
Kalmeshwar - Pandurna	13/05/2012	16.50	13/05/2012	17.41	Distance Protection
IntraState					
Voltage Level : 400KV			Outage Type PLANNED OUTAGE		
50 MVAR Line Reactor on 400 KV Parly Ckt.-III at Chandrapur	22/03/2012	11.00		Continued.	High tan delta value of bushing.
50MVAR Reactor C'Pur - Parli -I at Parli end	16/04/2012	16.50		Continued.	Filtration work
400/220KV 315MVA ICT-II @ BBLSR	12/05/2012	07.16	13/05/2012	00.27	Premansoon maint.work
Padgha - Kalwa- I	13/05/2012	08.17	13/05/2012	15.18	Replacement of Y Phase Pilot string
Chandrapur - Parli - I	13/05/2012	08.30	13/05/2012	13.33	Replacement of Isolator(Line on TBC at Parli end)
Main Bus- I @ 400 KV Parli	13/05/2012	08.46	13/05/2012	13.27	Jumper connection betn.existing Bus-I and extended bus of New 500MVA ICT -III Bay
Newkoyna - Jaigad - I	13/05/2012	09.42	13/05/2012	14.30	Cold Line Washing of Insulator
Auxiliary Bus @ Parly - II	13/05/2012	14:32	13/05/2012	17:45	Bus extension work for new 500 MVA ICT -III.
Voltage Level : 220KV			Outage Type PLANNED OUTAGE		
220/132 KV 150 MVA ICT @ Bhandara	28/12/2011	13.57		Continued.	Replacement of ICT by 200MVA
Uran-Kharghar-II	15/02/2012	07.42		Continued.	Mumbai system strengthing work
Khargar-Topworth	15/02/2012	07.47		Continued.	Mumbai system strengthing work
Kharghar-TSS	18/02/2012	08.52		Continued.	Temporary Reconfigured as Uran-TSS at 20.30Hrs Dt.18/2/12
Uran - Kharghar - I	19/02/2012	07.50		Continued.	Mumbai System Strengthening Work.
220/132 KV 100 MVA ICT II at Girvali	14/04/2012	12:05		Continued.	Augumentation by 200 MVA ICT.
Auxiliary Bus @ Babhleshwar	08/05/2012	09.20		Continued.	Conductor Replacement Work.
Main Bus- II @ Kharghar	12/05/2012	09.58		Continued.	Isolator alignment work
Voltage Level : 400KV			Outage Type HAND TRIPPED		
Bhusawal- Aurangabad	13/05/2012	17.35		Continued.	Over Voltage
Karad-Kolhapur-II	13/05/2012	17.48		Continued.	Over Voltage
Voltage Level : 220KV			Outage Type HAND TRIPPED		
Padgha - Temghar - II	24/04/2012	17.56		Continued.	To Control Padgha ICT.
Malinagar-Temburni	08/05/2012	11.21		Continued.	To Control Loading of 220 KV

State Load Dispatch Center, Airoli (MSETCL)
Details of Line outages/Trippings for 13/May/2012

