DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

****

JULY - 2011

1 SALIENT FEATURES OF DELHI POWER SYSTEM

Sr. No.	Features	JULY 2011	JULY 2010
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	73	--
	Total	1513	1440
2	**Maximum Unrestricted Demand (MW)**	**4819**	**4733**
	Date	20.07.2011	01.07.2010
	Time	15.37.38	16.10.13
3	**Peak Demand met (MW)**	**4819**	**4720**
	Date	20.07.11	01.07.10
	Time	15.37.38	16.10.13
4	Peak Availability (MW)	4737	5136
5	Shortage (-) / Surplus (+) in MW	(-) 82	(+)416
6	Percentage Shortage (-) / Surplus (+)	(-) 1.731	8.81
7	Maximum Energy Consume in a day (Mus)	95.419	89.725
8	Energy Consumed during the month	**2748.310**	**2577.228**
9	**Load Shedding in Mus**		
A)	Due to Grid Restrictions		
i)	Under Frequency Relay Operations	0.006	0.125
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	0.060	0.182
	BRPL	0.000	0.041
	BYPL	0.000	0.013
	NDMC	0.000	0.000
	MES	0.000	0.000
iv)	Due to transmission Constraints in Central Sector	0.000	0.000
	Total due to Grid Restriction	**0.000**	**0.361**
B)	Due to Constraints in System in Mus		
	DTL	0.637	4.780
	NDPL	0.398	0.779
	BRPL	0.687	2.133
	BYPL	0.328	1.016
	NDMC	0.027	0.000
	MES	0.000	0.000
	Other Agencies	0.101	0.206
	Total	**2.178**	**8.914**
11	**Grand Total in Mus**	**2.244**	**9.275**

2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING JULY 2011

A) For the month of July 2011

All Figures in MUs

S. No	Stations	Gross Generation	Aux. Consumption	Net Generation	Availability (%)	Backing Down
1.	**RPH**	24.629	3.944	20.685	22.68	--
2.	**GT**	101.398	4.087	97.311	73.56	47.025
3.	**PPCL**	220.098	5.732	214.366	93.28	10.975
4.	**BTPS**	403.830	32.669	371.161	89.71	70.0925
5.	**Rithala**	29.626	0.467	29.159	--	--
	TOTAL	**779.581**	**46.899**	**732.682**		

B) For the Year 2011-12 (Upto July 2011)

Power Station	Effective Capacity (MW)	Net Generation in MUs For July 2011	Availability (%) For July 2011	PLF (%) For July 2011	Cumulative Generation in MUs upto July 2011 for the year 2011-12	Cumulative Availability in % upto July 2011 for the year 2011-12	Cumulative PLF in % upto July 2011 for the year 2011-12
RPH	135	20.685	22.68	22.68	254.145	72.59	72.59
GT	270	97.311	73.56	49.43	405.453	73.89	52.38
PPCL	330	214.366	93.28	88.68	758.942	79.33	87.09
BTPS	705	371.161	89.71	74.94	1533.997	94.14	89.71
Rithala	**73**	29.159	--	--	103.34	--	--
TOTAL	**1513**	**732.682**			**3055.877**		

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	11.05.11	20.11	11.05.11	21.28	Flash in yard
		21.05.11	01.53	21.05.11	05.25	Tripped alongwith tripping of associated transmission lines
		22.05.11	23.00	23.05.11	01.55	Boiler flame failure
		31.05.11	12.35	02.06.11	03.03	Condenser tube leakage
		10.06.11	05.40	10.06.11	12.32	UAT abnormality
		10.06.11	12.45	10.06.11	13.00	UAT abnormality
		03.07.11	11.40	06.07.11	17.19	Due to fire in 220/33kV 100MVA Pr. Tr.
		10.07.11	21.30	28.07.11	10.08	Tripped alongwith tripping of associated transmission lines
		30.07.11	14.50	31.07.11	24.00	Moisture in IBT -2
2	67.5	03.04.11	23.45	04.04.11	01.40	Turbine shaft vibration high
		28.04.11	06.38	28.04.11	15.27	To attend hot spot on 33kV Breaker
		21.05.11	01.53	21.05.11	07.32	Tripped alongwith tripping of associated transmission lines
		22.05.11	21.14	22.05.11	22.00	FD fan tripping
		26.05.11	12.10	26.05.11	13.00	Low boiler drum level
		31.05.11	23.15	01.06.11	08.12	Condenser tube leakage
		02.06.11	11.07	04.06.11	11.14	Boiler tube leakage
		04.06.11	16.50	04.06.11	17.50	Tripped on jerk
		04.06.11	18.18	04.06.11	20.12	Feed pump problem
		03.07.11	11.40	06.07.11	10.37	Due to fire in 220/33kV 100MVA Pr. Tr.
		10.07.11	13.53	27.07.11	05.10	Due to IBT-I, protection relay operated
		27.07.11	11.38	27.07.11	21.04	Due to tripping of bay no. 17
		30.07.11	14.50	31.07.11	03.45	Moisture in IBT -2

(B) Gas Turbine

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	30	01.04.11	00.00	11.04.11	20.25	Machine stopped as generation available in open cycle mode
		12.04.11	00.02	12.04.11	18.25	
		16.04.11	17.17	17.04.11	10.15	
		17.04.11	17.02	22.04.11	11.10	Machine stopped due to low demand
		30.04.11	12.20	05.05.11	00.45	Machine stopped as generation available in open cycle mode
		15.05.11	06.15	16.05.11	23.50	
		17.05.11	08.37	17.05.11	17.29	Machine stopped as generation available on spot RLNG
		21.05.11	12.13	21.05.11	16.36	Stopped due to low demand and high frequency.
		02.06.11	09.32	03.06.11	10.25	
		08.06.11	20.35	09.06.11	00.34	Electrical trouble
		17.06.11	01.02	18.06.11	01.22	Machine stopped as generation available in open cycle mode
		19.06.11	07.04	21.06.11	03.05	
		26.06.11	12.20	27.06.11	11.26	Stopped due to low demand and high frequency.
		30.06.11	11.50	02.07.11	20.29	
		08.07.11	23.05	10.07.11	16.42	

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	30	01.04.11	00.00	11.04.11	21.37	Machine stopped as generation is available in open cycle mode.
		12.04.11	00.02	12.04.11	20.27	
		12.04.11	21.00	21.04.11	12.48	
		24.04.11	23.35	25.04.11	05.20	Machine tripped on high vibration
		30.04.11	18.15	05.05.11	19.45	Due to swapping of gas to PPCL.
		13.05.11	16.02	13.05.11	18.10	High exhaust temp spread.
		15.05.11	06.18	15.05.11	21.35	Stopped due to low demand and high frequency.
		21.05.11	12.13	21.05.11	12.55	
		15.06.11	07.35	15.06.11	08.25	Loss of flame
		15.06.11	17.40	15.06.11	18.40	Loss of flame
		15.06.11	22.10	16.06.11	03.22	Loss of flame
		18.06.11	02.02	20.06.11	17.35	Machine stopped as generation available in open cycle mode
		02.07.11	21.12	03.07.11	16.10	
		08.07.11	23.02	10.07.11	19.27	
3	30	11.04.11	11.25	11.04.11	20.41	Due to failure of Auxiliary supply.
		12.04.11	00.02	12.04.11	18.35	Machine stopped as generation available on open cycle mode
		12.04.11	21.10	13.04.11	09.40	
		16.04.11	03.50	17.04.11	21.27	
		19.04.11	00.02	19.04.11	05.52	Due to low demand and high frequency.
		20.04.11	00.02	20.04.11	05.52	
		28.04.11	02.05	28.04.11	13.55	Due to swapping of gas to PPCL.
		04.05.11	01.32	04.05.11	11.50	Machine stopped as generation available on spot RLNG
		08.05.11	03.16	08.05.11	22.44	Stopped due to low demand and high frequency.
		09.05.11	21.45	10.05.11	15.37	
		10.05.11	15.37	10.05.11	20.15	Electrical trouble
		10.05.11	20.15	11.05.11	16.20	Machine stopped as generation available on spot RLNG
		12.05.11	00.05	12.05.11	10.11	
		17.05.11	18.15	17.05.11	23.59	
		18.05.11	00.00	27.07.11	00.00	Start command executed but smoke observed from the Diesel Engine
		27.07.11	00.00	27.07.11	12.25	Machine stopped as generation available on spot RLNG
		27.07.11	19.02	28.07.11	15.00	
		28.07.11	21.35	29.07.11	12.00	
		29.07.11	16.40	30.07.11	01.37	
		30.07.11	02.10	30.07.11	13.02	Machine started for making the drum per 10Kg/cm sq. for passivation of boiler #3
		30.07.11	14.10	30.07.11	23.32	Machine stopped as generation available on spot RLNG
		30.07.11	23.58	31.07.11	23.59	
4	30	11.04.11	11.25	11.04.11	20.00	Due to failure of Auxiliary supply.
		12.04.11	19.45	12.04.11	20.35	Machine came on FSNL
		13.04.11	09.14	14.04.11	00.45	Machine stopped as generation available on open cycle mode
		16.04.11	10.05	17.04.11	12.50	Stopped due to low demand and high frequency.
		21.05.11	04.00	23.05.11	10.37	
		23.05.11	14.25	26.05.11	14.42	Machine stopped as generation available on spot RLNG
		26.05.11	18.24	30.05.11	16.05	
		02.06.11	09.35	03.06.11	10.50	Stopped due to low demand and high frequency.
		03.06.11	11.15	06.06.11	10.40	
		22.06.11	18.02	23.06.11	02.57	Machine stopped as generation available in open cycle mode
		16.07.11	14.20	31.07.11	23.59	Machine stopped as generation available on spot RLNG

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
5	30	11.04.11	11.25	11.04.11	12.55	Due to failure of Auxiliary supply.
		11.04.11	14.25	11.04.11	14.55	Due to failure of Auxiliary supply.
		12.04.11	17.42	16.04.11	17.15	Machine stopped as generation available on open cycle mode
		17.04.11	14.32	18.04.11	20.17	Due to low demand and high frequency.
		21.04.11	22.45	30.04.11	17.24	
		03.05.11	04.01	03.05.11	14.40	Machine stopped as generation available on spot RLNG
		04.05.11	01.35	04.05.11	12.40	
		05.05.11	11.05	05.05.11	11.50	
		05.06.11	19.16	05.07.11	19.25	
		07.05.11	21.35	08.05.11	21.45	
		13.05.11	01.05	13.05.11	05.50	Machine stopped as generation available in open cycle mode
		13.05.11	18.30	15.05.11	18.28	Machine stopped as generation available on spot RLNG
		20.05.11	01.17	20.05.11	13.35	
		21.05.11	10.55	23.05.11	19.15	Due to low demand and high freq.
		31.05.11	00.05	31.05.11	16.13	Machine stopped as generation available in open cycle mode
		31.05.11	23.02	03.06.11	10.15	
		05.06.11	08.04	05.06.11	12.28	Machine tripped on high exhaust temperature trip
		07.06.11	14.58	07.06.11	16.28	
		14.06.11	03.46	15.06.11	19.45	Machine stopped as generation available in open cycle mode
		15.06.11	22.03	16.06.11	01.14	
		16.06.11	05.17	16.06.11	11.44	Machine tripped on high vibration
		16.06.11	20.02	16.06.11	22.50	Electrical trouble
		16.06.11	23.50	17.06.11	00.15	machine came on FSNL while changing the faulty u/v relay
		26.06.11	09.02	03.07.11	16.18	Due to low demand and high freq.
		07.07.11	14.55	16.07.11	13.15	Machine stopped as generation available on spot RLNG
6	30	11.04.11	11.25	11.04.11	13.20	Due to failure of Auxiliary supply.
		11.04.11	14.25	11.04.11	20.55	Due to failure of Auxiliary supply.
		12.04.11	00.02	12.04.11	17.40	Machine stopped as generation available on open cycle mode
		12.04.11	18.37	16.04.11	12.20	Due to low demand and high frequency
		17.04.11	21.56	18.04.11	19.55	
		19.04.11	00.02	19.04.11	05.55	
		20.04.11	00.02	20.04.11	05.42	
		22.04.11	12.18	24.04.11	11.45	Machine stopped as generation available on Spot RLNG
		24.04.11	16.10	26.04.11	21.20	Due to low demand and high frequency
		27.04.11	00.05	30.04.11	12.12	
		07.05.11	03.40	07.05.11	11.02	
		08.05.11	22.02	09.05.11	21.25	Machine stopped as generation available on spot RLNG
		12.05.11	10.51	12.05.11	15.18	
		13.05.11	00.05	13.05.11	18.33	
		21.05.11	18.30	23.05.11	10.55	Stopped due to low demand and high frequency.
		26.06.11	09.02	04.07.11	11.00	
		04.07.11	15.15	05.07.11	11.00	Machine stopped as generation available on spot RLNG
		15.07.11	23.05	20.07.11	12.50	Due to low demand and high frequency
		23.07.11	02.17	23.07.11	03.27	Machine tripped on loss of flame
		24.07.11	04.15	25.07.11	09.17	Due to low demand and high frequency

