DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

****

MAY - 2010

1 SALIENT FEATURES OF DELHI POWER SYSTEM

Sr. No.	Features	MAY 2010	MAY 2009
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
	Total	1440	1440
2	**Maximum Unrestricted Demand (MW)**	**4626**	**4139**
	Date	24.05.10	19.05.09
	Time	14:52:39	16:00
3	**Peak Demand met (MW)**	**4581**	**4107**
	Date	24.05.10	21.05.09
	Time	14:52:39	14:23:27
4	Peak Availability (MW)	4448	3597
5	Shortage (-) / Surplus (+) in MW	(-)133	(-)510
6	Percentage Shortage (-) / Surplus (+)	(-)2.9	(-)12.42
7	Maximum Energy Consume in a day (Mus)	91.478	84.206
8	Energy Consumed during the month	**2531.932**	**2292.273**
9	**Load Shedding in Mus**		
A)	Due to Grid Restrictions		
i)	Under Frequency Relay Operations	0.204	0.101
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	0.562	0.864
	BRPL	0.183	10.250
	BYPL	0.143	0.662
	NDMC	0.000	0.000
	MES	0.000	0.000
iv)	Due to transmission Constraints in Central Sector	0.000	1.302
	Total due to Grid Restriction	**1.092**	13.179
B)	Due to Constraints in System in Mus		
	DTL	4.413	1.997
	NDPL	0.713	1.775
	BRPL	2.824	1.002
	BYPL	0.973	0.310
	NDMC	0.000	0.000
	MES	0.000	0.000
	Other Agencies	1.874	0.153
	Total	**10.797**	**5.237**
11	**Grand Total in Mus**	**11.889**	**18.416**

2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING MAY 2010

A) For the month of May 2010

All Figures in MUs

S. No	Stations	Gross Generation	Aux. Consumption	Net Generation	Availability (%)	Backing Down
1.	**RPH**	24.74800	3.93000	20.81800	48.55	0.00000
2.	**GT**	78.86200	2.42900	76.43300	71.45	7.72775
3.	**PPCL**	196.15800	5.59400	190.56400	88.67	2.59150
4.	**BTPS**	381.48271	41.96310	339.51961	77.60	30.98575
	TOTAL	**681.25071**	**53.9161**	**627.33461**		**41.30500**

B) For the Year 2009-10 (Upto May 2010)

Power Station	Effective Capacity (MW)	Net Generation in MUs For May 2010	Availability (%) For May 2010	PLF (%) For May 2010	Cumulative Generation in MUs upto May 2010 for the year 2010-11	Cumulative Availability in % upto May 2010 for the year 2010-11	Cumulative PLF in % upto May 2010 for the year 2010-11
RPH	135	20.81800	48.55	46.96	112.566	57.00	56.19
GT	270	76.43300	71.45	67.49	252.468	69.18	66.92
PPCL	330	190.56400	88.67	87.59	426.991	88.63	88.08
BTPS	705	339.51961	77.60	70.96	786.5058	84.41	81.04
TOTAL	**1440**	**627.33461**			**1578.5308**		

3 DETAILS OF OUTAGES OF GENERATING STNS. WITHIN DELHI W.E.F. APRIL 2010

(A) RPH STATION

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	67.5	02.04.10	01.00	02.04.10	01.43	Boiler drum level low
		02.04.10	14.50	02.04.10	16.27	Tripped alongwtih trippings of associated transmission lines.
		11.04.10	22.13	11.04.10	23.08	Electrical Problem
		17.04.10	00.56	31.05.10	24.00	Planned shut-down for over-hauling of generator.
2	67.5	02.04.10	14.55	02.04.10	16.45	Tripped alongwtih trippings of associated transmission lines.
		20.04.10	13.42	21.04.10	17.12	Low furnace pressure
		28.04.10	18.39	28.04.10	19.23	Low vacuum
		01.05.10	18.15	01.05.10	20.52	Tripped alongwtih trippings of associated transmission lines.
		05.05.10	06.45	05.05.10	08.12	Furnace pressure low
		08.05.10	17.28	08.05.10	18.29	Drum levellow
		09.05.10	03.48	09.05.10	05.17	Flame failure
		26.05.10	12.25	26.05.10	14.20	33kV bus differential operated
		28.05.10	05.55	29.05.10	07.17	Drum level low

(B) Gas Turbine

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	30	11.05.10	17.58	11.05.10	20.07	FSNL due to tripping of 160 MVA Txr. Buchholz and E/F
		15.05.10	14.02	15.04.10	15.34	To attend the hot spot
		28.05.10	05.22	28.05.10	22.15	Due to heavy blast in 11 KV Breaker
		30.05.10	12.55	31.05.10	11.12	Stopped due to high frequency.
2	30	11.05.10	17.58	11.05.10	20.30	FSNL due to tripping of 160 MVA Txr. Buchholz and E/F
		30.05.10	13.45	31.05.10	09.19	Stopped due to high frequency.
3	30	01.05.10	06.05	01.05.10	18.35	Stopped to clean PHE
		28.05.10	10.20	28.05.10	11.27	Tripped on battery under voltage.
4	30	01.04.10	00.00	24.05.10	15.35	Planned shut-down
		24.05.10	18.02	24.05.10	22.50	Tripped on LTTH high.
		27.05.10	10.35	27.05.10	13.45	Take on FSNL to adjust the load.
		28.05.10	01.10	28.05.10	03.00	Tripped without any alarm.
		29.05.10	03.10	29.05.10	03.45	Tripped without any alarm.
		29.05.10	05.10	29.05.10	05.57	Tripped without any alarm.
		29.05.10	20.25	29.05.10	21.25	Came on FSNL
5	30	01.04.10	00.00	01.04.10	01.30	Hydraulic pressure low
		25.04.10	11.32	25.04.10	14.55	To change generator absolute filter.
		07.05.10	18.20	08.05.10	16.35	Stopped due to high frequency.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
6	**30**	16.04.10	11.35	16.04.10	17.16	To clean PHE of GT
		05.05.10	09.03	05.05.10	15.32	Stopped for PHE cleaning.
		08.05.10	18.02	10.05.10	09.30	Stopped due to high frequency.
		11.05.10	17.58	11.05.10	20.10	FSNL due to tripping of 160 MVA Txr. Buchholz and E/F
		24.05.10	16.45	24.05.10	21.13	Taken on FSNL to facilitate checking of auto synch. Mode.
		25.05.10	11.00	25.05.10	12.00	Taken on FSNL to facilitate checking of auto synch. Mode.
		27.05.10	14.12	27.05.10	14.55	Taken on FSNL to facilitate checking of auto synch. Mode.
		28.05.10	05.22	28.05.10	16.10	Due to blast in 11 KV Breaker
		29.05.10	17.42	30.05.10	09.55	Stopped due to high frequency.
STG1	**34**	07.04.10	12.55	07.04.10	17.35	To attend dearater level problem
		12.04.10	11.52	12.04.10	12.32	Lube oil header pressure low
		11.05.10	17.58	11.05.10	21.35	Tripped due to tripping of GT#2.
		19.05.10	23.25	20.05.10	03.25	Tripped on failure of supply of Turbine panel
		28.05.10	05.22	28.05.10	15.57	Due to blast in 11 KV Breaker
		30.05.10	13.45	31.05.10	12.46	Stopped due to high frequency.
STG2	**34**	15.04.10	11.15	15.04.10	18.40	To attend leakage in CPH linie
		01.05.10	06.05	01.05.10	20.30	Stopped as GT#3 stopped for cleaning of PHE
		11.05.10	14.46	11.05.10	20.34	Stopped due to leakage in SRV.
		17.05.10	19.05	17.05.10	20.55	Due to non availability of the BFPs.
		24.05.10	10.50	26.05.10	22.00	Stopped for condenser backwashing and other leakages
		28.05.10	05.22	28.05.10	08.25	Due to blast in 11 KV Breaker
STG3	**34**	02.04.10	03.25	07.04.10	05.28	Axial shift alarm appeared
		07.04.10	07.35	07.04.10	07.58	Lube oil pressure low
		09.07.10	21.20	09.04.10	22.32	Plunger coil trip alam
		29.04.10	11.06	29.04.10	15.15	Plunger coil trip alam
		05.05.10	09.05	05.05.10	17.32	Stopped to attend various leakages
		11.05.10	17.58	11.05.10	20.34	FSNL due to tripping of 160 MVA Txr. Buchholz and E/F
		18.05.10	07.05	18.05.10	17.58	Stopped to attend Various leakages
		18.05.10	18.34	18.05.10	18.55	Tripped on Control oil header pressure very low. Both the Boiler trip alarm also appeared.
		18.05.10	19.35	18.05.10	22.25	
		28.05.10	05.22	28.05.10	10.58	Due to blast in 11 KV Breaker
		29.05.10	17.42	30.05.10	13.37	Stopped due to high frequency.

(C) PRAGATI STATION

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	**104**	01.05.10	18.16	01.05.10	20.10	Tripped alongwtih trippings of associated transmission lines.
		23.05.10	09.45	23.05.10	15.41	Due to shut-down of 220kV Bus-II at IP Extension.
2	104	NO OUTAGE				

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG	**122**	02.04.10	14.50	02.04.10	16.34	Tripped due to tripping of associated transmission lines
		01.05.10	18.16	01.05.10	19.50	
		12.05.10	15.53	12.05.10		
		14.05.10	15.32	14.05.10	16.27	Tripped due to tripping of associated transmission lines

(D) BADARPUR THERMAL POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	95	05.04.10	22.04	06.04.10	21.40	Maintenance work
		23.04.10	16.09	23.04.10	21.50	Electrical fault
		01.05.10	19.09	02.05.10	20.04	Generation back down due to low demand and high frequency.
		11.05.10	21.37	12.05.10	12.53	Electrical problem
		25.05.10	03.50	11.06.10	14.30	Excel shaft high
2	95	07.05.10	19.45	10.05.10	08.16	Generation back down due to low demand and high frequency.
		20.05.10	11.35	22.05.10	22.40	Boiler Tube Leakage
3	95	03.04.10	00.18	03.04.10	05.20	Protection failure
		09.04.10	12.50	09.04.10	16.17	Vacuum low
		30.04.10	02.04	30.04.10	24.00	Annual maintenance
4	210	23.04.10	07.02	24.04.10	19.55	Water valve leakage
		04.05.10	12.29	05.05.10	13.39	Boiler Tube Leakage
		12.05.10	23.25	13.05.10	18.32	Boiler Tube Leakage
		17.05.10	00.28	17.05.10	17.50	Boiler Tube Leakage
		19.05.10	12.43	20.05.10	03.02	Boiler Tube Leakage
		21.05.10	08.00	22.05.10	05.56	Boiler Tube Leakage
		22.05.10	06.57	22.05.10	07.49	Electrical Problem
		27.05.10	20.33	31.05.10	12.14	Boiler Tube Leakage
5	210	02.04.10	16.29	03.04.10	20.22	Boiler tube leakage
		17.04.10	22.30	18.04.10	12.20	Boiler tube leakage
		09.05.10	17.40	09.05.10	19.48	Tripped on jerk due to tripping of 220kV Ballabhgarh – BTPS Ckts and 220kV BTPS – Alwar Ckt.
		13.05.10	17.58	13.05.10	20.11	Furnace problem

4 ALLOCATION OF POWER TO DELHI

A) Allocation from Central Sector Generating Stations to Delhi w.e.f. 28.04.2010

i) TIME BLOCK - 00.00hrs & 10.00hrs. and 23.00-24.00hrs @ 0% from unallocated quota of Central Sector Generating Stations

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand	1000	150	100	87	0	0	87
Rihand Stage -II	1000	150	126	109	0	0	109
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	0	882	766	0	0	766
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	**8782**	**1005**	**2321**	**2029**	**0**	**0**	**2029**
NHPC							
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
URI HEP	480	0	53	50	0	0	50
Dhauli Ganga HEP	280	42	37	35	0	0	35
Dulhasti HEP	390	58	50	48	0	0	48
TOTAL	**2954**	**154**	**335**	**318**	**0**	**0**	**318**
NPC							
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**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	0	0	123
THDC							
Tehri Hydro	1000	99	103	89	0	0	89
Total	**15556**	**1601**	**3004**	**2650**	**0**	**0**	**2650**
Allocation from ER and Tala HEP							
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**
Grand Total	**21766**	**1754**	**3293**	**2892**	**0**	**0**	**2892**

ii) TIME BLOCK - 18.00-23.00hrs @ 9% from unallocated quota of Central Sector Generating Stations

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	20	18	148
Rihand	1000	150	100	87	10	9	96
Rihand Stage -II	1000	150	126	109	10	9	118
ANTA GPS	419	63	44	41	4	4	45
Auriya GPS	663.36	99	72	67	5	4	71
Dadri GPS	829.78	129	91	85	4	4	88
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	0	882	766	0	0	766
Unchahaar-I TPS	420	20	24	21	1	1	22
Unchahaar-II TPS	420	63	47	41	4	4	45
Unchahaar-III TPS	210	31	29	25	2	2	27
TOTAL	**8782**	**1005**	**2321**	**2029**	**61**	**54**	**2083**
NHPC							
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	4	3	41
URI HEP	480	0	53	50	0	0	50
Dhauli Ganga HEP	280	42	37	35	3	3	38
Dulhasti HEP	390	58	50	48	4	4	51
TOTAL	**2954**	**154**	**335**	**318**	**10**	**10**	**328**
NPC							
Narora APS	440	64	47	41	4	4	45
RAPP(B) Unit-3 APS	220	33	0	0	7	6	6
RAPP(B) Unit-4 APS	220	33	0	0	7	6	6
RAPP (C)	440	64	56	49	8	7	55
TOTAL	**1320**	**194**	**103**	**89**	**26**	**22**	**112**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	10	10	133
THDC							
Tehri Hydro	1000	99	103	89	7	6	96
Total	**15556**	**1601**	**3004**	**2650**	**114**	**102**	**2752**
Allocation from ER and Tala HEP							
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**
Grand Total	**21766**	**1754**	**3293**	**2892**	**114**	**102**	**2994**

