

Reply to queries by Shri. Vivek Velankar

A) Basis of Calculation of Load Shedding hours for Pune, Authorization by MERC and Reasons for deviations from MERC protocol

Based on the demand supply gap, MSEDCL is compelled to implement load shedding. As per Hon Supreme Court's order dated 13.5.2005 the load sheddings are to be decided by MSEDCL in consultation with MERC. Accordingly based on the consultations with MERC from time to time and general guidelines issued by MERC about the sheddable and non sheddable load, groups based on losses and collection efficiency, detailed loadshedding protocols for the whole state is prepared and implemented by the MSEDCL.

The details of MW & MU requirement, the load shedding hours as per load shedding protocol for Pune are as shown below.

Pune City is covered under group A & B up to 11.8.2008. Therefore the details under group - C are not shown till then.

L.S. protocol Circular No. & date	Hours of L.S. A Group	Hours of L.S. B Group	Hours of L.S. C Group	MW requirement (12 Hours)	MU requirement
10 dt 13.5.2008	3	3.75	----	154	1.844
11 Dt 07.7.2008	3.75	4.50	-----	182	2.181
12 Dt 18.7.2008	4.75	5.50	-----	219	2.630
13 Dt 23.7.2008	5.75	6.50	-----	271	3.254
15 Dt 25.7.2008	5.75	6.50	-----	289	3.472
17 Dt 09.8.2008	5.75	6.50	-----	271 *	3.254 *
18 Dt 11.8.2008	3.75	4.5	5.25	200	2.40
19 Dt 25.8.2008	4.75	5.5	6.25	237	2.849
20 Dt 30.8.2008	5.75	6.5	7.25	308	3.690

* One day staggering hours reduced to 24 hours on trial basis, since 07.8.2008.

As per the Supreme Court order dated 13.5.2005 ,MSEDCL is authorized to decide the load shedding in consultation with MERC. At the same time, MSEDCL is also bound to take all action as per oral/standing instructions of SLDC, RLDC to take all necessary

urgent and emergency measures to reduce overdrawal and maintain grid security u/s 33 of EA 2003. Therefore because of dynamic situation of mismatch between generation and load, whenever, there is an overdrawal forcing SLDC/RLDC to open EHV lines and thereby urgent threat to grid security despite observing the load shedding protocol, as per instructions of RLDC/SLDC, MSEDCL is duty bound to urgently enhance/adjust loadshedding protocol to maintain grid security and has to act urgently. However while making changes in the loadshedding protocol, it generally follows the broad principles laid down by the MERC and based on whatever estimated data is available on likely demand and supply scenario during the next few days/weeks, administrative judgment is made and loadshedding protocol is accordingly changed. Thereafter as soon as it is practicable, the changed protocol is submitted to MERC.

During July and early August 2008 due to delayed rains, additional AG loads and residential loads, the system demands increased. The overall availability was less due to the fact that some thermal sets were on planned annual overhaul. The RGPPL availability reduced from 1200 MW to 300 MW. There was no significant tradable power available in the country. Some of these reasons have also been given by you in your letter. Thus, the gap between availability and demand increased in the state leading to EHV openings and UFR trippings. The daily demand and supply data is available at the website of SLDC. In order to control the forced load shedding due to EHV openings and UFR tripping, and for grid security the load shedding protocol was modified as listed in the above table. After taking these urgent steps, MERC have been informed of the urgency of the situations and actions taken by us. Based on these modified protocols issued for the whole state from time to time, load shedding hours for Pune were decided and MW and MU requirements figures were determined and have been given in the above table.

B) Details of Orders Placed on M/s Tata Power Company for procurement of power to mitigate load shedding in Pune

M/s TATA Power was given order for power supply as under:

1. Dt. 4th April 2008 for 100 MW RTC (Round the Clock). @ 9.44 per unit. (from 4.4.2008 to 15.04.2008)
2. Dt. 11th April 2008 for 100 MW RTC . @8.05 per unit. (from 16.04.2008 to 31.05.2008)
3. Dt. 27th May 2008 for 50 MW for 12 Hours @ 8.65 per unit. (from 1.06.2008 to 30.06.2008)
4. Dt. 10th July 2008 for 150 MW for 12 Hours @ 8.54 per unit. (from 9.07.2008 to 31.05.2009)

The quantum calculation for the above orders is based on the load shedding protocol as above.

C) Procurement of power on firm basis

The instructions not to purchase infirm power and purchase only firm power were issued to TPTCL in August 2008. This is because the availability of power by TPTCL was very less (data shown in the enclosed table viz "Requirement & shortfall of Power to mitigate Load Shedding in Pune City"). Under such circumstances in order to implement Zero Load Shedding (ZLS) we would have to give support from grid which is not permitted by MERC vide their order dated 13-03-2008. As such we requested TPTCL to procure firm power only so that Pune would not need grid support at the expense and inconvenience of the rest of the state of Maharashtra.