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG 1	**30**	01.04.11	00.00	16.04.11	00.40	To attend miscellaneous problems
		16.04.11	11.10	17.04.11	14.27	Machine stopped attend leakage.
		17.04.11	17.02	21.04.11	20.58	Machine stopped due to low demand
		23.04.11	06.32	23.04.11	11.10	Problem in 24 Volt DC supply.
		30.04.11	00.52	30.04.11	02.56	Machine stopped due to low demand Machine tripped and following relay operated
		30.04.11	18.15	05.05.11	05.05	
		05.05.11	23.35	06.05.11	02.28	
		07.05.11	01.45	07.05.11	03.40	
		10.05.11	13.50	10.05.11	17.40	Low vacuum
		15.05.11	06.20	15.05.11	22.54	To attend various leakages
		21.05.11	09.50	21.05.11	14.05	Tripped on Ch-I &II
		21.05.11	16.22	21.05.11	17.35	Machine tripped on low vacuum.
		30.05.11	09.20	30.05.11	11.05	Machine tripped on low vacuum.
		07.06.11	02.43	07.06.11	05.20	Tripped on Ch-I &II
		19.06.11	07.04	21.06.11	02.10	To attend various leakages
		21.06.11	15.58	21.06.11	16.59	To attend various leakages
		08.07.11	23.05	10.07.11	19.34	Due to low demand and high frequency
		26.07.11	13.50	26.07.11	15.01	Machine tripped on flase alarm of Shaft Vibratrion V. high and Housing vibration v.high
		26.07.11	15.20	26.07.11	16.46	Machine tripped on flase alarm of Shaft Vibratrion V. high and Housing vibration v.high
		29.07.11	15.55	29.07.11	17.31	Machine tripped mannualy as the vaccum dropped upto -0.40 kg/cm2 due to tripping of BFP-1A as another BFP-1B was under preventive maintenance
		29.07.11	17.42	29.07.11	18.11	Machine tripped on hot well level high
STG2	**30**	11.04.11	10.40	17.04.11	16.20	Low vacuum
		21.05.11	04.00	23.05.11	11.00	Machine stopped due to low demand
		23.05.11	11.00	25.05.11	12.59	Machine tripped on Rotor earth fault
		24.05.11	13.00	26.05.11	18.20	Machine stopped as generation available on spot RLNG
		26.05.11	18.24	30.05.11	20.25	
		02.06.11	09.36	06.06.11	10.40	Machine stopped due to low demand
		19.06.11	15.05	19.06.11	20.00	Low vacuum
		22.06.11	18.02	23.06.11	04.25	To attend various leakages
		28.06.11	16.03	28.06.11	17.53	Tripped on Ch-I &II
		16.07.11	14.20	31.07.11	23.59	Machine stopped as generation available on spot RLNG
STG3	**30**	11.04.11	11.25	17.04.11	16.28	Due to failure of Auxiliary supply.
		17.04.11	20.05	18.04.11	21.55	Machine stopped due to low demand
		22.04.11	12.17	30.04.11	16.16	Machine available on spot R-LNG
		01.05.11	14.52	01.05.11	15.40	Steam Turbine Speed very high.
		07.05.11	03.40	07.05.11	13.58	Machine stopped due to low demand
		12.05.11	09.16	13.05.11	20.35	Main steam temperature low
		21.05.11	18.30	23.05.11	13.55	Machine stopped due to low demand
		05.06.11	10.15	05.06.11	11.15	Low vacuum
		06.06.11	09.05	06.06.11	11.25	Turbine shaft vibration high
		13.06.11	13.10	13.06.11	14.34	Machine tripped on CH-I& II.
		26.06.11	09.02	03.07.11	22.18	Machine stopped due to low demand
		20.07.11	13.50	20.07.11	14.20	Machine tripped on Both the boiler trip alarm. No alarm appeared in the Turbine interlock page.
		20.07.11	14.36	20.07.11	15.20	Machine tripped on Both the boiler trip alarm. No alarm appeared in the Turbine interlock page.

		28.07.11	07.04	28.07.11	07.43	Machine tripped due to tripping of HRSGs. HRSG tripped on low drum level as BFP-3A tripped due to malfunctioning of temperature of NDE of motor.

(C) PRAGATI STATION

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	**104**	01.04.11	23.28	03.04.11	11.37	Stopped for maintenance work
		03.04.11	20.03	04.04.11	19.09	Rotor earth fault
		04.04.11	14.45	06.04.11	13.35	Unit stopped due to low demand and high frequency
		06.04.11	21.45	08.04.11	08.01	Stopped for maintenance work
		08.04.11	18.45	08.04.11	24.00	Internal fault
		09.04.11	00.00	10.04.11	15.52	Unit stopped due to low demand and high frequency
		25.04.11	17.58	25.04.11	23.08	Tripped alongwtih trippings of associated transmission lines.
		21.05.11	01.30	21.05.11	02.56	Grid disturbance
		21.05.11	22.10	23.05.11	08.45	Generation backing down due to low demand and high frequency
		05.06.11	11.02	05.06.11	17.43	Shutdown for attending hot spot and general maintenance
		28.07.11	21.18	29.07.11	22.59	Leakage of air compressor
2	104	03.04.11	13.50	03.04.11	20.28	Stopped for maintenance work
		06.04.11	13.50	06.04.11	21.35	Stopped for maintenance work
		08.04.11	08.22	08.04.11	19.20	Stopped for maintenance work
		10.04.11	21.27	11.04.11	12.11	Internal fault
		30.04.11	00.52	30.04.11	01.10	Tripped alongwtih trippings of associated transmission lines.
		05.05.11	10.51	07.05.11	05.26	Internal problem
		14.05.11	07.21	14.05.11	19.13	Internal check
		05.06.11	05.00	05.06.11	10.43	Shutdown for attending hot spot and general maintenance
		10.06.11	05.54	11.06.11	15.44	Generation backing down due to low demand and high frequency
		26.06.11	11.38	27.06.11	10.29	
		27.06.11	10.29	27.06.11	10.55	Lube oil system fault
STG	**122**	12.04.11	09.00	12.04.11	18.59	High furnace temperature
		25.04.11	17.57	25.04.11	18.56	Tripped alongwtih trippings of associated transmission lines.
		21.05.11	01.32	21.05.11	02.53	
		05.06.11	09.50	05.06.11	13.38	Shutdown for attending hot spot and general maintenance
		07.06.11	00.47	13.06.2011	10.19	Internal fault

(D) BADARPUR THERMAL POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	95	10.06.11	11.04	13.06.11	21.58	Generation backing down due to low demand and high frequency
		26.06.11	09.43	27.06.11	13.07	
		27.06.11	17.26	27.06.11	17.51	Furnaces pressure high
		08.07.11	20.25	12.07.11	15.53	Generation backing down due to low demand and high frequency
		15.07.11	18.11	15.07.11	18.47	Furnance vaccum
2	95	03.04.11	00.50	20.04.11	21.35	Shut-down for over-hauling
		21.05.11	23.13	23.05.11	20.52	Generation backing down due to low demand and high frequency
		27.06.11	16.41	02.07.11	17.42	
		11.07.11	14.54	11.07.11	16.37	False relay tripping
3	95	17.04.11	17.01	17.04.11	18.58	Tripped along with tripping of associated transmission lines
		30.04.11	18.32	30.04.11	19.32	Due to tripping of generator transformer
		30.04.11	21.52	02.05.11	05.42	Electrical fault
		26.05.11	17.13	30.05.11	10.24	Generation backing down due to low demand and high frequency
		02.06.11	19.41	06.06.11	11.43	
		07.07.11	01.47	26.07.11	15.35	Turbine blade failure
4	210	17.04.11	17.01	17.04.10	20.26	Tripped along with tripping of associated transmission lines
		04.05.11	07.41	08.05.11	11.18	Control system failure
		24.06.11	13.07	24.06.11	16.16	Excitation system failure
5	210	17.06.11	17.47	21.06.11	10.10	Generation backing down due to low demand and high frequency
		21.06.11	11.41	21.06.11	13.04	Furnaces vacuum high
		22.06.11	01.09	22.06.11	04.55	Furnaces vacuum high
		22.06.11	05.07	22.06.11	08.15	Unit auxiliary transformer problem
		12.07.11	13.59	13.07.11	08.05	Hot spot on generation bus

4 ALLOCATION OF POWER TO DELHI

A) Allocation of power to Delhi from Unallocated quota of Central Sector Generating Stations to Delhi w.e.f. 22.05.2011

Time block 00.00hrs. to 12.00hrs. & 23.00hrs. 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-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	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	**8782**	**1152**	**2174**	**1902**	**0**	**0**	**1902**
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
Sewa HEP	120	18	16	15	0	0	15
Dhauli Ganga HEP	280	42	37	35	0	0	35
Dulhasti HEP	390	58	50	48	0	0	48
TOTAL	**3074**	**172**	**351**	**333**	**0**	**0**	**333**
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	**15676**	**1766**	**2873**	**2537**	**0**	**0**	**2537**
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**
Joint Venture							
Jhajjar TPS	500	38	231	201	0	0	201
Grand Total	**22386**	**1957**	**3393**	**2980**	**0**	**0**	**2980**

B) Allocation of power to Delhi from Unallocated quota of Central Sector Generating Stations to Delhi w.e.f. 22.05.2011

Time block 12.00hrs. to 23.00hrs. @ 16% 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-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	39	34	165
Rihand	1000	150	100	87	20	17	104
Rihand Stage -II	1000	150	126	109	20	17	127
ANTA GPS	419	63	44	41	8	8	49
Auriya GPS	663.36	99	72	67	9	9	76
Dadri GPS	829.78	129	91	85	8	7	92
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	147	735	639	19	17	655
Unchahaar-I TPS	420	20	24	21	3	2	23
Unchahaar-II TPS	420	63	47	41	8	7	48
Unchahaar-III TPS	210	31	29	25	4	4	29
TOTAL	**8782**	**1152**	**2174**	**1902**	**138**	**122**	**2023**
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	7	7	45
URI HEP	480	0	53	50	0	0	50
Sewa HEP	120	18	16	15	2	2	17
Dhauli Ganga HEP	280	42	37	35	6	5	40
Koteshwar HEP	100	0	10	9	1	1	11
Dulhasti HEP	390	58	50	48	8	7	55
TOTAL	**3174**	**172**	**361**	**343**	**24**	**23**	**365**
NPC							
Narora APS	440	64	47	41	8	7	48
RAPP(B)	440	66	0	0	0	0	0
RAPP (C)	440	64	56	49	14	12	61
TOTAL	**1320**	**194**	**103**	**89**	**23**	**20**	**109**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	20	19	142
THDC							
Tehri Hydro	1000	99	103	89	13	12	102
Total	**15776**	**1766**	**2882**	**2547**	**217**	**195**	**2741**
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**
Joint Venture							
Jhajjar TPS	500	38	231	201	5	4	205
Grand Total	**22486**	**1957**	**3403**	**2989**	**222**	**199**	**3188**

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. 01.04.2011.

(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	3687	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

6 POWER AVAILABILITY-DEMAND POSITION AT THE TIME OF PEAK DEMAND MET DURING JULY 2011

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	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	15:22:45	116	72	270	477	50	985	3492	3651	159	4477	0	4477
2	22:58:35	116	71	294	600	52	1133	3088	3337	249	4221	3	4224
3	23:14:47	0	145	297	522	50	1014	3205	3124	-81	4219	0	4219
4	15:14:50	0	163	283	546	32	1024	3647	3514	-133	4671	3	4674
5	23:00	0	145	297	588	46	1076	3471	3691	220	4547	4	4551
6	15:31:57	62	142	292	583	19	1098	3443	3953	510	4541	4	4545
7	15:35:42	101	139	289	488	39	1056	3651	3784	133	4707	0	4707
8	00:00:18	94	148	301	494	0	1037	3221	3447	226	4258	0	4258
9	12:23:45	94	72	292	345	30	833	3110	2813	-297	3943	5	3948
10	22:51:13	0	153	301	430	52	936	3021	3186	165	3957	0	3957
11	15:43:47	0	141	289	359	36	825	3604	3747	143	4429	0	4429
12	15:36:49	0	146	287	251	34	718	3817	3769	-48	4535	0	4535
13	15:24:33	0	143	287	489	28	947	3817	3714	-103	4764	8	4772
14	14:45:11	0	149	296	489	35	969	3719	3744	25	4688	4	4692
15	15:43:16	0	149	296	431	44	920	3356	3901	545	4276	0	4276
16	22:51:13	0	153	301	466	39	959	3125	3108	-17	4084	0	4084
17	23:14:56	0	115	275	456	45	891	3100	3078	-22	3991	0	3991
18	22:48:00	0	111	297	436	47	891	3371	3672	301	4262	0	4262
19	22:26:21	0	109	294	479	48	930	3652	3661	9	4582	0	4582
20	15:37:38	0	138	289	520	24	971	3848	3766	-82	4819	0	4819
21	15:36:25	0	146	291	433	46	916	3800	3887	87	4716	0	4716
22	15:42:50	0	147	290	442	35	914	3739	3769	30	4653	25	4678
23	00:00:05	0	146	290	442	35	913	3522	3596	74	4435	6	4441
24	22:44:38	0	114	299	500	39	952	3209	3713	504	4161	0	4161
25	22:27:50	0	150	297	507	34	988	3391	3342	-49	4379	0	4379
26	22:55:40	0	145	298	591	20	1054	3385	3478	93	4439	0	4439
27	14:44:40	0	158	297	573	20	1048	3159	3740	581	4207	7	4214
28	15:48:46	101	154	292	572	52	1171	3312	3540	228	4483	8	4491
29	16:24:34	103	127	141	583	23	977	3455	3766	311	4432	1	4433
30	16:47:55	0	142	288	486	39	955	3497	3738	241	4452	6	4458
31	22:52:25	0	145	292	583	34	1054	3546	3938	392	4600	28	4628

