

DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

APRIL 2013

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SALIENT FEATURES OF DELHI POWER SYSTEM

Sr. No.	Features	APRIL 2013	APRIL 2012
1	Effective Generation Capacity within Delhi in MW		
	Rajghat Power House	135	135
	Gas Turbine	270	270
	Pragati Power Corporation Ltd.	330	330
	Badapur Thermal Power Station	705	705
	Rithala GT	108	108
	Bawana	677	216
	TOWMCL	16	--
	Total	2241	1764
2	Maximum Unrestricted Demand (MW)	4190	3779
	Date	30.04.2013	10.04.2012
	Time	15.36.53	15.46.48
3	Peak Demand met (MW)	4190	3779
	Date	30.04.2013	10.04.2012
	Time	15.36.53	15.46.48
4	Peak Availability (MW)	4069	3698
5	Shortage (-) / Surplus (+) in MW	(-) 121	(-)81
6	Percentage Shortage (-) / Surplus (+)	(-) 2.89	(-) 2.14
7	Maximum Energy Consume in a day (Mus)	81.251	75.345
8	Energy Consumed during the month	2075.841	2053.099
9	Load Shedding in Mus		
A)	Due to Grid Restrictions		
i)	Under Frequency Relay Operations	0.000	0.039
ii)	Manual Load shedding from DTL S/Stns.	0.000	0.000
iii)	Load Shedding due to low frequency / Low Voltage / TTC/ATC Violation		
	NDPL	2.112	0.000
	BRPL	2.072	0.099
	BYPL	1.845	0.000
	NDMC	0.104	0.000
	MES	0.000	0.000
iv)	Due to transmission Constraints in Central Sector	0.000	0.000
	Total due to Grid Restriction	6.133	0.138
B)	Due to Constraints in System in Mus		
	DTL	0.451	1.911
	NDPL	0.066	0.159
	BRPL	0.184	0.811
	BYPL	0.326	0.194
	NDMC	0.000	0.000
	MES	0.000	0.000
	Other Agencies	0.000	0.002
	Total	1.027	3.077
11	Grand Total in Mus	7.160	3.215

2. **PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING APRIL 2013**

A) For the month of April 13

All Figures in MUs

S. No	Stations	Gross Generation	Aux. Consumption	Net Generation	Availability (%)	Backing Down
1.	RPH	79.483	10.190	69.293	81.22	0.0000
2.	GT	129.320	3.607	125.713	90.62	45.5157
3.	PPCL	201.473	5.380	196.093	90.31	13.013
4.	BTPS	402.170	28.775	373.395	93.51	53.2675
5.	Rithala	0.000	0.135	-0.135	89.17	59.04
6.	Bawana	19.378	2.055	17.323	37.20	160.8905
	TOTAL	831.824	50.142	781.682	--	331.7267

B) For the Year 2013-14 (Upto April 2013)

Power Station	Effective Capacity (MW)	Net Generation in MUs for Apr 2013	Availability (%) for Apr 2013	PLF (%) for Apr 2013	Cumulative Generation in MUs upto Apr. 2013 for the year 2013-14	Cumulative Availability in % upto Apr 2013 for the year 2013-14	Cumulative PLF in % upto Apr. 2013 for the year 2013-14
RPH	135	69.293	81.22	81.22	69.293	81.22	81.22
GT	270	125.713	90.62	66.48	125.713	90.62	66.48
PPCL	330	196.093	90.31	84.67	196.093	90.31	90.31
BTPS	705	373.395	93.51	81.91	373.395	93.51	81.91
Rithala	108	-0.135	89.17	0.00	-0.135	89.17	0.00
Bawana	677	17.323	37.20	3.59	17.323	37.20	3.59
TOTAL	2225	781.682	--	--	781.682	--	--

3
(A)

DETAILS OF OUTAGES OF GENERATING STNS. WITHIN DELHI W.E.F. APRIL 2012
RPH STATION

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	67.5	03.04.13	18.35	03.04.13	19.45	Unit tripped due to drum level very low.
		04.04.13	08.55	04.04.13	09.45	Unit tripped due to drum level low.
		14.04.13	10.20	14.04.13	15.40	Unit desynchronised to attend the CW line leakage.
		19.04.13	08.25	19.04.13	16.40	Unit desynchronised to attend the Boiler window repairing.
		19.04.13	17.00	19.04.13	17.30	Unit tripped due to bay no. 20 tripped.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	67.5	03.04.13	04.10	03.04.13	05.35	Unit tripped due to turbine trip.
		05.04.13	20.00	06.04.13	04.05	Unit desynchronised to attend the economiser tube leakage.
		14.04.13	10.10	14.04.13	18.15	Unit desynchronised to attend the CW line leakage.

(B)

Gas Turbine

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	30	01.04.13	0:00	01-04-13	5:45	Stopped due to low demand and high frequency
		03.04.13	16:30	10-04-13	11:25	Stopped due to low demand and high frequency
		18.04.13	23:20	19-04-13	12:01	Machine stopped to rectify the faulty Controller
		19.04.13	12:15	22-04-13	5:47	Stopped due to low demand and high frequency
		29.04.13	11:31	29-04-13	23:37	Stopped due to low demand and high frequency

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	30	01-04-13	0:00	01-04-13	5:35	Stopped due to low demand and high frequency
		03-04-13	12:02	09-04-13	5:50	Stopped due to low demand and high frequency
		10-04-13	17:25	11-04-13	11:45	Stopped due to low demand and high frequency
		28-04-13	21:40	28-04-13	23:45	Stopped due to low demand and high frequency

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
3	30	01-04-13	0:00	01-04-13	7:30	Stopped due to low demand and high frequency
		17-04-13	10:40	22-04-13	8:10	Stopped due to low demand and high frequency
		28-04-13	21:46	29-04-13	10:55	Stopped due to low demand and high frequency

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
4	30	01-04-13	0:00	03-04-13	15:50	Stopped due to low demand and high frequency
		17-04-13	10:40	27-04-13	3:15	Stopped due to low demand and high frequency

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
5	30	28-04-13	9:34	30-04-13	23:59	Stopped due to low demand and high frequency

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
6	30	10-04-13	12:45	10-04-13	16:30	Stopped due to low demand and high frequency
		21-04-13	12:42	22-04-13	10:15	Stopped due to low demand and high frequency
		28-04-13	9:32	30-04-13	0:40	Stopped due to low demand and high frequency

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG-1	30	01-04-13	0:00	01-04-13	9:15	Stopped due to low demand and high frequency
		01-04-13	9:30	01-04-13	11:10	Machine stopped due to inspection of high Vibration
		03-04-13	16:30	09-04-13	8:25	Stopped due to low demand and high frequency
		29-04-13	11:31	30-04-13	2:05	Stopped due to low demand and high frequency

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG-2	30	01-04-13	0:00	01-04-13	11:25	Stopped due to low demand and high frequency
		16-04-13	10:40	22-04-13	11:45	Stopped due to low demand and high frequency
		23-04-13	12:14	23-04-13	13:09	Machine tripped due to malfunctioning of MS-14 Valve
		27-04-13	5:30	27-04-13	6:15	Machine tripped in the jerk.
		28-04-13	21:46	29-04-13	11:30	Stopped due to low demand and high frequency

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG-3	30	05-04-13	17:05	05-04-13	18:20	Machine stopped manually to attend oil Leakage from Secondary oil Pressure line
		28-04-13	9:34	30-04-13	4:25	Stopped due to low demand and high frequency

(C) PRAGATI STATION

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	104	NIL				

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	104	21.04.13	8.15	21.04.13	18.15	Stopped by DTL to attend hot spot.
		21.04.13	18.15	23.04.13	6.31	Tripped on internal fault
		26.04.13	6.45	26.04.13	8.37	Tripped on internal fault

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG	122	17.04.13	18.37	17.04.13	19.52	Tripped on internal fault
		21.04.13	11.44	21.04.13	14.15	Tripped on internal fault
		21.04.13	14.15	21.04.13	18.36	Shut down continued by DTL to attend hot spot.

(D) BADARPUR THERMAL POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	95	01.04.13	0:00	01.04.13	19:18	Reserve Shutdown

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	95	NIL				

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
3	95	03.04.13	19:55	22.04.13	13:40	Planned Shutdown

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
4	210	09.04.13	22:17	10.04.13	2:07	MDBFP relay malfunction

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
5	210	NIL				

(E) BAWANA CCGT POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	216	01.04.13	00:00	01.04.13	8:39	Combustion inspection
		05.04.13	10:55	21.04.13	--	M/C under planned shut down due to CW interconnection/CW sump cleaning/Diverter Damper setting

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	216	05.04.13	13:13	12.04.13	19.02	M/C under planned shut down due to CW interconnection/CW sump cleaning/Diverter Damper setting up to 12.04.13
		14.04.13	13.40	25.04.13	08.57	Stopped due to low demand and high frequency
		29.04.13	22.25	30.04.13	06.25	M/C Stopped due to gas leakage in pipe line

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG	254	01.04.13	0:00	27.04.13	19.19	M/C under planned shut down due to CW interconnection/CW sump cleaning/Diverter Damper setting up to 12.04.13 after force shutdown due to bearing failure of turbine up to 25.04.13 and 25.04.13 to 27.04.13 due to generator IR value low
		29.04.13	22:25	30.04.13	6:25	M/C Stopped due to gas leakage in pipe line
		30.04.13	22:07	30.04.13	23:37	GT#2 Diverted damper is closed

(E) RITHALA POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	31.8	19.03.13	17:32	Contd.		No schedule have been given by SLDC on Spot gas

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	31.8	05.03.13	15:38	Contd.		No schedule have been given by SLDC on Spot gas Gas turbine taken on spot)

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG	31.8	27.02.13	00:01	Contd.		No schedule have been given by SLDC on Spot gas

4
A)

ALLOCATION OF POWER TO DELHI

Allocation of power to Delhi from Unallocated quota of Central Sector Generating Stations to Delhi w.e.f. 19.01.2013

Time block 00.00hrs. to 24.00hrs. @ 0% allocation from Unallocated Quota

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocated Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
<u>NTPC STATIONS</u>							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand-I	1000	150	100	87	0	0	87
Rihand Stage -II	1000	150	126	109	0	0	109
Rihand Stage -III	500	75	66	57	0	0	57
ANTA GPS	419	63	44	41	0	0	41
Auriya GPS	663.36	99	72	67	0	0	67
Dadri GPS	829.78	129	91	85	0	0	85
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	147	735	639	0	0	639
Unchahaar-I TPS	420	20	24	21	0	0	21
Unchahaar-II TPS	420	63	47	41	0	0	41
Unchahaar-III TPS	210	31	29	25	0	0	25
TOTAL	9282	1227	2240	1959	0	0	1959
<u>NHPC</u>							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	0	0	38
Chamera-III HEP	231	35	29	28	0	0	28
URI HEP	480	0	53	50	0	0	50
Sewa HEP	120	18	16	15	0	0	15
Dhaulti Ganga HEP	280	42	37	35	0	0	35
Dulhasti HEP	390	58	50	48	0	0	48
TOTAL	3305	206	380	361	0	0	361
<u>NPC</u>							
Narora APS	440	64	47	41	0	0	41
RAPP(B)	440	66	0	0	0	0	0
RAPP (C)	440	64	56	49	0	0	49
TOTAL	1320	194	103	89	0	0	89
<u>SVJNL</u>							
Nathpa Jhakri HEP	1500	149	142	123	0	0	123
<u>THDC</u>							
Tehri Hydro	1000	99	103	89	0	0	89
Koteshwar HEP	400	40	39	37	0	0	37
TOTAL	1400	139	142	127	0	0	127
Total	16807	1915	3007	2660	0	0	2660
<u>Allocation from ER and Tala HEP</u>							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	6210	153	290	242	0	0	242
<u>Joint Venture</u>							
Jhajjar TPS	1000	76	231	201	0	0	201
Grand Total	24017	2144	3528	3102	0	0	3102

5 ALLOCATION OF POWER TO DISCOMS

ALLOCATION OF POWER TO VARIOUS LICENCEES AS PER ORDER OF DERC AND DECISION OF GNCTD FOR ALLOCATION OF CENTRAL SECTOR STATIONS (DADRI THERMAL & BTPS) AND STATE SECTOR GENERATING STATIONS w.e.f. 01.04.2011.