Position as on 6.30 Hrs of 14/May/2012

Name of Line	Tripped Date	Tripped Time	Synchronise d Date	Synchronise d Time	Reason of Outage
					Padharpur- Lamboti Line.
220/132KV 200MVA ICT-II at Khadka	12/05/2012	14.37	13/05/2012	00:26	Sparking on LV Side.
Voltage Level : 400KV			Outage Type TRIPPED		
400/ 21.75 KV 600 MVA GT IV @ Deepnagar	12/05/2012	14.40		Continued.	B Phase L.A.Burst
Deepnagar-Aurangabad-I	12/05/2012	15.47		Continued.	PSB operated
400/220KV 315MVA ICT-II @ BBLSR	13/05/2012	11.32	13/05/2012	12.46	Distance Scheme VT Supply Fail
400/220 KV315 MVA ICT-I @ BBLR	13/05/2012	11.32	13/05/2012	12.45	Distance Scheme VT Supply Fail
Voltage Level : 220KV			Outage Type TRIPPED		
220/132KV, 200MVA ICT-I at Khadka	12/05/2012	14.37	13/05/2012	00.26	Sparking of LV Isolator
Vankuswadi-KDPH	12/05/2012	21.40	13/05/2012	17.00	Distance Protection
Vankuswadi - MIDC Satara- II	12/05/2012	21.52	13/05/2012	18.48	Distance Protection(Prob.in Breaker at Satara end)
Badnera - Deoli (PGCIL)	13/05/2012	01.57	13/05/2012	07.41	Distance Protection
Karad-Pedambe	13/05/2012	02.50		Continued.	Distance Protection(Declared faulty)
Warora - Wardha Power - II	13/05/2012	08.58		Continued.	R Phase B/C CT Burst
Warora-Hinganghat	13/05/2012	08.58	13/05/2012	10.00	R Phase B/C CT Burst
Warora - Wani	13/05/2012	08.58	13/05/2012	09.42	R Phase B/C CT Burst
Chandrapur - Warora	13/05/2012	08.58	13/05/2012	09.35	R Phase B/C CT Burst
Wardha Power - Warora-I	13/05/2012	08.58		Continued.	R Phase B/C CT Burst
Bableshwar - Alephata	13/05/2012	11.32	13/05/2012	16.30	Distance Scheme VT Supply Fail
Main Bus -I at BBLSR	13/05/2012	11.32	13/05/2012	12.24	Distance Scheme VT Supply Fail
Bableshwar-Nasik-I	13/05/2012	11.32	13/05/2012	12.48	Distance Scheme VT Supply Fail
Babaleshwar - Nagar - II	13/05/2012	11.32	13/05/2012	12.46	Distance Scheme VT Supply Fail
Babaleshwar - Nagar - I	13/05/2012	11.32	13/05/2012	12.47	Distance Scheme VT Supply Fail
Karad-Kolhapur - II	13/05/2012	16.23	13/05/2012	18.33	Distance Protection
Voltage Level : 132KV			Outage Type TRIPPED		
Paranda-Bhoom	12/05/2012	18.33	13/05/2012	18.35	Tripped
Kallamb - Bhoom	12/05/2012	18.40	13/05/2012	06.05	R Phase LA Burst
Voltage Level : 100KV			Outage Type TRIPPED		
Kalwa-Pal	11/05/2012	05.40		Continued.	100 KV Kalwa Creek bus outage, Tower at Loc.No.9 collapsed at 19.42 Hrs.
Pal-Taloja	11/05/2012	19.42		Continued.	Distance Protection, Tower at Loc.9 collapsed at 19.42 Hrs.

State Load Dispatch Center, Airoli (MSETCL)

Details of On Line Capacity for 14/May/2012

Generating unit	Derated Capacity (MW)	OLC (MW)	Generating unit	Derated Capacity (MW)	OLC (MW)
Koradi			TILLARI	60	46
Unit 5	200	135	BHTGR/VEER	21	0
Unit 6	210	130	BHIRA T.R.	80	80
Unit 7	210	155	RNGR+BHTSA	20	12
	620	420	BHANDARDRA	45	47
Bhusawal			ELDARY	23	0
Unit 2	210	160	SMLHY_PTIN	12	8
Unit 3	210	160	GHATGHAR	250	0
Unit 4	500	0		611	288
Unit 5	500	0	Wind		
	1420	320	MalharPeth	0	
Parli			Vankuswadi	0	
Unit 3	210	190	ATIT	0	
Unit 4	210	165	Kale	0	
Unit 5	210	165	Satara	0	
Unit 6	250	150	Shirala	0	
Unit 7	250	0	K Mahankal	0	
	1130	670	Supa	0	
Chandrapur			Vita	0	
Unit 1	210	170	Dondaicha	0	
Unit 2	210	135	Sakri	0	
Unit 3	210	175	Nandurbar	0	
Unit 4	210	150	Khandke	0	
Unit 5	500	470	Khaparale	0	
Unit 6	500	425		0	
Unit 7	500	0	CPP		
	2340	1525	JSW_JAIGAD	600	1007
Paras			WARDHA	405	0
Unit 3	250	250	Other_CPPs	0	
Unit 4	250	0		1005	1007
	500	250	Tata		
Khaparkheda			Trombay 4	150	0
Unit 1	210	180	Trombay 5	500	500
Unit 2	210	180	Trombay 6	500	500
Unit 3	210	180	Trombay 7A	120	120
Unit 4	210	180	Trombay 7B	60	60
Unit 5	500	250	Trombay 8	250	250
	1340	970	TATA Hydro	444	447
Nasik				2024	1877
Unit 3	210	210	REL		
Unit 4	210	200	1&2	500	500
Unit 5	210	190		500	500
	630	600	Cent Sect		
Uran			Share	3455	5528
All Units	852	460		3455	5528
	852	460			
PENCH (MS)					
Pench (MS)	53				
	53				
Koyna					
Stage 1-2	600	535			
Stage 4	1000	250			
Stage 3	320	320			
	1920	1105			
Hydro					
KDPH	40	35			
VTRNA	60	60			