7 POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF MAXIMUM UNRESTRICTED DEMAND DURING JULY 2011

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	15:22:45	116	72	270	477	50	985	3492	3651	159	4477	0	4477
2	22:58:35	116	71	294	600	52	1133	3088	3337	249	4221	3	4224
3	23:14:47	0	145	297	522	50	1014	3205	3124	-81	4219	0	4219
4	15:14:50	0	163	283	546	32	1024	3647	3514	-133	4671	3	4674
5	23:00	0	145	297	588	46	1076	3471	3691	220	4547	4	4551
6	15:31:57	62	142	292	583	19	1098	3443	3953	510	4541	4	4545
7	15:35:42	101	139	289	488	39	1056	3651	3784	133	4707	0	4707
8	00:00:18	94	148	301	494	0	1037	3221	3447	226	4258	0	4258
9	12:23:45	94	72	292	345	30	833	3110	2813	-297	3943	5	3948
10	22:51:13	0	153	301	430	52	936	3021	3186	165	3957	0	3957
11	15:43:47	0	141	289	359	36	825	3604	3747	143	4429	0	4429
12	15:36:49	0	146	287	251	34	718	3817	3769	-48	4535	0	4535
13	15:24:33	0	143	287	489	28	947	3817	3714	-103	4764	8	4772
14	14:45:11	0	149	296	489	35	969	3719	3744	25	4688	4	4692
15	15:43:16	0	149	296	431	44	920	3356	3901	545	4276	0	4276
16	22:51:13	0	153	301	466	39	959	3125	3108	-17	4084	0	4084
17	23:14:56	0	115	275	456	45	891	3100	3078	-22	3991	0	3991
18	22:48:00	0	111	297	436	47	891	3371	3672	301	4262	0	4262
19	22:26:21	0	109	294	479	48	930	3652	3661	9	4582	0	4582
20	15:37:38	0	138	289	520	24	971	3848	3766	-82	4819	0	4819
21	15:36:25	0	146	291	433	46	916	3800	3887	87	4716	0	4716
22	15:42:50	0	147	290	442	35	914	3739	3769	30	4653	25	4678
23	00:00:05	0	146	290	442	35	913	3522	3596	74	4435	6	4441
24	22:44:38	0	114	299	500	39	952	3209	3713	504	4161	0	4161
25	22:27:50	0	150	297	507	34	988	3391	3342	-49	4379	0	4379
26	22:55:40	0	145	298	591	20	1054	3385	3478	93	4439	0	4439
27	14:44:40	0	158	297	573	20	1048	3159	3740	581	4207	7	4214
28	15:48:46	101	154	292	572	52	1171	3312	3540	228	4483	8	4491
29	16:24:34	103	127	141	583	23	977	3455	3766	311	4432	1	4433
30	16:47:55	0	142	288	486	39	955	3497	3738	241	4452	6	4458
31	22:52:25	0	145	292	583	34	1054	3546	3938	392	4600	28	4628

8 SOURCEWISE SCHEDULED DRAWL FROM NORTHERN GRID AS WELL AS AVAILABILITY WITHIN DELHI FOR JULY 2011

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

A (i) RPH	24.629
JHAJJAR SHARE	0.000
NET RPH	24.629
(ii) GT+STG	101.398
(iii) PRAGATI	220..098
(iv) RITHALA	29.626
TOTAL	375.751
B) AVAILABILITY FROM BTPS	369.892
C) AUXILIARY CONSUMPTION OF GENERATING STNs. EXCLUDING BTPS	14.230
D) NET GENERATION AVAILABLE WITHIN DELHI(A+B-C)	**731.413**

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	8.403	8.187	8.403	8.187
SALAL	51.977	50.641	51.977	50.641
TANKAPUR	8.246	8.034	8.246	8.034
CHAMERA	31.353	30.547	31.353	30.547
CHAMERA -II	31.568	30.756	31.568	30.756
DHAULIGANGA	28.136	27.412	28.136	27.412
SEWA -2	4.455	4.341	4.455	4.341
URI	32.439	31.603	32.439	31.603
KOTESHWAR	1.086	1.057	1.086	1.057
ANTA (GAS)	25.388	24.735	20.069	19.554
ANTA (RLNG)	7.475	7.284	0.391	0.382
ANTA (LIQUID)	0.099	0.096	0.000	0.000
DADRI (GAS)	37.732	36.763	31.790	30.974
DADRI (RLNG)	11.841	11.536	0.703	0.685
DADRI (LIQUID)	0.252	0.245	0.001	0.001
AURAIYA (GAS)	36.033	35.106	29.749	28.984
AURAIYA (RLNG)	13.451	13.108	0.381	0.371
AURAIYA (LIQUID)	0.239	0.233	0.000	0.000
SINGRAULI	107.965	105.191	105.715	102.999
RIHAND -I	76.659	74.688	75.070	73.140
RIHAND -II	93.267	90.870	91.338	88.992
UNCHAHAR-I	16.865	16.432	15.272	14.880
UNCHAHAR-II	35.181	34.276	32.226	31.398
UNCHAHAR-III	21.451	20.900	19.546	19.044
DADRI (TH)	530.658	517.016	437.260	426.023
DADRI (TH) STAGE-II	504.381	491.424	456.773	445.045
NAPP	15.904	15.495	15.904	15.495
RAPP 'B'	0.000	0.000	0.000	0.000
RAPP 'C'	38.547	37.558	38.547	37.558
NATHPA JHAKRI	106.120	103.386	106.120	103.386
DULASTI	37.159	36.204	37.159	36.204
TEHRI	55.523	54.099	55.523	54.099
JHAJJAR	151.637	147.740	136.694	133.185
KHELGAON	26.323	25.647	17.918	17.457
KHELGAON-II	71.534	69.702	55.978	54.544
FARAKA	14.581	14.206	6.562	6.393
TALA	22.651	22.069	22.651	22.069
TALCHER	0.000	0.000	0.000	0.000
DVC	165.695	163.059	163.059	158.867
CHATTISHGARH	12.956	12.646	12.646	12.317
ANDHRA	0.000	0.000	0.000	0.000
DVC TATA STEEL (NDPL)	23.956	23.549	23.549	22.939
ORISSA	27.460	27.011	27.011	26.315
KERALA	74.830	73.444	73.444	71.556
HIMACHAL PRADESH	37.659	37.255	37.255	36.297

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	57.247	56.337	56.337	54.889
MADHYA PRADESH(WR)	66.169	65.036	65.036	63.364
MADHYA PRADESH(WR-ER)	48.421	47.593	47.593	46.369
NAGALAND	3.629	3.582	3.582	3.492
URS	72.005	70.160	72.005	70.160
SIKKIM	48.745	48.116	48.116	46.879
GOA	0.000	0.000	0.000	0.000
MAHARASHTRA	0.000	0.000	0.000	0.000
MEGHALAYA	0.000	0.000	0.000	0.000
RAJASTHAN	72.881	72.099	72.099	70.246
JAMMU & KASHMIR	37.659	37.255	37.255	36.297
TO ANDHRA(ER)	-3.960	-4.042	-4.042	-4.146
TO MAHARASHTRA	-0.134	-0.137	-0.137	-0.140
TO JAMMU & KASHMIR	-0.641	-0.648	-0.648	-0.665
TO HIMACHAL PRADESH	-0.158	-0.160	-0.160	-0.164
TO KERALA(ER)	-1.306	-1.332	-1.332	-1.368
TO KERALA (WR)	-5.584	-5.708	-5.708	-5.861
POWER EXCHANGE(IEX)	3.791	3.693	3.791	3.693
TO POWER EXCHANGE (IEX)	-244.546	-250.990	-244.546	-250.990
POWRER EXCHANGE(PX)	0.000	0.000	0.000	0.000
TO POWER EXCHANGE (PX)	-16.298	-16.727	-16.298	-16.727
TOTAL	**2737.063**	**2659.678**	**2476.915**	**2399.061**

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	1518.938	1479.901	1316.286	1282.473
NTPC - ER	112.439	109.555	80.458	78.394
NHPC	233.737	227.726	233.737	227.726
NPC	54.451	53.053	54.451	53.053
KOTESHWAR	1.086	1.057	1.086	1.057
NATHPA JHAKRI	106.120	103.386	106.120	103.386
TEHRI	55.523	54.099	55.523	54.099
TALA	22.651	22.069	22.651	22.069
JHAJJAR	151.637	147.740	136.694	133.185
TALCHER	0.000	0.000	0.000	0.000
DVC	165.695	163.059	163.059	158.867
CHATTISHGARH	12.956	12.646	12.646	12.317
ANDHRA	0.000	0.000	0.000	0.000
DVC TATA STEEL (NDPL)	23.956	23.549	23.549	22.939
ORISSA	27.460	27.011	27.011	26.315
KERALA	74.830	73.444	73.444	71.556
HIMACHAL PRADESH	37.659	37.255	37.255	36.297
WEST BENGAL	57.247	56.337	56.337	54.889
MADHYA PRADESH(WR)	66.169	65.036	65.036	63.364
MADHYA PRADESH(WR-ER)	48.421	47.593	47.593	46.369
NAGALAND	3.629	3.582	3.582	3.492
URS	72.005	70.160	72.005	70.160
GOA	0.000	0.000	0.000	0.000
MAHARASHTRA	0.000	0.000	0.000	0.000
MEGHALAYA	0.000	0.000	0.000	0.000
RAJASTHAN	72.881	72.099	72.099	70.246
JAMMU & KASHMIR	37.659	37.255	37.255	36.297
SIKKIM	48.745	48.116	48.116	46.879
POWER EXCHANGE(IEX)	3.791	3.693	3.791	3.693
POWER EXCHANGE(PX)	0.000	0.000	0.000	0.000
TOTAL	**3009.688**	**2939.421**	**2749.785**	**2679.120**

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 ANDHRA(ER)	-3.960	-4.042	-4.042	-4.146
TO MAHARASHTRA	-0.134	-0.137	-0.137	-0.140
TO JAMMU & KASHMIR	-0.641	-0.648	-0.648	-0.665
TO HIMACHAL PRADESH	-0.158	-0.160	-0.160	-0.164
TO KERALA(ER)	-1.306	-1.332	-1.332	-1.368
TO KERALA (WR)	-5.584	-5.708	-5.708	-5.861
TO POWER EXCHANGE (IEX)	-244.546	-250.990	-244.546	-250.990
TO POWER EXCHANGE (PX)	-16.298	-16.727	-16.298	-16.727
TOTAL	**-272.625**	**-279.743**	**-272.870**	**-280.059**
TOTAL SCHEDULED DRAWAL FROM THE GRID	**2737.063**	**2659.678**	**2476.915**	**2399.061**
TOTAL CONSUMPTION INCLUDING AUX. OF GENERATING STNs. EXCLUDING BTPS				2762.540
NET CONSUMPTION				2748.310
AVAILABILITY WITHIN DELHI				731.413
ACTUAL DRAWAL FROM THE GRID				2016.897
OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID ON THE BASIS OF SCHEDULED ALLOCATION MADE BY NRLDC TO DELHI AT PERIPHERY				-382.164
LOAD SHEDDING				**2.244**
UNRESTRICTED DEMAND (GROSS)				**2764.784**
UNRESTRICTED DEMAND (NET)				**2750.554**
MAX. NET CONSUMPTION				95.419Mus. ON 05.07.2011
MAX. LOAD SHEDDING				165W ON 10.07.2011 AT 12.30HRS.
PEAK LOAD	Peak Demand during the month			SHEDDING AT PEAK TIME
DAY PEAK	4819MW AT 15.37.38HRS ON 20.07.2011			NIL
EVENING PEAK	4639MW AT 22.00HRS ON 13.07.2011			NIL
P.L.F. OF GENCO AND PRAGATI STNs.	RPH GT PRAGATI RITHALA			24.52% 50.48% 89.65% 53.81%

9 SHEDDING DETAILS DURING THE MONTH OF JULY 2011.

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-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
2-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
3-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
4-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.060	0.000
5-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
6-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
7-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
8-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
9-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
10-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
11-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
12-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
13-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
14-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
15-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
16-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
17-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
18-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
19-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
20-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
21-Jul -11	0	0.000	0.000	0.006	0.000	**0.006**	0.000	0.000	0.000	0.000
22-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
23-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
24-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
25-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
26-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
27-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
28-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
29-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
30-Jul -11	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
31-Jul -11	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**	**0.006**	**0.000**	**0.000**	**0.000**	**0.000**	**0.060**	**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-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.106	0.000	0.000	0.000
3-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.000	0.000	0.000	0.000
4-Jul -11	0.000	0.000	0.000	0.000	0.060	0.060	0.000	0.033	0.003	0.000	0.000
5-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000
7-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.000	0.034	0.000	0.000
10-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.077	0.000	0.000	0.000	0.000
11-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.000	0.000	0.000
13-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.003	0.000	0.000	0.000
16-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000
17-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.024	0.000	0.000
20-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21-Jul -11	0.000	0.000	0.000	0.000	0.000	0.006	0.000	0.016	0.000	0.000	0.000
22-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.021	0.000	0.000	0.000	0.000
23-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.041	0.000	0.000
24-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000
25-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.000	0.000
28-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.102	0.093	0.004	0.000	0.000
Total	**0.000**	**0.000**	**0.000**	**0.000**	**0.060**	**0.066**	**0.247**	**0.263**	**0.127**	**0.000**	**0.000**