(Allocation In %)

(A) 10.00hrs. to 17.00hrs.

SOURCES	LICENSEES					
	NDMC	MES	NDPL	BRPL	BYPL	TOTAL
1. Central Sector without Dadri (Th)	0.00	0.00	29.18	43.58	27.24	100.00
2. Dadri (Th)	14.98	0.00	24.18	36.87	23.97	100.00
3. BTPS	15.94	7.09	21.88	33.37	21.72	100.00
4. RPH	0.85	0.00	28.39	42.97	27.79	100.00
5. GT	0.93	0.00	28.28	42.99	27.80	100.00
6. Pragati	26.69	0.00	20.77	31.76	20.7	100.00
7. DVC	0.00	0.00	29.18	43.58	27.24	100.00

(B) 00.00hrs. to 10.00hrs. and 17.00hrs. to 24.00hrs.

SOURCES	LICENSEES					
	NDMC	MES	NDPL	BRPL	BYPL	TOTAL
1. Central Sector without Dadri (Th)	0.00	0.00	29.18	43.58	27.24	100.00
2. Dadri (Th)	14.05	0.00	24.18	36.87	24.90	100.00
3. BTPS	15.07	7.09	21.88	33.37	22.59	100.00
4. RPH	0.00	0.00	28.390	42.97	28.64	100.00
5. GT	0.00	0.00	28.28	42.99	28.73	100.00
6. Pragati	25.76	0.00	20.77	31.76	21.71	100.00
7. DVC	0.00	0.00	29.18	43.58	27.24	100.00

POWER AVAILABILITY-DEMAND POSITION AT THE TIME OF PEAK DEMAND MET DURING APRIL 2013

All figures in MW

Date	Time of peak demand	Generation within Delhi							Import from the Grid	Schedule from the Grid	OD(-)/UD(+)	Demand met	Shedding	Un-Restricted Demand
		RPH	GT	PPCL	BTPS	Rithala	Bawana	Total						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=(3) to (8)	(10)	(11)	(12)=(11) - (10)	(13)=(11)+ (12)	(14)	(15)= (13)+ (14)
1	19.35.20	106	154	294	-2	0	539	1091	2018	2096	-78	3109	0	3109
2	17.13.37	106	190	290	0	0	623	1209	1847	1544	303	3056	0	3056
3	19.39.05	63	167	265	0	0	504	999	2227	2238	-11	3226	0	3226
4	19.48.46	105	170	271	0	0	463	1009	2242	2377	-135	3251	0	3251
5	19.28.44	56	164	293	0	0	541	1054	2182	2361	-179	3236	0	3236
6	19.24.55	104	164	263	0	0	442	973	2176	2341	-165	3149	0	3149
7	19.38.26	101	160	288	0	0	510	1059	1978	2065	-87	3037	0	3037
8	19.07.30	102	155	280	0	0	526	1063	2292	2246	46	3355	0	3355
9	11.33.14	102	190	286	0	0	544	1122	2240	2037	203	3362	33	3395
10	19.25.43	106	191	287	0	0	538	1122	2476	2389	87	3598	0	3598
11	19.34.29	106	224	291	0	0	538	1159	2440	2443	-3	3599	0	3599
12	19.07.22	104	225	288	0	0	531	1148	2472	2300	172	3620	17	3637
13	19.45.43	103	226	290	0	0	514	1133	2384	2479	-95	3517	3	3520
14	19.27.25	94	227	263	0	-4	432	1012	2249	2412	-163	3261	0	3261
15	15.19.12	103	222	265	0	-4	442	1028	2589	2641	-52	3617	0	3617
16	19.32.37	102	216	281	0	0	429	1028	2700	2634	66	3728	0	3728
17	19.33.43	102	144	184	0	-4	511	937	2774	2833	-59	3711	0	3711
18	15.31.41	98	143	280	0	-3	446	964	2836	2911	-75	3800	0	3800
19	19.31.03	101	114	287	0	-1	456	957	2611	2814	-203	3568	0	3568
20	19.28.25	101	111	289	0	-1	501	1001	2652	2795	-143	3653	0	3653
21	19.37.49	105	69	122	0	-1	428	723	2580	2629	-49	3303	0	3303
22	19.31.45	104	191	146	0	-1	518	958	2643	2837	-194	3601	0	3601
23	19.50.57	105	190	268	0	0	545	1108	2557	2726	-169	3665	0	3665
24	19.32.53	102	185	273	0	23	552	1135	2578	2699	-121	3713	0	3713
25	16.04.23	105	185	290	0	23	623	1226	2744	2932	-188	3970	0	3970
26	15.34.32	102	186	290	0	24	509	1111	2826	2884	-58	3937	0	3937
27	15.06.39	103	215	286	0	20	498	1122	2473	2705	-232	3595	34	3629
28	23.07.02	104	75	261	0	236	495	1171	2356	2382	-26	3527	0	3527
29	15.17.54	101	74	284	0	228	496	1183	2752	2787	-35	3935	0	3935
30	15.36.53	101	175	281	0	233	505	1295	2895	3016	-121	4190	0	4190

POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF MAXIMUM UNRESTRICTED DEMAND DURING APRIL 2013

Date	Time of peak demand	Generation within Delhi							Import from the Grid	Schedule from the Grid	OD(-)/UD(+)	Demand met	Shedding	Un-Restricted Demand
		RPH	GT	PPCL	BTPS	Rithala	Bawana	Total						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=(3) to (8)	(10)	(11)	(12)=(11) - (10)	(13)=(11)+(12)	(14)	(15)=(13)+(14)
1	19.35.20	106	154	294	-2	0	539	1091	2018	2096	-78	3109	0	3109
2	17.13.37	106	190	290	0	0	623	1209	1847	1544	303	3056	0	3056
3	19.39.05	63	167	265	0	0	504	999	2227	2238	-11	3226	0	3226
4	19.48.46	105	170	271	0	0	463	1009	2242	2377	-135	3251	0	3251
5	19.28.44	56	164	293	0	0	541	1054	2182	2361	-179	3236	0	3236
6	19.24.55	104	164	263	0	0	442	973	2176	2341	-165	3149	0	3149
7	19.38.26	101	160	288	0	0	510	1059	1978	2065	-87	3037	0	3037
8	19.07.30	102	155	280	0	0	526	1063	2292	2246	46	3355	0	3355
9	19.30.00	106	193	286	0	1	543	1129	2186	2164	22	3315	207	3522
10	19.25.43	106	191	287	0	0	538	1122	2476	2389	87	3598	0	3598
11	19.34.29	106	224	291	0	0	538	1159	2440	2443	-3	3599	0	3599
12	19.07.22	104	225	288	0	0	531	1148	2472	2300	172	3620	17	3637
13	19.45.43	103	226	290	0	0	514	1133	2384	2479	-95	3517	3	3520
14	19.27.25	94	227	263	0	-4	432	1012	2249	2412	-163	3261	0	3261
15	15.19.12	103	222	265	0	-4	442	1028	2589	2641	-52	3617	0	3617
16	19.32.37	102	216	281	0	0	429	1028	2700	2634	66	3728	0	3728
17	19.33.43	102	144	184	0	-4	511	937	2774	2833	-59	3711	0	3711
18	15.31.41	98	143	280	0	-3	446	964	2836	2911	-75	3800	0	3800
19	19.31.03	101	114	287	0	-1	456	957	2611	2814	-203	3568	0	3568
20	19.28.25	101	111	289	0	-1	501	1001	2652	2795	-143	3653	0	3653
21	19.37.49	105	69	122	0	-1	428	723	2580	2629	-49	3303	0	3303
22	19.31.45	104	191	146	0	-1	518	958	2643	2837	-194	3601	0	3601
23	19.50.57	105	190	268	0	0	545	1108	2557	2726	-169	3665	0	3665
24	19.32.53	102	185	273	0	23	552	1135	2578	2699	-121	3713	0	3713
25	16.04.23	105	185	290	0	23	623	1226	2744	2932	-188	3970	0	3970
26	15.34.32	102	186	290	0	24	509	1111	2826	2884	-58	3937	0	3937
27	15.06.39	103	215	286	0	20	498	1122	2473	2705	-232	3595	34	3629
28	23.07.02	104	75	261	0	236	495	1171	2356	2382	-26	3527	0	3527
29	15.17.54	101	74	284	0	228	496	1183	2752	2787	-35	3935	0	3935
30	15.36.53	101	175	281	0	233	505	1295	2895	3016	-121	4190	0	4190

SOURCEWISE SCHEDULED DRAWL FROM NORTHERN GRID AS WELL AS AVAILABILITY WITHIN DELHI FOR APRIL 2013

A) AVAILABILITY FROM GENCO AND PRAGATI STNs. (all fig in MUs)

A (i) RPH	79.483
(ii) GT+STG	129.320
(iii) PRAGATI	201.473
(iv) RITHALA	0.000
(v) BAWANA CCGT	19.378
TOTAL	429.654
B) AVAILABILITY FROM BTPS	372.593
C) AUXILIARY CONSUMPTION OF GENERATING STNs. EXCLUDING BTPS	21.367
D) NET GENERATION AVAILABLE WITHIN DELHI(A+B-C)	780.880

B) SOURCE WISE SCHEDULED DRAWL FROM THE NORTHERN GRID

NAME OF THE STATION	AVAILABILITY AT POWER PLANT	AVAILABILITY AT DELHI PERIPHERY	ALLOCATION MADE BY NRLDC AT POWER PLANT	ALLOCATION MADE BY NRLDC AT DELHI PERIPHERY
B/SUIL	6.973	6.802	5.584	5.447
SALAL	26.153	25.510	21.711	21.178
SASAN	0.765	0.747	0.765	0.747
TANKAPUR	1.783	1.739	1.461	1.425
CHAMERA	12.600	12.290	9.166	8.940
CHAMERA -II	13.531	13.198	9.626	9.390
CHAMERA -III	4.783	4.665	4.783	4.665
DHAULIGANGA	6.792	6.625	5.714	5.573
SEWA -2	8.615	8.404	6.880	6.711
URI	38.214	37.274	30.448	29.699
KOTESHWAR	8.164	7.964	8.164	7.964
MUNDRU_UMPP	0.000	0.000	0.000	0.000
ANTA (GAS)	21.573	21.042	12.559	12.251
ANTA (RLNG)	7.974	7.778	0.000	0.000
ANTA (LIQUID)	0.000	0.000	0.000	0.000
DADRI (GAS)	31.104	30.338	17.071	16.652
DADRI (RLNG)	31.295	30.526	0.000	0.000
DADRI (LIQUID)	0.000	0.000	0.000	0.000
AURAIYA (GAS)	18.789	18.327	9.991	9.746
AURAIYA (RLNG)	30.407	29.659	0.000	0.000
AURAIYA (LIQUID)	0.000	0.000	0.000	0.000
SINGRAULI	76.589	74.703	50.483	49.240
RIHAND -I	61.572	60.058	43.857	42.777
RIHAND -II	84.280	82.204	57.880	56.454
RIHAND -III	34.310	33.463	34.123	33.280
UNCHAHAHAR-I	15.254	14.880	14.776	14.413
UNCHAHAHAR-II	32.503	31.703	31.723	30.943
UNCHAHAHAR-III	4.384	4.274	4.212	4.106
DADRI (TH)	470.902	459.338	441.236	430.406
DADRI (TH) STAGE-II	493.640	481.498	396.111	386.372
NAPP	16.337	15.933	16.337	15.933
RAPP 'B'	0.000	0.000	0.000	0.000
RAPP 'C'	39.351	38.383	39.351	38.383
NATHPA JHAKRI	42.412	41.368	42.412	41.368
DULASTI	18.541	18.085	15.691	15.306
TEHRI	19.524	19.044	19.524	19.044
JHAJJAR	139.071	135.654	11.920	11.628
KHELGAON	24.080	23.488	23.757	23.172
KHELGAON-II	38.104	37.163	37.691	36.760
FARAKA	12.184	11.885	12.136	11.838
TALA	3.661	3.571	3.661	3.571
TALCHER	0.000	0.000	0.000	0.000
DVC	167.626	165.695	165.695	161.609
MAHARASHTRA	0.371	0.364	0.364	0.355
GUJRAT	0.000	0.000	0.000	0.000
DVC TATA STEEL	0.000	0.000	0.000	0.000
DVC CTPS (BRPL)	1.100	1.087	1.087	1.060

