DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

****

NOVEMBER - 2010

1 SALIENT FEATURES OF DELHI POWER SYSTEM

Sr. No.	Features	NOV 2010	NOV 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)**	**3234**	**2916**
	Date	02.11.2010	06.11.2009
	Time	18:45:05	18:31:37
3	**Peak Demand met (MW)**	**3231**	**2916**
	Date	02.11.2010	06.11.2009
	Time	18:45:05	18:31:37
4	Peak Availability (MW)	3045	2843
5	Shortage (-) / Surplus (+) in MW	186	(-)73
6	Percentage Shortage (-) / Surplus (+)	(-)6.11	(-)2.67
7	Maximum Energy Consume in a day (Mus)	55.765	51.746
8	Energy Consumed during the month	**1534.941**	**1467.862**
9	**Load Shedding in Mus**		
A)	Due to Grid Restrictions	0.000	0.000
i)	Under Frequency Relay Operations	0.000	0.000
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	0.005	0.000
	BRPL	0.000	0.000
	BYPL	0.000	0.000
	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	**0.005**	0.000
B)	Due to Constraints in System in Mus		
	DTL	0.131	0.250
	NDPL	0.185	4.379
	BRPL	0.253	0.329
	BYPL	0.296	0.097
	NDMC	0.000	0.000
	MES	0.000	0.000
	Other Agencies	0.029	0.020
	Total	**0.865**	**5.075**
11	**Grand Total in Mus**	**0.870**	**5.075**

2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING NOV. 2010

A) For the month of November 2010

All Figures in MUs

S. No	Stations	Gross Generation	Aux. Consumption	Net Generation	Availability (%)	Backing Down
1.	**RPH**	84.62400	9.37100	75.25300	87.04	0.00000
2.	**GT**	63.75400	2.27600	61.47800	90.18	109.27475
3.	**PPCL**	186.35000	5.01000	181.34000	88.82	24.92750
4.	**BTPS**	303.82043	33.42025	270.40018	102.15	193.96625
	TOTAL	**638.54843**	**50.07725**	**588.47118**		**328.1685**

B) For the Year 2010-11 (Upto November 2010)

Power Station	Effective Capacity (MW)	Net Generation in MUs For Nov 2010	Availability (%) For Nov 2010	PLF (%) For Nov. 2010	Cumulative Generation in MUs upto Nov. 2010 for the year 2010-11	Cumulative Availability in % upto Nov. 2010 for the year 2010-11	Cumulative PLF in % upto Nov. 2010 for the year 2010-11
RPH	135	75.25300	87.04	87.04	404.150	72.82	59.33
GT	270	61.47800	90.18	32.23	821.493	82.39	55.24
PPCL	330	181.34000	88.82	78.01	1577.302	87.89	83.69
BTPS	705	270.40018	102.15	59.21	2681.27077	88.38	70.59
TOTAL	**1440**	**588.47118**			**5484.21577**		

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	26.06.10	11.53	Planned shut-down for over-hauling of generator.
		26.06.10	12.56	26.06.10	14.25	Furnace pressure very low.
		27.06.10	14.28	05.07.10	00.50	Drum level low.
		10.07.10	15.45	10.07.10	20.02	Due to power loss.
		12.07.10	20.05	13.07.10	06.06	Turbine trip
		13.07.10	12.02	13.07.10	13.41	Flame failure
		13.07.10	18.33	13.07.10	20.21	Tripped along wtih trippings of associated transmission lines.
		15.07.10	10.39	19.07.10	13.14	Auxiliary transformer tripped.
		24.07.10	20.23	26.07.10	09.58	Boiler Tube Leakage
		31.07.10	12.25	31.07.10	14.07	Boiler trip.
		01.08.10	07.30	03.08.10	05.25	Furnace pressure very low.
		03.08.10	16.04	03.08.10	17.50	Loss of oil fuels
		08.08.10	07.28	08.08.10	08.10	Flame failure
		22.08.10	00.03	23.08.10	15.28	Flame failure
		25.08.10	03.00	29.08.10	08.25	Ash formed in coal bunker
		30.08.10	11.00	30.08.10	11.02	Flame failure
		09.09.10	20.45	02.09.10	21.10	Boiler tripped
		04.09.10	02.15	04.09.10	10.23	Due to tripping of bus bar
		05.09.10	18.07	07.09.10	02.47	Reserve shut-down
		08.09.10	13.09	08.09.10	22.42	Flame failure
		09.09.10	09.40	09.09.10	11.10	Drum level low
		16.09.10	04.02	18.10.10	06.47	Failure of boiler and due to Commonwealth Games.
		21.10.10	13:05	21.10.10	13:48	Flame failure
		21.10.10	19.57	22.10.10	13.32	Boiler drum trip
		23.10.10	21.40	26.10.10	01.44	No coal flow
		26.10.10	00.24	27.10.10	02.22	Boiler drum trip
		05.11.10	08.44	08.11.10	04.02	Boiler Tube Leakage
		17.11.10	13.13	20.11.10	17.00	Boiler Tube Leakage
2	67.5	02.04.10	14.55	02.04.10	16.45	Tripped along wtih 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 along wtih 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 level low
		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

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	**67.5**	02.06.10	06.25	02.06.10	07.24	Electrical problem
		13.06.10	15.42	13.06.10	18.39	Tripped along wtih trippings of associated transmission lines.
		22.06.10	07.48	22.06.10	09.09	Furnace pressure low
		07.07.10	10.55	07.07.10	12.08	Flame failure
		10.07.10	15.45	10.07.10	20.01	Tripped along wtih trippings of associated transmission lines.
		19.07.10	14.39	19.07.10	15.19	Turbine tripped
		20.07.10	18.12	20.07.10	19.57	Turbine tripped.
		21.07.10	04.45	21.07.10	05.47	Turbine tripped.
		25.07.10	12.16	25.07.10	15.10	Under frequency relay operated
		11.08.10	11.24	11.08.10	11.54	High furnace pressure
		22.08.10	09.37	22.08.10	19.11	Coal flow very low
		03.09.10	19.37	04.09.10	01.01	Due to bus bar tripping
		05.09.10	10.25	18.10.10	06.34	Boiler tube leakage. Machines could not be synchronized due to CWG
		18.10.10	09.42	18.10.10	10.37	Boiler drum tripped
		20.10.10	15.54	21.07.10	22.00	Turbine tripped
		24.10.10	14.38	24.10.10	21.24	Turbine tripped
		28.10.10	00.15	31.10.10	19.20	Boiler tube leakage
		13.11.10	16.42	18.11.10	17.25	Electrical Problem

(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 11KV Breaker
		30.05.10	12.55	31.05.10	11.12	Stopped due to high under drawal at high frequency.
		07.06.10	09.22	08.06.10	21.08	
		10.06.10	00.10	10.06.10	08.07	Due to overloading of 160 MVA Tx
		02.07.10	15.12	07.01.20	15.54	Gas fuel hydraulic trip pressure low
		04.07.10	21.31	05.07.10	13.28	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due high frequency
		06.07.10	07.37	06.07.10	09.15	Tripped due to tripping of 160 MVA TX at IP End.
		08.07.10	07.15	08.07.10	13.00	Gas fuel hydraulic trip pressure low
		08.07.10	13.00	08.07.10	21.10	Stopped due to high under drawal at high frequency.
		12.07.10	11.02	12.07.10	12.05	Gas fuel hydraulic trip pressure low
		12.07.10	20.15	14.07.10	02.42	Stopped due to high under drawal at high frequency.
		14.07.10	06.04	14.07.10	06.55	Gas fuel hydraulic trip pressure low
		14.07.10	19.42	14.07.10	20.40	Gas fuel hydraulic trip pressure low
		18.07.10	07.24	18.07.10	14.19	Due to shut-down of 160 MVA Tx.
		20.07.10	15.31	21.07.10	07.52	Stopped due to high under drawal at high frequency.
		22.07.10	18.50	24.07.10	14.55	
		25.07.10	00.02	29.07.10	11.27	
		31.07.10	11.00	12.08.10	11.27	