ALL FIGURES IN MUs

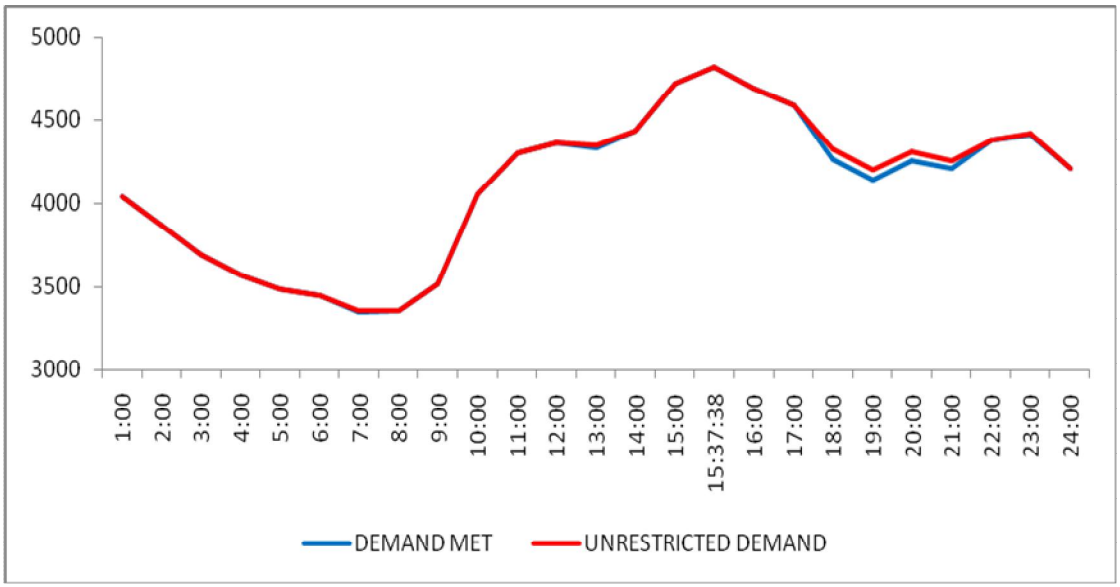
DATE	DUE TO T&D CONTRAINTS				OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.	THEFT PRONE SHEDDING			TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE	GRAND TOTAL
	DISCOMS									
	BSES		NDPL	NDMC		BSES		NDPL		
	BYPL	BRPL				BYPL	BRPL			
1	23	24	25		26	27	28	29	30=18 to29	31=30+17
1-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2-Jul -11	0.037	0.000	0.011	0.000	0.000	0.000	0.000	0.000	0.154	0.154
3-Jul -11	0.006	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.020	0.020
4-Jul -11	0.000	0.006	0.008	0.000	0.002	0.000	0.000	0.000	0.052	0.112
5-Jul -11	0.000	0.000	0.028	0.000	0.000	0.000	0.000	0.000	0.028	0.028
6-Jul -11	0.000	0.003	0.004	0.000	0.000	0.000	0.000	0.000	0.014	0.014
7-Jul -11	0.000	0.000	0.024	0.000	0.000	0.000	0.000	0.000	0.024	0.024
8-Jul -11	0.025	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.034	0.034
9-Jul -11	0.000	0.012	0.001	0.000	0.000	0.000	0.000	0.000	0.063	0.063
10-Jul -11	0.009	0.007	0.017	0.000	0.000	0.000	0.000	0.000	0.110	0.110
11-Jul -11	0.000	0.025	0.005	0.000	0.000	0.000	0.000	0.000	0.030	0.030
12-Jul -11	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.020
13-Jul -11	0.013	0.029	0.061	0.000	0.000	0.000	0.000	0.000	0.103	0.103
14-Jul -11	0.000	0.030	0.003	0.000	0.000	0.000	0.000	0.000	0.033	0.033
15-Jul -11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.020
16-Jul -11	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.009	0.009
17-Jul -11	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001
18-Jul -11	0.083	0.067	0.000	0.000	0.003	0.000	0.000	0.000	0.153	0.153
19-Jul -11	0.000	0.014	0.001	0.000	0.000	0.000	0.000	0.000	0.039	0.039
20-Jul -11	0.003	0.212	0.008	0.000	0.000	0.000	0.000	0.000	0.223	0.223
21-Jul -11	0.000	0.084	0.018	0.000	0.000	0.000	0.000	0.000	0.118	0.118
22-Jul -11	0.048	0.045	0.102	0.000	0.000	0.000	0.000	0.000	0.216	0.216
23-Jul -11	0.024	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.072	0.072
24-Jul -11	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.006
25-Jul -11	0.005	0.000	0.024	0.000	0.000	0.000	0.000	0.000	0.029	0.029
26-Jul -11	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000	0.020	0.026
27-Jul -11	0.022	0.075	0.000	0.027	0.000	0.000	0.000	0.000	0.136	0.136
28-Jul -11	0.022	0.035	0.001	0.000	0.000	0.000	0.000	0.000	0.058	0.058
29-Jul -11	0.018	0.024	0.003	0.000	0.000	0.000	0.000	0.000	0.045	0.045
30-Jul -11	0.000	0.000	0.000	0.000	0.096	0.000	0.000	0.000	0.096	0.096
31-Jul -11	0.010	0.010	0.033	0.000	0.000	0.000	0.000	0.000	0.252	0.252
Total	**0.328**	**0.687**	**0.398**	**0.027**	0.101	0.000	0.000	0.000	2.178	2.244

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-Jul -11	88.813	4477	15:22:45	0	4477	4477	15:22:45	4477	0
2-Jul -11	87.357	4221	22:58:35	3	4224	4224	22:58:35	4221	3
3-Jul -11	83.339	4219	23:14:47	0	4219	4219	23:14:47	4219	0
4-Jul -11	90.820	4671	15:14:50	3	4674	4674	15:14:50	4671	3
5-Jul -11	95.419	4547	23:00	4	4551	4551	23:00	4547	4
6-Jul -11	92.891	4541	15:31:57	4	4545	4545	15:31:57	4541	4
7-Jul -11	94.316	4707	15:35:42	0	4707	4707	15:35:42	4707	0
8-Jul -11	90.007	4258	00:00:18	0	4258	4258	00:00:18	4258	0
9-Jul -11	83.839	3943	12:23:45	5	3948	3948	12:23:45	3943	5
10-Jul -11	78.665	3957	22:51:13	0	3957	3957	22:51:13	3957	0
11-Jul -11	87.572	4429	15:43:47	0	4429	4429	15:43:47	4429	0
12-Jul -11	92.227	4535	15:36:49	0	4535	4535	15:36:49	4535	0
13-Jul -11	94.204	4764	15:24:33	8	4772	4772	15:24:33	4764	8
14-Jul -11	94.044	4688	14:45:11	4	4692	4692	14:45:11	4688	4
15-Jul -11	87.309	4276	15:43:16	0	4276	4276	15:43:16	4276	0
16-Jul -11	83.875	4084	22:51:13	0	4084	4084	22:51:13	4084	0
17-Jul -11	80.474	3991	23:14:56	0	3991	3991	23:14:56	3991	0
18-Jul -11	85.456	4262	22:48:00	0	4262	4262	22:48:00	4262	0
19-Jul -11	93.115	4582	22:26:21	0	4582	4582	22:26:21	4582	0
20-Jul -11	92.180	4819	15:37:38	0	4819	4819	15:37:38	4819	0
21-Jul -11	93.094	4716	15:36:25	0	4716	4716	15:36:25	4716	0
22-Jul -11	93.324	4653	15:42:50	25	4678	4678	15:42:50	4653	25
23-Jul -11	87.313	4435	00:00:05	6	4441	4441	00:00:05	4435	6
24-Jul -11	80.170	4161	22:44:38	0	4161	4161	22:44:38	4161	0
25-Jul -11	87.415	4379	22:27:50	0	4379	4379	22:27:50	4379	0
26-Jul -11	90.090	4439	22:55:40	0	4439	4439	22:55:40	4439	0
27-Jul -11	88.328	4207	14:44:40	7	4214	4214	14:44:40	4207	7
28-Jul -11	85.891	4483	15:48:46	8	4491	4491	15:48:46	4483	8
29-Jul -11	88.414	4432	16:24:34	1	4433	4433	16:24:34	4432	1
30-Jul -11	90.305	4452	16:47:55	6	4458	4458	16:47:55	4452	6
31-Jul -11	88.044	4600	22:52:25	28	4628	4628	22:52:25	4600	28
Total	2748.310	4819 **20.07.2011**	15:37:38	0	4819	4819 **20.07.2011**	15:37:38	4819	0

10 LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING JULY 2011 ON 20.07.2011 –4819MW at 15:37:38HRS.

All figures in MW

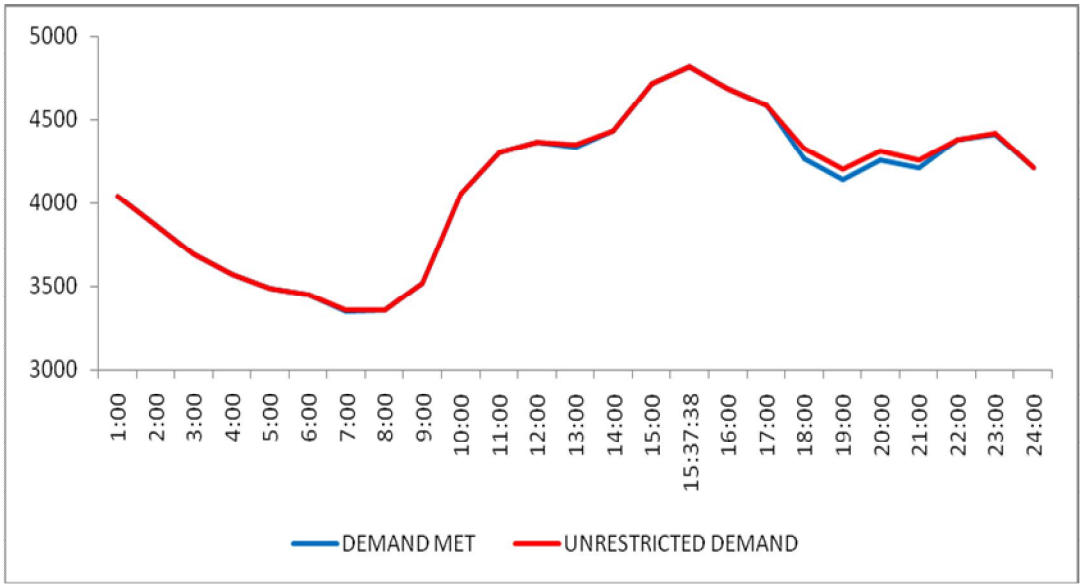
Hrs.	Demand	Load Shedding	Un-Restricted Demand
01.00	4037	0	4037
02.00	3868	0	3868
03.00	3691	0	3691
04.00	3573	0	3573
05.00	3485	0	3485
06.00	3448	0	3448
07.00	3348	7	3355
08.00	3352	0	3352
09.00	3518	0	3518
10.00	4053	3	4056
11.00	4298	0	4298
12.00	4361	0	4361
13.00	4335	14	4349
14.00	4434	0	4434
15.00	4715	0	4715
15:37:38	**4819**	0	**4819**
16.00	4684	0	4684
17.00	4588	0	4588
18.00	4265	60	4325
19.00	4138	60	4198
20.00	4258	50	4308
21.00	4208	50	4258
22.00	4381	0	4381
23.00	4411	7	4418
24.00	4205	0	4205
ENERGY IN MUS	**92.180**	**0.223**	**92.403**



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING JULY 2011 ON 20.07.2011 –4819MW at 15:37:38HRS.