NAME OF THE STATION	AVAILABILITY AT POWER PLANT	AVAILABILITY AT DELHI PERIPHERY	ALLOCATION MADE BY NRLDC AT POWER PLANT	ALLOCATION MADE BY NRLDC AT DELHI PERIPHERY
DVC CTPS (BYPL)	6.881	6.802	6.802	6.634
DVC CTPS (NDPL)	0.000	0.000	0.000	0.000
METHON POWER(NDPL)LT-06	188.903	186.732	186.732	182.134
DVC MEJIA (LT-08)(BYPL)	83.863	82.900	82.900	80.861
URS	1.786	1.743	1.786	1.743
HARYANA	0.286	0.283	0.283	0.276
HIMACHAL PRADESH	0.624	0.617	0.617	0.602
WEST BENGAL	7.562	7.476	7.476	7.292
MADHYA PRADESH(WR)	0.298	0.293	0.293	0.286
JAMMU & KASHMIR	35.572	35.206	35.206	34.340
DVC (FOR NDPL) LT-09	8.278	8.183	8.183	7.981
HARYANA (LT-05)	28.059	27.737	27.737	27.055
UTTAR PRADESH	36.232	35.751	35.751	34.872
PUNJAB	45.996	45.525	45.525	44.406
TO CHANDIGARH	-2.812	-2.841	-2.841	-2.912
TO UTTRANCHAL	-59.331	-60.313	-60.313	-61.835
TO UTTAR PRADESH	-39.105	-39.629	-39.629	-40.627
TO GUJRAT	-29.646	-30.182	-30.182	-30.942
TO TRIPURA	-11.361	-11.522	-11.522	-11.812
TO MEGHALAYA	-3.674	-3.747	-3.747	-3.839
TO HIMACHAL PRADESH	-0.390	-0.394	-0.394	-0.404
TO WEST BENGAL	-21.344	-21.592	-21.592	-22.137
POWER EXCHANGE(IEX)	3.341	3.258	3.341	3.258
TO POWER EXCHANGE (IEX)	-337.402	-345.932	-337.402	-345.932
TO POWER EXCHANGE (PX)	-4.766	-4.887	-4.766	-4.887
TO SHARE PROJECT (HARYANA)	-0.602	-0.617	-0.602	-0.617
TO SHARE PROJECT (PUNJAB)	-0.926	-0.950	-0.926	-0.950
TOTAL	2001.634	1936.628	1536.667	1473.251

C) AGENCY WISE BREAKUP OF ENERGY SCHEDULED DRAWL FROM THE GRID

NAME OF THE STATION	AVAILABILITY AT POWER PLANT	AVAILABILITY AT DELHI PERIPHERY	ALLOCATION MADE BY NRLDC AT POWER PLANT	ALLOCATION MADE BY NRLDC AT DELHI PERIPHERY
NTPC - NR	1414.576	1379.790	1114.022	1086.640
NTPC - ER	74.368	72.536	73.584	71.771
NHPC	138.752	135.339	111.830	109.080
NPC	55.688	54.316	55.688	54.316
KOTESHWAR	8.164	7.964	8.164	7.964
MUNDRA_UMPP	0.000	0.000	0.000	0.000
NATHPA JHAKRI	42.412	41.368	42.412	41.368
TEHRI	19.524	19.044	19.524	19.044
TALA	3.661	3.571	3.661	3.571
JHAJJAR	139.071	135.654	119.920	116.628
TALCHER	0.000	0.000	0.000	0.000
DVC	167.626	165.695	165.695	161.609
MAHARASHTRA	0.371	0.364	0.364	0.355
DVC CTPS (BRPL)	1.100	1.087	1.087	1.060
DVC CTPS (BYPL)	6.881	6.802	6.802	6.634
DVC CTPS (NDPL)	0.000	0.000	0.000	0.000
METHON POWER (NDPL)-LT-06	188.903	186.732	186.732	182.134
DVC MEJIA (LT-08)(BYPL)	83.863	82.900	82.900	80.861
URS	1.786	1.743	1.786	1.743
HARYANA	0.286	0.283	0.283	0.276
HIMACHAL PRADESH	0.624	0.617	0.617	0.602
WEST BENGAL	7.562	7.476	7.476	7.292
MADHYA PRADESH(WR)	0.298	0.293	0.293	0.286
JAMMU & KASHMIR	35.572	35.206	35.206	34.340
DVC (FOR NDPL) LT-09	8.278	8.183	8.183	7.981
HARYANA (LT -05)	28.059	27.737	27.737	27.055
UTTAR PRADESH	36.232	35.751	35.751	34.872
PUNJAB	45.996	45.525	45.525	44.406
POWER EXCHANGE(IEX)	3.341	3.258	3.341	3.258
POWER EXCHANGE(PX)	0.000	0.000	0.000	0.000
TOTAL	2512.993	2459.234	2050.584	2000.146

D) AGENCY WISE BREAKUP OF ENERGY SCHEDULED BY NRLDC FOR EXPORT TO OTHER UTILITIES FROM DTL

NAME OF THE STATION	AVAILABILITY AT POWER PLANT	AVAILABILITY AT PERIPHERY	ALLOCATION MADE BY NRLDC AT POWER PLANT	ALLOCATION MADE BY NRLDC AT POWER PERIPHERY
TO CHANDIGARH	-2.812	-2.841	-2.841	-2.912
TO UTTRANCHAL	-59.331	-60.313	-60.313	-61.835
TO UTTAR PRADESH	-39.105	-39.629	-39.629	-40.627
TO GUJRAT	-29.646	-30.182	-30.182	-30.942
TO MADHYA PRADESH	0.000	0.000	0.000	0.000
TO KERALA	0.000	0.000	0.000	0.000
TO JAMMU & KASHMIR	0.000	0.000	0.000	0.000
TO MAHARASHTRA	0.000	0.000	0.000	0.000
TO RAJASTHAN	0.000	0.000	0.000	0.000
TO TRIPURA	-11.361	-11.522	-11.522	-11.812
TO MEGHALAYA	-3.674	-3.747	-3.747	-3.839
TO HIMACHAL PRADESH	-0.390	-0.394	-0.394	-0.404
TO WEST BENGAL	-21.344	-21.592	-21.592	-22.137
TO POWER EXCHANGE (IEX)	-337.402	-345.932	-337.402	-345.932
TO POWER EXCHANGE (PX)	-4.766	-4.887	-4.766	-4.887
TO SHARE PROJECT (HARYANA)	-0.602	-0.617	-0.602	-0.617
TO SHARE PROJECT (PUNJAB)	-0.926	-0.950	-0.926	-0.950
TOTAL	-511.360	-522.607	-513.917	-526.895
TOTAL SCHEDULED DRAWAL FROM THE GRID	2001.634	1936.628	1536.667	1473.251
TOTAL CONSUMPTION INCLUDING AUX. OF GENERATING STNs. EXCLUDING BTPS				2097.208
NET CONSUMPTION				2075.841
AVAILABILITY WITHIN DELHI				780.880
ACTUAL DRAWAL FROM THE GRID				1294.961
OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID ON THE BASIS OF SCHEDULED ALLOCATION MADE BY NRLDC TO DELHI AT PERIPHERY				-178.290
LOAD SHEDDING				7.160
UNRESTRICTED DEMAND (GROSS)				2104.368
UNRESTRICTED DEMAND (NET)				2083.001
MAX. NET CONSUMPTION				81.251 ON 30.04.2013
MAX. LOAD SHEDDING				426MW ON 01.04.2013 AT 22.00HRS.
PEAK LOAD	Peak Demand during the month			SHEDDING AT PEAK TIME
DAY PEAK	4190MW AT 15.36.53HRS ON 30.04.2013			0 MW
EVENING PEAK	3959MW AT 23.00.00HRS ON 30.04.2013			0 MW
P.L.F. OF GENCO AND PRAGATI STNs.	RPH			81.77%
	GT			66.52%
	PRAGATI			84.80%
	RITHALA			0.00%
	BAWANA			3.93%

DATE	No. of Under Freq. Relay Operated	Shedding due to under frequency relay operation in MUs					Shedding due to Grid Restrictions (Over drawl / low freq.)			
		BSES		NDPL	NDMC	TOTAL	BSES		NDPL	NDMC
		BYPL	BRPL				BYPL	BRPL		
1	2	3	4	5	6	7=3 to 6	8	9	10	11
1-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.109	0.417	0.170	0.000
2-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.049	0.017	0.000	0.104
3-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.050	0.005	0.000	0.000
4-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.013	0.000	0.196	0.000
9-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.864	0.390	0.731	0.000
10-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.323	0.270	0.023	0.000
11-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.127	0.074	0.066	0.000
12-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.302	0.889	0.801	0.000
13-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.000
25-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.008	0.010	0.108	0.000
28-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30-Apr-13	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0	0.000	0.000	0.000	0.000	0.000	1.845	2.072	2.112	0.104