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	30	12.08.10	18.55	14.08.10	22.18	C&I Problem. After clearance from C&I GT not taken on load due to swapping of gas to PPCL
		15.08.10	11.08	28.08.10	23.10	Stopped due to high under drawal at high freq. Machine could not sync-hronized after 15:30hrs. as voltage not build up more than 9.5KV.
		03.09.10	09.02	30.09.10	14.22	Stopped due to high under drawal at high frequency.
		10.04.10	06.05	06.10.10	10.55	
		11.10.10	12.15	11.10.10	13.25	Problem in emergency push button switch
		26.10.10	00.02	26.11.10	10.50	Stopped due to high under drawal at high frequency
		26.11.10	12.05	29.11.10	05.50	
		30.11.10	00.15	30.11.10	06.55	
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	Machine stopped to avoid overloading of 160 Mva Tx as one 100MVA Transformer was under replacement with 160MVA Tx at IP Extension
		07.06.10	14.19	07.06.10	18.55	
		20.06.10	08.35	20.06.10	11.02	Tripped without any alarm
		04.07.10	21.31	05.07.10	07.47	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due to high freq.
		06.07.10	07.23	06.07.10	10.03	Tripped due to tripping of 160 MVA TX at IP End.
		08.07.10	14.58	08.07.10	19.32	
		12.07.10	21.12	13.07.10	21.39	Stopped due to high under drawal at high frequency.
		18.07.10	07.58	18.07.10	12.26	Due to shut-down of 160 MVA Tx.
		20.07.10	13.01	21.07.10	04.13	Stopped due to high under drawal at high frequency.
		22.07.10	21.47	24.07.10	07.35	
		25.07.10	01.50	29.07.10	13.18	
		31.07.10	11.00	09.08.10	12.31	
		11.08.10	18.25	12.08.10	11.20	
		12.08.10	12.48	12.08.10	19.45	
		13.08.10	12.30	28.08.10	15.15	Swapping of gas to PPCL.
		01.09.10	22.33	01.10.10	16.00	Stopped due to low demand and high frequency.
		01.10.10	16.00	10.01.10	18.40	Oil leakage from load gear box
		26.10.10	00.02	29.11.10	06.10	Stopped due to low demand and 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.
		01.06.10	23.55	02.06.10	08.28	To avoid overloading of 160MVA Tx
		04.06.10	12.02	04.06.10	16.04	Condensate level high.
		06.06.10	09.42	07.06.10	14.10	To avoid overloading of 160 Mva Tx as one 100MVA Tx was under replacement with 160MVA Tx at IP Extension
		14.06.10	09.24	14.06.10	11.08	
		04.07.10	21.31	12.07.10	09.00	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due SLDC message to maintain schedule of 80 MW.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
3	30	12.07.10	09.00	12.07.10	14.15	Machine not available due to problem in Diesel Engine of GT
		12.07.10	14.15	14.07.10	10.25	Stopped due to high under drawal at high frequency.
		17.07.10	12.20	19.07.10	15.42	Loss of Excitation.
		20.07.10	15.22	23.07.10	12.01	To regulate the load of Radial feeders as 160MVA Tx tripped on Buchholtz relay. After 19:17 hrs machine not taken on bar due to low demand
		11.08.10	17.55	12.08.10	12.39	Stopped due to high under drawal at high frequency.
		13.08.10	12.32	14.08.10	06.15	Due to swapping of gas to PPCL.
		15.08.10	11.00	15.08.10	17.13	Stopped due to high under drawal at high frequency.
		26.08.10	19.32	27.08.10	07.20	
		02.09.10	00.20	06.09.10	12.01	
		06.09.10	13.54	06.09.10	15.15	Machine tripped on Y-Phase Bus Bar differential relay on BB-3 and BB-4.
		10.09.10	16.04	28.09.10	18.25	Stopped due to high under drawal at high frequency.
		01.10.10	00.35	01.10.10	01.15	Due to problem in CRT
		15.10.10	22.20	19.10.10	23.59	Gas restriction
		25.10.10	14.05	25.10.10	18.44	Gas restriction
		28.10.10	16.41	30.11.10	23.59	Due to low demand and high freq.
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
		03.06.10	14.10	03.06.10	15.30	Generator Stator overheating alarm
		05.06.10	05.46	07.06.10	08.29	To avoid overloading of 160 Mva Tx as one 100MVA Tx was under replacement with 160MVA Tx at IP Extension
		28.06.10	01.10	28.06.10	01.50	Came on FSNL
		29.06.10	14.50	29.06.10	16.10	Tripped without any alarm
		14.07.10	21.31	12.07.10	09.00	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due to low demand.
		12.07.10	09.00	12.07.10	18.15	Problem in DC EOP of GT
		12.07.10	18.15	14.07.10	11.33	Stopped due to high under drawal at high frequency.
		14.07.10	11.33	16.07.10	17.25	Due to problem in Mark-VI
		20.07.10	15.35	20.07.10	16.27	Machine came on FSNl due to jerk in the system
		20.07.10	21.01	24.07.10	05.45	Stopped due to high under drawal at high frequency.
		19.08.10	14.39	19.08.10	16.57	Tripped on loss of flame.
		19.08.10	17.35	19.08.10	22.53	Stopped due to high under drawal at high frequency.
		05.09.10	07.50	05.09.10	11.25	Tripped on following alarms lost communication with Controller R,S &T. Field failure alarm appeared on protection panel.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
4	**30**	06.09.10	13.54	06.09.10	14.35	Machine tripped on Y-Phase Bus Bar differential relay on BB-3 &4
		15.09.10	15.10	15.09.10	15.48	Machine came on FSNL due tripping of 160 MVA Tx
		22.09.10	21.11	28.09.10	11.57	Stopped due to high under drawal at high frequency.
		18.10.10	07.30	18.10.10	10.27	Tripped on Generator GAC Electrical Problem alarm
		25.10.10	14.10	29.11.10	19.57	Due to low demand and high freq.
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.
		01.06.10	20.50	01.06.10	23.16	GT came on FSNL
		03.06.10	01.15	03.06.10	08.09	To avoid overloading of 160 Mva Tx as one 100MVA Tx was under replacement with 160MVA Tx at IP Extension
		03.06.10	20.15	04.06.10	08.33	
		07.06.10	21.43	09.06.10	15.45	
		25.06.10	09.40	25.06.10	15.25	
		26.06.10	00.05	26.06.10	05.56	
		26.06.10	09.50	28.06.10	12.20	
		14.07.10	21.31	14.07.10	22.20	Tripped due to tripping of 160 MVA TX at IP End.
		05.07.10	13.45	08.07.10	10.55	Machine stopped as per SLDC message to maintain load of 110 MW
		08.07.10	14.58	08.07.10	20.10	Tripped due to tripping of 160 MVA TX at IP End on Buckholtz relay.
		18.07.10	07.55	18.07.10	12.20	Due to shut-down of 160 MVA Tx.
		20.07.10	15.35	20.07.10	19.18	Machine came on FSNl due to jerk in the system
		21.07.10	09.31	22.07.10	18.46	Stopped due to high frequency and low demand
		31.07.10	11.00	01.08.10	12.57	
		13.08.10	18.25	14.08.10	06.18	Due to swapping of gas to PPCL.
		15.08.10	18.40	17.08.10	16.25	Stopped due to high frequency and low demand
		24.08.10	11.07	01.09.10	23.18	
		06.09.10	13.54	06.09.10	17.45	Machine tripped on Y-Ph Bus Bar differential relay on BB-3 and BB-4.
		08.09.10	09.30	10.09.10	14.55	Stopped due to high frequency and low demand
		15.09.10	15.10	15.09.10	16.12	Machine came on FSNL due tripping of 160 MVA Tx
		28.09.10	15.10	30.09.10	15.14	Stopped due to high frequency and low demand
		15.10.10	09.00	15.10.10	15.45	
		28.10.10	11.30	28.10.10	15.55	
		19.11.10	20.10	19.11.10	22.29	Machine tripped on Battery under voltage alarm
		26.11.10	00.10	26.11.10	02.18	TAD high
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	
		27.05.10	14.12	27.05.10	14.55	