All figures in MW

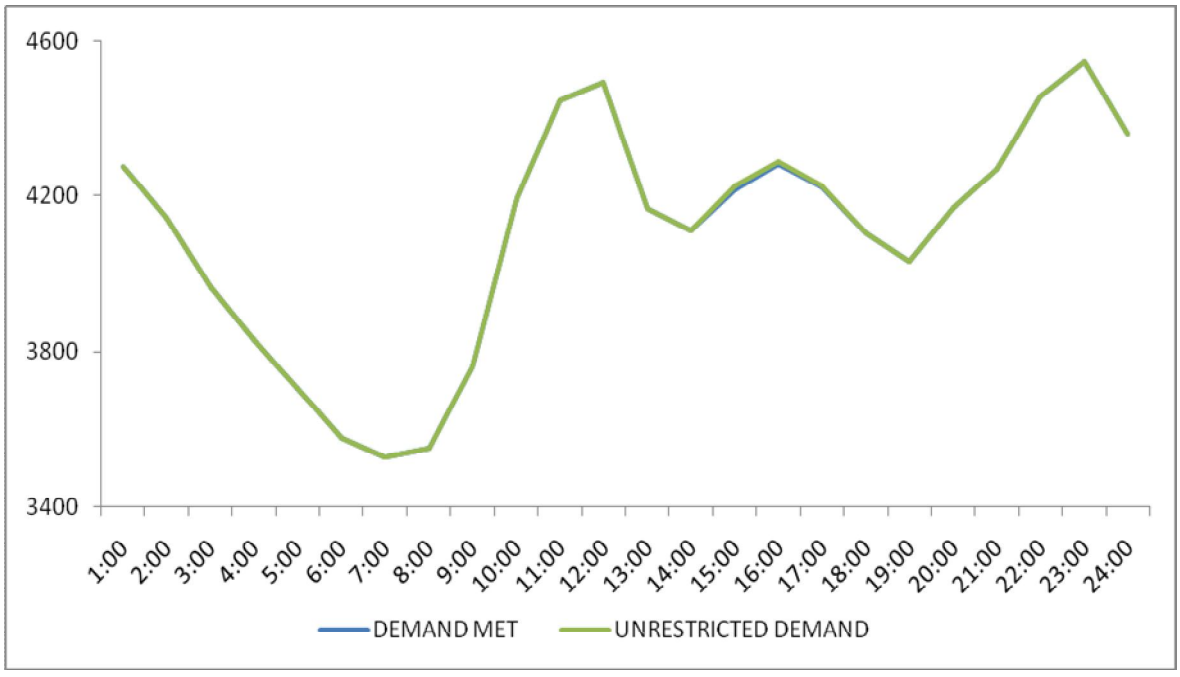
Hrs.	Demand	Load Shedding	Un-Restricted Demand
01.00	4037	0	4037
02.00	3868	0	3868
03.00	3691	0	3691
04.00	3573	0	3573
05.00	3485	0	3485
06.00	3448	0	3448
07.00	3348	7	3355
08.00	3352	0	3352
09.00	3518	0	3518
10.00	4053	3	4056
11.00	4298	0	4298
12.00	4361	0	4361
13.00	4335	14	4349
14.00	4434	0	4434
15.00	4715	0	4715
15:37:38	**4819**	0	**4819**
16.00	4684	0	4684
17.00	4588	0	4588
18.00	4265	60	4325
19.00	4138	60	4198
20.00	4258	50	4308
21.00	4208	50	4258
22.00	4381	0	4381
23.00	4411	7	4418
24.00	4205	0	4205
ENERGY IN MUS	**92.180**	**0.223**	**92.403**



12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING JULY 2011 – 05.07.2011 – 95.419 Mus

All figures in MW

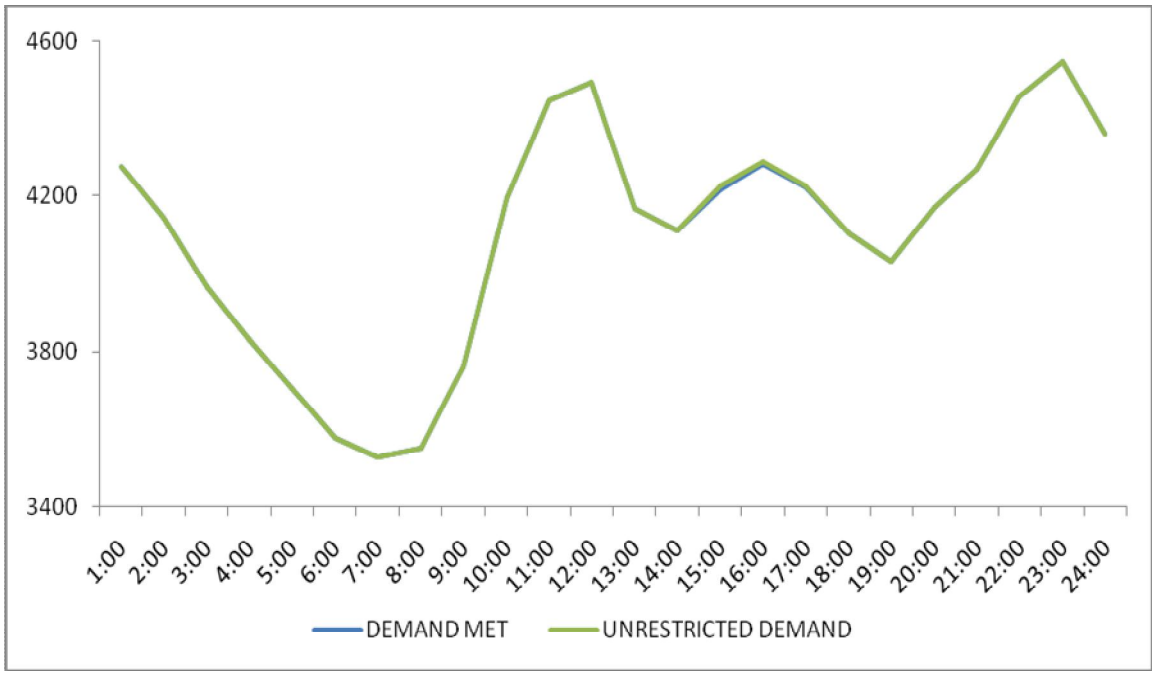
Hrs.	Demand	Load Shedding	Un-Restricted Demand
01.00	4276	0	4276
02.00	4145	0	4145
03.00	3967	0	3967
04.00	3831	0	3831
05.00	3704	0	3704
06.00	3578	0	3578
07.00	3529	0	3529
08.00	3549	0	3549
09.00	3763	0	3763
10.00	4195	0	4195
11.00	4446	0	4446
12.00	4495	0	4495
13.00	4168	0	4168
14.00	4110	0	4110
15.00	4216	9	4225
16.00	4283	6	4289
17.00	4224	4	4228
18.00	4105	0	4105
19.00	4032	0	4032
20.00	4171	0	4171
21.00	4268	0	4268
22.00	4458	0	4458
23.00	4547	0	4547
24.00	4361	0	4361
ENERGY IN MUS	**95.419**	**0.028**	**95.447**



13 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING JULY 2011 – 05.07.2011 – 95.419 Mus

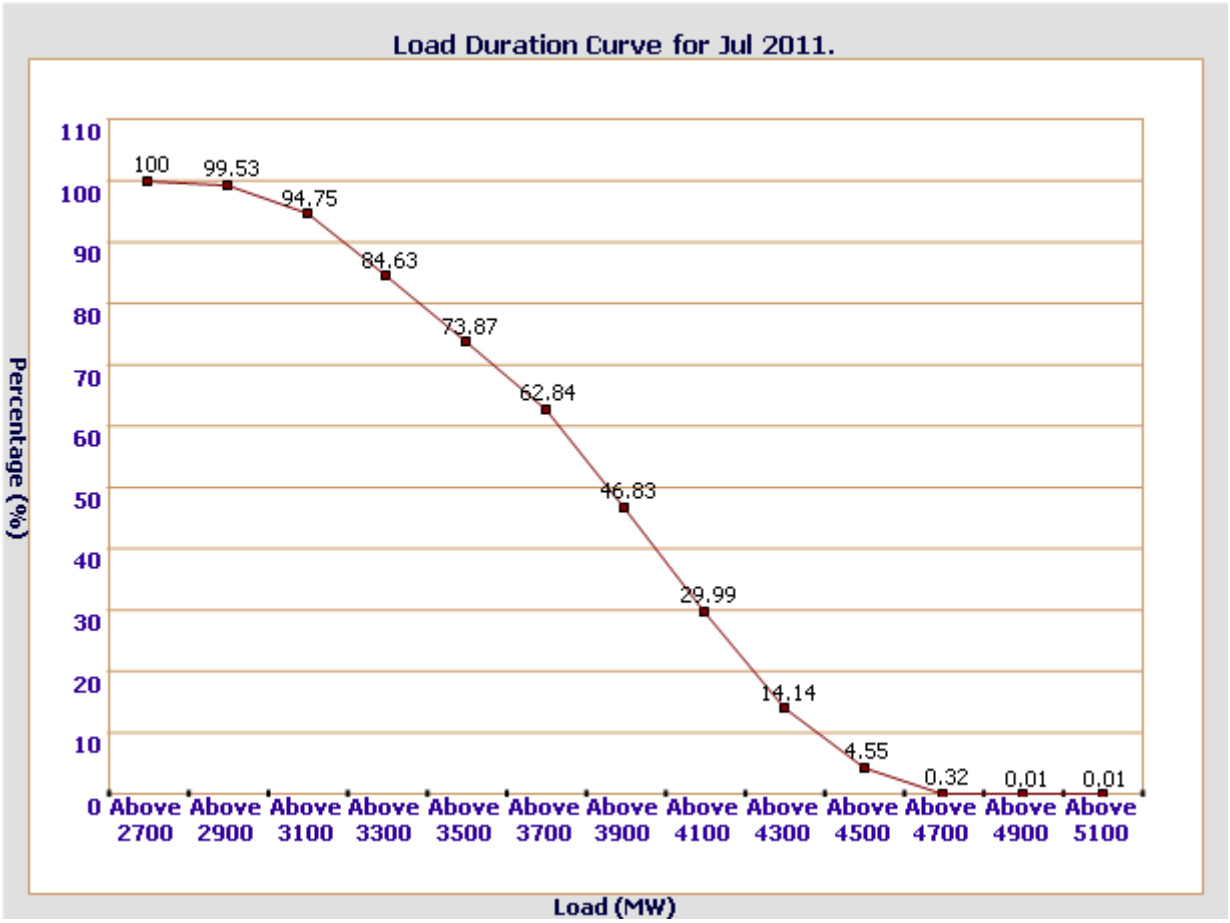
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
01.00	4276	0	4276
02.00	4145	0	4145
03.00	3967	0	3967
04.00	3831	0	3831
05.00	3704	0	3704
06.00	3578	0	3578
07.00	3529	0	3529
08.00	3549	0	3549
09.00	3763	0	3763
10.00	4195	0	4195
11.00	4446	0	4446
12.00	4495	0	4495
13.00	4168	0	4168
14.00	4110	0	4110
15.00	4216	9	4225
16.00	4283	6	4289
17.00	4224	4	4228
18.00	4105	0	4105
19.00	4032	0	4032
20.00	4171	0	4171
21.00	4268	0	4268
22.00	4458	0	4458
23.00	4547	0	4547
24.00	4361	0	4361
ENERGY IN MUS	**95.419**	**0.028**	**95.447**



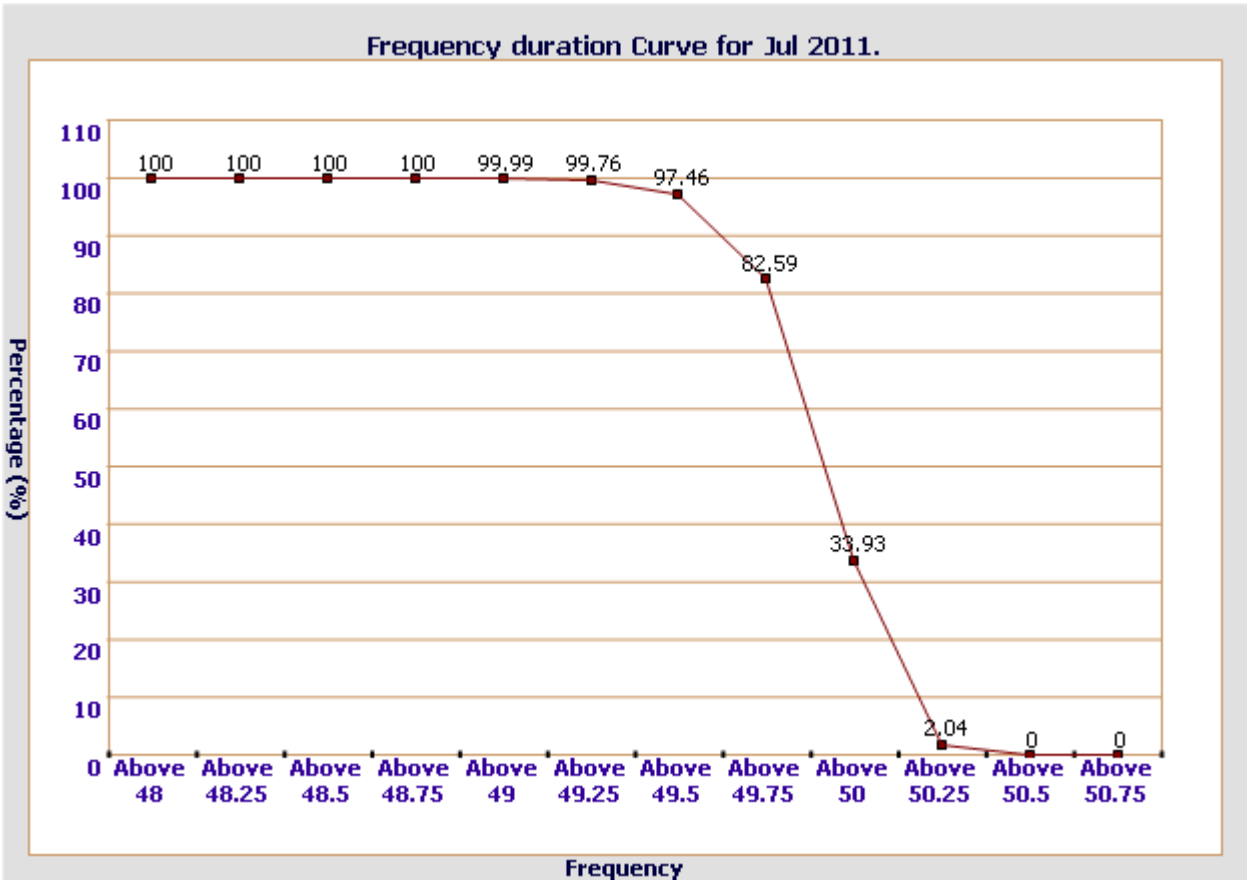
14 LOAD DURATION CURVE FOR JULY 2011

Load in MW	Percentage of Time
Above 2700	100 %
Above 2900	99.53 %
Above 3100	94.75 %
Above 3300	84.63 %
Above 3500	73.87 %
Above 3700	62.84 %
Above 3900	46.83 %
Above 4100	29.99 %
Above 4300	14.14 %
Above 4500	4.55 %
Above 4700	0.32 %
Above 4900	0.01 %
Above 5100	0.01 %