Date	Shedding due to Transmission/Grid Constraints in Central Sector Stations / TTC / ATC VOILATION				TOTAL	TOTAL SHEDDING DUE TO GRID RESTRICTIONS	Due to T&D Constraints				
	BSES		NDPL	NDMC			DTL				
	BYPL	BRPL					BSES		NDPL	NDMC	MES
			BYPL	BRPL							
1	12	13	14	15	16=8to15	17=16+7	18	19	20	21	22
1-Apr-13	0.000	0.000	0.000	0.000	0.696	0.696	0.000	0.000	0.000	0.000	0.000
2-Apr-13	0.000	0.000	0.000	0.000	0.170	0.170	0.000	0.000	0.000	0.000	0.000
3-Apr-13	0.000	0.000	0.000	0.000	0.055	0.055	0.028	0.000	0.000	0.000	0.000
4-Apr-13	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.000	0.000	0.000	0.000
5-Apr-13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6-Apr-13	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.011	0.000	0.000	0.000
7-Apr-13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.070	0.000	0.000
8-Apr-13	0.000	0.000	0.000	0.000	0.209	0.209	0.000	0.037	0.013	0.000	0.000
9-Apr-13	0.000	0.000	0.000	0.000	1.985	1.985	0.000	0.059	0.001	0.000	0.000
10-Apr-13	0.000	0.000	0.000	0.000	0.616	0.616	0.000	0.000	0.016	0.000	0.000
11-Apr-13	0.000	0.000	0.000	0.000	0.267	0.267	0.000	0.000	0.000	0.000	0.000
12-Apr-13	0.000	0.000	0.000	0.000	1.992	1.992	0.000	0.000	0.000	0.000	0.000
13-Apr-13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14-Apr-13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15-Apr-13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.000	0.000	0.000
16-Apr-13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17-Apr-13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.000	0.000	0.000
18-Apr-13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.104	0.000	0.000	0.000
19-Apr-13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20-Apr-13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21-Apr-13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22-Apr-13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23-Apr-13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24-Apr-13	0.000	0.000	0.000	0.000	0.017	0.017	0.000	0.000	0.000	0.000	0.000
25-Apr-13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26-Apr-13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.038	0.000	0.000	0.000
27-Apr-13	0.000	0.000	0.000	0.000	0.126	0.126	0.000	0.009	0.006	0.000	0.000
28-Apr-13	0.000	0.000	0.000	0.000	0.000	0.000	0.024	0.000	0.002	0.000	0.000
29-Apr-13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30-Apr-13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.000	0.000	0.000	0.000	6.133	6.133	0.065	0.278	0.108	0.000	0.000

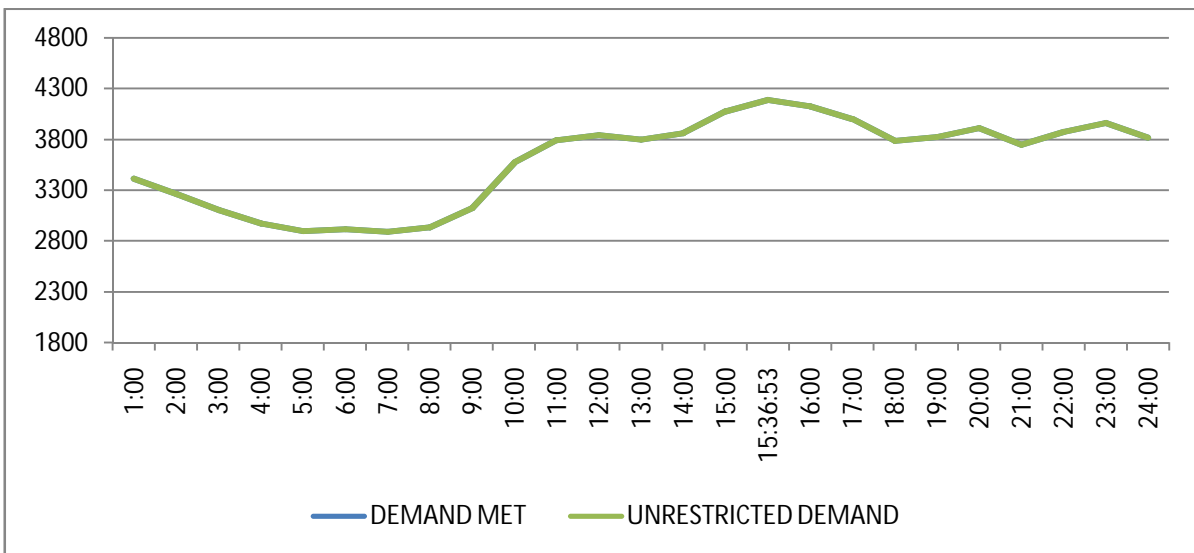
DATE	DUE TO T&D CONSTRAINTS				OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.	THEFT PRONE SHEDDING			TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE	GRAND TOTAL
	DISCOMS					BSES		NDPL		
	BSES		NDPL	NDMC		BYPL	BRPL			
	BYPL	BRPL								
I	23	24	25		26	27	28	29	30=18 to29	31=30+17
1-Apr-13	0.000	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.025	0.721
2-Apr-13	0.010	0.013	0.005	0.000	0.000	0.000	0.000	0.000	0.028	0.198
3-Apr-13	0.000	0.000	0.028	0.000	0.000	0.000	0.000	0.000	0.056	0.111
4-Apr-13	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.021	0.021
5-Apr-13	0.019	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.023	0.023
6-Apr-13	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.014	0.014
7-Apr-13	0.058	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.128	0.128
8-Apr-13	0.000	0.008	0.001	0.000	0.000	0.000	0.000	0.000	0.059	0.268
9-Apr-13	0.075	0.027	0.004	0.000	0.000	0.000	0.000	0.000	0.166	2.151
10-Apr-13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.632
11-Apr-13	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.022	0.289
12-Apr-13	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	1.994
13-Apr-13	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.007
14-Apr-13	0.004	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.011
15-Apr-13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.016
16-Apr-13	0.011	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.017
17-Apr-13	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.033	0.033
18-Apr-13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.104	0.104
19-Apr-13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20-Apr-13	0.001	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.007	0.007
21-Apr-13	0.005	0.020	0.005	0.000	0.000	0.000	0.000	0.000	0.030	0.030
22-Apr-13	0.015	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.018	0.018
23-Apr-13	0.000	0.000	0.013	0.000	0.000	0.000	0.000	0.000	0.013	0.013
24-Apr-13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.017
25-Apr-13	0.068	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.068	0.068
26-Apr-13	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.048	0.048
27-Apr-13	0.000	0.049	0.000	0.000	0.000	0.000	0.000	0.000	0.064	0.190
28-Apr-13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.026	0.026
29-Apr-13	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.005
30-Apr-13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.326	0.184	0.066	0.000	0.000	0.000	0.000	0.000	1.027	7.160

DATE	(NET CONS.)	MAXI. DEMAND MET DURING THE DAY	TIME OF OCCURRENCE OF MAX DEMAND	SHEDDING AT THIS TIME	UN-RESTRICTED DEMAND	MAXIMUM UN-RESTRICTED DEMAND DURING THE DAY	TIME OF MAX. UN-REST. DEMAND	DEMAND AT THAT TIME	SHEDDING AT THAT TIME
	In Mus.	IN MW	IN HRS.	IN MW	IN MW	IN MW	HRS.	IN MW	IN MW
1	32	33	34	35	36=33+35	37=39+40	38	39	40
1-Apr-13	59.365	3109	19:35:20	0	3109	3109	19:35:20	3109	0
2-Apr-13	60.085	3056	17:13:37	0	3056	3056	17:13:37	3056	0
3-Apr-13	61.181	3226	19:39:05	0	3226	3226	19:39:05	3226	0
4-Apr-13	61.700	3251	19:48:46	0	3251	3251	19:48:46	3251	0
5-Apr-13	61.386	3236	19:28:44	0	3236	3236	19:28:44	3236	0
6-Apr-13	59.336	3149	19:24:55	0	3149	3149	19:24:55	3149	0
7-Apr-13	58.101	3037	19:38:26	0	3037	3037	19:38:26	3037	0
8-Apr-13	65.177	3355	19:07:30	0	3355	3355	19:07:30	3355	0
9-Apr-13	66.737	3362	11:33:14	33	3395	3522	11:33:14	3315	207
10-Apr-13	69.414	3598	19:25:43	0	3598	3598	19:25:43	3598	0
11-Apr-13	70.423	3599	19:34:29	0	3599	3599	19:34:29	3599	0
12-Apr-13	70.334	3620	19:07:22	17	3637	3637	19:07:22	3620	17
13-Apr-13	69.305	3517	19:45:43	3	3520	3520	19:45:43	3517	3
14-Apr-13	65.231	3261	19:27:25	0	3261	3261	19:27:25	3261	0
15-Apr-13	72.486	3617	15:19:12	0	3617	3617	15:19:12	3617	0
16-Apr-13	74.667	3728	19:32:37	0	3728	3728	19:32:37	3728	0
17-Apr-13	72.044	3711	19:33:43	0	3711	3711	19:33:43	3711	0
18-Apr-13	74.165	3800	15:31:41	0	3800	3800	15:31:41	3800	0
19-Apr-13	71.938	3568	19:31:03	0	3568	3568	19:31:03	3568	0
20-Apr-13	73.473	3653	19:28:25	0	3653	3653	19:28:25	3653	0
21-Apr-13	67.131	3303	19:37:49	0	3303	3303	19:37:49	3303	0
22-Apr-13	68.726	3601	19:31:45	0	3601	3601	19:31:45	3601	0
23-Apr-13	72.508	3665	19:50:57	0	3665	3665	19:50:57	3665	0
24-Apr-13	72.606	3713	19:32:53	0	3713	3713	19:32:53	3713	0
25-Apr-13	77.551	3970	16:04:23	0	3970	3970	16:04:23	3970	0
26-Apr-13	79.481	3937	15:34:32	0	3937	3937	15:34:32	3937	0
27-Apr-13	75.822	3595	15:06:39	34	3629	3629	15:06:39	3595	34
28-Apr-13	70.138	3527	23:07:02	0	3527	3527	23:07:02	3527	0
29-Apr-13	74.079	3935	15:17:54	0	3935	3935	15:17:54	3935	0
30-Apr-13	81.251	4190	15:36:53	0	4190	4190	15:36:53	4190	0
TOTAL	2075.841	4190 30.04.12	15:36:53	0	4190 30.04.13	4190	15:36:53	0	

LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING APRIL 2013 ON 30.04.2013- 4190MW at 15.36.53HRS.

All figures in MW

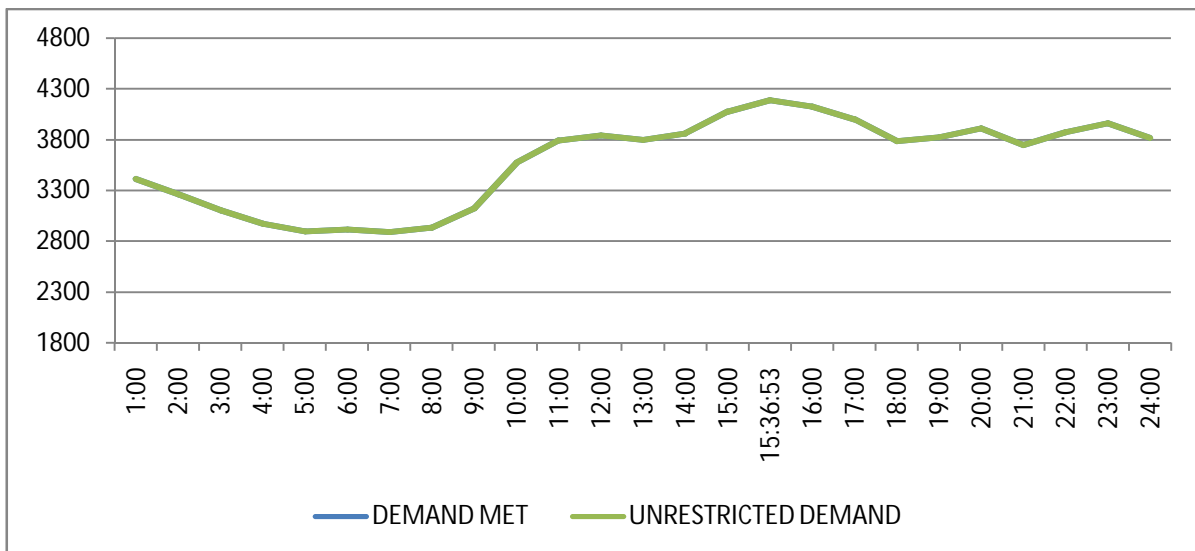
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1:00	3411	0	3411
2:00	3262	0	3262
3:00	3105	0	3105
4:00	2970	0	2970
5:00	2896	0	2896
6:00	2914	0	2914
7:00	2887	0	2887
8:00	2934	0	2934
9:00	3125	0	3125
10:00	3569	0	3569
11:00	3793	0	3793
12:00	3840	0	3840
13:00	3798	0	3798
14:00	3858	0	3858
15:00	4074	0	4074
15:36:53	4190	0	4190
16:00	4126	0	4126
17:00	3998	0	3998
18:00	3786	0	3786
19:00	3822	0	3822
20:00	3913	0	3913
21:00	3746	0	3746
22:00	3872	0	3872
23:00	3959	0	3959
24:00	3816	0	3816
TOTAL	81.251	0.000	81.251



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING APRIL 2013 ON 30.04.2013- 4190MW at 15.36.53HRS.