D) Efforts and difficulties in procurement of power

MSEDCL has been taking all possible steps such as purchasing firm power through firm PPAs with NTPC plants, Mahagenco Plants, Nuclear power Plants, Non conventional generators. In addition MSEDCL has also been purchasing powers through out the year through traders whenever it finds that rates are at reasonable level. Nationally there is a huge shortage of power of over 10,000 MW and tradable infirm power usually is available in much lower quantity only in the range of 300 – 600 MW and that too at very very high and exorbitant rate of Rs 8- Rs 10 per unit. While deciding to purchase such costly power MSEDCL has to exercise administrative judgment and balance the interest and convenience of consumers at large and keep tariff at a reasonable level and discourage power generators from exploiting the situation. Moreover, infirm power on day head basis, due to its unpredictable nature, cannot be relied upon to reduce the loadshedding hours in the loadshedding protocol.

Requirement & shortfall of Power to mitigate Load Shedding in Pune City.

Date	Requirement of power to mitigate load shedding in		Power availability from M/s TPTCL		Power availability from CPP		Total Availability		Total Shortfall	
	MW	Mus	MW	Mus	MW	Mus	MW	Mus	MW	Mus
1-Jul-08	154	1.848	0	0.000	27.69	0.332	27.690	0.332	126.310	1.516
2-Jul-08	182	2.184	0	0.000	24.030	0.288	24.030	0.288	157.970	1.896
3-Jul-08	182	2.184	0	0.000	17.330	0.208	17.330	0.208	164.670	1.976
4-Jul-08	182	2.184	0	0.000	23.100	0.277	23.100	0.277	158.900	1.907
5-Jul-08	182	2.184	0	0.000	17.860	0.214	17.860	0.214	164.140	1.970
6-Jul-08	182	2.184	0	0.000	15.450	0.185	15.450	0.185	166.550	1.999
7-Jul-08	182	2.184	0	0.000	24.300	0.292	24.300	0.292	157.700	1.892
8-Jul-08	182	2.184	0	0.000	23.750	0.285	23.750	0.285	158.250	1.899
9-Jul-08	182	2.184	41.67	0.500	24.240	0.291	65.907	0.791	116.093	1.393
10-Jul-08	182	2.184	67.50	0.810	14.930	0.179	82.430	0.989	99.570	1.195
11-Jul-08	182	2.184	72.50	0.870	25.480	0.306	97.980	1.176	84.020	1.008
12-Jul-08	182	2.184	79.17	0.950	21.480	0.258	100.647	1.208	81.353	0.976
13-Jul-08	182	2.184	100.83	1.210	16.190	0.194	117.023	1.404	64.977	0.780
14-Jul-08	182	2.184	115.00	1.380	2.910	0.035	117.910	1.415	64.090	0.769
15-Jul-08	182	2.184	103.33	1.240	19.960	0.240	123.293	1.480	58.707	0.704
16-Jul-08	182	2.184	54.17	0.650	22.980	0.276	77.147	0.926	104.853	1.258
17-Jul-08	182	2.184	84.17	1.010	10.380	0.125	94.547	1.135	87.453	1.049
18-Jul-08	219	2.628	45.83	0.550	19.850	0.238	65.683	0.788	153.317	1.840
19-Jul-08	219	2.628	52.50	0.630	20.270	0.243	72.770	0.873	146.230	1.755
20-Jul-08	219	2.628	19.17	0.230	14.850	0.178	34.017	0.408	184.983	2.220
21-Jul-08	219	2.628	55.83	0.670	20.870	0.250	76.703	0.920	142.297	1.708
22-Jul-08	219	2.628	18.42	0.221	21.690	0.260	40.107	0.481	178.893	2.147
23-Jul-08	271	3.252	22.67	0.272	22.740	0.273	45.407	0.545	225.593	2.707
24-Jul-08	271	3.252	18.25	0.219	10.710	0.129	28.960	0.348	242.040	2.904
25-Jul-08	289	3.468	12.50	0.150	0.000	0.000	12.500	0.150	276.500	3.318
26-Jul-08	289	3.468	12.50	0.150	0.000	0.000	12.500	0.150	276.500	3.318
27-Jul-08	289	3.468	12.50	0.150	0.000	0.000	12.500	0.150	276.500	3.318
28-Jul-08	289	3.468	15.83	0.190	0.000	0.000	15.833	0.190	273.167	3.278
29-Jul-08	289	3.468	26.67	0.320	0.000	0.000	26.667	0.320	262.333	3.148
30-Jul-08	289	3.468	47.50	0.570	0.000	0.000	47.500	0.570	241.500	2.898
31-Jul-08	289	3.468	23.33	0.280	0.000	0.000	23.333	0.280	265.667	3.188
1-Aug-08	289	3.468	19.17	0.230	0.000	0.000	19.167	0.230	269.833	3.238
2-Aug-08	289	3.468	26.67	0.320	0.000	0.000	26.667	0.320	262.333	3.148
3-Aug-08	289	3.468	124.17	1.490	0.000	0.000	124.167	1.490	164.833	1.978
4-Aug-08	289	3.468	30.00	0.360	0.000	0.000	30.000	0.360	259.000	3.108
5-Aug-08	289	3.468	39.33	0.472	0.000	0.000	39.333	0.472	249.667	2.996
6-Aug-08	289	3.468	106.67	1.280	0.000	0.000	106.667	1.280	182.333	2.188
7-Aug-08	271	3.252	126.67	1.520	0.000	0.000	126.667	1.520	144.333	1.732
8-Aug-08	271	3.252	138.92	1.667	0.000	0.000	138.917	1.667	132.083	1.585
9-Aug-08	271	3.252	160.58	1.927	0.000	0.000	160.583	1.927	110.417	1.325
10-Aug-08	271	3.252	129.17	1.550	0.000	0.000	129.167	1.550	141.833	1.702
11-Aug-08	271	3.252	45.83	0.550	0.000	0.000	45.833	0.550	225.167	2.702
12-Aug-08	200	2.4	42.50	0.510	0.000	0.000	42.500	0.510	157.500	1.890
13-Aug-08	200	2.4	56.50	0.678	0.000	0.000	56.500	0.678	143.500	1.722
14-Aug-08	200	2.4	75.67	0.908	0.000	0.000	75.667	0.908	124.333	1.492
15-Aug-08	200	2.4	44.25	0.531	0.000	0.000	44.250	0.531	155.750	1.869
16-Aug-08	200	2.4	167.50	2.010	0.000	0.000	167.500	2.010	32.500	0.390
17-Aug-08	200	2.4	169.17	2.030	0.000	0.000	169.167	2.030	30.833	0.370
18-Aug-08	200	2.4	186.17	2.234	0.000	0.000	186.167	2.234	13.833	0.166
19-Aug-08	200	2.4	186.92	2.243	0.000	0.000	186.917	2.243	13.083	0.157
20-Aug-08	200	2.4	19.25	0.231	0.000	0.000	19.250	0.231	180.750	2.169
21-Aug-08	200	2.4	19.25	0.231	0.000	0.000	19.250	0.231	180.750	2.169
22-Aug-08	200	2.4	19.25	0.231	0.000	0.000	19.250	0.231	180.750	2.169
23-Aug-08	200	2.4	19.25	0.231	0.000	0.000	19.250	0.231	180.750	2.169
24-Aug-08	200	2.4	19.25	0.231	0.000	0.000	19.250	0.231	180.750	2.169
25-Aug-08	200	2.4	19.25	0.231	0.000	0.000	19.250	0.231	180.750	2.169
26-Aug-08	200	2.4	56.92	0.683	0.000	0.000	56.917	0.683	143.083	1.717