15 FREQUENCY ANALYSIS FOR THE MONTH OF JULY 2011

Frequency Range in Hz.	Percentage of time
Above 48.75	100 %
Above 49	99.99 %
Above 49.25	99.76 %
Above 49.5	97.46 %
Above 49.75	82.59 %
Above 50	33.93 %
Above 50.25	2.04 %
Above 50.5	0 %



16 VOLTAGE PROFILE OF 220 KV SUB-STATIONS IN DELHI DURING JULY 2011

All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
1-Jul -11	232.15	--	227.24	214.99
2-Jul -11	229.95	214.99	226.21	214.48
3-Jul -11	229.31	214.61	227.24	212.15
4-Jul -11	226.08	208.80	225.95	208.67
5-Jul -11	224.15	210.87	224.02	212.41
6-Jul -11	224.02	210.74	225.05	210.48
7-Jul -11	225.57	209.32	223.63	211.12
8-Jul -11	228.15	217.57	224.79	215.12
9-Jul -11	228.66	215.77	226.08	215.64
10-Jul -11	230.01	209.96	226.73	214.61
11-Jul -11	228.28	214.73	224.66	209.32
12-Jul -11	224.92	210.48	222.99	208.16
13-Jul -11	226.86	208.16	221.21	206.87
14-Jul -11	227.50	212.80	224.28	212.67
15-Jul -11	228.15	220.80	225.57	217.06
16-Jul -11	229.95	212.67	226.71	211.51
17-Jul -11	229.95	212.67	226.21	211.51
18-Jul -11	226.99	215.12	224.41	212.80
19-Jul -11	228.79	211.12	225.31	211.77
20-Jul -11	225.05	209.19	224.02	209.19
21-Jul -11	225.70	208.03	225.31	209.19
22-Jul -11	--	--	--	--
23-Jul -11	--	--	--	--
24-Jul -11	--	--	--	--
25-Jul -11	--	--	--	--
26-Jul -11	--	--	--	--
27-Jul -11	--	--	--	--
28-Jul -11	--	--	--	--
29-Jul -11	--	--	--	--
30-Jul -11	227.24	210.09	225.95	212.67
31-Jul -11	225.57	213.70	224.92	211.25

17 VOLTAGE PROFILE OF 400 KV SUB-STATIONS IN DELHI DURING JULY 2011

All figures in kV

Date	400kV Bamnauli Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
1-Jul -11	418.56	04.00.06	394.88	14.35.42	405.75
2-Jul -11	412.00	04.01.49	389.96	14.59.37	400.72
3-Jul -11	413.17	18.00.51	387.38	12.51.02	399.79
4-Jul -11	409.18	07.06.13	379.40	14.18.47	395.67
5-Jul -11	406.14	08.03.48	385.50	00.07.31	395.40
6-Jul -11	410.12	08.05.01	382.92	15.09.56	396.37
7-Jul -11	408.01	07.05.02	383.39	14.56.28	396.37
8-Jul -11	410.36	13.28.14	395.58	00.05.29	403.26
9-Jul -11	412.00	04.02.27	394.65	23.22.49	403.61
10-Jul -11	414.58	08.03.16	389.72	23.20.45	404.53
11-Jul -11	408.72	04.13.10	380.81	23.07.23	392.82
12-Jul -11	405.43	08.01.43	380.81	15.25.08	394.17
13-Jul -11	--	--	378.70	14.19.01	393.13
14-Jul -11	408.48	08.00.46	388.08	00.12.47	397.07
15-Jul -11	411.53	07.22.45	398.63	00.08.26	405.21
16-Jul -11	412.47	03.36.44	--	--	402.62
17-Jul -11	412.47	03.36.44	--	--	402.62
18-Jul -11	409.89	07.04.19	388.78	14.49.44	396.57
19-Jul -11	--	--	384.56	12.43.12	398.12
20-Jul -11	408.72	08.04.21	381.05	14.42.15	397.62
21-Jul -11	411.06	08.00.49	381.98	14.25.21	398.77
22-Jul -11	--	--	--	--	--
23-Jul -11	--	--	--	--	--
24-Jul -11	--	--	--	--	--
25-Jul -11	--	--	--	--	--
26-Jul -11	--	--	--	--	--
27-Jul -11	--	--	--	--	--
28-Jul -11	--	--	--	--	--
29-Jul -11	--	--	--	--	--
30-Jul -11	412.23	07.05.13	386.91	14.53.29	399.67
31-Jul -11	410.12	08.02.35	387.85	22.37.04	399.53

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
1-Jul -11	419.50	04.05.26	398.16	14.34.22	408.61
2-Jul -11	414.81	04.00.39	395.12	23.18.15	404.66
3-Jul -11	417.16	17.59.51	390.43	12.51.02	403.51
4-Jul -11	412.00	07.04.33	385.27	14.18.27	400.03
5-Jul -11	409.89	08.02.08	389.25	15.12.52	399.80
6-Jul -11	413.17	08.04.01	386.91	14.50.45	400.44
7-Jul -11	411.06	07.58.15	387.85	14.51.38	400.36
8-Jul -11	413.87	13.24.33	399.10	10.55.35	406.69
9-Jul -11	414.34	04.13.18	399.10	23.32.09	406.55
10-Jul -11	416.92	08.04.06	394.41	23.30.35	407.57
11-Jul -11	411.06	04.13.10	385.50	23.07.13	396.92
12-Jul -11	407.31	08.01.13	385.27	15.24.58	397.57
13-Jul -11	--	--	382.92	15.41.14	396.50
14-Jul -11	410.83	08.00.36	392.07	12.39.33	400.63
15-Jul -11	413.47	07.22.35	401.92	00.08.56	408.01
16-Jul -11	415.05	03.39.24	390.19	12.45.45	404.07
17-Jul -11	415.05	03.39.24	390.19	12.45.45	404.07
18-Jul -11	411.53	07.04.19	392.77	14.39.04	399.82
19-Jul -11	--	--	387.61	12.36.11	400.89
20-Jul -11	410.12	08.03.40	384.56	14.42.25	400.20
21-Jul -11	412.47	08.03.59	384.56	14.57.42	401.32
22-Jul -11	--	--	--	--	--
23-Jul -11	--	--	--	--	--
24-Jul -11	--	--	--	--	--
25-Jul -11	--	--	--	--	--
26-Jul -11	--	--	--	--	--
27-Jul -11	--	--	--	--	--
28-Jul -11	--	--	--	--	--
29-Jul -11	--	--	--	--	--
30-Jul -11	414.34	07.05.24	390.89	14.53.29	402.75
31-Jul -11	412.00	18.00.39	392.77	12.55.12	402.23

18 DETAILS OF LUMPED CAPACITORS AT NEAREST 220 KV SUBSTATION

Sl. No	SUB-STATION	INSTALLED CAPACITY IN MVAR				Load IN		WORKING CAPACITY IN MVAR				Lumped Load IN	
		66KV	33kV	11kV	**TOTAL**	MW	MVAR	66KV	33kV	11kV	**TOTAL**	MW	MVAR
1	**IP YARD**		30		**30**				30		**30**		
1	Kamla Market			16.35	**16.35**					16.35	**16.35**	8	
2	Minto Road												
3	GB Pant Hosp			15.88	**15.88**					10.48	**10.48**	5	
4	Delhi Gate			10.9	**10.9**					10.9	**10.9**	8	
5	Tilakmarg			5.04	**5.04**					5.04	**5.04**	12	
6	Electric Lane			5.04	**5.04**					5.04	**5.04**	19	
7	Cannaught Place			10.08	**10.08**					10.08	**10.08**	20	
8	Kilokri		10.08	10.48	**20.56**				0	5.03	**5.03**	4	
9	NDSE			5.03	**5.03**					5.03	**5.03**	6	
10	AIIMS		10	5.04	**15.04**				10	5.04	**15.04**	18	
11	Nizamuddin												
12	Exhibition-I		10		**10**				0		**0**	11	
13	Exhibition-II												
14	Defence Colony												
15	IG Stadium		10.08	5.45	**15.53**				0	5.45	**5.45**	4	
16	Lajpat Nagar												
17	IP Estate			10.9	**10.9**					5.45	**5.45**		
	Total				**170.4**	239	11	**0**	**40**	**83.89**	**123.9**	**115**	
2	**IP Extn.**												
1	School Lane			5.04	**5.04**					5.04	**5.04**	51	
2	Scindia House			5.04	**5.04**					5.04	**5.04**		
3	Vidyut Bhawan			10.08	**10.08**					10.08	**10.08**	52	
4	Nirman Bhawan			5.04	**5.04**					5.04	**5.04**	30	
5	Dalhousie Road			5.04	**5.04**					5.04	**5.04**		
	Total				**30.24**	129	12	**0**	**0**	**30.24**	**30.24**	**133**	
3	**RPH Station**		20	5.04	**25.04**				20	5.04	**25.04**		
1	Lahori Gate			10.49	**10.49**					10.49	**10.49**	7	
2	Jama Masjid			5.03	**5.03**					5.03	**5.03**	8	
4	Kamla Market												
5	Minto Road			10.9	**10.9**					10.9	**10.9**	6	
6	GB Pant Hosp												
7	IG Stadium												
	Total				**51.46**	100	30	**0**	**20**	**31.46**	**51.46**	**21**	
4	**Parkstreet S/stn**	20	20		**40**			20	20		**40**		
1	Shastri Park		10.896	5.45	**16.35**				10.896	5.45	**16.35**	47	
2	Faiz Road			10.9	**10.9**					10.9	**10.9**	12	
3	Motia Khan			16.3	**16.3**					16.3	**16.3**	11	
4	Prasad Nagar			16.25	**16.25**					16.25	**16.25**	11	
5	Anand Parbat			10.8	**10.8**					7.2	**7.2**	7	
6	Shankar Road			5.04	**5.04**					5.04	**5.04**	8	
7	Rama Road			14.4	**14.4**					7.2	**7.2**	3	
8	Baird Road			10.08	**10.08**					10.08	**10.08**	22	
9	Hanuman Road			5.04	**5.04**					0	**0**	11	
10	Pusa			7.2	**7.2**					7.2	**7.2**	7	
11	Ridge Valley											53	
12	SJ Airport			5.04	**5.04**					0	**0**	9	
13	B. D. Marg											11	
	Total				**157.4**	233	41	**20**	**30.9**	**85.62**	**136.5**	**212**	