All figures in MW

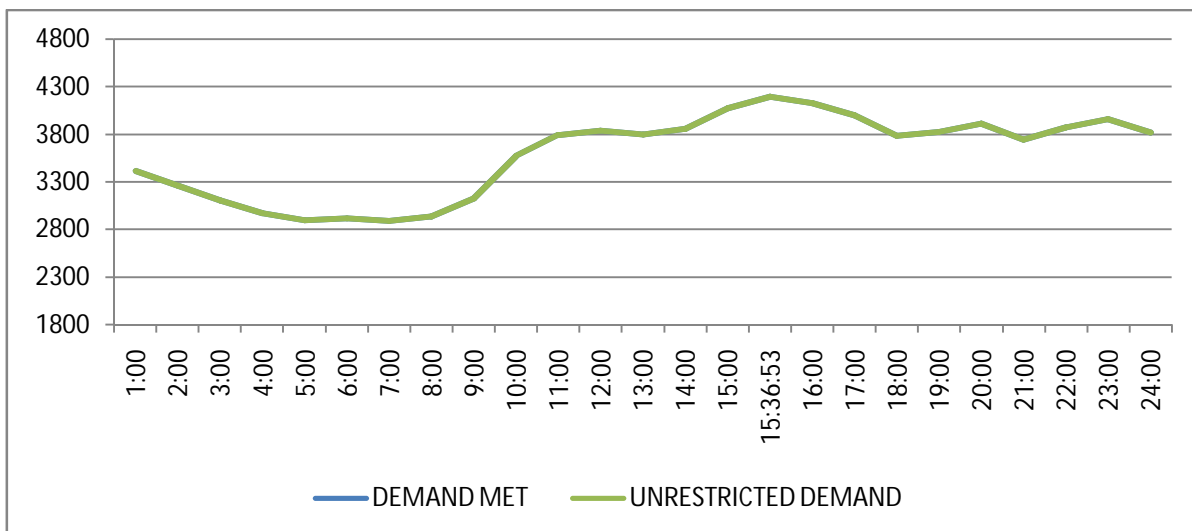
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1:00	3411	0	3411
2:00	3262	0	3262
3:00	3105	0	3105
4:00	2970	0	2970
5:00	2896	0	2896
6:00	2914	0	2914
7:00	2887	0	2887
8:00	2934	0	2934
9:00	3125	0	3125
10:00	3569	0	3569
11:00	3793	0	3793
12:00	3840	0	3840
13:00	3798	0	3798
14:00	3858	0	3858
15:00	4074	0	4074
15:36:53	4190	0	4190
16:00	4126	0	4126
17:00	3998	0	3998
18:00	3786	0	3786
19:00	3822	0	3822
20:00	3913	0	3913
21:00	3746	0	3746
22:00	3872	0	3872
23:00	3959	0	3959
24:00	3816	0	3816
TOTAL	81.251	0.000	81.251



12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING APRIL 2013 – 30.04.2013 – 81.251 Mus

All figures in MW

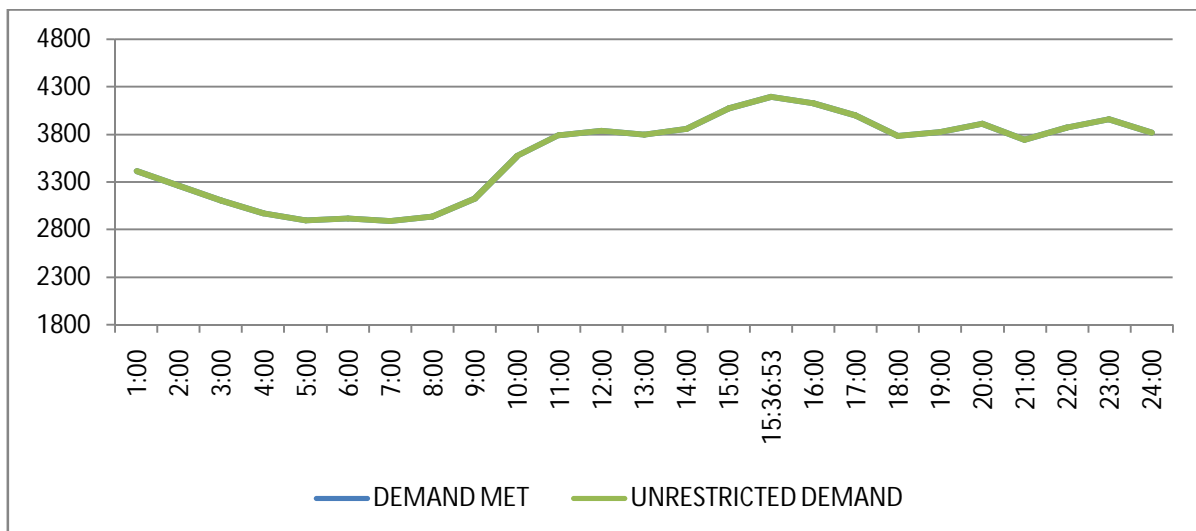
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1:00	3411	0	3411
2:00	3262	0	3262
3:00	3105	0	3105
4:00	2970	0	2970
5:00	2896	0	2896
6:00	2914	0	2914
7:00	2887	0	2887
8:00	2934	0	2934
9:00	3125	0	3125
10:00	3569	0	3569
11:00	3793	0	3793
12:00	3840	0	3840
13:00	3798	0	3798
14:00	3858	0	3858
15:00	4074	0	4074
16:00	4126	0	4126
17:00	3998	0	3998
18:00	3786	0	3786
19:00	3822	0	3822
20:00	3913	0	3913
21:00	3746	0	3746
22:00	3872	0	3872
23:00	3959	0	3959
24:00	3816	0	3816
TOTAL	81.251	0.000	81.251



LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING APRIL 2013 – 30.04.2013 – 81.251 Mus

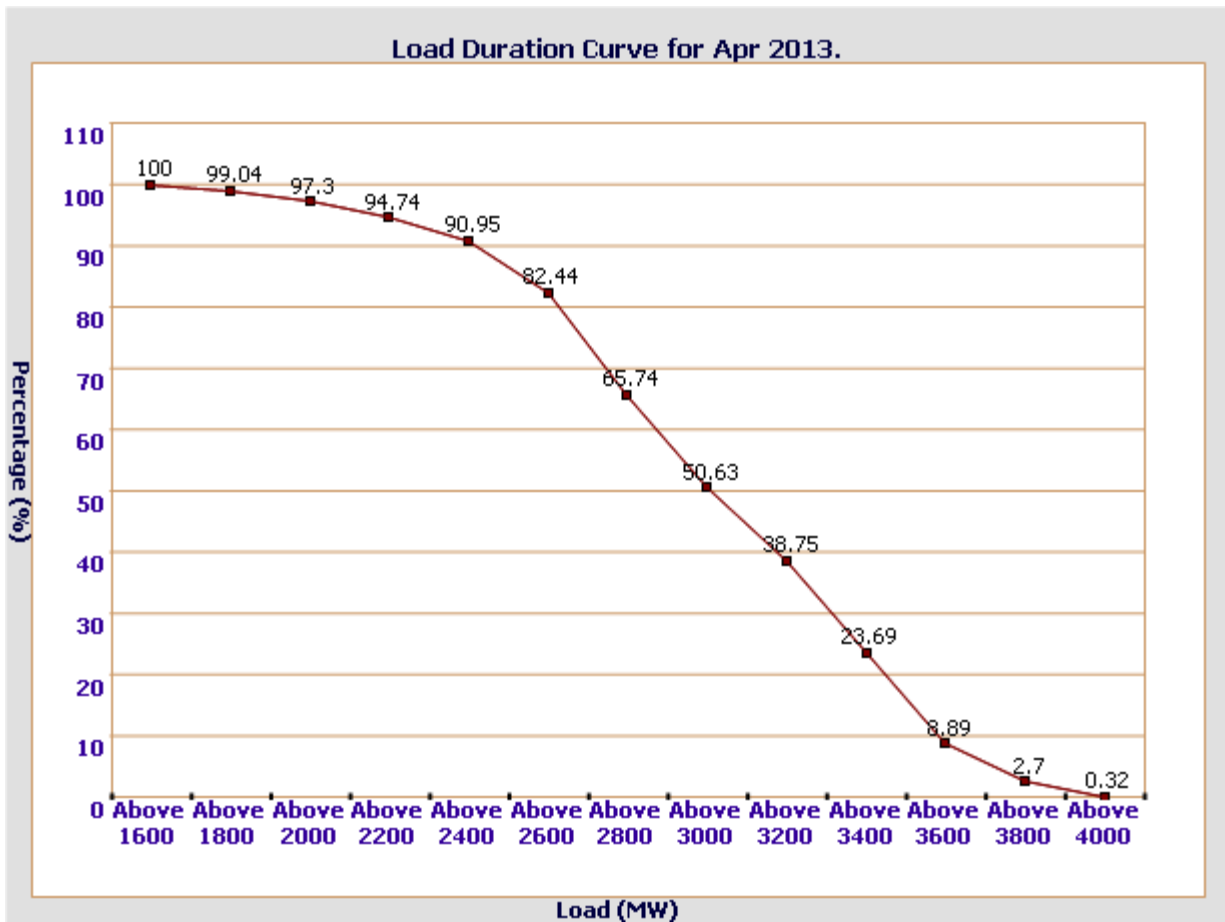
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
1:00	3411	0	3411
2:00	3262	0	3262
3:00	3105	0	3105
4:00	2970	0	2970
5:00	2896	0	2896
6:00	2914	0	2914
7:00	2887	0	2887
8:00	2934	0	2934
9:00	3125	0	3125
10:00	3569	0	3569
11:00	3793	0	3793
12:00	3840	0	3840
13:00	3798	0	3798
14:00	3858	0	3858
15:00	4074	0	4074
16:00	4126	0	4126
17:00	3998	0	3998
18:00	3786	0	3786
19:00	3822	0	3822
20:00	3913	0	3913
21:00	3746	0	3746
22:00	3872	0	3872
23:00	3959	0	3959
24:00	3816	0	3816
TOTAL	81.251	0.000	81.251