27-Aug-08	237	2.844	58.50	0.702	0.000	0.000	58.500	0.702	178.500	2.142
28-Aug-08	237	2.844	70.92	0.851	0.000	0.000	70.917	0.851	166.083	1.993
29-Aug-08	237	2.844	169.25	2.031	0.000	0.000	169.250	2.031	67.750	0.813
30-Aug-08	237	2.844	156.75	1.881	0.000	0.000	156.750	1.881	80.250	0.963
31-Aug-08	237	2.844	131.75	1.581	0.000	0.000	131.750	1.581	105.250	1.263
1-Sep-08	237	2.844	131.92	1.583	0.000	0.000	131.917	1.583	105.083	1.261
2-Sep-08	308	3.696	50.42	0.605	0.000	0.000	50.417	0.605	257.583	3.091
3-Sep-08	308	3.696	168.25	2.019	0.000	0.000	168.250	2.019	139.750	1.677
4-Sep-08	308	3.696	30.83	0.370	0.000	0.000	30.833	0.370	277.167	3.326
5-Sep-08	308	3.696	57.75	0.693	0.000	0.000	57.750	0.693	250.250	3.003
6-Sep-08	308	3.696	57.42	0.689	0.000	0.000	57.417	0.689	250.583	3.007

NOTE:

1. LS implemented in Pune city since 16.7.08 as per LS circulars and instructions received

2. zero Load shedding withdrawn since 25.7.2008, CPP generation totally stopped from 25.07.08 as per LS Circular from CE (LM)

3. CPP Consumers was not in position to generate more power due to non availability of Fuel, as there was shortage of fuel allover in Maharashtra.

4. CPP Power shown here is taken on daily basis from telephonic information from CII CPP Consumers.