B) Allocation from Central Sector Generating Stations to Delhi w.e.f. 14.05.2010

i) TIME BLOCK - 00.00HRS.- 00.00-10.00hrs. and 23.00hrs. - 24.00hrs @ 0% from unallocated quota of Central Sector Generating Stations

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand	1000	150	100	87	0	0	87
Rihand Stage -II	1000	150	126	109	0	0	109
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	490	0	441	383	0	0	383
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	**8292**	**1005**	**1880**	**1646**	**0**	**0**	**1646**
NHPC							
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
URI HEP	480	0	53	50	0	0	50
Dhauli Ganga HEP	280	42	37	35	0	0	35
Dulhasti HEP	390	58	50	48	0	0	48
TOTAL	**2954**	**154**	**335**	**318**	**0**	**0**	**318**
NPC							
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**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	0	0	123
THDC							
Tehri Hydro	1000	99	103	89	0	0	89
Total	**15066**	**1601**	**2563**	**2267**	**0**	**0**	**2267**
Allocation from ER and Tala HEP							
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**
Grand Total	**21276**	**1754**	**2852**	**2508**	**0**	**0**	**2508**

ii) Time Block 10.00HRS. - 18.00hrs. to 23.00hrs. @ 8% Un-allocated quota of Central Sector Generating Stations (without RAPP Unit-3 & 4)

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	19	17	147
Rihand	1000	150	100	87	10	8	95
Rihand Stage -II	1000	150	126	109	10	8	118
ANTA GPS	419	63	44	41	4	4	45
Auriya GPS	663.36	99	72	67	4	4	71
Dadri GPS	829.78	129	91	85	4	3	88
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	490	0	441	383	0	0	383
Unchahaar-I TPS	420	20	24	21	1	1	22
Unchahaar-II TPS	420	63	47	41	4	4	44
Unchahaar-III TPS	210	31	29	25	2	2	27
TOTAL	**8292**	**1005**	**1880**	**1646**	**58**	**51**	**1697**
NHPC							
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	5	4	42
URI HEP	480	0	53	50	0	0	50
Dhauli Ganga HEP	280	42	37	35	3	3	38
Dulhasti HEP	390	58	50	48	4	4	51
TOTAL	**2954**	**154**	**335**	**318**	**11**	**11**	**329**
NPC							
Narora APS	440	64	47	41	4	4	44
RAPP(B) Unit-3 APS	220	33	0	0	0	0	0
RAPP(B) Unit-4 APS	220	33	0	0	0	0	0
RAPP (C)	440	64	56	49	7	6	54
TOTAL	**1320**	**194**	**103**	**89**	**11**	**9**	**99**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	9	9	132
THDC							
Tehri Hydro	1000	99	103	89	6	6	95
Total	**15066**	**1601**	**2563**	**2267**	**95**	**86**	**2352**
Allocation from ER and Tala HEP							
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**
Grand Total	**21276**	**1754**	**2852**	**2508**	**95**	**86**	**2594**

iii) Time Block 10.00HRS. - 18.00hrs. to 23.00hrs. @ 8% Un-allocated quota of Central Sector Generating Stations (with RAPP Unit-3 & 4)

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	19	17	147
Rihand	1000	150	100	87	10	8	95
Rihand Stage -II	1000	150	126	109	10	8	118
ANTA GPS	419	63	44	41	4	4	45
Auriya GPS	663.36	99	72	67	4	4	71
Dadri GPS	829.78	129	91	85	4	3	88
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	490	0	441	383	0	0	383
Unchahaar-I TPS	420	20	24	21	1	1	22
Unchahaar-II TPS	420	63	47	41	4	4	44
Unchahaar-III TPS	210	31	29	25	2	2	27
TOTAL	**8292**	**1005**	**1880**	**1646**	**58**	**51**	**1697**
NHPC							
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	5	4	42
URI HEP	480	0	53	50	0	0	50
Dhauli Ganga HEP	280	42	37	35	3	3	38
Dulhasti HEP	390	58	50	48	4	4	51
TOTAL	**2954**	**154**	**335**	**318**	**11**	**11**	**329**
NPC							
Narora APS	440	64	47	41	4	4	44
RAPP(B) Unit-3 APS	220	33	0	0	7	6	6
RAPP(B) Unit-4 APS	220	33	0	0	7	6	6
RAPP (C)	440	64	56	49	7	6	54
TOTAL	**1320**	**194**	**103**	**89**	**25**	**22**	**111**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	9	9	132
THDC							
Tehri Hydro	1000	99	103	89	6	6	95
Total	**15066**	**1601**	**2563**	**2267**	**109**	**98**	**2364**
Allocation from ER and Tala HEP							
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**
Grand Total	**21276**	**1754**	**2852**	**2508**	**109**	**98**	**2606**

5 ALLOCATION OF POWER TO DISCOMS

ALLOCATION OF POWER TO VARIOUS LISCENCEES 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. 01.01.2010 TO 31.03.2010. ALLOCATION OF 0.9MW HAS BEEN ALLOCATED TO UPCOMING JHAJJHAR PLAT FROM IP STATION. ALLOCATION OF 1 MW POWER FOR AUXILIARY NEEDS OF IP STATION FROM RPH WAS MADE W.E.F. 01.11.2009.

(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. IP	0.00	0.00	0.00	0.00	0.00	100.00
5. RPH	0.86	0.00	28.35	43.04	27.75	100.00
6. GT	0.93	0.00	28.28	42.99	27.80	100.00
7. Pragati	26.69	0.00	20.77	31.76	20.78	100.00
8. 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. IP	0.00	0.00	0.00	0.00	0.00	100.00
5. RPH	0.00	0.00	28.35	43.04	28.61	100.00
6. GT	0.00	0.00	28.28	42.99	29.73	100.00
7. Pragati	25.76	0.00	20.77	31.76	21.71	100.00
8. DVC	0.00	0.00	29.18	43.58	27.24	100.00

6 POWER AVAILABILITY-DEMAND POSITION AT THE TIME OF PEAK DEMAND MET DURING MAY 2010

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
		IP	RPH	GT	PPCL	BTPS	Total						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)= (3) to (7)	(9)	(10)	(11)= (10) -(9)	(12)= (10)+ (11)	(13)	(14)= (12)+ (13)
1	00:01:21	0	61	174	288	529	1052	2583	2746	163	3635	4	3639
2	22:54:42	0	63	179	290	492	1024	2515	3223	708	3539	0	3539
3	15:01:28	0	63	167	283	536	1049	2867	3118	251	3916	0	3916
4	16:06:51	0	64	165	277	321	827	3179	2910	-269	4006	10	4016
5	16:06:16	0	60	157	275	513	1005	3144	3239	95	4149	12	4161
6	22:33:02	0	62	175	286	540	1063	3097	3252	155	4160	0	4160
7	15:00:00	0	62	177	291	542	1072	2814	3533	719	3886	57	3943
8	22:55:39	0	60	123	291	460	934	2762	3304	542	3696	0	3696
9	22:56:16	0	62	128	290	444	924	2810	3000	190	3734	0	3734
10	15:06:16	0	61	164	278	507	1010	3021	3343	322	4031	0	4031
11	22:59:39	0	62	157	288	459	966	3131	3135	4	4097	10	4107
12	15:06:04	0	63	163	277	524	1027	3043	2859	-184	4070	75	4145
13	15:34:19	0	62	155	269	286	772	3435	3463	28	4207	37	4244
14	15:18:37	0	63	156	272	487	978	3250	3224	-26	4228	80	4308
15	23:30:00	0	58	168	290	511	1027	3006	3243	237	4033	0	4033
16	22:58:29	0	58	171	284	516	1029	2999	3353	354	4028	4	4032
17	23:19:24	0	62	164	280	525	1031	3305	3378	73	4336	29	4365
18	15:04:02	0	62	144	270	517	993	3405	3461	56	4398	70	4468
19	15:29:45	0	62	161	275	351	849	3537	3535	-2	4386	149	4535
20	14:57:48	0	54	158	275	408	895	3483	3364	-119	4378	115	4493
21	15:04:17	0	62	159	273	263	757	3530	3545	15	4287	112	4399
22	15:02:35	0	61	151	276	437	925	3286	3515	229	4211	0	4211
23	22:59:36	0	62	170	281	515	1028	3183	3386	203	4211	10	4221
24	14:52:39	0	61	156	272	530	1019	3562	3429	-133	4581	45	4626
25	15:04:04	0	62	177	272	420	931	3586	3641	55	4517	65	4582
26	15:08:46	0	62	178	268	429	937	3591	3783	192	4528	43	4571
27	15:32:55	0	64	187	272	473	996	3501	3694	193	4497	13	4510
28	00:00:15	0	60	191	284	319	854	3550	3020	-530	4404	0	4404
29	15:04:12	0	56	191	276	347	870	3357	3456	99	4227	10	4237
30	23:42:41	0	62	136	286	348	832	2923	3373	450	3755	0	3755
31	15:52:12	0	63	192	273	524	1052	3245	3380	135	4297	3	4300

7 POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF MAXIMUM UNRESTRICTED DEMAND DURING MAY 2010

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
		IP	RPH	GT	PPCL	BTPS	Total						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)=(3) to (7)	(9)	(10)	(11)= (10) -(9)	(12)=(10) + (11)	(13)	(14)= (12)+ (13)
1	00:01:21	0	61	174	288	529	1052	2583	2746	163	3635	4	3639
2	22:54:42	0	63	179	290	492	1024	2515	3223	708	3539	0	3539
3	15:01:28	0	63	167	283	536	1049	2867	3118	251	3916	0	3916
4	16:06:51	0	64	165	277	321	827	3179	2910	-269	4006	10	4016
5	16:06:16	0	60	157	275	513	1005	3144	3239	95	4149	12	4161
6	22:33:02	0	62	175	286	540	1063	3097	3252	155	4160	0	4160
7	15:00:00	0	62	177	291	542	1072	2814	3533	719	3886	57	3943
8	22:55:39	0	60	123	291	460	934	2762	3304	542	3696	0	3696
9	22:56:16	0	62	128	290	444	924	2810	3000	190	3734	0	3734
10	15:06:16	0	61	164	278	507	1010	3021	3343	322	4031	0	4031
11	22:59:39	0	62	157	288	459	966	3131	3135	4	4097	10	4107
12	15:06:04	0	63	163	277	524	1027	3043	2859	-184	4070	75	4145
13	15:34:19	0	62	155	269	286	772	3435	3463	28	4207	37	4244
14	15:18:37	0	63	156	272	487	978	3250	3224	-26	4228	80	4308
15	23:30:00	0	58	168	290	511	1027	3006	3243	237	4033	0	4033
16	22:58:29	0	58	171	284	516	1029	2999	3353	354	4028	4	4032
17	23:00:00	0	62	164	279	525	1030	3302	3378	76	4332	38	4370
18	15:04:02	0	62	144	270	517	993	3405	3461	56	4398	70	4468
19	15:29:45	0	62	161	275	351	849	3537	3535	-2	4386	149	4535
20	14:57:48	0	54	158	275	408	895	3483	3364	-119	4378	115	4493
21	15:04:17	0	62	159	273	263	757	3530	3545	15	4287	112	4399
22	16:00:00	0	62	152	277	437	928	3275	3475	200	4203	10	4213
23	22:59:36	0	62	170	281	515	1028	3183	3386	203	4211	10	4221
24	14:52:39	0	61	156	272	530	1019	3562	3429	-133	4581	45	4626
25	15:04:04	0	62	177	272	420	931	3586	3641	55	4517	65	4582
26	15:08:46	0	62	178	268	429	937	3591	3783	192	4528	43	4571
27	15:32:55	0	64	187	272	473	996	3501	3694	193	4497	13	4510
28	00:00:15	0	60	191	284	319	854	3550	3020	-530	4404	0	4404
29	15:04:12	0	56	191	276	347	870	3357	3456	99	4227	10	4237
30	23:42:41	0	62	136	286	348	832	2923	3373	450	3755	0	3755
31	15:52:12	0	63	192	273	524	1052	3245	3380	135	4297	3	4300

8 SOURCEWISE SCHEDULED DRAWL FROM NORTHERN GRID AS WELL AS AVAILABILITY WITHIN DELHI FOR MAY 2010

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

A (i) RPH	48.371
JHAJJAR SHARE	0.682
NET RPH	47.689
(ii) GT+WHRU	127.441
(iii) PRAGATI	216.201
TOTAL (i+ii+iii)	391.331
B) AVAILABILITY FROM BTPS	338.631
C) AUXILIARY CONSUMPTION OF GENERATING STNs. EXCLUDING BTPS	16.209
D) NET GENERATION AVAILABLE WITHIN DELHI(A+B-C)	**713.753**