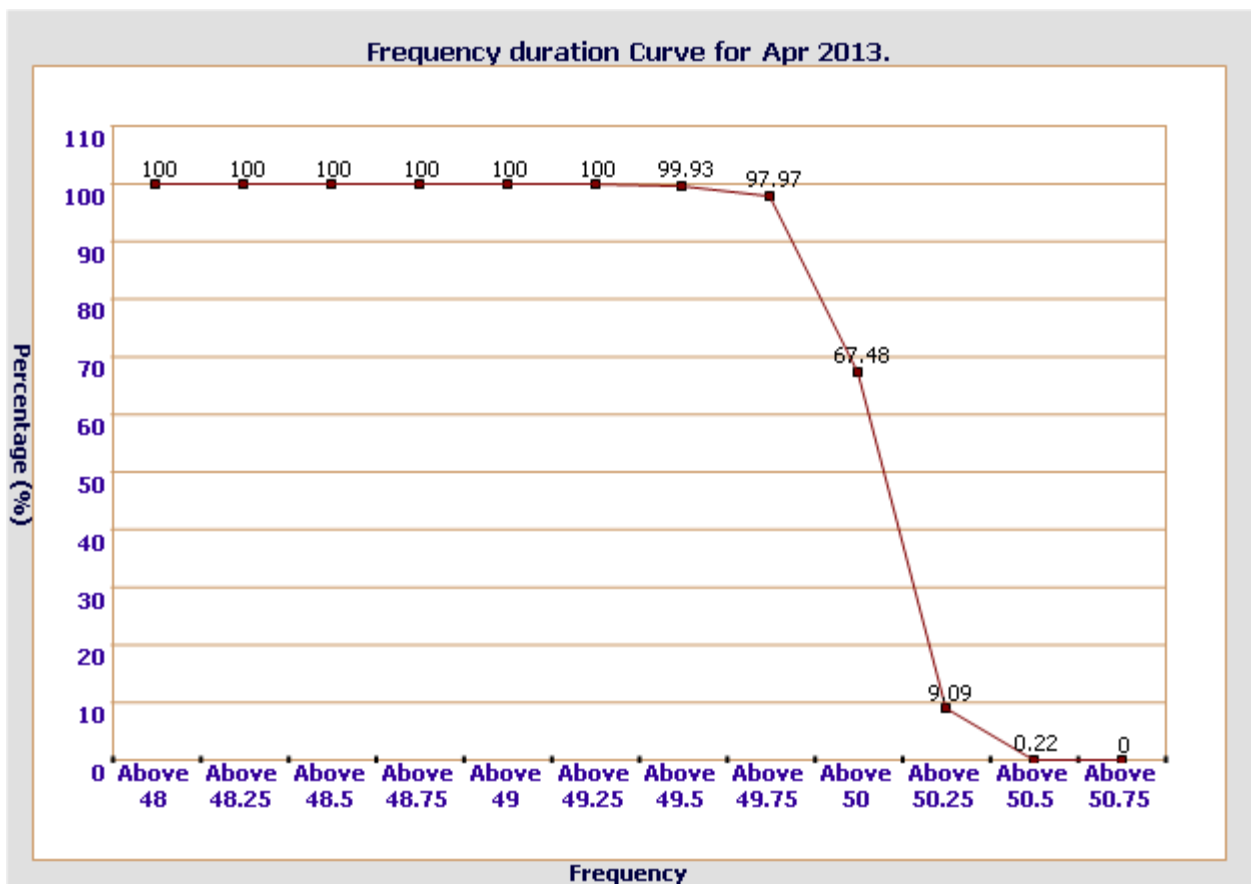
14 **LOAD DURATION CURVE FOR APRIL 2013**

Load in MW	Percentage of Time
Above 1600	100 %
Above 1800	99.04 %
Above 2000	97.3 %
Above 2200	94.74 %
Above 2400	90.95 %
Above 2600	82.44 %
Above 2800	65.74 %
Above 3000	50.63 %
Above 3200	38.75 %
Above 3400	23.69 %
Above 3600	8.89 %
Above 3800	2.7 %
Above 4000	0.32 %



FREQUENCY ANALYSIS FOR THE MONTH OF APRIL 2013

Frequency Range in Hz.	Percentage of time
Above 49.25	100 %
Above 49.5	99.93 %
Above 49.75	97.97 %
Above 50	67.48 %
Above 50.25	9.09 %
Above 50.5	0.22 %
Above 50.75	0 %



All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
1-Apr-13	243.49	230.73	222.99	209.45
2-Apr-13	245.69	225.95	226.73	--
3-Apr-13	245.56	217.83	225.05	208.09
4-Apr-13	244.66	226.21	222.99	209.19
5-Apr-13	241.56	227.50	222.34	206.74
6-Apr-13	243.49	227.50	222.21	207.38
7-Apr-13	242.20	230.21	222.21	207.64
8-Apr-13	242.08	224.79	221.70	205.96
9-Apr-13	242.98	227.63	221.05	205.06
10-Apr-13	242.98	226.99	221.70	204.80
11-Apr-13	242.46	226.99	218.60	204.67
12-Apr-13	243.62	225.05	218.60	203.77
13-Apr-13	241.43	227.24	218.22	209.19
14-Apr-13	241.69	230.21	222.47	211.90
15-Apr-13	242.85	228.28	222.47	208.03
16-Apr-13	240.40	--	219.64	208.16
17-Apr-13	238.59	--	221.57	207.64
18-Apr-13	238.46	228.92	219.89	210.22
19-Apr-13	238.46	228.92	220.41	209.45
20-Apr-13	239.63	229.44	217.83	207.51
21-Apr-13	242.08	--	220.80	208.80
22-Apr-13	240.27	226.99	219.89	205.96
23-Apr-13	239.24	--	221.05	208.16
24-Apr-13	238.59	226.08	220.80	208.29
25-Apr-13	236.92	225.31	219.12	205.96
26-Apr-13	--	--	218.99	207.09
27-Apr-13	--	--	218.60	205.06
28-Apr-13	--	--	219.12	207.38
29-Apr-13	--	--	219.64	204.67
30-Apr-13	235.24	224.41	216.54	206.87

Date	400kV Barnauli Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
1-Apr-13	420.44	03.34.37	401.92	19.27.15	411.14
2-Apr-13	421.61	04.01.58	399.57	09.40.49	413.33
3-Apr-13	--	--	397.46	19.27.55	409.42
4-Apr-13	420.67	03.04.45	396.76	19.11.34	404.93
5-Apr-13	419.27	02.50.13	394.65	19.22.14	407.69
6-Apr-13	420.91	03.13.37	396.29	19.14.14	408.89
7-Apr-13	414.81	02.53.49	395.82	19.11.54	406.93
8-Apr-13	413.64	03.11.48	390.89	19.09.30	403.36
9-Apr-13	412.23	23.15.49	393.71	11.12.12	402.84
10-Apr-13	414.34	02.46.16	393.47	12.20.42	402.95
11-Apr-13	411.53	04.09.00	388.08	19.20.37	400.82
12-Apr-13	412.23	02.44.32	393.47	18.59.41	403.14
13-Apr-13	410.12	21.17.50	396.05	11.39.39	404.04
14-Apr-13	412.23	15.09.38	395.58	19.21.34	405.67
15-Apr-13	412.00	03.59.33	396.29	19.12.59	403.73
16-Apr-13	410.36	02.36.08	392.77	19.47.48	402.39
17-Apr-13	412.47	18.06.16	395.58	10.47.27	403.06
18-Apr-13	414.34	13.13.32	398.63	05.30.12	405.94
19-Apr-13	414.58	17.13.44	398.44	11.26.01	406.83
20-Apr-13	413.64	02.25.52	400.27	11.09.01	406.63
21-Apr-13	419.27	04.03.59	400.27	19.13.37	410.08
22-Apr-13	414.81	02.59.38	394.65	19.26.25	406.39
23-Apr-13	411.53	03.03.05	392.07	19.27.15	402.76
24-Apr-13	409.18	02.05.00	394.65	19.38.03	401.81
25-Apr-13	407.54	03.01.52	390.43	09.43.39	399.35
26-Apr-13	409.18	08.05.03	394.65	19.25.48	402.89
27-Apr-13	412.00	04.02.54	396.99	19.33.49	404.79
28-Apr-13	411.53	03.01.52	393.94	19.15.07	405.62
29-Apr-13	412.70	04.10.10	396.99	19.25.13	404.45
30-Apr-13	411.06	17.53.01	395.12	22.35.27	403.07

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
1-Apr-13	427.47	03.34.27	408.01	06.21.38	419.17
2-Apr-13	428.41	23.11.18	406.61	10.41.52	420.98
3-Apr-13	--	--	406.37	19.28.25	416.77
4-Apr-13	427.71	03.04.45	405.20	19.23.35	411.88
5-Apr-13	422.79	13.26.37	402.62	11.47.22	414.24
6-Apr-13	427.71	03.13.37	406.14	19.14.14	417.16
7-Apr-13	423.96	02.32.07	405.67	19.10.23	416.42
8-Apr-13	422.79	03.08.47	400.51	19.09.40	412.84
9-Apr-13	422.08	23.23.40	397.93	20.51.05	412.47
10-Apr-13	424.09	02.46.36	401.92	12.20.52	412.13
11-Apr-13	419.74	02.58.15	400.27	19.19.07	409.91
12-Apr-13	421.61	02.44.22	402.62	18.58.41	412.31
13-Apr-13	419.74	21.17.29	406.37	10.38.17	412.91
14-Apr-13	421.61	15.08.38	404.26	19.21.24	415.08
15-Apr-13	420.67	04.02.43	405.67	19.12.59	412.95
16-Apr-13	419.27	02.36.08	402.15	19.49.28	411.21
17-Apr-13	418.33	18.00.36	404.03	10.47.27	411.47
18-Apr-13	420.91	13.15.12	407.78	19.15.06	413.96
19-Apr-13	422.79	17.15.24	406.61	11.23.01	413.61
20-Apr-13	420.44	17.30.25	408.95	09.41.35	414.15
21-Apr-13	420.30	04.04.30	406.84	19.13.47	417.12
22-Apr-13	421.61	02.59.48	404.26	19.27.25	414.14
23-Apr-13	420.21	03.28.18	401.92	19.40.16	412.20
24-Apr-13	417.86	02.06.40	403.09	19.38.23	410.47
25-Apr-13	415.75	03.03.02	400.98	09.43.29	409.50
26-Apr-13	418.33	08.04.53	402.85	19.25.38	411.79
27-Apr-13	418.56	04.03.34	404.26	19.32.19	411.38
28-Apr-13	419.27	03.03.02	403.09	19.14.27	413.16
29-Apr-13	415.52	08.06.10	401.92	11.15.47	409.56
30-Apr-13	416.92	17.54.11	399.81	22.34.07	408.47

18 DETAILS OF LUMPED CAPACITORS AT NEAREST 220 KV SUBSTATION

Sl. No	SUB-STATION	INSTALLED CAPACITY			
		66KV	33kV	11kV	TOTAL
1	IP YARD		30		30
1	Kamla Market			16.35	16.35
2	Minto Road				0
3	GB Pant Hosp			15.88	15.88
4	Delhi Gate			10.9	10.9
5	Tilakmarg			5.04	5.04
7	Cannaught Place			10.08	10.08
8	Kilokri		10.08	10.48	20.56
9	NDSE				0
11	Nizamuddin				0
12	Exhibition-I				0
13	Exhibition-II				0
14	Defence Colony				0
15	IG Stadium		10.08	5.45	15.53
16	Lajpat Nagar				0
17	IP Estate			10.9	10.9
	LT BYPL				5.6
		0	50.16	85.08	140.84
2	Electric Lane				
1	Electric Lane			5.04	5.04
2	Scindia House			5.04	5.04
3	Raisina Road			10.08	10.08
4	Raja Bazar			10.08	10.08
	LT NDMC				12
		0	0	30.24	42.24
3	RPH Station		20		20
1	Lahori Gate			10.49	10.49
2	Jama Masjid			10.48	10.48
4	Kamla Market				0
5	Minto Road			10.9	10.9
6	GB Pant Hosp				0
7	IG Stadium				0
	LT BYPL				3
		0	20	31.87	54.87
4	Parkstreet S/stn	20	20		40
1	Shastri Park		10.896	5.45	16.346
2	Faiz Road			18.05	18.05
3	Motia Khan			16.3	16.3
4	Prasad Nagar			16.25	16.25
5	Anand Parbat			10.8	10.8
6	Shankar Road			5.04	5.04
7	Rama Road			0	0
8	Baird Road			10.08	10.08
9	Hanuman Road			5.04	5.04
10	Pusa			5.44	5.44
11	Ridge Valley			0	0
12	B. D. Marg			0	0
13	Nirman Bhawan			5.04	5.04
	LT BYPL			0	30.1
		20.00	30.90	97.49	178.486
5	Naraina S/stn		20	5.04	25.04
1	DMS			10.85	10.85
2	Mayapuri		10.87	10.4	21.27
3	Inderpuri		10	4.8	14.8
4	Rewari line				0
5	Khyber Lane		10.05		10.05
6	Kirbi Place		10.05		10.05
7	Payal			7.2	7.2
8	Saraswati Garden			10.88	10.88
		0	60.97	49.17	110.14