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
6	**30**	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.
		03.06.10	14.42	03.06.10	15.29	Machine came on FSNL due to Combustion trouble and flame detector trouble
		04.06.10	22.32	05.06.10	06.45	To avoid overloading of 160 MVA Tx as one 100MVA Tx was under replacement with 160MVA Tx at IP Extension
		07.06.10	19.55	09.06.10	14.35	
		25.06.10	18.53	28.06.10	18.50	Gas fuel control oil pressure low.
		30.06.10	17.05	30.06.10	18.58	Stopped as required by Prot.n Deptt
		04.07.10	21.31	04.07.10	21.42	Due to tripping of 160 MVA TX at IP End.
		06.07.10	07.37	08.07.10	08.20	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due to low demand
		08.07.10	14.58	08.07.10	16.49	Tripped due to tripping of 160 MVA TX at IP End on Buckholtz relay.
		08.07.10	17.25	08.07.10	18.06	Tripped due to tripping of 160 MVA TX at IP End on Buckholtz relay.
		14.07.10	09.32	14.07.10	14.28	To attend hunting in load
		20.07.10	15.35	20.07.10	15.43	Machine came on FSNl due to jerk in the system
		21.07.10	02.27	21.07.10	04.15	Tripped with multiple alarms
		21.07.10	04.15	22.07.10	18.16	Due to low demand and high freq.
		23.07.10	11.20	27.07.10	18.00	Due to smoke from mark VI panel
		27.07.10	18.00	29.07.10	12.17	Stopped due to high frequency and low demand.
		31.07.10	11.00	09.08.10	12.40	
		15.08.10	11.06	17.08.10	15.50	
		19.08.10	21.50	23.08.10	12.25	Due to swapping of gas to PPCL.
		27.08.10	08.25	31.08.10	12.37	Stopped due to high frequency and low demand.
		31.08.10	16.02	01.09.10	18.45	
		06.09.10	13.54	06.09.10	14.44	Machine tripped on Y-Ph Bus Bar differential relay on BB-3 and BB-4.
		15.09.10	15.10	15.09.10	16.12	FSNL due tripping of 160 MVA Tx
		18.09.10	12.15	18.09.10	13.40	Due to failure of IO card
		24.09.10	16.45	24.09.10	17.35	Electrical trouble
		28.09.10	19.15	30.09.10	14.20	Stopped due to high frequency and low demand.
		15.10.10	08.00	15.10.10	19.02	
		19.10.10	20.02	25.10.10	13.50	
		19.11.10	22.10	19.11.10	22.55	Due to failure of communicator
		24.11.10	12.58	24.11.10	13.55	Tripped on Numerical Relay faulty relay
STG1	**30**	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	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.
		07.06.10	14.22	07.06.10	21.35	To avoid overloading of 160MVA Tx as one 100MVA Tx was under replacement with 160MVA Tx at IP Extension

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG1	30	29.06.10	15.32	29.06.10	16.50	Tripped without any alarm
		04.07.10	21.31	05.07.10	09.50	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due SLDC message to maintain schdule of 80 MW.
		06.07.10	07.23	06.07.10	10.58	Tripped due to tripping of 160 MVA TX at IP End .
		08.07.10	14.58	08.07.10	22.10	Tripped due to tripping of 160 MVA TX at IP End .
		09.07.10	23.42	10.07.10	01.50	Tripped on Ch-I&II
		10.07.10	02.38	10.07.10	03.17	
		10.07.10	03.25	10.07.10	03.50	
		10.07.10	03.55	10.07.10	04.42	
		07.10.10	18.32	10.07.10	18.48	
		12.07.10	21.12	13.07.10	23.47	Machine stopped as per SLDC message to maintain load of 80 MW
		18.07.10	07.01	18.07.10	14.14	Due to shut-down of 160 MVA Tx.
		20.07.10	15.31	21.07.10	07.50	To regulate the load of Radial feeders as 160 MVA Tx tripped on Buchholtz relay. After 19:17 hrs machine not taken on bar due to low demand
		22.07.10	21.47	24.07.10	08.25	Machine stopped as per SLDC message to maintain load of 80 MW
		24.07.10	17.04	24.07.10	17.32	Due to tripping of 800 KVA Tx
		25.07.10	01.30	29.07.10	17.50	Stopped due to high frequency and low demand.
		31.07.10	11.00	09.08.10	19.12	
		10.08.10	13.26	10.08.10	15.03	Machine tripped as AOP-1A tripped.
		11.08.10	18.25	12.08.10	14.15	Stopped due to high frequency and low demand.
		12.08.10	18.55	12.08.10	21.40	Tripped due to tripping of GT#1.
		13.08.10	12.30	15.08.10	03.40	Due to swapping of gas to PPCL.
		15.08.10	11.08	28.08.10	20.15	Stopped due to high frequency and low demand.
		03.09.10	09.02	30.09.10	21.28	Stopped due to high frequency and low demand.
		04.10.10	06.41	04.10.10	13.28	Low vacuum
		05.10.10	12.48	05.10.10	15.05	Drum level low
		11.10.10	21.12	12.10.10	01.20	Generator shift vibration very high
		26.10.10	00.02	29.11.10	13.05	Stopped due to high frequency and low demand.
STG2	30	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	To attend condenser backwashing and other leakages
		28.05.10	05.22	28.05.10	08.25	Due to blast in 11 KV Breaker
		01.06.10	10.23	01.06.10	10.40	Low vacuum due to tripping of CEP
		06.06.10	09.42	07.06.10	12.55	To avoid overloading of 160 Mva Tx as one 100MVA Tx was under replacement with 160MVA Tx at IP Extension
		14.06.10	07.32	14.06.10	15.05	Tripped on CH-I & II

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG2	**30**	14.07.10	21.31	12.07.10	09.00	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due SLDC message to maintain schedule of 80 MW.
		12.07.10	09.00	12.07.10	14.15	Due to outage of GT# 3 & 4
		12.07.10	14.15	12.07.10	18.15	HRSG# 4 due to outage of GT# 4
		12.07.10	18.15	14.07.10	12.50	Stopped due to high frequency and low demand.
		18.07.10	06.37	18.07.10	13.35	To attend 160 MVA Tx.
		20.07.10	15.22	23.07.10	14.55	To regulate the load of Radial feeders as 160 MVA Transformer tripped on Buchholtz relay. After 19:17 hrs machine not taken on bar due to low demand
		24.07.10	17.04	24.07.10	17.22	Due to tripping of 800 KVA Tx
		26.07.10	08.55	26.07.10	10.46	Low level vacuum
		06.08.10	15.42	08.08.10	16.50	Machine tripped as Both Boiler Tripp alarm appeared on BCD while the drum level of both HRSG were normal.
		17.08.10	12.42	17.08.10	13.10	Machine tripped as both boiler tripped
		19.08.10	15.22	19.08.10	15.50	Failure of DC supply
		05.09.10	7.25	05.09.10	14.45	Machine tripped due to tripping of GT#4
		06.09.10	13.54	06.09.10	16.15	Machine tripped on Y-Ph Bus Bar differential relay on BB-3 and BB-4.
		07.09.10	09.55	07.09.10	10.28	C&I Problem
		07.09.10	19.15	07.09.10	21.32	Machine tripped due to jerk.
		15.09.10	15.10	15.09.10	17.09	Machine tripped due to tripping of 160 MVA Tx
		22.09.10	21.11	28.09.10	14.55	Stopped due to high frequency.
		18.10.10	07.30	18.10.10	11.66	Machine tripped due to tripping of GT-4
		25.10.10	14.10	25.10.10	20.17	Stopped due to high frequency and low demand.
		28.10.10	16.41	29.11.10	23.45	
STG3	**30**	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 alarm
		29.04.10	11.06	29.04.10	15.15	Plunger coil trip alarm
		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.
		07.06.10	21.43	09.06.10	17.25	To avoid overloading of 160 MVA Tx as 100MVA Tx under replace ment with 160MVA Tx at IP Ext.
		25.06.10	18.53	28.06.10	23.59	Tripped due to tripping of GT#6
		04.07.10	21.31	14.07.10	23.10	Tripped due to tripping of 160 MVA TX at IP End.
		06.07.10	07.23	08.07.10	11.13	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due to low demand
		08.07.10	12.20	08.07.10	21.28	Due to oil leakages observe in ESV.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG3	**30**	10.07.10	18.48	10.07.10	19.50	Due to disappearance of Parameters
		18.07.10	06.37	18.07.10	13.55	Due to shut-down of 160 MVA Tx.
		20.07.10	15.07	20.07.10	20.53	Due to tripping of 160 MVA Tx
		21.07.10	09.31	22.07.10	21.15	Stopped due to high frequency and low demand.
		31.07.10	11.00	09.08.10	17.05	
		15.08.10	18.40	17.08.10	23.59	Stopped due to high frequency and low demand.
		20.08.10	17.10	20.08.10	19.25	Machine tripped on low vacuum.
		21.08.10	09.52	21.08.10	11.12	Machine tripped on low vacuum.
		27.08.10	08.25	01.09.10	22.25	Stopped due to high frequency and low demand.
		06.09.10	13.54	06.09.10	16.52	Machine tripped on Y-Ph Bus Bar differential relay on BB-3 and BB-4.
		07.09.10	19.19	07.09.10	20.53	Machine tripped due to jerk.
		07.09.10	22.00	07.09.10	23.15	Machine tripped on false alarm of Hot well level very high though the level was normal.
		08.09.10	12.41	09.09.10	00.46	
		15.09.10	15.10	15.09.10	17.15	Machine tripped due to tripping of 160 MVA Tx
		28.09.10	19.15	30.09.10	16.50	Gas restriction
		15.10.10	09.00	15.10.10	17.26	
		20.10.10	06.45	20.10.10	08.57	Due to tripping of LOP of Boiler Feed Pump
		19.11.10	22.10	19.11.10	23.10	Tripped along with tripping of GT-6
		24.11.10	00.42	24.11.10	01.28	Low vacuum