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	8.801	8.510	8.801	8.510
SALAL	48.313	46.711	48.073	46.480
TANKAPUR	3.598	3.479	5.168	4.997
CHAMERA	20.349	19.678	20.349	19.678
CHAMERA -II	26.871	25.982	26.871	25.982
DHAULIGANGA	14.728	14.239	14.728	14.239
URI	38.984	37.694	38.939	37.650
ANTA (GAS)	21.099	20.400	21.068	20.371
ANTA (RLNG)	8.037	7.771	3.235	3.127
ANTA (LIQUID)	0.000	0.000	0.000	0.000
DADRI (GAS)	46.756	45.212	46.666	45.125
DADRI (RLNG)	12.861	12.432	4.891	4.727
DADRI (LIQUID)	0.000	0.000	0.000	0.000
AURAIYA (GAS)	32.111	31.054	32.066	31.011
AURAIYA (RLNG)	13.427	12.984	5.695	5.506
AURAIYA (LIQUID)	0.000	0.000	0.000	0.000
SINGRAULI	114.900	111.101	114.900	111.101
RIHAND -I	47.696	46.101	47.549	45.959
RIHAND -II	92.390	89.334	92.208	89.159
UNCHAHAR-I	16.700	16.148	16.340	15.801
UNCHAHAR-II	31.178	30.152	30.430	29.430
UNCHAHAR-III	21.632	20.917	21.169	20.470
DADRI (TH)	504.879	488.128	482.520	466.512
DADRI (TH) STAGE-II	300.938	290.976	281.984	272.648
NAPP	5.295	5.115	5.295	5.115
RAPP 'B'	1.392	1.345	1.391	1.344
RAPP 'C'	23.164	22.411	23.134	22.382
NATHPA JHAKRI	91.049	88.031	91.049	88.031
DULASTI	36.067	34.878	36.067	34.878
TEHRI	13.782	13.328	13.782	13.328
KHELGAON	25.875	25.293	25.293	24.458
KHELGAON-II	62.120	60.688	60.688	58.704
FARAKA	13.538	13.235	13.235	12.797
TALA	5.149	5.038	5.038	4.868
DVC	51.960	50.782	50.782	49.106
ORISSA	37.195	36.360	34.907	33.752
MADHYA PRADESH	76.254	72.031	72.031	69.641
CHATTISHGARH	267.551	252.738	252.740	244.349
CHATTISHGARH	79.313	74.906	71.160	68.781

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
WEST BENGAL	15.509	15.161	15.161	14.659
MAHARASTHRA	14.486	13.687	13.023	12.593
RAJASTHAN	27.994	25.881	25.881	25.029
HARYANA	6.640	6.410	6.640	6.410
UTTRANCHAL	29.760	28.776	29.760	28.776
HIMACHAL PRADESH	62.265	60.206	62.265	60.206
ANDHRA PRADESH	0.788	0.745	0.730	0.705
SIKKIM	21.731	21.243	21.220	20.540
ANDHRA PRADESH	57.308	54.009	50.616	48.942
ARUNACHAL PRADESH	5.508	5.390	5.213	5.037
PUNJAB	35.975	32.681	32.681	31.604
UTTAR PRADESH	25.555	23.462	23.462	22.675
GUJRAT	27.839	26.297	26.297	25.422
GUJRAT	11.161	10.545	9.995	9.664
TO KARNATAKA (ER)	0.000	0.000	0.000	0.000
TO KARNATAKA (WR)	-2.706	-2.774	-2.774	-2.866
TO MEGHALAYA	0.000	0.000	0.000	0.000
TO MADHYA PRADESH	0.000	0.000	0.000	0.000
TO WEST BENGAL	0.000	0.000	0.000	0.000
TO HARYANA	-0.691	-0.714	-0.691	-0.714
TO RAJASTHAN	0.000	0.000	0.000	0.000
POWER EXCHANGE(IEX)	8.014	7.747	8.014	7.747
TO POWER EXCHANGE (IEX)	-120.765	-124.898	-131.098	-135.551
POWRER EXCHANGE(PX)	1.969	1.903	1.969	1.903
TO POWER EXCHANGE (PX)	-1.359	-1.404	-1.359	-1.404
TOTAL	**2442.929**	**2339.536**	**2317.244**	**2231.396**

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

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
NTPC - NR	1264.602	1222.710	1200.721	1160.947
NTPC - ER	101.533	99.216	99.216	95.959
NHPC	197.711	191.172	198.995	192.415
NPC	29.851	28.872	29.819	28.841
NATHPA JHAKRI	91.049	88.031	91.049	88.031
TEHRI	13.782	13.328	13.782	13.328
TALA	5.149	5.038	5.038	4.868
DVC	51.960	50.782	50.782	49.106
ORISSA	37.195	36.360	34.907	33.752
MADHYA PRADESH	76.254	72.031	72.031	69.641
CHATTISHGARH	267.551	252.738	252.740	244.349
CHATTISHGARH	79.313	74.906	71.160	68.781
WEST BENGAL	15.509	15.161	15.161	14.659
MAHARASTHRA	14.486	13.687	13.023	12.593
RAJASTHAN	27.994	25.881	25.881	25.029
HARYANA	6.640	6.410	6.640	6.410
UTTRANCHAL	29.760	28.776	29.760	28.776
HIMACHAL PRADESH	62.265	60.206	62.265	60.206
ANDHRA PRADESH	0.788	0.745	0.730	0.705

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
SIKKIM	21.731	21.243	21.220	20.540
ANDHRA PRADESH	57.308	54.009	50.616	48.942
ARUNACHAL PRADESH	5.508	5.390	5.213	5.037
PUNJAB	35.975	32.681	32.681	31.604
UTTAR PRADESH	25.555	23.462	23.462	22.675
GUJRAT	27.839	26.297	26.297	25.422
GUJRAT	11.161	10.545	9.995	9.664
POWER EXCHANGE(IEX)	8.014	7.747	8.014	7.747
POWER EXCHANGE(PX)	1.969	1.903	1.969	1.903
TOTAL	**2568.451**	**2469.327**	**2453.166**	**2371.931**

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 KARNATAKA (ER)	0.000	0.000	0.000	0.000
TO KARNATAKA (WR)	-2.706	-2.774	-2.774	-2.866
TO MEGHALAYA	0.000	0.000	0.000	0.000
TO MADHYA PRADESH	0.000	0.000	0.000	0.000
TO WEST BENGAL	0.000	0.000	0.000	0.000
TO HARYANA	-0.691	-0.714	-0.691	-0.714
TO RAJASTHAN	0.000	0.000	0.000	0.000
TO POWER EXCHANGE (IEX)	-120.765	-124.898	-131.098	-135.551
TO POWER EXCHANGE (PX)	-1.359	-1.404	-1.359	-1.404
TOTAL	**-125.521**	**-129.791**	**-135.922**	**-140.536**
(G) TOTAL SCHEDULED DRAWL FROM THE GRID (G=Fa+Fb+Fc)	2442.929	2339.536	2317.244	2231.396
TOTAL CONSUMPTION INCLUDING AUX. OF GENERATING STNs. EXCLUDING BTPS				2548.141
NET CONSUMPTION				2531.932
AVAILABILITY WITHIN DELHI				713.753
ACTUAL DRAWAL FROM THE GRID				1818.179
OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID ON THE BASIS OF SCHEDULED ALLOCATION MADE BY NRLDC TO DELHI AT PERIPHERY				(-)413.217
LOAD SHEDDING				**11.889**
UNRESTRICTED DEMAND (GROSS)				**2560.030**
UNRESTRICTED DEMAND (NET)				**2543.821**
MAX. NET CONSUMPTION				91.478Mus. ON 24.05.2010
MAX. LOAD SHEDDING				991 MW ON 18.05.2010 AT 10.00HRS.
PEAK LOAD DAY PEAK EVENING PEAK	Peak Demand during the month 4581MW AT 14:52:39HRS ON 24.05.2010 4458MW AT 23:00:00HRS ON 27.05.2010			SHEDDING AT PEAK TIME 45MW 51MW
P.L.F. OF GENCO AND PRAGATI STNs.	RPH GT PRAGATI			48.16% 63.44% 88.06%

9 SHEDDING DETAILS DURING THE MONTH OF MAY 2010.

ALL FIGURES IN MUs

DATE	No. of Under Freq. Relay Operated	Shedding due to under frequency relay operation in MUs					Shedding due to Grid Restrictions (Over drawal / 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-May-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
2-May-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
3-May-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
4-May-10	2	0.001	0.000	0.004	0.000	**0.005**	0.000	0.038	0.013	0.000
5-May-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
6-May-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
7-May-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
8-May-10	1	0.002	0.000	0.000	0.000	**0.002**	0.000	0.000	0.000	0.000
9-May-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
10-May-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
11-May-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
12-May-10	0	0.000	0.000	0.000	0.000	**0.000**	0.126	0.079	0.071	0.000
13-May-10	2	0.000	0.027	0.003	0.000	**0.030**	0.000	0.000	0.127	0.000
14-May-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.215	0.000
15-May-10	1	0.000	0.000	0.002	0.000	**0.002**	0.000	0.000	0.000	0.000
16-May-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
17-May-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.126	0.000
18-May-10	6	0.035	0.071	0.045	0.000	**0.151**	0.000	0.000	0.000	0.000
19-May-10	2	0.008	0.000	0.004	0.000	**0.012**	0.017	0.066	0.006	0.000
20-May-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.004	0.000
21-May-10	1	0.002	0.000	0.000	0.000	**0.002**	0.000	0.000	0.000	0.000
22-May-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
23-May-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
24-May-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
25-May-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
26-May-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
27-May-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
28-May-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
29-May-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
30-May-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
31-May-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
TOTAL	**15**	**0.048**	**0.098**	**0.058**	**0.000**	**0.204**	**0.143**	**0.183**	**0.562**	**0.000**

ALL FIGURES IN MUs

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				
							DTL				
	BSES		NDPL	NDMC			BSES		NDPL	NDMC	MES
	BYPL	BRPL					BYPL	BRPL			
1	12	13	14	15	**16=8to15**	**17=16+7**	18	19	20	21	22
1-May-10	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.126	0.054	0.006	0.000	0.000
2-May-10	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
3-May-10	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.017	0.000	0.000	0.000
4-May-10	0.000	0.000	0.000	0.000	**0.051**	**0.056**	0.000	0.033	0.000	0.000	0.000
5-May-10	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.136	0.049	0.000	0.000
6-May-10	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.013	0.000	0.000	0.000	0.000
7-May-10	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.144	0.000	0.000	0.000
8-May-10	0.000	0.000	0.000	0.000	**0.000**	**0.002**	0.004	0.000	0.031	0.000	0.000
9-May-10	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
10-May-10	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.002	0.000	0.000	0.000
11-May-10	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.029	0.000	0.063	0.000
12-May-10	0.000	0.000	0.000	0.000	**0.276**	**0.276**	0.000	0.000	0.000	0.000	0.000
13-May-10	0.000	0.000	0.000	0.000	**0.127**	**0.157**	0.046	0.019	0.152	0.000	0.000
14-May-10	0.000	0.000	0.000	0.000	**0.215**	**0.215**	0.000	0.000	0.005	0.000	0.000
15-May-10	0.000	0.000	0.000	0.000	**0.000**	**0.002**	0.002	0.027	0.017	0.000	0.000
16-May-10	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
17-May-10	0.000	0.000	0.000	0.000	**0.126**	**0.126**	0.000	0.001	0.000	0.000	0.000
18-May-10	0.000	0.000	0.000	0.000	**0.000**	**0.151**	0.014	0.802	0.186	0.008	0.022
19-May-10	0.000	0.000	0.000	0.000	**0.089**	**0.101**	0.023	0.370	0.014	0.000	0.000
20-May-10	0.000	0.000	0.000	0.000	**0.004**	**0.004**	0.000	0.106	0.000	0.000	0.000
21-May-10	0.000	0.000	0.000	0.000	**0.000**	**0.002**	0.000	0.000	0.000	0.000	0.000
22-May-10	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.009	0.000	0.000	0.000
23-May-10	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.080	0.000	0.000	0.000
24-May-10	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.054	0.259	0.036	0.000	0.000
25-May-10	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.015	0.008	0.000	0.045	0.000
26-May-10	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.030	0.500	0.008	0.014	0.000
27-May-10	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.401	0.000	0.000	0.000
28-May-10	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
29-May-10	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.066	0.313	0.000	0.000
30-May-10	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.005	0.000	0.000
31-May-10	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.049	0.000	0.000	0.000
TOTAL	**0.000**	**0.000**	**0.000**	**0.000**	**0.888**	**1.092**	**0.327**	**3.112**	**0.822**	**0.130**	**0.022**