Sl. No	SUB-STATION	INSTALLED CAPACITY IN MVAR				Load IN		WORKING CAPACITY IN MVAR				Lumped Load IN	
		66KV	33kV	11kV	**TOTAL**	MW	MVAR	66KV	33kV	11kV	**TOTAL**	MW	MVAR
5	**Naraina S/stn**		20	5.04	**25.04**				20	0	**20**		
1	DMS			10.85	**10.85**					10.85	**10.85**	6	
2	Mayapuri		10.87	5	**15.87**				10.87	5	**15.87**	13	
3	Inderpuri		13.26	5.04	**18.3**				0	5.04	**5.04**	7	
4	Rewari line			7.2	**7.2**					7.2	**7.2**		
5	Khyber Lane			5.04	**5.04**					5.04	**5.04**		
6	Kirbi Place	10		5.97	**15.97**			10		5.97	**15.97**		
7	Payal			14.4	**14.4**					7.2	**7.2**	4	
	Total				**112.7**	140	21	**10**	**30.87**	**46.3**	**87.17**	**30**	
6	**Mehrauli S/stn**	80		5.04	**85.04**			60		5.04	**65.04**		
1	Adchini			15.12	**15.12**					10.08	**10.08**	9	
2	Andheria Bagh			10.85	**10.85**					10.85	**10.85**	7	
3	IIT			10.9	**10.9**					5.45	**5.45**	7	
4	JNU		10.03	10.08	**20.11**				10.03	5.04	**15.07**	23	
5	Bijwasan			10.08	**10.08**					5.04	**5.04**	6	
6	DC Saket		10.08	4.54	**14.62**				0	0	**0**	10	
7	Malviya Nagar												
8	C Dot			5.4	**5.4**					0	**0**	3	
9	Vasant kunj B-Blk	21.79		10.9	**32.69**			0		0	**0**	2	
10	Vasant kunj C-Blk	20.16		10.49	**30.65**			0		0	**0**	2	
11	Palam											12	
12	IGNOU											2	
13	R. K. Puram-I			10.08	**10.08**					10.08	**10.08**	6	
14	Vasant Vihar			15.12	**15.12**					15.12	**15.12**	8	
15	Pusp Vihar			9.6	**9.6**					9.6	**9.6**		
16	Bhikaji Cama Place		10	10.08	**20.08**				10	5.04	**15.04**	9	
	Total				**290.3**	213	32	**60**	**20.03**	**81.34**	**161.4**	**106**	
7	**Vasantkunj S/stn**	40		5.04	**45.04**			40		5.04	**45.04**		
1	R. K. Puram-II			7.2	**7.2**					0	**0**	4	
2	Vasant kunj C-Blk										**0**		
3	Vasant kunj D-Blk	20.16		10.25	**30.41**			0		0	**0**	1	
4	Race Course			5.04	**5.04**					5.04	**5.04**		
5	Bapu Dham			10.08	**10.08**					10.08	**10.08**	24	
6	Nehru Park			10	**10**					10	**10**	8	
7	Ridge Valley										**0**		
	Total				**107.8**	244	35	**40**	**0**	**30.16**	**70.16**	**37**	
8	**Okhla S/stn**	60	10	5.04	**75.04**			60	10	5.04	**75.04**		
1	Balaji			7.2	**7.2**					3.6	**3.6**	6	
2	East of Kailash			10	**10**					5	**5**	13	
3	Alaknanda			16.25	**16.25**					10.85	**10.85**	9	
4	Malviya Nagar	21.79	20.16	10.49	**52.44**			21.79	20.16	10.49	**52.44**	77	
5	Masjid Moth			15.94	**15.94**					5.04	**5.04**	7	
6	Nehru Place			21.35	**21.35**					21.35	**21.35**	20	
7	Okhla Ph-I	21.79		10.9	**32.69**			21.79		0	**21.79**	6	
8	Okhla Ph-II		20.93	15.53	**36.46**				10.9	15.53	**26.43**	13	
9	Shivalik			10.9	**10.9**					10.9	**10.9**	9	
10	Batra			15.8	**15.8**					15.8	**15.8**	5	
11	VSNL			10.8	**10.8**					0	**0**	7	
12	Siri Fort			10.49	**10.49**					5.04	**5.04**	9	
13	Tuglakabad			10.8	**10.8**					0	**0**	11	
	Total				**326.2**	360	52	**103.6**	**41.06**	**108.6**	**253.3**	**192**	

Sl. No	SUB-STATION	INSTALLED CAPACITY IN MVAR				Load IN		WORKING CAPACITY IN MVAR				Lumped Load IN	
		66KV	33kV	11kV	**TOTAL**	MW	MVAR	66KV	33kV	11kV	**TOTAL**	MW	MVAR
9	**Lodhi Road S/stn**		20		**20**				20		**20**		
1	Defence Colony			10.9	**10.9**					5.45	**5.45**	13	
2	Hudco			10.9	**10.9**					0	**0**	7	
4	Lajpat Nagar			10.9	**10.9**					0	**0**	6	
5	Nizamuddin			10.49	**10.49**					10.49	**10.49**	10	
6	Vidyut Bhawan										**0**	6	
7	Kidwai Nagar			5.04	**5.04**					5.04	**5.04**	9	
8	Ex. Gr. II										**0**		
9	IHC										**0**		
	Total				**68.23**	157	61	**0**	**20**	**20.98**	**40.98**	**51**	
10	**Sarita Vihar S/stn**	20		5.04	**25.04**			20		5.04	**25.04**		
1	Sarita Vihar			10.08	**10.08**					10.08	**10.08**	13	
2	MCIE			10.06	**10.06**					0	**0**	4	
3	Mathura Road	20.16		10.08	**30.24**			20.16		5.04	**25.2**	3	
4	Jamia Millia			5.4	**5.4**					0	**0**	4	
5	Sarai Julena		10.08	10.9	**20.98**				10.08	10.9	**20.98**	14	
	Total				**101.8**	140	-3	**40.16**	**10.08**	**31.06**	**81.3**	**38**	
11	**South of Wazirabad**										**0**		
1	Bhagirathi		10.03	10.9	**20.93**				0	10.9	**10.9**	10	
2	Ghonda	21.79	22.56	15.94	**60.29**			0	0	15.94	**15.94**	20	
3	Seelam Pur		10.08	21.39	**31.47**				0	10.9	**10.9**	10	
4	Dwarkapuri			15.46	**15.46**					15.46	**15.46**	8	
5	Nandnagri	20.16		16.35	**36.51**			20.16		10.9	**31.06**	4	
6	Yamuna Vihar			10.8	**10.8**					1.8	**1.8**	5	
7	East of Loni Road			10.8	**10.8**					10.8	**10.8**	3	
8	Shastri Park			10.9	**10.9**					5.45	**5.45**	10	
9	Karawal Nagar			5.4	**5.4**					5.4	**5.4**	9	
	Total				**202.6**	214	64	**20.16**	**0**	**87.55**	**107.7**	**79**	
12	**Geeta Colony**										**0**		
1	Geeta Colony			10.49	**10.49**					10.49	**10.49**	12	
2	Kanti Nagar			10.9	**10.9**					10.9	**10.9**	8	
3	Kailash Nagar			15.48	**15.48**					5.45	**5.45**	12	
4	Seelam Pur										**0**		
5	Shakar Pur										**0**	6	
	Total				**36.87**	105	45	**0**	**0**	**26.84**	**26.84**	**32**	
13	**Gazipur S/stn**	40		5.04	**45.04**			40		5.04	**45.04**		
1	Dallupura	21.79		10.9	**32.69**			0		10.9	**10.9**	2	
2	Vivek Vihar			10.57	**10.57**					5.03	**5.03**	18	
3	GT Road			10.85	**10.85**					10.85	**10.85**	7	
4	Kondli	20.16		10.85	**31.01**			0		5.45	**5.45**	3	
5	MVR-I			10.9	**10.9**					0	**0**		
6	MVR-II	20.16		10.9	**31.06**			0		10.9	**10.9**		
7	PPG Ind. Area			10.06	**10.06**					0	**0**	2	
	Total				**182.2**	164	0	**40**	**0**	**48.17**	**88.17**	**32**	
14	**Patparganj S/stn**	40	20	5.04	**65.04**			40	10	5.04	**55.04**		
1	GH-I	19.89		10.45	**30.34**			0		10.45	**10.45**	2	
2	GH-II	20.09		10.9	**30.99**			0		0	**0**	3	
3	CBD		10.03	15.48	**25.51**				0	15.48	**15.48**	9	
4	Guru Angad Nagar			15.49	**15.49**					15.49	**15.49**	11	
5	Karkadooma		10.08	10.44	**20.52**				10.08	10.44	**20.52**	6	
6	Preet Vihar			10.07	**10.07**					5.04	**5.04**	9	

Sl. No	SUB-STATION	INSTALLED CAPACITY IN MVAR				Load IN		WORKING CAPACITY IN MVAR				Lumped Load IN	
		66KV	33kV	11kV	**TOTAL**	MW	MVAR	66KV	33kV	11kV	**TOTAL**	MW	MVAR
7	CBD-II			7.2	**7.2**					0	**0**	4	
8	Shakarpur			5.4	**5.4**					3.6	**3.6**		
9	Jhilmil			9	**9**					0	**0**	5	
10	Dilshad Garden	20.16		16.35	**36.51**			0		0	**0**	4	
11	Khichripur	21.79		10.49	**32.28**			0		5.45	**5.45**	7	
12	Mother Dairy										**0**		
13	Scope Building										**0**		
14	Vivek Vihar										**0**		
15	Akhardham			14.4	**14.4**					0	**0**		
	Total				**302.8**	169	-25	**40**	**20.08**	**70.99**	**131.1**	**60**	
15	**Najafgarh S/stn**	60		5.04	**65.04**			60		5.04	**65.04**		
1	A4 Paschim Vihar			10.9	**10.9**					5.45	**5.45**	6	
2	Nangloi	21.73		15.85	**37.58**			21.73		10.85	**32.58**	39	
3	Nangloi W/W	20.89		5.45	**26.34**			20.89		5.45	**26.34**	3	
4	Pankha Road			15.69	**15.69**					15.69	**15.69**	6	
5	Jaffarpur			15.49	**15.49**					0	**0**	3	
7	Inst. Area Janakpuri			15.9	**15.9**					5.45	**5.45**		
8	Paschimpuri		10.05	15.53	**25.58**				0	5.04	**5.04**	9	
9	Paschim Vihar	41.83		15.44	**57.27**			20.1		15.44	**35.54**	36	
10	Mukherjee Park			15.49	**15.49**					15.49	**15.49**	11	
11	Udyog Nagar			10.04	**10.04**					0	**0**	8	
12	Choukhandi			10.08	**10.08**					0	**0**	7	
	Total				**305.4**	322	38	**122.7**	**0**	**83.9**	**206.6**	**128**	
16	**Pappankalan-I S/stn**	20		5.04	**25.04**			20		5.04	**25.04**		
1	Bindapur	21.73		15.9	**37.63**			0		5	**5**	6	
2	Bodella-I	20.1		15.9	**36**			20.1		15.9	**36**	6	
3	Bodella-II	21.73		14.53	**36.26**			0		14.53	**14.53**	6	
4	DC Janakpuri			10.04	**10.04**					10.04	**10.04**	8	
5	G-2 PPK			10.9	**10.9**					10.9	**10.9**	3	
6	G-5 PPK			15.53	**15.53**					15.53	**15.53**	6	
7	G-6 PPK			5.45	**5.45**					5.45	**5.45**	5	
8	G-15 PPK			10.08	**10.08**					10.08	**10.08**		
9	Harinagar	21.18		10.49	**31.67**			0		10.49	**10.49**	6	
	Total				**218.6**	334	38	**40.1**	**0**	**103**	**143.1**	**46**	
17	**BBMB Rohtak Road**										**0**		
1	S.B. Mill			10.08	**10.08**					0	**0**	3	
2	GTK Road				**0**						**0**		
3	Ram Pura			12.24	**12.24**					12.24	**12.24**	7	
4	Rohtak Road			10.08	**10.08**					5.04	**5.04**	2	
5	Vishal			5.4	**5.4**					5.4	**5.4**	13	
6	Madipur			10.43	**10.43**					5	**5**	7	
7	Sudershan Park			10.08	**10.08**					0	**0**		
	Total				**58.31**	151	15	**0**	**0**	**27.68**	**27.68**	**32**	
18	**Shalimarbagh S/stn**		40	6	**46**				30	6	**36**		
1	S.G.T. Nagar			13.15	**13.15**					0	**0**		
2	Wazirpur-1			20.7	**20.7**					20.7	**20.7**	11	
3	Wazirpur-2			14.4	**14.4**					7.2	**7.2**	6	
4	Shalimarbagh										**0**		
5	Ashok Vihar			20.35	**20.35**					20.35	**20.35**	11	
6	Rani Bagh			14.4	**14.4**					7.2	**7.2**	3	

Sl. No	SUB-STATION	INSTALLED CAPACITY IN MVAR				Load IN		WORKING CAPACITY IN MVAR				Lumped Load IN	
		66KV	33kV	11kV	**TOTAL**	MW	MVAR	66KV	33kV	11kV	**TOTAL**	MW	MVAR
7	Haiderpur			13.15	**13.15**					13.15	**13.15**	6	
8	SMB FC			7.2	**7.2**					7.2	**7.2**		
9	SMB KHOSLA			7.2	**7.2**					7.2	**7.2**	4	
	Total				**156.6**	185	4	**0**	**30**	**89**	**119**	**41**	
19	**Subzimandi S/stn**			6	**6**					6	**6**		
1	Shakti Nagar			5.04	**5.04**					5.04	**5.04**	4	
2	Gulabibagh			7.2	**7.2**					7.2	**7.2**	4	
3	Shahzadabagh			19.44	**19.44**					19.44	**19.44**	10	
4	Tripolia			14.4	**14.4**					7.2	**7.2**	4	
5	B. G. Road										**0**	3	
	Total				**52.08**	105	17	**0**	**0**	**44.88**	**44.88**	**25**	
20	**Narela S/stn**	40		5.04	**45.04**			40		5.04	**45.04**		
1	A-7 Narela			14.4	**14.4**					14.4	**14.4**		
2	AIR Kham pur			13.15	**13.15**					0	**0**	7	
3	Badli	20		5.95	**25.95**			20		5.95	**25.95**	21	
4	DSIDC Narela	20		5.95	**25.95**			20		5.95	**25.95**	14	
5	DSIDC Narela-2			14.4	**14.4**					0	**0**		
6	Jahangirpuri	20	20	5.95	**45.95**			20	10	5.95	**35.95**	27	
	Total				**184.8**	203	-38	**100**	**10**	**37.29**	**147.3**	**69**	
21	**Gopalpur S/stn**		30	5.04	**35.04**				20	5.04	**25.04**		
1	Azad Pur			21.6	**21.6**					21.6	**21.6**	12	
2	Hudson Lane			5.95	**5.95**					5.95	**5.95**	4	
3	Wazirabad			7.2	**7.2**					7.2	**7.2**	3	
4	Indra Vihar			5.95	**5.95**					5.95	**5.95**		
5	Tri Nagar			14.4	**14.4**					7.2	**7.2**	3	
6	GTK Road			13.15	**13.15**					7.2	**7.2**	3	
7	Jahangirpuri				**0**						**0**		
8	Civil lines			6	**6**					6	**6**		
9	DIFR			7.2	**7.2**					7.2	**7.2**		
10	Delhi Univ.			7.2	**7.2**					7.2	**7.2**		
11	Tiggipur			14.4	**14.4**					14.4	**14.4**		
	Total				**138.1**	209	20				**114.9**	**25**	
22	**Rohini S/stn**	40		6	**46**			40		6	**46**		
1	Rohini Sec-24 Ckt-I			14.4	**14.4**					14.4	**14.4**	9	
2	Rohini Sec-24 Ckt-II	20		14.4	**34.4**			20		0	**20**	9	
3	Rohini-1			7.2	**7.2**					7.2	**7.2**	3	
4	Rohini-2			13.15	**13.15**					5.95	**5.95**	7	
5	Rohini-3			5.95	**5.95**					5.95	**5.95**	4	
6	Rohini-4			13.15	**13.15**					13.15	**13.15**	9	
7	Rohini-5			13.15	**13.15**					13.15	**13.15**	22	
8	Rohini-6	20		5.95	**25.95**			20		5.95	**25.95**	3	
9	Mangolpuri-1			20.35	**20.35**					5.95	**5.95**	3	
10	Mangolpuri-2	20		5.04	**25.04**			20		0	**20**	13	
11	Saraswati Garden			10.08	**10.08**					5.04	**5.04**	4	
12	Pitam Pura-1	20		12.24	**32.24**			20		5.04	**25.04**	14	
13	Pitam Pura-2			12.24	**12.24**					0	**0**	0	
14	Pitam Pura-3			7.2	**7.2**					7.2	**7.2**	4	
15	Rohini DC-1			14.4	**14.4**					14.4	**14.4**		
	Total				**294.9**	317	21				**229.4**	**104**	