(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.
		09.06.10	17.38	09.06.10	22.56	Internal fault.
		13.06.10	15.38	13.06.10	16.55	Tripped alongwtih trippings of associated transmission lines.
		04.07.10	21.26	04.07.10	22.20	
		10.07.10	15.47	10.07.10	16.56	
		13.07.10	18.29	13.07.10	19.10	
		27.07.10	18.50	28.07.10	04.18	Due to firing in underneath bearings.
		01.08.10	09.00	02.08.10	12.18	Due to low demand and high frequency
		15.08.10	00.00	16.08.10	09.12	
		03.09.10	16.59	03.09.10	18.12	Problem in generator transformer
		03.09.10	23.30	04.09.10	02.40	Problem in turbine
		16.09.10	15.12	16.09.10	16.16	Tripped alongwtih trippings of associated transmission lines.
		26.09.10	14.35	26.09.10	15.44	
		11.10.10	04.18	11.10.10	09.48	Boiler feed pump tripped.
		14.10.10	17.10	14.10.10	17.44	Boiler feed pump tripped.
2	104	09.06.10	15.41	09.06.10	16.50	Mark-V fuse tripped.
		03.09.10	16.59	03.09.10	19.43	Problem in generator transformer
		05.09.10	11.30	06.09.10	09.20	Reserve shut-down

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	104	16.09.10	15.12	16.09.10	15.59	Tripped alongwtih trippings of associated transmission lines.
		19.09.10	10.00	20.09.10	10.16	Generation back down due to low demand and high frequency
		19.10.10	21.08	20.10.10	01.55	Internal fault
		20.10.10	02.28	08.11.10	13.02	Fault in oil pressure pump
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	17.00	
		14.05.10	15.32	14.05.10	16.27	Tripped due to tripping of associated transmission lines
		13.06.10	15.38	13.06.10	17.40	
		01.07.10	17.09	01.07.10	18.10	Internal fault
		04.07.10	21.26	04.07.10	23.00	Tripped due to tripping of associated transmission lines
		10.07.10	15.47	10.07.10	16.43	
		13.07.10	18.29	13.07.10	19.25	
		17.07.10	13.30	17.07.10	17.19	Exitor vibration problem
		19.07.10	15.05	19.07.10	19.13	
		03.09.10	16.59	03.9.10	19.05	Problem in generator transformer
		16.09.10	15.22	16.09.10	17.34	Tripped due to tripping of associated transmission lines
		28.09.10	14.35	26.09.10	15.35	
		11.10.10	04.18	11.10.10	06.28	Boiler feed pump tripped
		14.10.10	17.10	14.10.10	17.58	Boiler feed pump tripped
		29.10.10	14.45	29.10.10	15.34	Water level low in drum
		29.11.10	07.12	29.11.10	08.28	Internal fault

(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
		13.07.10	12.02			Flame failure
		27.07.10	12.27	28.07.10	19.40	Generation back down due to low demand and high frequency.
		21.08.10	14.24	21.04.10	17.24	
		23.09.10	06.20	23.09.10	08.56	Boiler problem
		26.09.10	09.23	26.09.10	10.39	Boiler problem
		23.11.10	17.42	04.12.10	19.45	Generation back down due to low demand and high frequency.
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
		05.06.10	14.31	07.06.10	07.55	Generation back down due to low demand and high frequency.
		09.07.10	11.40	09.07.10	13.00	Electrical fault
		20.08.10	18.22	28.08.10	17.39	Generation back down due to low demand and high frequency.

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	95	02.09.10	18.47	02.09.10	20.04	Due to tripping of associated transmission lines
		09.09.10	00.19	15.09.10	02.52	Reserve shut-down
		06.10.10	04.18	08.10.10	07.10	Electrical problem
		12.11.10	18.20	12.11.10	20.58	Tripped on jerk due to tripping of 220kV BTPS – Alwar Ckt.
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
		29.06.10	22.56	03.07.10	19.02	Boiler Tube Leakage
		31.07.10	17.30	31.07.10	20.46	FD fan tripped
		25.08.10	19.34	28.08.10	11.15	Generation back down due to low demand and high frequency.
		26.09.10	02.23	29.09.10	03.05	
		12.11.10	18.20	12.11.10	21.22	Tripped on jerk due to tripping of 220kV BTPS – Alwar Ckt
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
		07.06.10	16.20	14.6.10	12.52	Generation back down due to heavy under drawal and high frequency
		19.06.10	19.43	20.06.10	19.10	Boiler Tube Leakage
		04.07.10	12.29	26.08.10	12.19	Planned shut-down for maintenance
		30.08.10	12.15	01.09.10	08.19	Boiler Tube Leakage
		10.09.10	18.03	10.09.10	21.18	Cooling system problem
		15.09.10	23.46	22.09.10	03.00	Generation back down due to high frequency and low demand.
		29.09.10	04.30	01.10.10	20.09	
		06.10.10	09.44	07.10.10	10.50	Boiler Tube Leakage
		07.10.10	19.50	08.10.10	12.37	Boiler Tube Leakage
		08.10.10	14.08	19.10.10	16.12	Boiler Tube Leakage
		20.10.10	22.10	21.10.10	15.50	Internal Fault
		27.10.10	23.50	23.11.10	15.40	Generation back down due to high frequency and low demand.
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
		14.07.10	04.50	14.07.10	07.35	Electrical problem
		05.09.10	12.42	08.09.10	20.05	Reserve shut-down
		15.09.10	04.41	15.09.10	23.15	Stopped due to high frequency and low demand.
		23.09.10	17.06	26.09.10	01.14	
		03.10.10	10.16	01.11.10	15.30	Boiler Tube Leakage
		01.11.10	15.48	01.11.10	16.35	Boiler Tube Leakage
		04.11.10	18.20	05.11.10	19.27	Boiler Tube Leakage
		12.11.10	12.18	13.11.10	14.57	Boiler Tube Leakage

4 ALLOCATION OF POWER TO DELHI

A) Allocation from Unallocated quota of Central Sector Generating Stations to Delhi w.e.f.01.10.2010

i) TIME BLOCK - 00.00-10.00hrs. and 23.00hrs. - 24.00hrs @ 0%

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
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**	**1619**	**3020**	**2665**	**0**	**0**	**2665**
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	**21886**	**1772**	**3309**	**2907**	**0**	**0**	**2907**

ii) Time Block 10.00HRS. - 18.00hrs. @ 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	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	44
Unchahaar-III TPS	210	31	29	25	2	2	27
TOTAL	**8782**	**1005**	**2321**	**2029**	**58**	**51**	**2080**
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	3	3	41
URI HEP	480	0	53	50	0	0	50
Sewa HEP	120	18	16	15	1	1	16
Dhauli Ganga HEP	280	42	37	35	3	3	38
Dulhasti HEP	390	58	50	48	4	4	51
TOTAL	**3074**	**172**	**351**	**333**	**11**	**10**	**344**
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	4	4	52
TOTAL	**1320**	**194**	**103**	**89**	**8**	**7**	**96**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	9	9	132
THDC							
Tehri Hydro	1000	99	103	89	6	6	95
Total	**15676**	**1619**	**3020**	**2665**	**93**	**83**	**2748**
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	**21886**	**1772**	**3309**	**2907**	**93**	**83**	**2990**

iii) Time Block 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)
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	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	44
Unchahaar-III TPS	210	31	29	25	2	2	27
TOTAL	**8782**	**1005**	**2321**	**2029**	**58**	**51**	**2080**
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	3	3	41
URI HEP	480	0	53	50	0	0	50
Sewa HEP	120	18	16	15	1	1	16
Dhauli Ganga HEP	280	42	37	35	3	3	38
Dulhasti HEP	390	58	50	48	4	4	51
TOTAL	**3074**	**172**	**351**	**333**	**11**	**10**	**344**
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	4	4	52
TOTAL	**1320**	**194**	**103**	**89**	**22**	**19**	**109**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	9	9	132
THDC							
Tehri Hydro	1000	99	103	89	6	6	95
Total	**15676**	**1619**	**3020**	**2665**	**107**	**96**	**2760**
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	**21886**	**1772**	**3309**	**2907**	**107**	**96**	**3002**