ALL FIGURES IN MUs

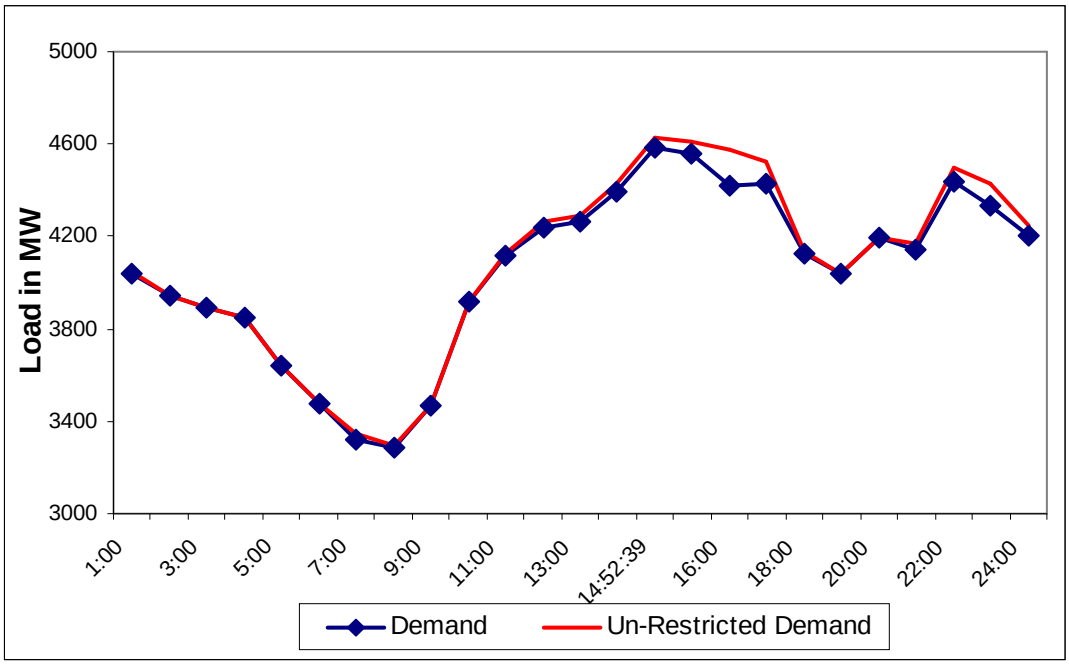
DATE	DUE TO T&D CONTRAINTS			OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.	THEFT PRONE SHEDDING			TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE	GRAND TOTAL
	DISCOMS								
	BSES		NDPL		BSES		NDPL		
	BYPL	BRPL			BYPL	BRPL			
1	23	24	25	2+	27	28	29	30=18 to29	31=30+17
1-May-10	0.024	0.084	0.019	0.000	0.000	0.000	0.000	**0.313**	**0.313**
2-May-10	0.057	0.000	0.000	0.000	0.000	0.000	0.000	**0.057**	**0.057**
3-May-10	0.000	0.137	0.003	0.000	0.000	0.000	0.000	**0.157**	**0.157**
4-May-10	0.000	0.039	0.018	0.000	0.000	0.000	0.000	**0.090**	**0.146**
5-May-10	0.069	0.042	0.054	0.001	0.000	0.000	0.000	**0.351**	**0.351**
6-May-10	0.012	0.000	0.001	0.000	0.000	0.000	0.000	**0.026**	**0.026**
7-May-10	0.004	0.014	0.020	0.000	0.000	0.000	0.000	**0.182**	**0.182**
8-May-10	0.000	0.000	0.003	0.000	0.000	0.000	0.000	**0.038**	**0.040**
9-May-10	0.000	0.024	0.000	0.228	0.000	0.000	0.000	**0.252**	**0.252**
10-May-10	0.005	0.025	0.000	0.000	0.000	0.000	0.000	**0.032**	**0.032**
11-May-10	0.000	0.000	0.029	0.002	0.000	0.000	0.000	**0.123**	**0.123**
12-May-10	0.056	0.033	0.025	0.000	0.000	0.000	0.000	**0.114**	**0.390**
13-May-10	0.012	0.014	0.023	0.918	0.000	0.000	0.008	**1.192**	**1.349**
14-May-10	0.000	0.345	0.038	0.031	0.000	0.000	0.008	**0.427**	**0.642**
15-May-10	0.003	0.027	0.005	0.000	0.000	0.000	0.009	**0.090**	**0.092**
16-May-10	0.004	0.058	0.000	0.000	0.000	0.000	0.001	**0.063**	**0.063**
17-May-10	0.171	0.176	0.044	0.000	0.000	0.000	0.004	**0.396**	**0.522**
18-May-10	0.082	0.265	0.049	0.000	0.000	0.000	0.000	**1.428**	**1.579**
19-May-10	0.076	0.275	0.023	0.000	0.000	0.000	0.000	**0.781**	**0.882**
20-May-10	0.093	0.236	0.005	0.000	0.000	0.000	0.000	**0.440**	**0.444**
21-May-10	0.011	0.059	0.045	0.284	0.000	0.000	0.000	**0.399**	**0.401**
22-May-10	0.000	0.008	0.023	0.008	0.000	0.000	0.000	**0.048**	**0.048**
23-May-10	0.017	0.037	0.009	0.000	0.000	0.000	0.000	**0.143**	**0.143**
24-May-10	0.046	0.220	0.060	0.000	0.000	0.000	0.000	**0.675**	**0.675**
25-May-10	0.034	0.264	0.153	0.088	0.000	0.000	0.000	**0.607**	**0.607**
26-May-10	0.086	0.132	0.009	0.129	0.000	0.000	0.000	**0.908**	**0.908**
27-May-10	0.078	0.149	0.005	0.147	0.000	0.000	0.000	**0.780**	**0.780**
28-May-10	0.007	0.093	0.012	0.038	0.000	0.000	0.000	**0.150**	**0.150**
29-May-10	0.018	0.058	0.002	0.000	0.000	0.000	0.000	**0.457**	**0.457**
30-May-10	0.000	0.010	0.001	0.000	0.000	0.000	0.000	**0.016**	**0.016**
31-May-10	0.008	0.000	0.005	0.000	0.000	0.000	0.000	**0.062**	**0.062**
TOTAL	**0.973**	**2.824**	**0.683**	**1.874**	**0.000**	**0.000**	**0.030**	**10.797**	**11.889**

DATE	(NET CONS.)	MAXI. DEMAND MET DURING THE DAY	TIME OF OCCUR-RENCE OF MAX DEMAND	SHEDDING AT THIS TIME	UN-REST-RICTED DEMAND	MAXIMUM UN-REST-RICTED 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-May-10	**74.215**	3635	00:01:21	4	**3639**	**3639**	00:01:21	3635	4
2-May-10	**69.456**	3539	22:54:42	0	**3539**	**3539**	22:54:42	3539	0
3-May-10	**77.670**	3916	15:01:28	0	**3916**	**3916**	15:01:28	3916	0
4-May-10	**79.022**	4006	16:06:51	10	**4016**	**4016**	16:06:51	4006	10
5-May-10	**80.829**	4149	16:06:16	12	**4161**	**4161**	16:06:16	4149	12
6-May-10	**85.473**	4160	22:33:02	0	**4160**	**4160**	22:33:02	4160	0
7-May-10	**80.753**	3886	15:00	57	**3943**	**3943**	15:00	3886	57
8-May-10	**73.343**	3696	22:55:39	0	**3696**	**3696**	22:55:39	3696	0
9-May-10	**72.319**	3734	22:56:16	0	**3734**	**3734**	22:56:16	3734	0
10-May-10	**80.528**	4031	15:06:16	0	**4031**	**4031**	15:06:16	4031	0
11-May-10	**81.054**	4097	22:59:39	10	**4107**	**4107**	22:59:39	4097	10
12-May-10	**83.989**	4070	15:06:04	75	**4145**	**4145**	15:06:04	4070	75
13-May-10	**81.121**	4207	15:34:19	37	**4244**	**4244**	15:34:19	4207	37
14-May-10	**86.027**	4228	15:18:37	80	**4308**	**4308**	15:18:37	4228	80
15-May-10	**84.588**	4033	23:30	0	**4033**	**4033**	23:30	4033	0
16-May-10	**81.274**	4028	22:58:29	4	**4032**	**4032**	22:58:29	4028	4
17-May-10	**84.754**	4336	23:19:24	29	**4365**	**4370**	23:00	4332	38
18-May-10	**86.137**	4398	15:04:02	70	**4468**	**4468**	15:04:02	4398	70
19-May-10	**87.554**	4386	15:29:45	149	**4535**	**4535**	15:29:45	4386	149
20-May-10	**86.299**	4378	14:57:48	115	**4493**	**4493**	14:57:48	4378	115
21-May-10	**82.097**	4287	15:04:17	112	**4399**	**4399**	15:04:17	4287	112
22-May-10	**83.531**	4211	15:02:35	0	**4211**	**4213**	16:00	4203	10
23-May-10	**78.734**	4211	22:59:36	10	**4221**	**4221**	22:59:36	4211	10
24-May-10	**91.478**	4581	14:52:39	45	**4626**	**4626**	14:52:39	4581	45
25-May-10	**89.357**	4517	15:04:04	65	**4582**	**4582**	15:04:04	4517	65
26-May-10	**86.547**	4528	15:08:46	43	**4571**	**4571**	15:08:46	4528	43
27-May-10	**88.485**	4497	15:32:55	13	**4510**	**4510**	15:32:55	4497	13
28-May-10	**83.179**	4404	00:00:15	0	**4404**	**4404**	00:00:15	4404	0
29-May-10	**78.045**	4227	15:04:12	10	**4237**	**4237**	15:04:12	4227	10
30-May-10	**73.469**	3755	23:42:41	0	**3755**	**3755**	23:42:41	3755	0
31-May-10	**80.605**	4297	15:52:12	3	**4300**	**4300**	15:52:12	4297	3
TOTAL	**2531.932**	**4581**			**4626**	**4626**			

10 LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING MAY 2010 ON 24.05.2010 – 4581MW at 14:52:39HRS.

All figures in MW

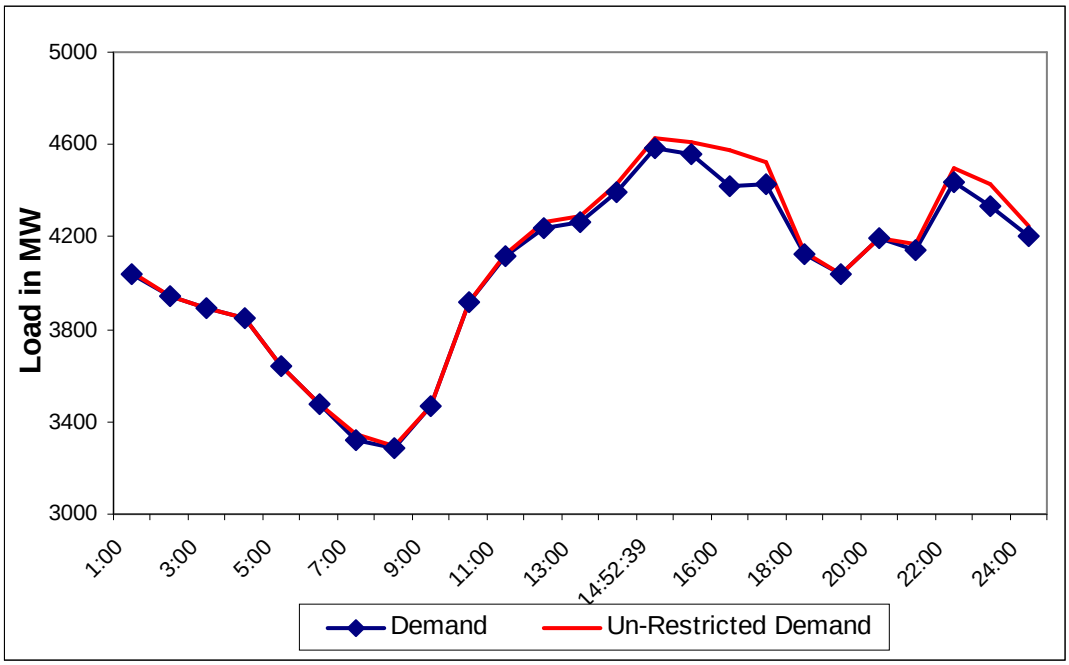
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1:00	4042	4	4046
2:00	3941	3	3944
3:00	3894	0	3894
4:00	3850	0	3850
5:00	3639	0	3639
6:00	3472	0	3472
7:00	3322	20	3342
8:00	3282	14	3296
9:00	3465	0	3465
10:00	3914	3	3917
11:00	4119	9	4128
12:00	4241	22	4263
13:00	4261	29	4290
14:00	4395	30	4425
14:52:39	**4581**	45	4626
15:00	4561	47	4608
16:00	4422	150	4572
17:00	4429	98	4527
18:00	4126	8	4134
19:00	4043	0	4043
20:00	4194	5	4199
21:00	4142	27	4169
22:00	4440	57	4497
23:00	4336	92	4428
24:00	4206	43	4249
ENERGY IN Mus	**91.478**	**0.675**	**92.153**



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING MAY 2010 – 24.05.2010 – 4626MW at 14:52:39HRS.