Sl. No	SUB-STATION	INSTALLED CAPACITY			
		66KV	33kV	11kV	TOTAL
6	Mehrauli S/stn	80		5.04	85.04
1	Adchini			14.61	14.61
2	Andheria Bagh			10.85	10.85
3	IIT			10.9	10.9
4	JNU		10.03	10.03	20.06
5	Bijwasan			15.47	15.47
6	DC Saket			9.98	9.98
7	Malviya Nagar				0
8	C Dot			10.48	10.48
9	Vasant kunj B-Blk	21.79		10.9	32.69
10	Vasant kunj C-Blk	20.16		10.48	30.64
11	Palam				0
12	IGNOU			5.04	5.04
13	R. K. Puram-I			10.07	10.07
14	Vasant Vihar			19.25	19.25
15	Pusp Vihar			10.44	10.44
16	Bhikaji Cama Place		10.08	10.07	20.15
	LT BRPL				25
		121.95	20.11	163.61	330.67
7	Vasantkunj S/stn	40		5.04	45.04
1	R. K. Puram-II			10.08	10.08
2	Vasant kunj C-Blk				0
3	Vasant kunj D-Blk			9.63	9.63
4	Ridge Valley				0
	LT BRPL				33.2
		40	0	24.75	97.95
8	Okhla S/stn	60	10	5.04	75.04
1	Balaji			10.8	10.8
2	East of Kailash			15.89	15.89
3	Alaknanda			16.3	16.3
4	Malviya Nagar	21.79		10.85	32.64
5	Masjid Moth			16.3	16.3
6	Nehru Place			21.34	21.34
7	Okhla Ph-I	21.79		16.3	38.09
8	Okhla Ph-II		20.93	15.47	36.4
9	Shivalik			10.8	10.8
10	Batra			15.9	15.9
11	VSNL			10.9	10.9
12	Siri Fort			10.49	10.49
13	Tuglakabad			10.85	10.85
	LT BRPL				59
		103.58	30.93	187.23	380.74
9	Lodhi Road S/stn		20		20
1	Defence Colony		14.85		14.85
2	Hudco		10.9		10.9
3	Lajpat Nagar		10.9		10.9
4	Nizamuddin		10.44		10.44
5	Vidyut Bhawan				0
6	Ex. Gr. II				0
7	IHC				0
	LT BRPL				42
		0	67.09	0	109.09
10	Sarita Vihar S/stn	20		5.04	25.04
1	Sarita Vihar			10.07	10.07
2	MCIE			10.06	10.06
3	Mathura Road	20.16		11.69	31.85
4	Jamia Millia			10.89	10.89
5	Sarai Julena		10.08	16.29	26.37
6	Jasola			5.44	5.44
	LT BRPL				23.6
		40.16	10.08	69.48	143.32

Sl. No	SUB-STATION	INSTALLED CAPACITY			
		66KV	33kV	11kV	TOTAL
11	Wazirabad				
1	Bhagirathi		14.4	10.9	25.3
2	Ghonda	21.79	22.56	15.94	60.29
3	Seelam Pur		10.08	21.39	31.47
4	Dwarkapuri			15.46	15.46
5	Nandnagri	20.16		16.35	36.51
6	Yamuna Vihar			16.2	16.2
7	East of Loni Road			10.8	10.8
8	Shastri Park			10.9	10.9
9	Karawal Nagar			5.4	5.4
10	Sonia Vihar			7.2	7.2
	LT BYPL				10
		41.95	47.04	130.54	229.53
12	Geeta Colony				
1	Geeta Colony				0
2	Kanti Nagar			10.49	10.49
3	Kailash Nagar			10.9	10.9
4	Seelam Pur			15.48	15.48
5	Shakar Pur				0
	LT BYPL				5.8
		0	0	36.87	42.67
13	Gazipur S/stn	40		5.04	45.04
1	Dallupura	28.8		10.9	39.7
2	Vivek Vihar			9.57	9.57
3	GT Road			10.85	10.85
4	Kondli	20.16		10.85	31.01
5	MVR-I			10.9	10.9
6	MVR-II	20.16		10.9	31.06
7	PPG Ind. Area			10.06	10.06
	LT BYPL				20.6
		109.12	0	79.07	208.79
14	Patparganj S/stn	40	20	5.04	65.04
1	GH-I	19.89		10.45	30.34
2	GH-II	20.09		10.9	30.99
3	CBD		10.03	15.48	25.51
4	Guru Angad Nagar			15.49	15.49
5	Karkadooma		10.8	10.44	21.24
6	Preet Vihar			10.07	10.07
7	CBD-II			10.8	10.8
8	Shakarpur			10.8	10.8
9	Jhilmil			10.8	10.8
10	Dilshad Garden	20.16		16.35	36.51
11	Khichripur	21.79		10.49	32.28
12	Mother Dairy				0
13	Scope Building				0
14	Vivek Vihar				0
15	Akhardham			14.6	14.6
	LT BYPL				23.3
		121.93	40.83	151.71	337.77
15	Najafgarh S/stn	60		5.04	65.04
1	A4 Paschim Vihar			10.8	10.8
2	Nangloi	21.73		15.84	37.57
3	Nangloi W/W	20.89		10.85	31.74
4	Pankha Road			15.88	15.88
5	Jaffarpur			15.43	15.43
7	Inst. Area Janakpuri			17.6	17.6
8	Paschimpuri		10.05	15.47	25.52
9	Paschim Vihar	41.83		15.43	57.26
10	Mukherjee Park			20.83	20.83
11	Udyog Nagar			10.43	10.43
12	Choukhandi			10.07	10.07
	LT BRPL				27
		144.45	10.05	163.67	345.17

Sl. No	SUB-STATION	INSTALLED CAPACITY			
		66KV	33kV	11KV	TOTAL
16	Pappankalan-I S/stn	20		5.04	25.04
1	Bindapur Grid G-3 PPK	21.73		15.85	37.58
2	Bodella-I	20.1		16.24	36.34
3	Bodella-II	21.73		17.64	39.37
4	DC Janakpuri			10.03	10.03
5	G-2 PPK			10.8	10.8
6	G-5 PPK			15.51	15.51
7	G-6 PPK			5.4	5.4
8	G-15 PPK			10.8	10.8
9	Harinagar	21.18		16.25	37.43
10	Rewari line			5.44	5.44
	LT BRPL				13.5
		104.74	0	129	247.24
17	BBMB Rohtak Road				
1	S.B. Mill			10.07	10.07
2	Rama Road			10.88	10.88
3	Ram Pura			10.48	10.48
4	Rohtak Road			8.04	8.04
5	Vishal			10.4	10.4
6	Tri Nagar			5.44	5.44
7	Madipur			10.43	10.43
8	Sudershan Park			10.08	10.08
9	Kirti Nagar			5.44	5.44
		0	0	81.26	81.26
18	Shalimarbagh S/stn		40	6	46
1	S.G.T. Nagar			5.44	5.44
2	Wazirpur-1			17.18	17.18
3	Wazirpur-2			11.39	11.39
4	Ashok Vihar			5.44	5.44
5	Rani Bagh			10.88	10.88
6	Haiderpur			11.39	11.39
7	SMB FC			5.44	5.44
8	SMB KHOSLA			5.44	5.44
	LT TPDDL				30
		0	40	78.6	148.6
19	Subzimandi S/stn			6	6
1	Shakti Nagar			5.94	5.94
2	Gulabibagh			10.88	10.88
3	Shahzadabagh			13.68	13.68
4	DU			5.44	5.44
5	Tripolia			10.88	10.88
	B. G. Road			5.4	5.4
	LT BYPL				0.9
	LT TPDDL				20
		0	0	58.22	79.12
20	Narela S/stn	40		5.04	45.04
1	A-7 Narela			10.88	10.88
2	AIR Kham pur			6	6
3	Ashok vihar			10.48	10.48
4	Azad Pur			5.44	5.44
5	Tri Nagar			5.44	5.44
6	Badli	20		5.95	25.95
7	DSIDC Narela-1			5.95	5.95
8	GTK			5.44	5.44
9	Jahangirpuri	20	10	0	30
10	Bhalswa			3.6	3.6
	LT TPDDL				10
		80	10	64.22	164.22

Sl. No	SUB-STATION	INSTALLED CAPACITY			
		66KV	33kV	11kV	TOTAL
21	Gopalpur S/stn		30	5.04	35.04
1	Azad Pur			10.88	10.88
2	Hudson Lane			5.44	5.44
3	Wazirabad			2.4	2.4
4	Indra Vihar			5.44	5.44
6	GTK Road			5.94	5.94
7	Jahangirpuri		10	5.95	15.95
8	Civil lines			5.44	5.44
9	Pitam Pura-1			5.44	5.44
10	Pitam Pura-3			5.44	5.44
11	Air Khampur			5.95	5.95
12	SGT Nagar			5.95	5.95
13	Tiggipur			10.88	10.88
	LT TPDDL				29
		0	40	80.19	149.19
22	Rohini S/stn	40		6	46
1	Rohini Sec-22			10.88	10.88
2	Rohini Sec-23	20		5.44	25.44
3	Rohini Sec-24			5.44	5.44
4	Rohini-1			5.44	5.44
5	Rohini-3			5.95	5.95
6	Rohini-4			11.39	11.39
7	Rohini-5			11.39	11.39
8	Rohini-6			5.95	5.95
9	Mangolpuri-1			16.83	16.83
10	Mangolpuri-2	20		5.94	25.94
11	Pitam Pura-1	20		5.04	25.04
12	Pitam Pura-2			10.48	10.48
13	Rohini DC-1			14.4	14.4
	LT TPDDL				30
		100	0	120.57	250.57
23	Kanjhawala S/stn	20		5.04	25.04
1	Bawana Clear Water			10.88	10.88
2	Pooth Khoord			5.44	5.44
		20	0	21.36	41.36
24	BAWANA S/stn				
1	Bawana S/stn No. 6			10.88	10.88
2	Bawana S/stn No. 7				0
		0	0	10.88	10.88
25	Kashmeregate S/stn			5.04	5.04
1	Civil lines			5.44	5.44
2	Town Hall			8.64	8.64
3	Fountain			5.45	5.45
	LT BYPL				2.7
		0	0	24.57	27.27
26	Pappankalan-II				
1	DMRC-I				0
2	DMRC-II				0
27	Trauma Center (AIIMS)				
1	AIIMS		13.26	5.04	18.3
2	Trauma Center			10.08	10.08
3	Netaji Nagar			15.12	15.12
4	Sanjay Camp			10.08	10.08
5	Kidwai Nagar			5.04	5.04
6	SJ Airport			5.04	5.04
	Race Course			5.04	5.04
		0	13.26	55.44	68.7