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 NOVEMBER 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
		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	18:30:00	120	82	144	388	20	754	2393	2467	74	**3147**	0	3147
2	**18:45:05**	121	82	145	391	20	759	2472	2286	-186	**3231**	**3**	3234
3	18:40:20	124	82	144	405	20	775	2389	2226	-163	**3164**	0	3164
4	18:18:19	121	83	144	415	20	783	2345	2452	107	**3128**	0	3128
5	18:44:14	60	81	143	220	20	524	2369	2440	71	**2893**	0	2893
6	19:03:34	58	81	142	358	20	659	2023	2088	65	**2682**	3	2685
7	19:29:02	62	81	144	360	20	667	2021	1940	-81	**2688**	0	2688
8	18:31:37	123	80	268	381	20	872	2204	2432	228	**3076**	0	3076
9	18:46:26	125	84	275	354	0	838	2281	2179	-102	**3119**	0	3119
10	18:33:41	122	81	307	417	20	947	2253	2179	-74	**3200**	3	3203
11	18:29:58	124	81	297	351	20	873	2181	2096	-85	**3054**	0	3054
12	19:00:00	118	80	304	50	20	572	2289	2288	-1	**2861**	19	2880
13	18:50:38	122	82	303	381	0	888	1929	1858	-71	**2817**	5	2822
14	18:45:06	122	80	265	354	30	851	1837	1646	-191	**2688**	0	2688
15	18:03:11	117	79	263	372	28	859	2038	1768	-270	**2897**	0	2897
16	18:19:00	153	81	309	384	30	957	1994	1885	-109	**2951**	0	2951
17	18:30:00	60	80	297	361	30	828	1880	1693	-187	**2708**	0	2708
18	18:35:08	60	80	309	405	29	883	2087	1932	-155	**2970**	0	2970
19	18:29:36	58	81	312	363	30	844	2044	1976	-68	**2888**	0	2888
20	18:25:41	58	84	270	359	30	801	1974	2022	48	**2775**	0	2775
21	19:01:09	114	83	271	347	0	815	1747	1496	-251	**2562**	0	2562
22	18:18:08	113	83	314	352	3	865	1982	1829	-153	**2847**	0	2847
23	18:45:56	118	84	267	383	30	882	2018	1834	-184	**2900**	6	2906
24	18:51:11	115	83	319	364	30	911	1998	1740	-258	**2909**	5	2914
25	18:49:24	118	82	315	395	30	940	2041	1827	-214	**2981**	0	2981
26	18:55:51	116	82	314	458	0	970	1941	1800	-141	**2911**	0	2911
27	18:34:57	114	83	315	438	15	965	1938	1844	-94	**2903**	0	2903
28	10:28:56	114	83	316	464	0	977	1717	1584	-133	**2694**	0	2694
29	18:42:44	114	160	314	425	30	1043	1823	1828	5	**2866**	0	2866
30	18:30:00	114	239	317	405	29	1104	1792	1824	32	**2896**	0	2896

7 POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF MAXIMUM UNRESTRICTED DEMAND DURING NOEMBER 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	18:30:00	120	82	144	388	20	754	2393	2467	74	**3147**	0	3147
2	**18:45:05**	121	82	145	391	20	759	2472	2286	-186	**3231**	**3**	3234
3	18:40:20	124	82	144	405	20	775	2389	2226	-163	**3164**	0	3164
4	18:18:19	121	83	144	415	20	783	2345	2452	107	**3128**	0	3128
5	18:44:14	60	81	143	220	20	524	2369	2440	71	**2893**	0	2893
6	19:03:34	58	81	142	358	20	659	2023	2088	65	**2682**	3	2685
7	19:29:02	62	81	144	360	20	667	2021	1940	-81	**2688**	0	2688
8	18:31:37	123	80	268	381	20	872	2204	2432	228	**3076**	0	3076
9	18:46:26	125	84	275	354	0	838	2281	2179	-102	**3119**	0	3119
10	18:33:41	122	81	307	417	20	947	2253	2179	-74	**3200**	3	3203
11	18:29:58	124	81	297	351	20	873	2181	2096	-85	**3054**	0	3054
12	19:00:00	118	80	304	50	20	572	2289	2288	-1	**2861**	19	2880
13	18:50:38	122	82	303	381	0	888	1929	1858	-71	**2817**	5	2822
14	18:45:06	122	80	265	354	30	851	1837	1646	-191	**2688**	0	2688
15	18:03:11	117	79	263	372	28	859	2038	1768	-270	**2897**	0	2897
16	18:19:00	153	81	309	384	30	957	1994	1885	-109	**2951**	0	2951
17	18:30:00	60	80	297	361	30	828	1880	1693	-187	**2708**	0	2708
18	18:35:08	60	80	309	405	29	883	2087	1932	-155	**2970**	0	2970
19	18:29:36	58	81	312	363	30	844	2044	1976	-68	**2888**	0	2888
20	18:25:41	58	84	270	359	30	801	1974	2022	48	**2775**	0	2775
21	19:01:09	114	83	271	347	0	815	1747	1496	-251	**2562**	0	2562
22	18:18:08	113	83	314	352	3	865	1982	1829	-153	**2847**	0	2847
23	18:45:56	118	84	267	383	30	882	2018	1834	-184	**2900**	6	2906
24	18:51:11	115	83	319	364	30	911	1998	1740	-258	**2909**	5	2914
25	18:49:24	118	82	315	395	30	940	2041	1827	-214	**2981**	0	2981
26	18:55:51	116	82	314	458	0	970	1941	1800	-141	**2911**	0	2911
27	18:34:57	114	83	315	438	15	965	1938	1844	-94	**2903**	0	2903
28	10:28:56	114	83	316	464	0	977	1717	1584	-133	**2694**	0	2694
29	18:42:44	114	160	314	425	30	1043	1823	1828	5	**2866**	0	2866
30	18:30:00	114	239	317	405	29	1104	1792	1824	32	**2896**	0	2896

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

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

A (i) RPH	84.624
JHAJJAR SHARE	0.660
NET RPH	83.964
(ii) GT+STG	63.754
(iii) PRAGATI	186.350
(iv) RITHALA	15.899
TOTAL	349.967
B) AVAILABILITY FROM BTPS	268.112
C) AUXILIARY CONSUMPTION OF GENERATING STNs. EXCLUDING BTPS	16.935
D) NET GENERATION AVAILABLE WITHIN DELHI(A+B-C)	**601.144**

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	2.382	2.288	2.382	2.288
SALAL	25.904	25.116	25.904	25.116
TANKAPUR	7.800	7.560	7.777	7.538
CHAMERA	5.784	5.554	5.784	5.554
CHAMERA -II	7.890	7.581	7.890	7.581
DHAULIGANGA	16.680	16.180	16.680	16.180
SEWA -2	2.652	2.571	2.652	2.571
URI	17.476	16.946	17.476	16.946
ANTA (GAS)	19.967	19.194	4.500	4.330
ANTA (RLNG)	3.091	2.979	0.000	0.000
ANTA (LIQUID)	0.000	0.000	0.000	0.000
DADRI (GAS)	508.788	488.486	368.155	353.403
DADRI (RLNG)	19.878	19.272	0.000	0.000
DADRI (LIQUID)	0.464	0.452	0.000	0.000
AURAIYA (GAS)	38.730	37.207	13.833	13.273
AURAIYA (RLNG)	9.304	8.936	0.028	0.026
AURAIYA (LIQUID)	1.104	1.054	0.000	0.000
SINGRAULI	104.313	101.097	101.611	98.472
RIHAND -I	72.520	70.292	70.620	68.446
RIHAND -II	90.741	87.951	88.241	85.522
UNCHAHAR-I	16.907	16.387	8.729	8.457
UNCHAHAR-II	32.179	31.191	17.172	16.637
UNCHAHAR-III	21.034	20.387	10.879	10.541
DADRI (TH)	517.449	501.536	383.041	371.240
DADRI (TH) STAGE-II	597.794	579.422	454.001	440.076
NAPP	20.860	20.216	20.860	20.216
RAPP 'B'	1.966	1.906	1.966	1.906
RAPP 'C'	35.928	34.820	35.928	34.820
NATHPA JHAKRI	63.629	61.697	63.629	61.697

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
DULASTI	31.592	30.630	31.592	30.630
TEHRI	37.815	36.678	37.815	36.678
KHELGAON	25.516	24.728	21.328	20.671
KHELGAON-II	79.616	77.145	70.665	68.490
FARAKA	13.790	13.362	10.392	10.068
TALA	15.260	14.795	15.260	14.795
TALCHER	0.000	0.000	0.000	0.000
DVC	67.040	65.488	63.061	60.496
TO MAHARASHTRA	-27.982	-29.378	-29.378	-30.595
TO MADHYA PRADESH	-60.878	-63.917	-63.917	-66.681
TO RAJASTHAN	-21.925	-22.826	-21.925	-22.826
POWER EXCHANGE(IEX)	0.000	0.000	0.000	0.000
TO POWER EXCHANGE (IEX)	-87.042	-90.542	-87.042	-90.542
POWRER EXCHANGE(PX)	0.000	0.000	0.000	0.000
TO POWER EXCHANGE (PX)	-0.303	-0.315	-0.303	-0.315
TOTAL	**1600.227**	**1522.022**	**1057.113**	**999.039**