All figures in MW

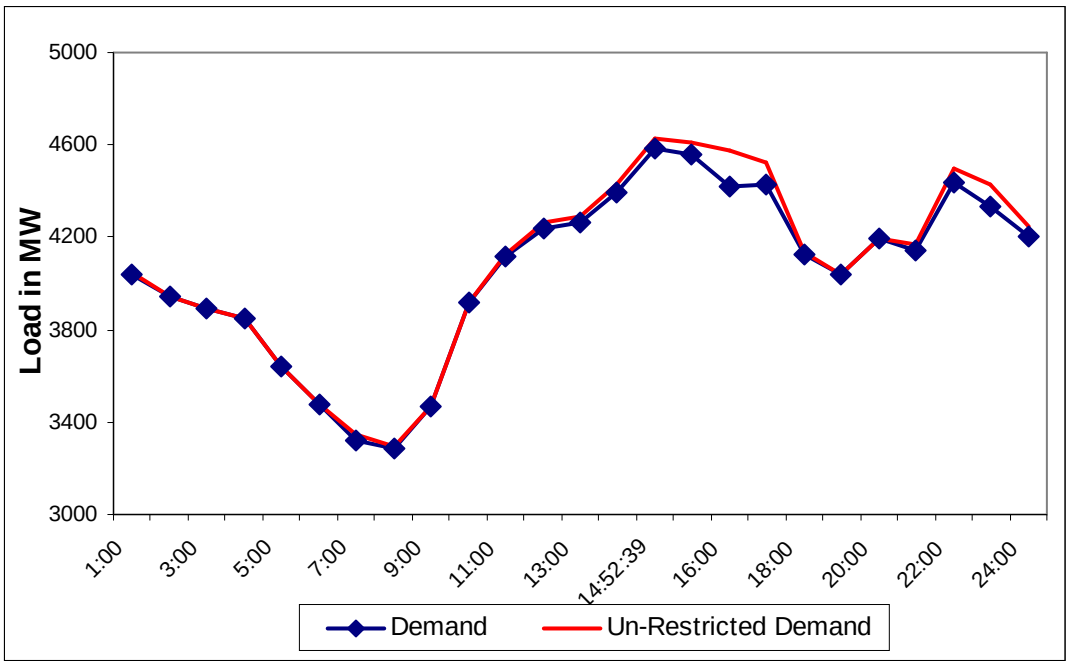
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1:00	4042	4	4046
2:00	3941	3	3944
3:00	3894	0	3894
4:00	3850	0	3850
5:00	3639	0	3639
6:00	3472	0	3472
7:00	3322	20	3342
8:00	3282	14	3296
9:00	3465	0	3465
10:00	3914	3	3917
11:00	4119	9	4128
12:00	4241	22	4263
13:00	4261	29	4290
14:00	4395	30	4425
14:52:39	4581	45	**4626**
15:00	4561	47	4608
16:00	4422	150	4572
17:00	4429	98	4527
18:00	4126	8	4134
19:00	4043	0	4043
20:00	4194	5	4199
21:00	4142	27	4169
22:00	4440	57	4497
23:00	4336	92	4428
24:00	4206	43	4249
ENERGY IN Mus	**91.478**	**0.675**	**92.153**



12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING MAY 2010 – 24.05.2010 – 91.478 Mus

All figures in MW

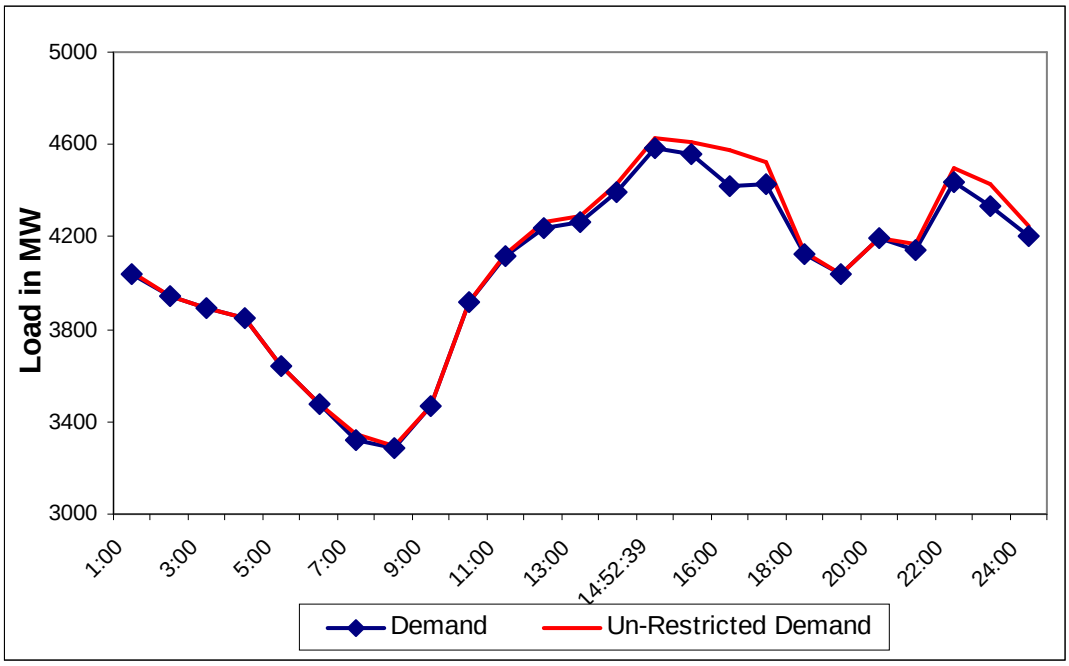
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1:00	4042	4	4046
2:00	3941	3	3944
3:00	3894	0	3894
4:00	3850	0	3850
5:00	3639	0	3639
6:00	3472	0	3472
7:00	3322	20	3342
8:00	3282	14	3296
9:00	3465	0	3465
10:00	3914	3	3917
11:00	4119	9	4128
12:00	4241	22	4263
13:00	4261	29	4290
14:00	4395	30	4425
14:52:39	4581	45	4626
15:00	4561	47	4608
16:00	4422	150	4572
17:00	4429	98	4527
18:00	4126	8	4134
19:00	4043	0	4043
20:00	4194	5	4199
21:00	4142	27	4169
22:00	4440	57	4497
23:00	4336	92	4428
24:00	4206	43	4249
ENERGY IN Mus	**91.478**	**0.675**	**92.153**



13 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING MAY 2010 – 24.05.2010 – 92.153Mus

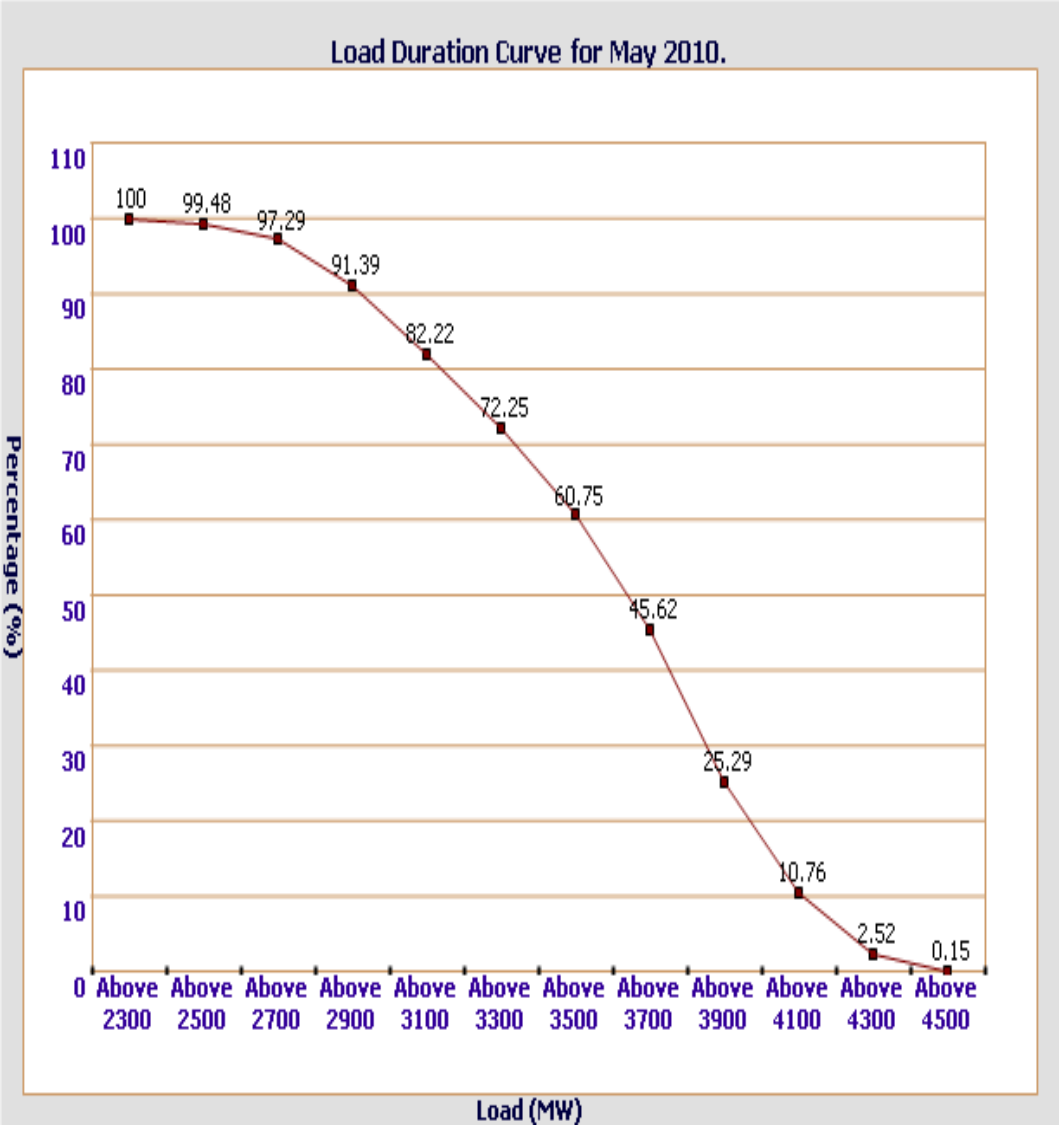
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
1:00	4042	4	4046
2:00	3941	3	3944
3:00	3894	0	3894
4:00	3850	0	3850
5:00	3639	0	3639
6:00	3472	0	3472
7:00	3322	20	3342
8:00	3282	14	3296
9:00	3465	0	3465
10:00	3914	3	3917
11:00	4119	9	4128
12:00	4241	22	4263
13:00	4261	29	4290
14:00	4395	30	4425
14:52:39	4581	45	4626
15:00	4561	47	4608
16:00	4422	150	4572
17:00	4429	98	4527
18:00	4126	8	4134
19:00	4043	0	4043
20:00	4194	5	4199
21:00	4142	27	4169
22:00	4440	57	4497
23:00	4336	92	4428
24:00	4206	43	4249
ENERGY IN Mus	**91.478**	**0.675**	**92.153**



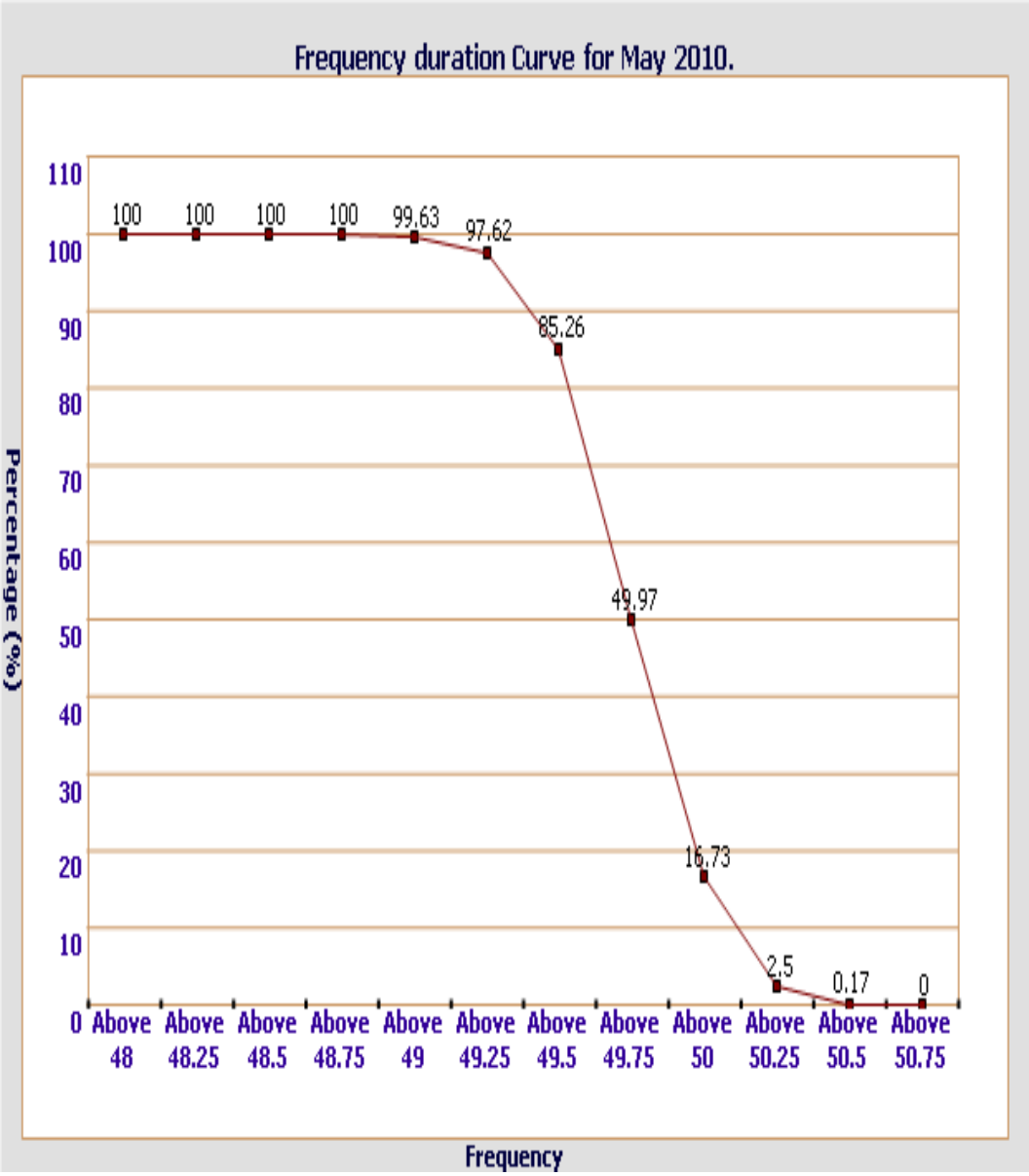
14 LOAD DURATION CURVE FOR MAY 2010

Load in MW	Percentage of Time
Above 2300	100 %
Above 2500	99.48 %
Above 2700	97.29 %
Above 2900	91.39 %
Above 3100	82.22 %
Above 3300	72.25 %
Above 3500	60.75 %
Above 3700	45.62 %
Above 3900	25.29 %
Above 4100	10.76 %
Above 4300	2.52 %
Above 4500	0.15 %