Sl. No	SUB-STATION	INSTALLED CAPACITY			
		66KV	33kV	11kV	TOTAL
28	MUNDKA				
	Rohini-2			11.39	11.39
	LT BRPL				18.5
		0	0	11.39	29.89
29	DSIDC BAWANA				
	DSIDC NRL-1	20			20
	DSIDC NRL-2			10.88	10.88
		20	0	10.88	30.88
30	RIDGE VALLEY				
	Keventry Diary			10.08	10.08
	Nehru Park			5.04	5.04
	Bapu Dham			10.08	10.08
		0	0	25.2	25.2
31	IP EXTN (PRAGATI)				
	Vidyut Bhawan			10.08	10.08
	Dalhousie Road			5.04	5.04
	School Lane			5.04	5.04
	LT NDMC				12.29
		0	0	20.16	32.45
	TOTAL CAPACITY	1067.9	491.4	2092.7	4139

Utility	HT	LT	Total
BYPL	864	102	966
TPDDL	657	119	776
NDMC	180	24	204
DTL	754	0	754
BRPL	1158	242	1400
RPH	20	0	20
MES	20	0	20
TOTAL	3652	487	4139

20 DETAILS OF BREAK-DOWNS DURING THE MONTH OF APRIL 2013

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
1	02.04.13	18:10	PAPPANKALAN-I 220/66kV 100MVA Tx-I	02.04.13	18:40	TX TRIPPED ON REF,86 AND 66KV I/C-1 TRIPPED ON 86 ALONG WITH 66KV FEEDER G-6 CKT.-1
2	02.04.13	21:23	PAPPANKALAN-I 220/66kV 100MVA Tx-I	02.04.13	22:06	TX TRIPPED ON REF,86 AND 66KV I/C-1 TRIPPED ON 86 ALONG WITH 66KV REWARI LINE CKT.
3	04.04.13	11:04	GEETA COLONY 220/33kV 100MVA Tx-II	04.04.13	11:25	TX TRIPPED ON 30E,86. 33KV I/C-2 TRIPPED ON O/C,E/F.
4	04.04.13	13:25	NAJAFGARH 66/11kV, 20MVA Tx-I	04.04.13	13:48	TX TRIPPED ON 30D (HIGH OIL TEMP.)
5	05.04.13	6:55	GEETA COLONY 220/33kV 100MVA Tx-II	05.04.13	6:59	LOW GAS PRESSURE ALARM APPEARED ON TX.
6	06.04.13	0:21	220 KV I.P.- RPH CKT-I	06.04.13	18:15	CKT TRIPPED ON 195CC AND 195CB
7	06.04.13	8:26	MUNDKA 220/66kV 160MVA Tx-II	06.04.13	9:42	BUS BAR PROTECTION OPERATED
8	06.04.13	8:35	INDRAPRASTHA POWER 220/33kV 100MVA Tx-I	06.04.13	8:55	33KV I/C-1 TRIPPED ON O/C B-PH,86.
9	06.04.13	8:35	INDRAPRASTHA POWER 220/33kV 100MVA Tx-II	06.04.13	16:00	TX TRIPPED ON REF. 33KV I/C-2 TRIPPED ON O/C R-PH,86
10	06.04.13	15:44	220kV SARITA VIHAR - BTPS CKT.-I	06.04.13	16:26	AT BTPS CKT TRIPPED ON B-PH,DISTANCE PROTECTION,Z-1, DIST.-1.5 KM. NO TRIPPING AT SARITA VIHAR AS LINE CB REMAINS OFF AT SARITA VIHAR.
11	07.04.13	10:50	220KVBAWANA- ROHINI CKT-II	07.04.13	15:34	AT BAWANA CKT TRIPPED ON O/C,A-PH,86A,186 A,B. BOTTOM PH CONDUCTOR OF THE CKT FOUND BROKEN NEAR DTU NO TRIPPING AT ROHINI GRID.
12	07.04.13	15:16	SHALIMARBAGH CKT-II	07.04.13	17:43	AT BAWANA CKT TRIPPED ON D/P. NO TRIPPING AT SHALIMARBAGH.
13	07.04.13	15:16	220KV BAWANA- SHALIMARBAGH CKT-I	07.04.13	17:42	AT BAWANA CKT TRIPPED ON D/P,186 A,B . NO TRIPPING AT SHALIMARBAGH
14	07.04.13	15:16	SHALIMAR BAGH 220/33kV 100MVA Tx-I	07.04.13	16:01	33KV I/C-1 OF TX TRIPPED ON 86.
15	08.04.13	2:28	SHALIMAR BAGH 220/33kV 100MVA Tx-I	08.04.13	3:05	33KV I/C OF TX TRIPPED ON 86.
16	08.04.13	9:45	400kV Ballabhgarh-Bamnauli Ckt-I	08.04.13	10:21	CKT TRIPPED ON 130E,186 A,B
17	08.04.13	20:09	SARITA VIHAR 220/66kV 100MVA Tx-II	08.04.13	20:44	OPERATION OF BUS BAR PROTECTION. Y-PH CT OF BUS-1 DAMAGED.
18	08.04.13	20:09	SARITA VIHAR 220/66kV 100MVA Tx-I	08.04.13	20:44	OPERATION OF BUS BAR PROTECTION. Y-PH PT OF BUS-1 DAMAGED.
19	09.04.13	8:40	220kV BAMNAULI- PAPPANKALAN-I CKT-I	09.04.13	9:34	AT PPK-1 CKT TRIPPED ON D/P, A,B,C-PHASE,86. 220KV BUS-1 B-PH CT DAMAGED.
20	09.04.13	8:40	PAPPANKALAN-I 220/66kV 100MVA Tx-III	09.04.13	9:34	TX TRIPPED ON AUTO TRIP INDICATION. 220KV BUS-1 B-PH DAMAGED.
21	09.04.13	9:12	220kV BAMNAULI- PAPPANKALAN-I CKT-II	09.04.13	9:34	AT BAMNAULI CKT TRIPPED ON D/P,Z-2,186A&B,A&B-PH. NO TRIPPING AT PPK-1.
22	09.04.13	14:50	PARKSTREET 66/33kV, 30MVA Tx-I	09.04.13	17:03	TX TRIPPED ON BUCHHOLZ INDICATION,86
23	11.04.13	17:26	KANJHAWALA 220/66kV 100MVA Tx-II	11.04.13	17:52	ABNORMAL NOISE OBSERVED AT CT OF TX.
24	11.04.13	17:36	PAPPANKALAN-II 220/66kV 100MVA Tx-II	11.04.13	20:50	TX TRIPPED ON PRV & LLB.
25	12.04.13	2:45	400kV Ballabhgarh-Bamnauli Ckt-I	12.04.13	2:50	AT BAMNAULI CKT TRIPPED ON 130C,186. CKT IS CHARGED UPTO TOWER NO-238.
26	15.04.13	16:55	BAWANA 400/220kV 315MVA ICT-IV	15.04.13	17:14	ICT TRIPPED WITHOUT INDICATION
27	16.04.13	20:48	220KVBAWANA- ROHINI CKT-II	16.04.13	21:24	FLASH OBSERVED AT BUS ISOLATOR OF CKT.
28	17.04.13	23:08	OKHLA 66/11kV, 20MVA Tx-I	17.04.13	23:40	11KV I/C-1 TRIPPED ON E/F.
29	18.04.13	11:17	220kV MEHRAULI - BTPS CKT. - II	18.04.13	11:53	AT MEHRAULI CKT TRIPPED ON D/P,Z-1,DISTANCE-14.07 KM AT BTPS CKT TRIPPED ON E/F
30	18.04.13	11:31	220kV BAMNAULI-NARAINA CKT-I	18.04.13	12:12	AT NARAYANA CKT TRIPPED ON BUS BAR PROTECTION .NO TRIPPING AT BAMNAULI.

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
31	20.04.13	13:18	LODHI RD 33/11kV, 20MVA Tx-I	20.04.13	13:27	TX TRIPPED ON O/C,86. 11KV I/C-1 TRIPPED WITHOUT INDICATION.
32	21.04.13	15:38	220KV BAWANA -NAJAFGARH CKT	21.04.13	16:04	AT BWN CKT TRIPPED ON D/P,B & C-PH,Z-1,DIST.-5.29 KM AT NJF CKT TRIPPED ON D/P, A,B,C-PH,
33	24.04.13	20:55	220 KV GOPALPUR-WAZIRABAD CKT	24.04.13	21:25	CKT TRIPPED WITHOUT INDICATION.
34	25.04.13	16:36	WAZIRABAD 220/66kV 100MVA Pr. Tx-II	25.04.13	17:50	TX TRIPPED WITHOUT INDICATION.
35	25.04.13	17:37	220 KV TRAUMA CENTER-RIDGE VALLEY CKT-2	25.04.13	17:50	AT RIDGE VALLEY CKT TRIPPED ON D/P R,Y&B-PH. NO TRIPPING AT TRAUMA CENTER.
36	25.04.13	17:37	220KV NARAINA-RIDGE VALLEY CKT NO. -I	25.04.13	17:50	CKT TRIPPED WITHOUT INDICATION AT NARAYANA. AT RIDGE VALLEY CKT TRIPPED ON R,Y&B-PH
37	26.04.13	22:42	RIDGE VALLEY 220/66kV 160MVA Pr.Tx-I	27.04.13	11:34	TX TRIPPED ON REX,86A,86B,CB TROUBLE ALARM,E/F
38	26.04.13	22:50	220kv MAHARANIBAGH-MASJID MOTH CKT-II	27.04.13	15:28	AT M BAGH CKT TRIPPED ON D/P,Z-1,R,Y&B-PH. NO TRIPPING AT M MOTH. AT 23:06 CKT TRIED FROM M BAGH HOLD OK BUT AT M MOTH CB DIDNOT HOLD.
39	26.04.13	22:50	220kv MAHARANIBAGH-MASJID MOTH CKT-I	06.03.13	20:05	AT M BAGH CKT TRIPPED ON D/P,Z-1,R,Y&B-PH. AT M MOTH CKT TRIPPED ON 86. AT 23:08 CKT TRIED BUT TRIPPED ON SOTF. CABLE FAULTY IN DMRC EXCAVATION.
40	28.04.13	6:44	220KV NARELA - MANDOLA CKT-II	28.04.13	7:23	AT MDL CKT TRIPPED ON D/P,Z-1,B-PH. NO TRIPPING AT NRL.
41	28.04.13	15:25	220KV WAZIRABAD - KASHMERE GATE CKT-I	28.04.13	17:17	AT K GATE CKT TRIPPED D/P,Z-1. AT WZB CKT TRIPPED ON D/P, A,B&C-PH
42	28.04.13	15:25	220KV WAZIRABAD - KASHMERE GATE CKT-II	28.04.13	21:52	AT WZB CKT TRIPPED ON O/C,B-PH. NO TRIPPING AT K GATE. HOWEVER AT K GATE Y&B-PH ISOLATOR CLAMP AND B PH-CT CLAMP MELTED.
43	29.04.13	1:39	220KV WAZIRABAD - MANDOLA CKT-II	29.04.13	2:06	AT WZB CKT TRIPPED ON D/P,Z-1,DIST-0.5KM. NO TRIPPING AT MDL.

20 DETAILS OF UNDER FREQUENCY RELAY OPERATIONS IN DELHI POWER SYSTEM DURING THE MONTH OF APRIL 2013

DATE	S. N.	TIME		Name of Grid	NAME OF AFFECTED FEEDERS	LOAD RELIEF IN MW
		OUT	IN			
				NIL		