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	2054.264	1985.842	1520.808	1470.423
NTPC - ER	118.922	115.234	102.385	99.230
NHPC	118.159	114.425	118.136	114.403
NPC	58.754	56.942	58.754	56.942
NATHPA JHAKRI	63.629	61.697	63.629	61.697
TEHRI	37.815	36.678	37.815	36.678
TALA	15.260	14.795	15.260	14.795
TALCHER	0.000	0.000	0.000	0.000
DVC	67.040	65.488	63.061	60.496
POWER EXCHANGE(IEX)	0.000	0.000	0.000	0.000
POWER EXCHANGE(PX)	0.000	0.000	0.000	0.000
TOTAL	**1798.358**	**1729.001**	**1259.680**	**1209.998**

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 MAHARASHTRA	-27.982	-29.378	-29.378	-30.595
TO MADHYA PRADESH	-60.878	-63.917	-63.917	-66.681
TO RAJASTHAN	-21.925	-22.826	-21.925	-22.826

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 POWER EXCHANGE (IEX)	-87.042	-90.542	-87.042	-90.542
TO POWER EXCHANGE (PX)	-0.303	-0.315	-0.303	-0.315
TOTAL	**-198.131**	**-206.979**	**-202.567**	**-210.958**
TOTAL SCHEDULED DRAWAL FROM THE GRID	**1600.227**	**1522.022**	**1057.113**	**999.039**
TOTAL CONSUMPTION INCLUDING AUX. OF GENERATING STNs. EXCLUDING BTPS				1551.876
NET CONSUMPTION				1534.941
AVAILABILITY WITHIN DELHI				601.144
ACTUAL DRAWAL FROM THE GRID				933.797
OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID ON THE BASIS OF SCHEDULED ALLOCATION MADE BY NRLDC TO DELHI AT PERIPHERY				(-)65.242
LOAD SHEDDING				**0.870**
UNRESTRICTED DEMAND (GROSS)				**1552.746**
UNRESTRICTED DEMAND (NET)				**1535.811**
MAX. NET CONSUMPTION				55.765Mus. ON 12.11.2010
MAX. LOAD SHEDDING				105 MW ON 22.11.2010 AT 17:23HRS.
PEAK LOAD	Peak Demand during the month			SHEDDING AT PEAK TIME
DAY PEAK	2880MW AT 10:30:00HRS ON 26.11.2010			28MW
EVENING PEAK	3231MW AT 18:45:05HRS ON 02.11.2010			7MW
P.L.F. OF GENCO AND PRAGATI STNs.	RPH			87.06%
	GT			32.80%
	PRAGATI			78.43%
	RITHALA			59.68%

9 SHEDDING DETAILS DURING THE MONTH OF NOVEMBER 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-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
2-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
3-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
4-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
5-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
6-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
7-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
8-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
9-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
10-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
11-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
12-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
13-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
14-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
15-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
16-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
17-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
18-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
19-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
20-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
21-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
22-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
23-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
24-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
25-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.005	0.000
26-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
27-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
28-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
29-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
30-Nov-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
Total	**0**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.005**	**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-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.000	0.000
4-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.000	0.002	0.000
10-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.000	0.001	0.000
11-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000
14-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.000	0.000	0.000
17-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.009	0.000	0.000
20-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.005	0.001	0.000
22-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.018	0.000	0.006	0.000	0.000
24-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25-Nov-10	0.000	0.000	0.000	0.000	0.005	0.005	0.001	0.003	0.000	0.000	0.000
26-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000
28-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30-Nov-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**	0.005	0.005	**0.021**	**0.082**	**0.024**	**0.004**	**0.000**

ALL FIGURES IN MUs

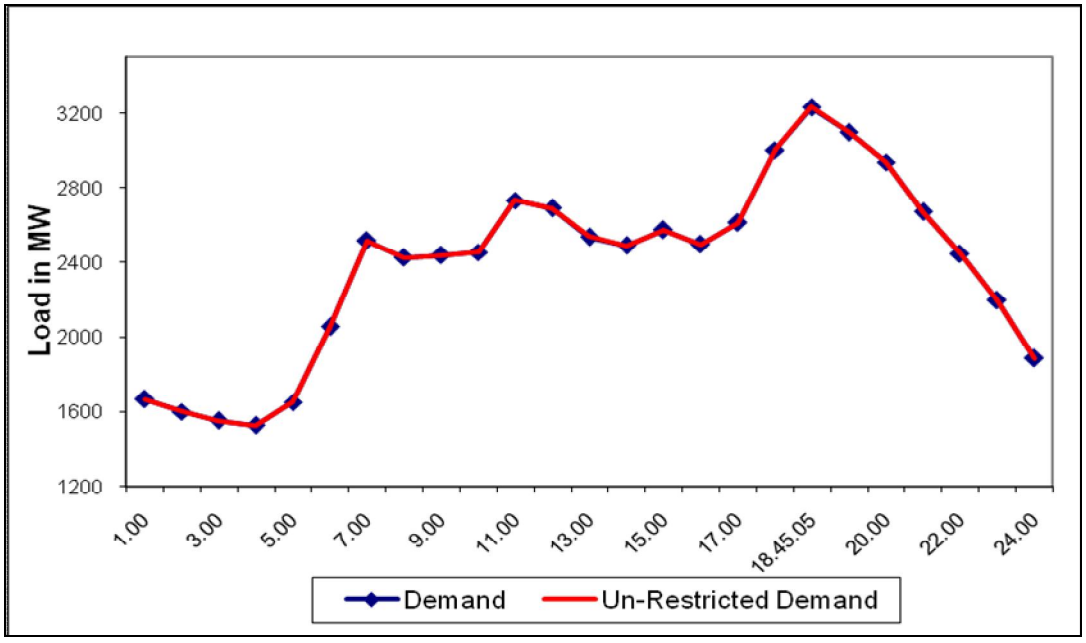
DATE	DUE TO T&D CONTRAINTS			OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.	THEFT PRONE SHEDDING			TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE	GRAND TOTAL
	DISCOMS								
	BSES		NDPL		BSES		NDPL		
	BYPL	BRPL			BYPL	BRPL			
1	23	24	25	2+	27	28	29	30=18 to29	31=30+17
1-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2-Nov-10	0.000	0.005	0.002	0.000	0.000	0.000	0.000	0.007	0.007
3-Nov-10	0.001	0.000	0.006	0.000	0.000	0.000	0.000	0.011	0.011
4-Nov-10	0.000	0.005	0.005	0.000	0.000	0.000	0.000	0.010	0.010
5-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6-Nov-10	0.000	0.006	0.003	0.000	0.000	0.000	0.000	0.009	0.009
7-Nov-10	0.049	0.000	0.000	0.000	0.000	0.000	0.000	0.049	0.049
8-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.006
10-Nov-10	0.007	0.020	0.004	0.000	0.000	0.000	0.000	0.036	0.036
11-Nov-10	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.003	0.003
12-Nov-10	0.006	0.026	0.008	0.029	0.000	0.000	0.000	0.069	0.069
13-Nov-10	0.000	0.098	0.001	0.000	0.000	0.000	0.000	0.107	0.107
14-Nov-10	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.004	0.004
15-Nov-10	0.008	0.021	0.025	0.000	0.000	0.000	0.000	0.054	0.054
16-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.012
17-Nov-10	0.003	0.020	0.004	0.000	0.000	0.000	0.000	0.027	0.027
18-Nov-10	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.013	0.013
19-Nov-10	0.000	0.000	0.017	0.000	0.000	0.000	0.000	0.028	0.028
20-Nov-10	0.012	0.000	0.029	0.000	0.000	0.000	0.000	0.041	0.041
21-Nov-10	0.007	0.002	0.000	0.000	0.000	0.000	0.000	0.016	0.016
22-Nov-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23-Nov-10	0.041	0.005	0.000	0.000	0.000	0.000	0.000	0.070	0.070
24-Nov-10	0.023	0.004	0.021	0.000	0.000	0.000	0.000	0.048	0.048
25-Nov-10	0.000	0.002	0.002	0.000	0.000	0.000	0.000	0.008	0.013
26-Nov-10	0.002	0.000	0.004	0.000	0.000	0.000	0.000	0.006	0.006
27-Nov-10	0.000	0.000	0.026	0.000	0.000	0.000	0.000	0.027	0.027
28-Nov-10	0.109	0.000	0.000	0.000	0.000	0.000	0.000	0.109	0.109
29-Nov-10	0.002	0.005	0.001	0.000	0.000	0.000	0.000	0.008	0.008
30-Nov-10	0.011	0.000	0.027	0.000	0.000	0.000	0.000	0.087	0.087
Total	**0.296**	**0.224**	**0.185**	**0.029**	0.000	0.000	0.000	0.865	0.870