15 FREQUENCY ANALYSIS FOR THE MONTH OF MAY 2010

Frequency Range in Hz.	Percentage of time
Above 48.75	100.00 %
Above 49.00	99.63 %
Above 49.25	97.62 %
Above 49.50	85.26 %
Above 49.75	49.97 %
Above 50.00	16.73 %
Above 50.25	2.50 %
Above 50.50	0.17 %
Above 50.75	0.00 %



16 VOLTAGE PROFILE OF 220 KV SUB-STATIONS IN DELHI DURING MAY 2010

All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
1-May-10	228.61	211.38	229.95	215.77
2-May-10	228.53	--	230.88	211.38
3-May-10	230.08	--	226.08	--
4-May-10	229.95	210.87	229.18	213.83
5-May-10	227.24	206.35	229.44	212.41
6-May-10	226.73	213.96	228.15	213.96
7-May-10	227.89	217.31	229.95	215.38
8-May-10	231.24	214.48	232.53	216.93
9-May-10	232.79	215.77	233.05	217.83
10-May-10	229.31	212.03	228.92	217.31
11-May-10	229.95	214.99	233.05	218.86
12-May-10	--	--	--	--
13-May-10	226.08	203.00	230.08	213.96
14-May-10	224.41	199.64	228.28	206.09
15-May-10	223.38	202.22	225.31	207.64
16-May-10	224.66	213.44	228.53	214.48
17-May-10	224.28	209.19	225.70	209.96
18-May-10	225.05	207.90	227.50	207.90
19-May-10	224.66	212.15	226.34	211.90
20-May-10	223.63	--	225.70	209.19
21-May-10	--	--	--	--
22-May-10	229.09	207.90	228.53	209.83
23-May-10	224.79	208.03	225.31	--
24-May-10	220.92	199.77	224.92	203.38
25-May-10	221.44	202.22	225.05	206.87
26-May-10	--	--	--	--
27-May-10	--	--	--	--
28-May-10	--	--	--	--
29-May-10	--	--	--	--
30-May-10	--	--	--	--
31-May-10	230.60	216.54	229.44	214.99

17 VOLTAGE PROFILE OF 400 KV SUB-STATIONS IN DELHI DURING MAY 2010

All figures in kV

Date	400kV Bamnauli Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
1-May-10	403.09	17.4830	381.05	14.34.48	392.35
2-May-10	403.79	04.00.24	382.92	23.16.03	395.39
3-May-10	404.49	04.05.08	380.58	23.18.23	390.52
4-May-10	404.49	03.55.20	379.40	15.22.08	391.31
5-May-10	403.32	03.42.17	375.89	14.57.33	387.61
6-May-10	401.45	08.06.37	378.47	19.34.34	389.62
7-May-10	406.84	16.01.41	383.86	19.58.12	395.05
8-May-10	409.18	04.00.49	384.33	19.34.49	396.42
9-May-10	412.70	02.53.31	386.91	23.48.18	397.92
10-May-10	402.85	21.51.46	383.39	15.19.57	394.28
11-May-10	409.18	04.03.36	379.64	16.23.23	395.90
12-May-10	--	--	--	--	--
13-May-10	404.03	04.03.40	372.14	17.33.26	387.20
14-May-10	399.57	06.02.41	362.76	16.17.51	385.06
15-May-10	395.82	18.53.14	361.11	16.46.07	384.16
16-May-10	402.15	18.47.14	374.95	23.11.49	390.31
17-May-10	396.99	04.19.57	367.91	14.19.20	385.29
18-May-10	400.74	08.02.39	370.96	15.19.13	388.34
19-May-10	400.27	00.00.00	379.40	23.07.31	389.83
20-May-10	398.63	18.05.21	373.78	23.20.22	386.99
21-May-10	--	--	--	--	--
22-May-10	400.98	09.05.03	372.37	23.35.48	386.61
23-May-10	400.74	08.02.50	368.85	23.21.37	386.38
24-May-10	395.82	19.04.30	358.30	15.26.47	375.83
25-May-10	398.16	19.03.45	365.10	15.36.36	379.06
26-May-10	--	--	--	--	--
27-May-10	--	--	--	--	--
28-May-10	--	--	--	--	--
29-May-10	--	--	--	--	--
30-May-10	--	--	--	--	--
31-May-10	404.26	03.28.55	385.74	17.18.39	392.11

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
1-May-10	408.95	17.48.20	388.55	10.14.43	398.40
2-May-10	409.18	04.00.34	389.96	23.16.23	401.04
3-May-10	410.12	03.45.48	387.61	23.18.36	397.09
4-May-10	410.12	03.59.30	386.67	15.20.48	397.26
5-May-10	409.18	03.42.07	383.39	10.38.39	393.64
6-May-10	406.14	08.06.17	384.56	19.33.54	395.11
7-May-10	410.36	16.01.01	389.02	19.58.22	400.17
8-May-10	413.17	04.00.59	390.19	19.34.59	401.39
9-May-10	416.92	02.54.21	392.77	23.48.08	403.26
10-May-10	408.72	21.51.56	389.02	16.55.51	399.68
11-May-10	413.41	04.03.16	393.71	11.29.30	402.71
12-May-10	--	--	--	--	--
13-May-10	408.72	04.03.50	379.40	17.33.46	394.22
14-May-10	404.03	06.02.31	370.26	16.17.51	390.99
15-May-10	400.98	18.53.14	369.09	16.46.07	390.19
16-May-10	408.01	18.47.24	382.69	23.11.49	396.09
17-May-10	402.62	21.33.48	376.12	14.20.10	390.88
18-May-10	405.67	08.02.39	379.40	15.18.43	394.99
19-May-10	404.49	00.00.00	385.74	23.08.21	395.73
20-May-10	404.26	18.06.31	380.81	23.20.32	392.43
21-May-10	--	--	--	--	--
22-May-10	406.14	09.05.03	378.70	23.34.48	392.37
23-May-10	406.37	08.02.30	374.48	23.21.47	391.57
24-May-10	400.51	19.04.40	364.63	15.23.17	381.32
25-May-10	402.85	19.04.45	371.43	15.36.16	384.31
26-May-10	--	--	--	--	--
27-May-10	--	--	--	--	--
28-May-10	--	--	--	--	--
29-May-10	--	--	--	--	--
30-May-10	--	--	--	--	--
31-May-10	409.65	03.29.05	389.72	23.11.31	398.83

18 DETAILS OF LUMPED CAPACITORS AT NEAREST 220 KV SUBSTATION

a) Delhi Transco Limited (DTL)

Name of the Sub-stn	Voltage (KV)	Installed Capacity (MVAR)	Working Capacity (MVAR)	ReAprks
Patparganj	66	20	20	
	66	20	20	
	33	10	10	
	33	10	10	
	11	5.04	5.04	
Kashmere Gate	11	5.04	5.04	
Gazipur	66	20	20	
	66	20	20	
	11	5.04	5.04	
Okhla	66	20	20	
	66	20	20	
	66	20	20	
	33	10	10	
	11	5.04	5.04	
Lodhi Road	33	10	10	
	33	10	10	
	11	5.976	0	TEMPORARILY DISMANTLED ON 11.11.2006 FOR TAKING OUT 100MVA PR. TX.-I
Sarita Vihar	66	20	20	
	11	5.04	5.04	
Vasant Kunj	66	20	20	
	66	20	20	
	11	5.04	5.04	
Mehrauli	66	20	20	
	66	20	20	
	66	20	20	
	66	20	20	
	11	5.04	5.04	
Najafgarh	66	20	20	
	66	20	20	
	66	20	20	
	11	5.04	5.04	
Narela	66	20	20	
	66	20	20	
	11	5.04	5.04	

Name of the sub-stn	Voltage (KV)	Installed Capacity (MVAR)	Working Capacity (MVAR)	ReAprks
ShaliApr Bagh	33	10	10	
	33	10	10	
	33	10	10	
	33	10	10	
	11	6	6	
Rohini	66	20	20	
	66	20	20	
	11	6	6	
Gopalpur	33	10	10	
	33	10	10	
	33	10	10	
	11	5.04	5.04	
Subzi Mandi	11	6	6	
Kanjhawala	66	20	20	
	11	5.04	5.04	
Park Street	66	20	20	
	33	10	10	
	33	10	10	
Papankalan-I	66	20	20	
	11	5.04	5.04	
Naraina	33	10	10	
	33	10	10	
	11	5.04	5.04	
	Total Capacity	749.496	743.700	

B. IPGCL

Name of the Sub-stn	Voltage (KV)	Installed Capacity (MVAR)	Working Capacity (MVAR)	ReAprks
IP	33	10	10	
	33	10	10	
	33	10	10	
	33	10	0	OUT SINCE 08.04.2005. CELLS DAMAGED, ORDER PLACED ON BHEL
RPH	11	5.04	5.04	
	33	10	10	
	33	10	10	
	Total Capacity	65.04	55.04	

Sl. No	Name of the Grid S/Sub-Station	INSTALLED CAPACITY IN MVAR			
		66KV	33kV	11kV	**TOTAL**
1	**IP STATION**		30		**30**
1	Kamla Aprket			9.65	**9.65**
2	Minto Road			5.45	**5.45**
3	GB Pant Hosp			5.45	**5.45**
4	Delhi Gate			10.9	**10.9**
5	TilakAprg			5.04	**5.04**
6	Electric Lane			5.04	**5.04**
7	Connaught Place			10.08	**10.08**
8	Kilokri		10	10.48	**20.48**
9	NDSE			5.04	**5.04**
10	AIIMS		10	5.04	**15.04**
11	Nizamuddin			5.04	**5.04**
12	Exhibition-I		10		**10**
13	Exhibition-II				
14	Defence Colony			10.9	**10.9**
15	IG Stadium		10		**10**
16	Lajpat Nagar			5.04	**5.04**
	Total				**163.15**
2	**IP Extn.**				
1	School Lane			5.04	**5.04**
2	Scindia House			5.04	**5.04**
3	Vidyut Bhawan			15.12	**15.12**
4	Nirman Bhawan			5.04	**5.04**
5	Dalhousie Road			5.04	**5.04**
	Total				**35.28**
3	**RPH Station**		20	5.04	**25.04**
1	Lahori Gate			10.45	**10.45**
2	Jama Masjid			5.03	**5.03**
4	Kamla Aprket			5.45	**5.45**
5	Minto Road			5.45	**5.45**
6	GB Pant Hosp			5.03	**5.03**
7	IG Stadium			5.45	**5.45**
8	IP Estate			10.9	**10.9**
	Total				**72.8**

Sl. No	Name of the Grid S/Sub-Station	INSTALLED CAPACITY IN MVAR			
		66KV	33kV	11kV	TOTAL
4	**Parkstreet S/stn**	20	20		**40**
1	Shastri Park		10	5.45	**15.45**
2	Faiz Road			10.9	**10.9**
3	Motia Khan			16.3	**16.3**
4	Parshad Nagar			16.3	**16.3**
5	Anand Parbat			10.8	**10.8**
6	Shankar Road			5.04	**5.04**
7	Rama Road			14.4	**14.4**
8	Baird Road			10.08	**10.08**
9	Hanuman Road			5.04	**5.04**
10	Pusa			7.2	**7.2**
11	Ridge Valley				
12	SJ Airport			5.04	**5.04**
13	B. D. Aprg				
	Total				**156.55**
5	**Naraina S/stn**		20	5.04	**25.04**
1	DMS			10.45	**10.45**
2	Mayapuri		10	5	**15**
3	Inderpuri		10	5.04	**15.04**
4	Rewari line			7.2	**7.2**
5	Khyber Lane		10		**10**
6	Kirbi Place			5	**5**
7	Payal Cinema			14.4	**14.4**
	Total				**102.13**
6	**Mehrauli S/stn**	80		5.04	**85.04**
1	Adchini			15.12	**15.12**
2	Andheria Bagh			10.85	**10.85**
3	IIT			10.9	**10.9**
4	JNU		10	10.08	**20.08**
5	Bijwasan			10.08	**10.08**
6	DC Saket		10	4.54	**14.54**
7	Malviya Nagar	20			**20**
8	C Dot				
9	Vasant kunj B-Blk	20		10.9	**30.9**
10	Vasant kunj C-Blk	20		5.45	**25.45**
11	Palam				
12	IGNOU				
13	R. K. Puram-I			10.08	**10.08**
14	Vasant Vihar			10.08	**10.08**
15	Bhikaji Cama Place		10	10.08	**20.08**
	Total				**283.2**
7	**Vasantkunj S/stn**	40		5.04	**45.04**
2	R. K. Puram-II			3.6	**3.6**
4	Vasant kunj C-Blk			5.04	**5.04**
5	Vasant kunj D-Blk	20		10.25	**30.25**
8	Race Course			5.04	**5.04**
9	Bapu Dhaam			5.04	**5.04**
10	Nehru Park			5.04	**5.04**
12	Ridge Valley				
	Total				**99.05**