Sl. No	SUB-STATION	INSTALLED CAPACITY IN MVAR				Load IN		WORKING CAPACITY IN MVAR				Lumped Load IN	
		66KV	33kV	11kV	**TOTAL**	MW	MVAR	66KV	33kV	11kV	**TOTAL**	MW	MVAR
23	**Kanjhawala S/stn**	20		5.04	**25.04**			20		5.04	**25.04**		
1	Bawana Clear Water			14.4	**14.4**					7.2	**7.2**	3	
2	Pooth Khoord			7.2	**7.2**					7.2	**7.2**	3	
3	Ghevra			14.4	**14.4**					14.4	**14.4**		
	Total				**61.04**	58	-13				**53.84**	**6**	
24	**BAWANA S/stn**												
1	Bawana S/stn No. 6				**0**						**0**		
2	Bawana S/stn No. 7				**0**						**0**		
	Total				**0**	47	20				**0**		
25	**Kashmeregate S/stn**			5.04	**5.04**					5.04	**5.04**		
1	Civil lines			6	**6**					6	**6**	9	
2	Town Hall			8.64	**8.64**					8.64	**8.64**	8	
3	Fountain			5.45	**5.45**					5.45	**5.45**	4	
	Total				**25.13**	50	7				**25.13**	**21**	
26	**Pappankalan-II**												
1	DMRC-I												
2	DMRC-II												
	Total					99	12						
	TOTAL CAPACITY				**3636**	**4687**	**604**				**2502**	**1635**	

20 DETAILS OF BREAK-DOWNS DURING THE MONTH OF JULY 2011

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
01	01.07.11	07.35	66/11KV 20MVA PR. TR-II AT VASANT KUNJ	01.07.11	07.43	TR. TRIPPED ON 86
02	01.07.11	07.44	220KV LODHI ROAD – MAHARANI BAGH CKT	01.07.11	08.35	CKT. TRIPPED ON DIST PROT L-1, L-2 AT MAHARANI BAGH. NO TRIPPING AT LODHI ROAD.
03	02.07.11	07.44	220/33KV 100MVA PR. TR.-III & IV AT OKHLA	02.07.11	08.20	TR.-III TRIPPED ON 86 AND TR.-IV TRIPPED ON 86, 51 `R' PHASE ALONG WITH 33KV I/C-I, III & IV. 33KV I/C-I TRIPPED ON SUPERVISION, 86, 33KV I/C-III TRIPPED ON 51 `R' PHASE, O/C, 86. 33KV I/C-I CHARGED AT 08.15HRS, I/C-III & IV CHARGED 07.55HRS.
04	02.07.11	13.49	220KV MASDJI MOTH - MAHARANI BAGH CKT	02.07.11	20.18	CKT. TRIPPED ON DIST PROT `AB' PHASE ZONE-I, 86, 75B AT MASJID MOTH. NO TRIPPING AT MAHARANI BAGH
05	03.07.11	00.59	400KV BAWANA – ABDULLAPUR CKT-I	03.07.11	01.25	CKT. TRIPPED ON 86B, TIMER, OVER VOLTAGE 2/5Q, L-2, 186A&B AT BAWANA.
06	03.07.11	11.40	220KV IP – RPH CKT-II	03.07.11	15.15	CKT. TRIPPED ON DIRECTIONAL E/F, AUTO RECLOSE LOCK OUT AT IP.
07	03.07.11	23.43	220KV MEHRAULI – DIAL CKT-II	04.07.11	01.16	CKT. TRIPPED ON DIST PROT `B' PHASE AT DIAL.
08	04.07.11	00.23	220KV BTPS – OKHLA CKT-II	04.07.11	00.40	CKT. TRIPPED ON E/F AT BTPS. NO TRIPPING AT OHLA
09	04.07.11	09.14	220/66KV 100MVA PR. TR--II AT KANJHAWALA	04.07.11	11.50	TR. TRIPPED ON 75V.
10	06.07.11	14.16	33/11KV 16MVA PR. TR.-I AT SUBZI MANDI	06.07.11	15.43	TR. TRIPPED ON PRV, 86 ALONG WITH ITS 11KV I/C-I WHICH TRIPPED ON INTER TRIPPING.
11	08.07.11	09.07	220/33KV 100MVA PR. TR.-II AT LODHI ROAD	08.07.11	11.18	TR. TRIPPED ON AUTO RECLOSE LOCK OUT, LBB PROTECTION, TIMER 2/50C, 86B, E/F, 67NX, 186A, 186B ALONG WITH 33KV I/C-II WHICH TRIPPED WITHOUT INDICATION
12	09.07.11	02.16	33/11KV 16MVA PR. TR. AT SHALIMAR BAGH	09.07.11	05.35	TR. TRIPPED ON 87
13	09.07.11	08.29	220KV BAWANA – SHALIMAR BAGH CKT-I	09.07.11	08.45	CKT. TRIPPED ON DIST PROT `R' PHASE AT BAWANA. NO TRIPPING AT SHALIMAR BAGH.
14	09.07.11	14.08	220KV PATPARGANJ – GEETA COLONY CKT-II	09.07.11	14.20	CKT. TRIPPED ON DIST PROT `ABC' PHASE GEETA COLONY. NO TRIPPING AT PATPARGANJ.
15	10.07.11	17.24	220KV WAZIRABAD – KASHMIRI GATE CKT-I	10.07.11	17.40	CKT. TRIPPED ON DIST PROT `RYB' PHASE ZONE-I AT WAZIRABAD. NO TRIPING AT KASHMIRI GATE.
16	14.07.11	03.20	220KV MASDJI MOTH - MAHARANI BAGH CKT	14.07.11	06.30	CKT. TRIPPED ON DIST PROT `B' PHASE ZONE-I, 86A AT MASJID MOTH AND ON DIST PROT THREE PHASE GROUP-A, 86A, 86B, 50L AT MAHARANI BAGH
17	14.07.11	20.52	220/33KV 100MVA PR. TR.-I AT LODHI ROAD	14.07.11	21.13	TR. TRIPPED ON 86B, O/C, 67AX, ALONG WITH 33KV I/C-I WHICH TRIPPED ON 186B-1, 51A, O/C.
18	15.07.11	16.02	400/220KV ICT-IV AT MUNDKA	16.07.11	18.54	315MVA ICT-IV TRIPPED ON 86A, SUPERVISION RELAY.
19	18.07.11	18.17	400/220KV 315MVA ICT-IV AT MUNDKA	21.07.11	19.22	CB-41652 OF ICT-IV TRIPPED ON REF PROTECTION, 86B.
20	19.07.11	06.47	220/66KV 100MVA PR. TR.-III AT WAZIRABAD	19.07.11	08.21	TR. TRIPPED ON 87T, ALONG WITH ITS 66KV I/C-III WHICH TRIPPED ON INTER TRIPPING.

21	20.07.11	15.40	220KV BAMNAULI – DIAL CKT-I	20.07.11	16.02	CKT. TRIPPED ON REL FUSE FAI, REL GEPR, BSRR, MAIN-I PHASE-II TRIP, REL MAIN-I PROTECTOR, M-I REL `R' PHASE TRIP, MAIN-I PROTECTION TRIP, REL CARRIER SEND, REL-`R' PHASE FAULTY, RED DIFF. TRIP, REL MAIN-II, ZONE-I, RED ZONE-II, MAIN-I, ZONE-I AT DIAL AND ON 186A, 186B, FACIA CB, AUTO TRIP, AUTO RECLOSE LOCK OUT AT BAMNAULI.
22	22.07.11	09.32	220/66KV 100MVA PR. TR.-II AT NARELA	22.07.11	09.54	TR. TRIPPED ON 87 ALONG WITH 66KV I/C-II WHICH TRIPPED ON TRIP CKT. FAULTY
23	24.07.11	02.40	220/66KV 160MVA PR. TR.-I AT PRAGATI	24.07.11	10.30	TR. TRIPPED ON 86 ALONG WITH ITS 66KV I/C-I WHICH TRIPPED WITHOUT INDICATION.
24	24.07.11	20.22	220/33KV 100MVA PR. TR.-I AT IP	24.07.11	20.35	TR. TRIPPED WITHOUT INDICATION ALONG WITH 33KV I/C-I WHICH TRIPPED ON E/F LV SIDE.
25	27.07.11	14.39	400/220KV ICT-IV AT MUNDKA	28.07.11	18.05	ICT-IV TRIPPED ON OLTC BUCHLOZ, 86B. 220KV I/C-IV ALSO TRIPPED WITHOUT INDICATION
26	28.07.11	06.04	400KV BALLABHGARH – BAMNAULI CKT-II	28.07.11	18.17	CKT. TRIPPED ON CNZ-I AT BAMNAULI.
27	28.07.11	06.04	400KV BAMNAULI – MUNDKA CKT-I & II	28.07.11	08.47	BOTH CKT. TRIPPED ON AUTO RECLOSE LOCK OUT, 86B AT MUNDKA.
28	28.07.11	13.49	400KV MANDOLA – BAWANA CKT-I	29.07.11	03.05	CKT. TRIPPED ON OVER VOLTAGE, CVT FAILURE OF `Y' PHASE AT MANDOLA. CKT. TRIPPED ON 85, 186A, DIRECT TRIP, CARRIER LOCK OUT AT BAWANA.
29	29.07.11	02.25	220/33KV I/C-IV AT PATPARGANJ	29.07.11	03.00	TR. TRIPPED ON 30A, OLTC BUCHLOZ, 30F, PRV, DIFFERENTIAL FACIA, 87A, 87, E/F LV, 64RLV ALONG WITH 33KV I/C-IV WHICH TRIPPED ON 86.
30	30.07.11	16.52	400/220KV 315MVA ICT-I AT BAMNAULI	30.07.11	16.57	ICT TRIPPED ON 186A, 186B, 30AE, 30XYZ, TIMER RELAY FAIL.
31	31.07.11	15.12	220KV GEETA COLONY – PATPARGANJ CKT-I	31.07.11	15.19	CKT. TRIPPED ON MAIN-I : DIST PROT ABC PHASE, ZONE-II, MAIN-II, DIST PROT ABC PHASE ZONE-II AT GEETA COLONY. NO TRIPPING AT PATPARGANJ.
32	31.07.11	15.12	220KV IP – PATPAR GANJ CKT-I	31.07.11	15.39	CKT. TRIPPED ON 186, 86, LOCK OUT, DIST PROT `ABC' PHASE ZONE-II AT IP.
33	31.07.11	18.35	400/220KV ICT-I AT BAMNAULI	31.07.11	21.02	ICT TRIPPED ON 30K, 186A&B, 52X, 86A, TRIP GROUP-I, 197 FUSE FAIL, BUCHLOZ, 30V, 30X, 30X, 30A ALONG WITH 220KV I/C-I WHICH TRIPPED ON INTER TRIPPING

20 DETAILS OF UNDER FREQUENCY RELAY OPERATIONS IN DELHI POWER SYSTEM DURING THE MONTH OF JULY 2011

DATE	S. N.	TIME		Name of Grid	NAME OF AFFECTED FEEDERS	LOAD RELIEF IN MW
		OUT	IN			
26.07.11	1A	14:54	14:59	NARAINA 220kV	33kV INDERPURI CKT.	9
	1B	14:54	15:04	NARAINA 220kV	33kV PVR PAYAL CKT, 33kV SARASWATI GARDEN, 11kV LOAD	29