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-Nov-10	52.350	**3147**	18:30	0	**3147**	**3147**	18:30	3147	0
2-Nov-10	53.937	**3231**	**18:45:05**	**3**	**3234**	**3234**	**18:45:05**	**3231**	**3**
3-Nov-10	55.023	**3164**	18:40:20	0	**3164**	**3164**	18:40:20	3164	0
4-Nov-10	53.833	**3128**	18:18:19	0	**3128**	**3128**	18:18:19	3128	0
5-Nov-10	49.492	**2893**	18:44:14	0	**2893**	**2893**	18:44:14	2893	0
6-Nov-10	47.525	**2682**	19:03:34	3	**2685**	**2685**	19:03:34	2682	3
7-Nov-10	46.742	**2688**	19:29:02	0	**2688**	**2688**	19:29:02	2688	0
8-Nov-10	52.411	**3076**	18:31:37	0	**3076**	**3076**	18:31:37	3076	0
9-Nov-10	53.535	**3119**	18:46:26	0	**3119**	**3119**	18:46:26	3119	0
10-Nov-10	53.498	**3200**	18:33:41	3	**3203**	**3203**	18:33:41	3200	3
11-Nov-10	52.747	**3054**	18:29:58	0	**3054**	**3054**	18:29:58	3054	0
12-Nov-10	55.765	**2861**	19:00	19	**2880**	**2880**	19:00	2861	19
13-Nov-10	49.617	**2817**	18:50:38	5	**2822**	**2822**	18:50:38	2817	5
14-Nov-10	49.011	**2688**	18:45:06	0	**2688**	**2688**	18:45:06	2688	0
15-Nov-10	51.789	**2897**	18:03:11	0	**2897**	**2897**	18:03:11	2897	0
16-Nov-10	52.072	**2951**	18:19:00	0	**2951**	**2951**	18:19:00	2951	0
17-Nov-10	50.559	**2708**	18:30	0	**2708**	**2708**	18:30	2708	0
18-Nov-10	51.548	**2970**	18:35:08	0	**2970**	**2970**	18:35:08	2970	0
19-Nov-10	52.185	**2888**	18:29:36	0	**2888**	**2888**	18:29:36	2888	0
20-Nov-10	49.962	**2775**	18:25:41	0	**2775**	**2775**	18:25:41	2775	0
21-Nov-10	47.400	**2562**	19:01:09	0	**2562**	**2562**	19:01:09	2562	0
22-Nov-10	50.963	**2847**	18:18:08	0	**2847**	**2847**	18:18:08	2847	0
23-Nov-10	51.421	**2900**	18:45:56	6	**2906**	**2906**	18:45:56	2900	6
24-Nov-10	51.140	**2909**	18:51:11	5	**2914**	**2914**	18:51:11	2909	5
25-Nov-10	52.310	**2981**	18:49:24	0	**2981**	**2981**	18:49:24	2981	0
26-Nov-10	51.628	**2911**	18:55:51	0	**2911**	**2911**	18:55:51	2911	0
27-Nov-10	48.038	**2903**	18:34:57	0	**2903**	**2903**	18:34:57	2903	0
28-Nov-10	47.180	**2694**	10:28:56	0	**2694**	**2694**	10:28:56	2694	0
29-Nov-10	50.211	**2866**	18:42:44	0	**2866**	**2866**	18:42:44	2866	0
30-Nov-10	51.048	**2896**	18:30	0	**2896**	**2896**	18:30	2896	0
Total	**1534.941**	**3231**	**18:45:05**	3	**3234**	**3234**			

10 LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING NOVEMBER 2010 ON 02.11.2010 –3231MW at 18:45:05HRS.

All figures in MW

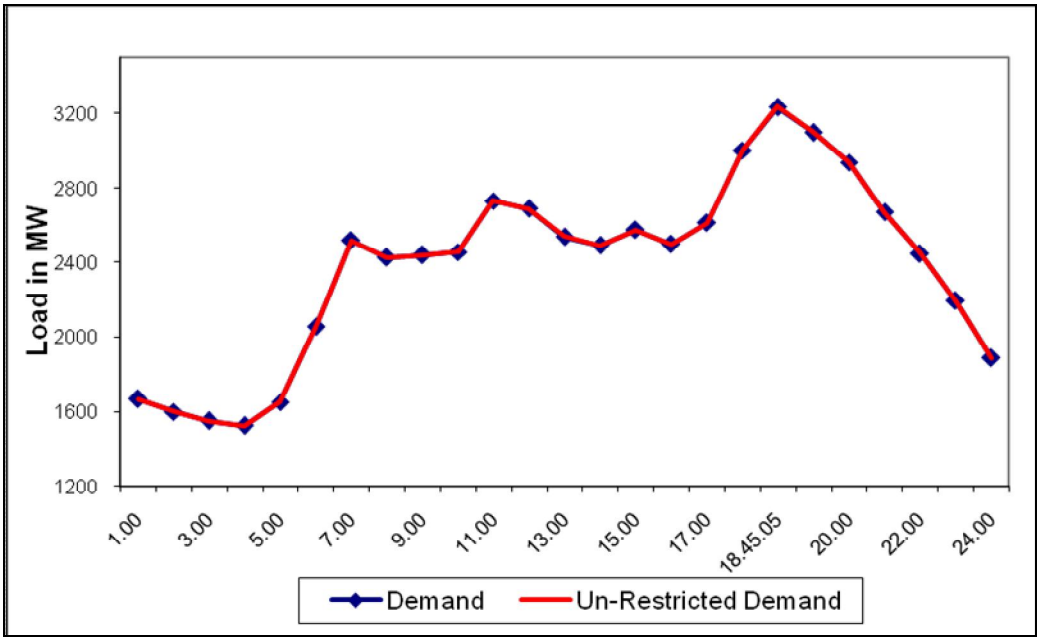
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1670	0	1670
2.00	1602	0	1602
3.00	1553	0	1553
4.00	1527	0	1527
5.00	1654	0	1654
6.00	2056	0	2056
7.00	2519	0	2519
8.00	2428	0	2428
9.00	2439	0	2439
10.00	2457	0	2457
11.00	2733	0	2733
12.00	2692	0	2692
13.00	2537	5	2542
14.00	2492	0	2492
15.00	2577	0	2577
16.00	2497	0	2497
17.00	2613	0	2613
18.00	3004	0	3004
18.45.05	**3231**	3	3234
19.00	3098	3	3101
20.00	2939	0	2939
21.00	2671	0	2671
22.00	2449	0	2449
23.00	2196	0	2196
24.00	1889	0	1889
ENERGY IN Mus	53.937	0.007	53.944



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING NOVEMBER 2010 – 02.11.2010– 3234MW at 18:45:05HRS.

All figures in MW

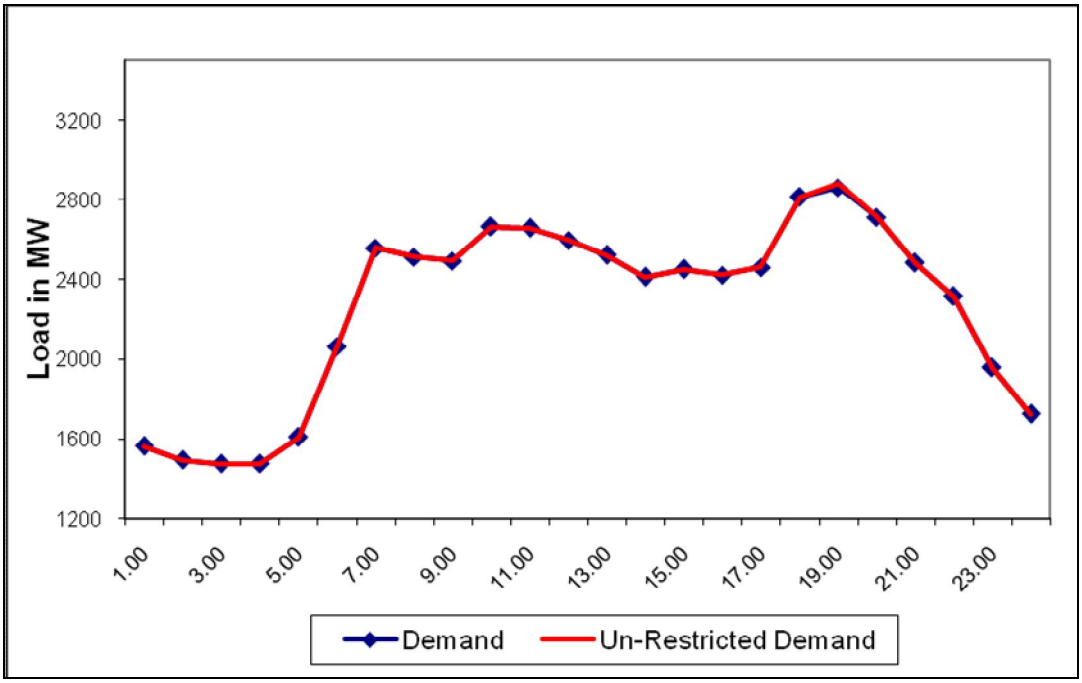
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1670	0	1670
2.00	1602	0	1602
3.00	1553	0	1553
4.00	1527	0	1527
5.00	1654	0	1654
6.00	2056	0	2056
7.00	2519	0	2519
8.00	2428	0	2428
9.00	2439	0	2439
10.00	2457	0	2457
11.00	2733	0	2733
12.00	2692	0	2692
13.00	2537	5	2542
14.00	2492	0	2492
15.00	2577	0	2577
16.00	2497	0	2497
17.00	2613	0	2613
18.00	3004	0	3004
18.45.05	3231	3	**3234**
19.00	3098	3	3101
20.00	2939	0	2939
21.00	2671	0	2671
22.00	2449	0	2449
23.00	2196	0	2196
24.00	1889	0	1889
ENERGY IN Mus	53.937	0.007	53.944