Sl. No	Name of the Grid S/Sub-Station	INSTALLED CAPACITY IN MVAR			
		66KV	33kV	11kV	**TOTAL**
8	**Okhla S/stn**	60	10	5.04	**75.04**
1	Balaji			7.2	**7.2**
2	East of Kailash			10	**10**
3	Alaknanda			10.85	**10.85**
4	Malviya Nagar		20	10.49	**30.49**
5	Masjid Moth			15.94	**15.94**
6	Nehru Place			21.35	**21.35**
7	Okhla Ph-I	20		10.9	**30.9**
8	Okhla Ph-II		20.93	10.49	**31.42**
9	Shivalik			10.9	**10.9**
10	Batra			15.8	**15.8**
11	VSNL			10.8	**10.8**
12	Siri Fort			10.49	**10.49**
13	Tuglakabad			10.8	**10.8**
	Total				**291.98**
9	**Lodhi Road S/stn**		20		**20**
1	Defence Colony				
2	Hudco			10.9	**10.9**
4	Lajpat Nagar			5.04	**5.04**
5	Nizamuddin			5.45	**5.45**
6	Vidyut Bhawan			10.08	**10.08**
7	Kidwai Nagar			5.04	**5.04**
8	Ex. Gr. II				
9	IHC				
	Total				**56.51**
10	**Sarita Vihar S/stn**	20		5.04	**25.04**
1	Sarita Vihar			10.08	**10.08**
2	MCIE			10.06	**10.06**
3	Mathura Road	20		5.04	**25.04**
4	Jamia Millia			5.4	**5.4**
5	Sarai Julena		10	10.9	**20.9**
	Total				**96.52**
11	**Wazirabad**				
1	Bhagirathi		10	10.9	**20.9**
2	Ghonda	20	20	15.94	**55.94**
3	Seelam Pur		10	21.39	**31.39**
4	Dwarkapuri			10.06	**10.06**
5	Nandnagri	20		16.35	**36.35**
6	Yamuna Vihar			10.8	**10.8**
7	East of Loni Road			10.8	**10.8**
8	Shastri Park			10.9	**10.9**
9	Karawal Nagar			5.4	**5.4**
	Total				**192.54**

Sl. No	Name of the Grid S/Sub-Station	INSTALLED CAPACITY MVAR			
		66KV	33kV	11kV	**TOTAL**
12	**Geeta Colony**				
1	Geeta Colony			10.49	**10.49**
2	Kanti Nagar			10.9	**10.9**
3	Kailash Nagar			15.48	**15.48**
4	Seelam Pur				
5	Shakar Pur				
	Total				**36.87**
13	**Gazipur S/stn**	40		5.04	**45.04**
1	Dallupura	20		10.9	**30.9**
2	Vivek Vihar			9.57	**9.57**
3	GT Road			10.85	**10.85**
4	Kondli	20		10.45	**30.45**
5	MVR-I			10.9	**10.9**
6	MVR-II	20		10.9	**30.9**
7	PPG Ind. Area			10.06	**10.06**
	Total				**178.67**
14	**Patparganj S/stn**	40	20	5.04	**65.04**
1	GH-I	20		10.45	**30.45**
2	GH-II	20		10.9	**30.9**
3	CBD		10	14.94	**24.94**
4	Guru Angad Nagar			15.49	**15.49**
5	Karkadooma		10	10.44	**20.44**
6	Preet Vihar			10.07	**10.07**
7	CBD-II			7.2	**7.2**
8	Shakarpur			5.4	**5.4**
9	Jhilmil			9	**9**
10	Dilshad Garden	20		16.35	**36.35**
11	Khichripur	20		10.49	**30.49**
12	Mother Dairy				
13	Scope Building				
14	Vivek Vihar				
	Total				**285.77**
15	**Najafgarh S/stn**	60		5.04	**65.04**
1	A4 Paschim Vihar			10.9	**10.9**
2	Nangloi	20		15.85	**35.85**
3	Nangloi W/W	20		5.45	**25.45**
4	Pankha Road			15.69	**15.69**
5	Jaffarpur			15.49	**15.49**
7	Sagarpur			15.9	**15.9**
8	Paschimpuri		10	15.53	**25.53**
9	Paschim Vihar	40		15.44	**55.44**
10	Mukherjee Park			15.49	**15.49**
11	Udyog Nagar			10.08	**10.08**
12	Choukhandi			10.08	**10.08**
	Total				**300.94**

Sl. No	Name of the Grid S/Sub-Station	INSTALLED CAPACITY			
		66KV	33kV	11kV	**TOTAL**
16	**Pappankalan-I S/stn**	20		5.04	**25.04**
1	Bindapur	20		15.9	**35.9**
2	Bodella-I	20		15.9	**35.9**
3	Bodella-II	20		14.53	**34.53**
4	DC Febakpuri			10.04	**10.04**
5	G-2 PPK (Nasirpur)			10.9	**10.9**
6	G-5 PPK (Matiala)			15.53	**15.53**
7	G-6 PPK			5.45	**5.45**
8	Harinagar	20		10.49	**30.49**
	Total				**203.78**
17	**BBMB Rohtak Road**				
1	S.B. Mill			10.08	**10.08**
1	GTK Road			12.64	**12.64**
1	Ram Pura			12.25	**12.25**
1	Rohtak Road			10.08	**10.08**
1	Vishal		10	5	**15**
1	Madipur			10.43	**10.43**
1	Sudershan Park			10.99	**10.99**
	Total				**81.47**
18	**ShaliAprbagh S/stn**		40	6	**46**
1	S.G.T. Nagar			13.15	**13.15**
2	Wazirpur-1			18.8	**18.8**
3	Wazirpur-2			14.4	**14.4**
4	ShaliAprbagh			5.44	**5.44**
5	Ashok Vihar			20.47	**20.47**
6	Rani Bagh			14.4	**14.4**
7	Haiderpur			13.15	**13.15**
8	SMB Fsc			7.2	**7.2**
	Total				**153.01**
19	**Subzimandi S/stn**			6	**6**
1	Shakti Nagar			5.04	**5.04**
2	Gulabibagh			7.32	**7.32**
3	Shahzadabagh			18.19	**18.19**
4	Tripolia			14.4	**14.4**
5	B. G. Road				
	Total				**50.95**
20	**Narela S/stn**	40		5.04	**45.04**
1	A-7 Narela			14.4	**14.4**
2	AIR Kham pur			13.15	**13.15**
3	Badli	20		5.95	**25.95**
4	DSIDC Narela-1	20		5.95	**25.95**
5	DSIDC Narela-2			14.4	**14.4**
6	Jahangirpuri				
	Total				**138.89**

Sl. No	Name of the Grid S/Sub-Station	INSTALLED CAPACITY IN MVAR			
		66KV	33kV	11kV	**TOTAL**
21	**Gopalpur S/stn**		30	5.04	**35.04**
1	Azad Pur			21.6	**21.6**
2	Hudson Lane			5.95	**5.95**
3	Wazirabad			7.2	**7.2**
4	Indra Vihar			5.95	**5.95**
5	Tri Nagar			14.4	**14.4**
6	GTK Road			12.64	**12.64**
7	Jahangirpuri	20	20	5.95	**45.95**
8	DIFR			7.2	**7.2**
8	Civil lines				
	Total				**155.93**
22	**Rohini S/stn**	40		6	**46**
1	Rohini Sec-22			14.4	**14.4**
2	Rohini Sec-23	20		5.95	**25.95**
3	Rohini Sec-24			7.2	**7.2**
4	Rohini-1			5.95	**5.95**
5	Rohini-2			13.15	**13.15**
6	Rohini-3			5.95	**5.95**
7	Rohini-4			11.9	**11.9**
8	Rohini-5			13.15	**13.15**
9	Rohini-6	20		5.95	**25.95**
10	Mangolpuri-1			20.35	**20.35**
11	Mangolpuri-2	20		6	**26**
12	Saraswati Garden			11.9	**11.9**
13	Pitam Pura-1	20		12.6	**32.6**
14	Pitam Pura-2			12.24	**12.24**
15	Pitam Pura-3			7.32	**7.32**
	Total				**280.01**
23	**Kanjhawala S/stn**	20		5.04	**25.04**
1	Bawana Clear Water			14.64	**14.64**
2	Pooth Khoord			7.2	**7.2**
	Total				**46.88**
24	**BAWANA S/stn**				
1	Bawana S/stn No. 6			14.64	**14.64**
2	Bawana S/stn No. 7			7.2	**7.2**
	Total				**21.84**
25	**Kashmeregate**			5.04	**5.04**
1	Civil lines			12	**12**
2	Town Hall			10.49	**10.49**
3	Fountain			5.45	**5.45**
	Total				**32.98**
26	**Pappankalan-II**				
1	DMRC-I				
2	DMRC-II				
	Total				**0**

20 DETAILS OF BREAK-DOWNS DURING THE MONTH OF MAY 2010

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REAPRKS
	DATE	TIME		DATE	TIME	
01	01.05.10	08.56	220KV MANDOLA – GOPALPUR CKT-II	01.05.10	09.45	CKT. TRIPPED ON DIST PROT `B' PHASE ZONE-I AT GOPALPUR.
02	01.05.10	18.08	220/66KV 100MVA PR. TR.-I T WAZIRABAD	01.05.10	18.24	TR. TRIPPED ON E/F, NON DIRECTIONAL E/F
03	01.05.10	18.08	220KV WAZIRABAD – GEETA COLONY CKT-II	02.05.10	02.00	CKT. TRIPPED ON DIST PROT ZONE-III AT WAZIRABAD.
04	01.05.10	18.08	220/33KV 100MVA PR. TR-I & II AT GEETA COLONY	01.05.10	19.25	BOTH TRS TRIPPED ON 86, 30E.
05	01.05.10	18.16	220KV GEETA COLONY – PATPARGANJ CKT-I	01.05.10	23.03	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-II AT GEETA COLONY.
06	01.05.10	18.40	33/11KV 16MVA PR. TR-II AT SUBZI MANDI	01.05.10	20.38	TR. TRIPPED ON 30ABCDEF, 86 ALONG WITH ITS 11KV I/C-II WHICH TRIPPED ON INTER TRIPPING
07	02.05.10	06.58	66/11KV 20MVA PR.TR.-III AT WAZIRABAD	02.05.10	09.00	TR. TRIPPED ON 30F, 30ABCDEF, 86
08	04.05.10	18.18	220KV SARITA VIHAR - MAHARANI BAGH CKT.	04.05.10	22.11	CKT. TRIPPED ON DIST PROT `Y&B' PHASE ZONE-I AT MAHARANI BAGH.
09	05.05.10	14.21	220KV BAMNAULI – MEHRAULI CKT-I	05.05.10	14.41	CKT. TRIPPED ON DIST PROT, `A' PHASE ZONE-II AT BAMNAULI AND ON DIST PROT `A' PHASE ZONE-I AT MEHRAULI.
10	07.05.10	14.03	220KV BTPS – MEHRAULI CKT-II	07.05.10	16.35	CKT. TRIPPED ON DIST PROT `AB' PHASE ZONE-I AT MEHRAULI.
11	07.05.10	19.58	220KV LODHI ROAD – MAHARANI BAGH CKT-I	07.05.10	20.41	CKT. TRIPPED ON DIST PROT ZONE-I AT MAHARANI BAGH.
12	08.05.10	15.20	220/33KV 100MVA PR. TR.-I AT SUBZI MANDI	08.05.10	19.35	TR. TRIPPED ON 86, 87, 64 E/F ALONG WITH ITS 33KV I/C.
13	08.05.10	15.43	220/33KV 100MVA PR. TR.-II AT SUBZI MANDI	08.05.10	15.59	TR. TRIPPED ON O/C, E/F, 86.
14	09.05.10	17.32	220KV BTPS – NOIDA – GAZIPUR CKT.	10.05.10	09.25	CKT. TRIPPED ON 86ABC, 186ABC, DIST PROT ZONE-II AT BTPS.
15	10.05.10	23.48	66/11KV 20MVA PR. TR.-II AT SARITA VIHAR	11.05.10	15.48	TR. TRIPPED ON 86, 87, 64RLV ALONG WITH ITS 11KV I/C WHICH TRIPPED ON LOCKOUT RELAY
16	11.05.10	17.58	220/66KV 160MVA PR. TR. AT PRAGATI	11.05.10	19.50	TR. TRIPPED ON 30A, 86, BUCHLOZ,
17	11.05.10	19.36	220KV BTPS – MEHRAULI CKT-II	11.05.10	19.49	CKT. TRIPPED ON DIST PROT A' PHASE ZONE-I AT MEHRAULI.
18	12.05.10	21.32	220KV GEETA COLONY – PATPARGANJ CKT-I	12.05.10	22.09	CKT. TRIPPED ON 86 AT PATPARGANJ.
19	13.05.10	03.25	66/11KV 20MVA PR. TR.-II AT NARELA	13.05.10	08.13	TR. TRIPPED ON TRIP CKT. FAULTY, SUPERVISION RELAY.
20	13.05.10	10.45	220KV BAMNAULI – NAJAFGARH CKT-I	13.05.10	10.45	CKT. TRIPPED ON 186A&B `R' PHASE AT BAMNAULI AND ON 186A&B ZONE-I AT NAJAFGARH.
21	13.05.10	12.20	220KV BTPS – MEHRAULI CKT-II	13.05.10	12.40	CKT. TRIPPED ON 186, 30A, 30G, 86X1, 86X2 AT BTPS AND ON DIST PROT `A' PHASE ZONE-I, 186 AT MEHRAULI.

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REAPRKS
	DATE	TIME		DATE	TIME	
22	13.05.10	13.17	220KV BTPS – MEHRAULI CKT-I	13.05.10	13.48	CKT. TRIPPED ON 186, 30A, 30G, 86X1, 86X2 AT BTPS. NO TRIPPING AT MEHRAULI.
23	13.05.10	13.17	220/33KV 50MVA PR. TR.-II AT OKHLA	13.05.10		CKT. TRIPPED ON 86, 87.
24	13.05.10	12.59	220KV BTPS – NOIDA – GAZIPUR CKT.	13.05.10	13.30	CKT. TRIPPED 186A, 186B, 86A AT BTPS.
25	13.05.10	12.20	220KV BAMNAULI - NAJAFGARH CKT-I	13.05.10	16.20	CKT. TRIPPED ON DIST PROT `A&B' PHASE, 86 AT BAMNAULI AND DIST PROT `A' PHASE AT NAJAFGARH.
26	13.05.10	12.50	220KV MANDOLA – GOPALPUR CKT-II	13.05.10	12.59	CKT. TRIPPED ON DIST PROT ZONE-I AT GOPALPUR AND ON DIST PROT `B' PHASE ZONE-II AT MANDOLA.
27	13.05.10	13.00	220/33KV 100MVA PR. TR.-I AT SUBZI MANDI	13.05.10	15.30	TR. TRIPPED ON 86, 64REF ALONG WITH ITS 33KV I/C WHICH TRIPPED ON 86.
28	13.05.10	13.38	220/33KV 100MVA PR. TR.-II AT SUBZI MANDI	13.05.10	14.00	TR TRIPPED ON 86, O/C, E/F ALONG WITH ITS 33KV I/C WHICH TRIPPED ON 86
29	13.05.10	14.21	220/33KV 100MVA PR. TR.-II AT SUBZI MANDI	13.05.10	15.03	TR TRIPPED ON E/F
30	13.05.10	14.21	220KV BTPS – MEHRAULI CKT-I	13.05.10	15.00	CKT. TRIPPED ON 186, 30C, 30G AT BTPS.
31	13.05.10	17.58	220KV PANIPAT – NARELA CKT-III	13.05.10	18.53	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-I AT NARELA.
32	15.05.10	12.56	220KV MANDOLA – GOPALPUR CKT-II	15.05.10	19.07	CKT. TRIPPED ON DIST PROT ZONE-I, 86RYB, 186A&B AT MANDOLA AND ON DIST PROT `B' PHASE ZONE-I AT GOPALPUR.
33	15.05.10	13.05	220KV BTPS – MEHRAULI CKT-II	15.05.10	13.25	CKT. TRIPPED ON 30A, 30G AT BTPS AND ON DIST PROT `A' PHASE ZONE-I, 86 AT MEHRAULI.
34	15.05.10	04.42	400KV BAMNAULI – BAWANA CKT-I	16.05.10		CKT. TRIPPED ON OVER VOLTAGE, 86OB, 186AB, 59B ON BOTH CB AT BAMNAULI AND ON 85LO, 85LOX, 30CH-I, 186AB ON BOTH CB AT BAWANA
35	15.05.10	08.09	220KV MANDOLA – NARELA CKT-II	15.05.10	11.29	CKT. TRIPPED WITHOUT INDICATION AT NARELA.
36	16.05.10	03.40	66/33KV 30MVA PR. TR.-II AT PARK STREET	16.05.10	19.40	TR. TRIPPED ON 87R, 87V, 64RLV, 86, 95 ALONG WITH ITS 33KV I/C-II WHICH TRIPPED ON INTER TRIPPING.
37	17.05.10	01.40	220/66KV 100MVA PR. TR.-I AT PAPPANKALAN-II	17.05.10	02.18	TR. TRIPPED ALONG WITH ITS 66KV I/C ON E/F
38	18.05.10	09.59	400KV BALLABHGARH – BAMNAULI CKT-I & II	18.05.10	11.10	THE FOLLOWING TRIPPING OCCURRED AT BAMNAULI :- 400KV BALLABHGARH – BAMNAULI CKT-I CB-152 : 186AB, AUTO RECLOSE LOCK OUT, 30C, LOSS OF SF6 BREAKER, 186A&B CB-252 : 186AB, AUTO RECLOSE LOCK OUT, 30C, LOSS OF SF6 BREAKER, 186A&B, AUX LBB, 2/50, Z-II, 130C, 130E 400KV BALLABHGARH – BAMNAULI CKT-II CB-352 & 452 : LOCK OUT, DIST PROT MAIN-II CNZ-I, III, LBB, 186A&X, AUX LBB, 50Z, 186A&B CKT-I & II CHARGED AT11.10HRS. AND 10.52HRS.

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REAPRKS
	DATE	TIME		DATE	TIME	
39	18.05.10	09.59	400KV BAMNAULI – BAWANA CKT-I & II	18.05.10	10.45	THE FOLLOWING TRIPPING OCCURRED :- AT BAMNAULI :- 400KV BAWANA CKT-I : NO TRIPPING 400KV BAWANA CKT-II : CB-1752 : TRIP ZONE LB 96B, TIMER AC FAIL, 2/80 AC, 186A&B CB-1652 : NO TRIPPING 400KV BUS BAR PROTECTION OPERATED AT BAWANA. CKT-I & II CHARGED AT 10.33HRS. AND 10.45HRS.
40	18.05.10	09.59	400/220KV 315MVA ICT-I, II, III & IV AT BAMNAULI	18.05.10	10.49	THE FOLLOWING TRIPPINGS OCCURRED :- ICT-I : 186AB, 86A-I, 86B-I, 96 ICT-II : 186A&B, TRIP GROUP-I, 86A-I, TRIP GROUP-II 86 B-I, 197 FUSE FAIL, TRIP BUS BAR PROTECTION 96, AUX FAIL, 30X, 30AH ICT-III : 186AX, 186B, 652, 86A-I, 86B-I, DIRECTIONAL / NON DIRECTIONAL O/C, 67/50 ICT-IV : 186A&B, AUTO RECLOSE, AA, TRIP RELAY GROUP-A, 86A-I, TRIP RELAY GROUP-B, 86B ICT-II, III & IV CHARGED AT 10.43HRS. AND ICT-I CHARGED AT 10.49HRS
41	20.05.10	12.48	220KV MANDOLA – NARELA CKT-II	20.05.10	12.59	CKT. TRIPPED ON 186ABC, PSV E/F AT NARELA AND ON DIST PROT `B' PHASE ZONE-II AT MANDOLA.
42	23.05.10	13.35	220KV BTPS – MEHRAULI CKT-II	23.05.10	13.50	CKT. TRIPPED ON 30A, 30G AT BTPS
43	23.05.10	23.45	66/11KV 20MA PR.TR-III AT PAPPANKALAN-II	24.05.10	00.45	TR. TRIPPED ON E/F
44	24.05.10	06.55	33/11KV 16MVA PR. TR.-II AT SUBZI MANDI	24.05.10	17.08	TR. TRIPPED ON 86, 87.
45	24.05.10	17.25	220/663KV 100MVA PR. TR.-I AT PAPPANKALAN-II	24.05.10	17.47	TR. TRIPPED ON LBB PROTECTION ALONG WITH 66KV I/C-I WHICH TRIPPED ON E/F
46	24.05.10	19.12	33/11KV 16MVA PR. TR. AT SHALIMAR BAGH	24.05.10	22.55	TR. TRIPPED ON 86, 87 ALONG WITH ITS 11KV I/C-II WHICH TRIPPED ON 86.
47	24.05.10	23.12	66/11KV 20MVA PR. TR.-III AT PAPPANKALAN-I	24.05.10	23.23	TR. TRIPPED ON O/C `Y' PHASE, 86 ALONG WITH ITS 11KV I/C WHICH TRIPPED ON INTER TRIPPING.
48	25.05.10	18.08	220/33KV 100MVA PR. TR.-II AT PARK STREET	26.05.10	12.23	TR. TRIPPED ON 87TA, 87TB, 64RIV.
49	26.05.10	14.45	220KV MANDOLA – GOPALPUR CKT-II	26.05.10	15.02	CKT. TRIPPED ON DIST PROT `B' PHASE ZONE-I AT MANDOLA AND ON DIST PROT `B' PHASE, 86 AT GOPALPUR.
50	26.05.10	21.12	220KV BAMNAULI – PAPPANKALAN-I CKT-I & II	26.05.10	22.15	BOTH CKT. TRIPPED ON 186, MASTER RELAY AT PAPPANKALAN-I.
51	26.05.10	23.12	66/11KV 20MVA PR. TR.-III AT PAPPANKALAN-I	26.05.10	23.55	TR. TRIPPED ON E/F, 86.
52	27.05.10	15.43	66/33KV 30MVA PR. TR.-I PARK STREET	27.05.10	16.17	TR. TRIPPED ON SUDDEN PRESSURE LOW, O/C, E/F, 86, 95ABC-I ALONG WITH 33KV I/C-I WHICH TRIPPED ON TRIP CKT. SUPERVISION RELAY.
53	27.05.10	18.08	220/66KV 100MVA PR. TR-I & III AT MEHRAULI	27.05.10	18.40	TR.-I TRIPPED ALONG WITH ITS 66KV I/C ON E/F. TR.-III TRIPPED ON O/C/

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REAPRKS
	DATE	TIME		DATE	TIME	
54	28.05.10	17.15	220KV BTPS – NOIDA – GAZIPUR CKT.	28.05.10	17.31	CKT. TRIPPED ON `R' PHASE E/F AT BTPS.
55	29.05.10	08.15	220KV MEHRAULI – VASANT KUNJ CKT-II	29.05.10	08.46	CKT. TRIPPED ON O/C, 67CX, 186A&B AT MEHRAULI.
56	29.05.10	16.05	220KV BAWANA – NAJAFGARH CKT-I	29.05.10	16.30	CKT. TRIPPED ON DIST PROT, AUTO RECLOSE AT BAWANA AND ON 186 AT NAJAFGARH.
57	29.05.10	16.22	220KV MANDOLA – GOPALPUR CKT-I	29.05.10	17.05	CKT. TRIPPED ON DIST PROT `R' PHASE ZONE-I AT MANDOLA AND ON DIST PROT `RYB' PHASE ZONE-I AT GOPALPUR.
58	29.05.10	16.22	220KV MANDOLA – GOPALPUR CKT-I	29.05.10	17.17	CKT. TRIPPED ON DIST PROT `B' PHASE ZONE-I AT MANDOLA AND ON DIST PROT `RYB' PHASE ZONE-I AT GOPALPUR.
59	29.05.10	16.26	400KV BAMNAULI – BAWANA CKT-I	29.05.10	17.12	CKT. TRIPPED ON CNZ-I `B' PHASE ZONE-I, 186 ON BOTH CB AT BAWANA AND ON 186 `C' PHASE ZONE-I AT BAMNAULI.
60	29.05.10	16.26	400KV MANDOLA – BAWANA CKT-II	29.05.10	16.48	CB-1752 TRIPPED ON POLE DISCREPANCY, AUTO TRIP, ANZ-I, ANZ-II, CB-1852 TRIPPED ON DIRECT TRIP AT BAWANA.
61	29.05.10	16.50	220KV MANDOLA – NARELA CKT-I &II	29.05.10	17.32	THE FOLLOWING TRIPPING OCCURRED :- AT MANDOLA NARELA CKT-I : DIST PROT ZONE-III RN NARELA CKT-II : ZONE-I, RN AT NARELA MANDOLA CKT-I : NO TRIPPING MANDOLA CKT-II: 186, E/F, ZONE-II CKT-I & II CHARGED AT 17.31HRS. AND 17.31HRS RESPECTIVELY.
62	29.05.10	17.46	220KV MANDOLA – NARELA CKT-I	29.05.10	18.17	CKT-I TRIPPED ON DIST PROT ZONE-III 'ABC' PH AT NARELA.
63	29.05.10	17.30	220KV PANIPAT – NARELA CKT-III	29.05.10	18.05	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-I, 87T AT NARELA.
64	31.05.10	16.03	220KV MEHRAULI – VASANT KUNJ CKT-I & II	31.05.10	16.20	CKT-I TRIPPED ON DIST PROT `A' PHASE, 186AB, 195CB AND CKT-II TRIPPED ON 186AB, 67CX AT MEHRAULI. NO TRIPPING AT VASANT KUNJ. CKT-I & II CHARGED AT 16.05HRS. AND 16.20HRS RESPECTIVELY.

20 DETAILS OF UNDER FREQUENCY RELAY OPERATIONS IN DELHI POWER SYSTEM

DATE	S. N.	TIME		Name of Grid	NAME OF AFFECTED FEEDERS	LOAD RELIEF IN MW
		OUT	IN			
04.05.10	1	21:14	21:20	KASHMIRI GATE	33kV FOUNTAIN CKT. -II	6
	2	21:15	21:20	ROHINI	66kV ROHINI SEC. 22 & 24 CKT., 66kV ROHINI II CKT.	51
08.05.10	1	16:52	17:00	NARAINA	33kV INDERPURI	17
13.05.10	1	23:04	24:00	NAJAFGARH	66kV G-5 PAPANKALAN CKT-I & II AND 11kV FEEDERS	135
	1	23:07	23:17	PITAMPURA-I, S.G.T.NAGAR	11kV LOAD	125
15.05.10	1	23:08	23:12	GOPALPUR	33kV GULABI BAGH CKT, 33kV TRIPOLIA CKT	32
18.05.10	1	14:40	15:01	GAZIPUR	66kV VIVEK VIHAR CKT. I & II	55
	2	15:20	15:42	GAZIPUR	66kV KONDLI CKT. I & II	43
	3	14:49	15:10	NAJAFGARH	66kV G-5 PAPANKALAN CKT-I & II AND 11kV FEEDERS	35
	4	15:25	16:00	NAJAFGARH	BODELA CKT. I & II	101
	5	15:28	16:15	AZADPUR, INDRA VIHAR, G.T.K.ROAD, HUDSON LANE	11kV LOAD	56
	6	16:20	16:30	RAMA ROAD	11kV LOAD	7
19.05.10	1	19:38	20:00	KASHMIRI GATE	33kV JAMA MASJID CKT, 33V TOWN HALL CKT.	22
	2	19:38	19:47	WAZIRABAD, WAZIRPUR-II, CIVIL LINE	11kV LOAD	27
21.05.10	1	23:10	23:29	KASHMIRI GATE	FOUNTAIN CKT. -II	6