12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING NOVEMBER 2010 – 12.11.2010 – 55.765 Mus

All figures in MW

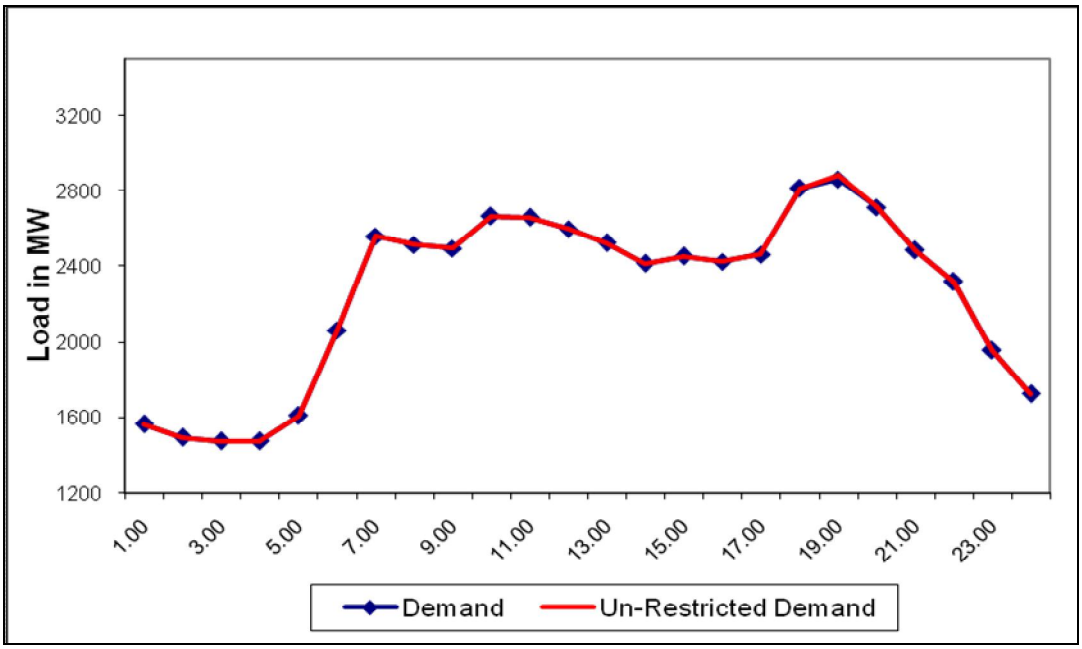
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1568	0	1568
2.00	1496	0	1496
3.00	1476	0	1476
4.00	1477	0	1477
5.00	1613	0	1613
6.00	2065	0	2065
7.00	2560	0	2560
8.00	2515	0	2515
9.00	2496	0	2496
10.00	2665	0	2665
11.00	2658	2	2660
12.00	2599	0	2599
13.00	2525	0	2525
14.00	2414	0	2414
15.00	2454	0	2454
16.00	2425	0	2425
17.00	2462	0	2462
18.00	2812	0	2812
19.00	2861	19	2880
20.00	2714	0	2714
21.00	2484	0	2484
22.00	2318	0	2318
23.00	1957	0	1957
24.00	1726	0	1726
ENERGY IN Mus	**55.765**	0.069	55.834



13 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING NOVEMBER 2010 – 12.11.2010 – 55.834Mus

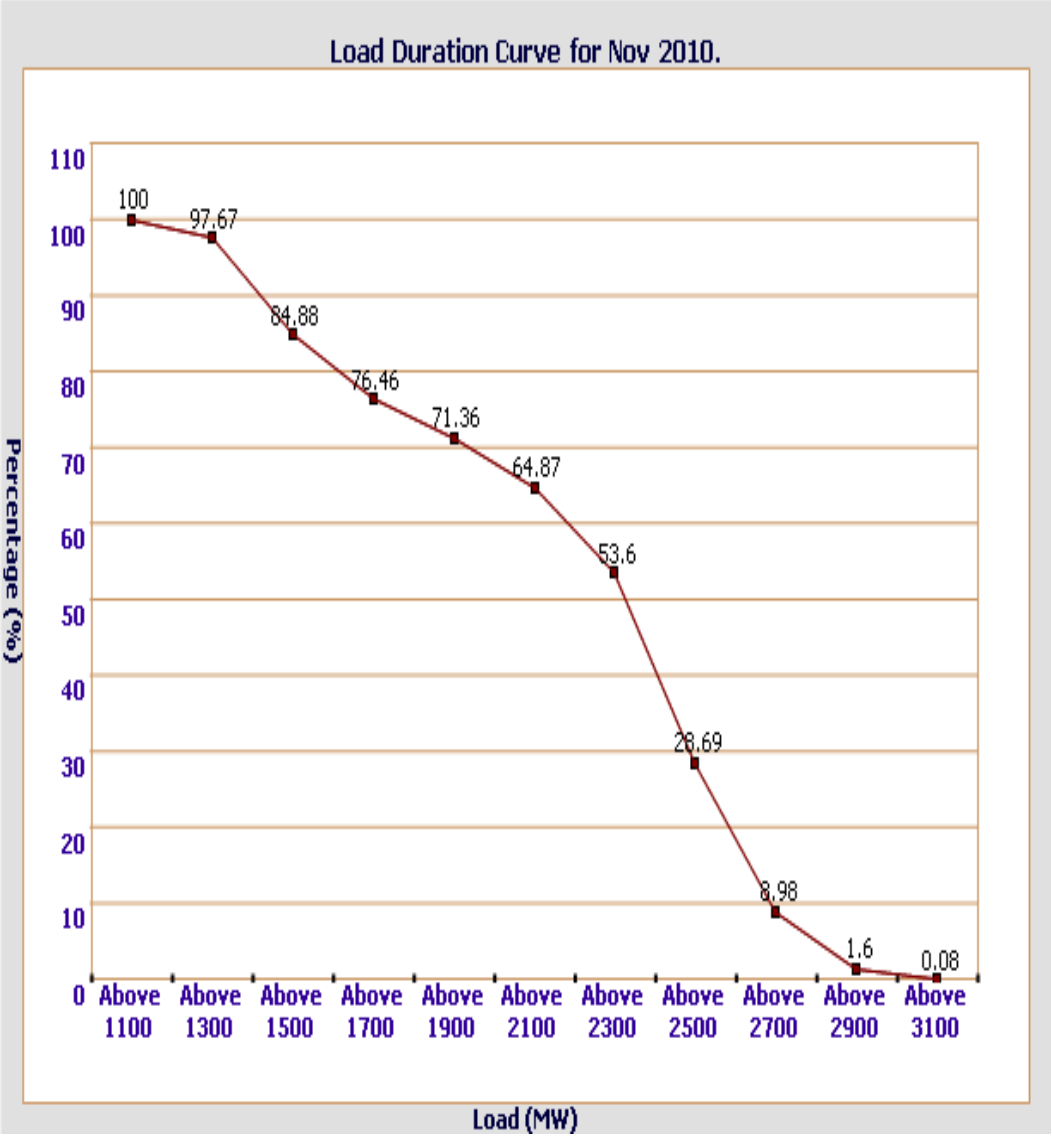
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1568	0	1568
2.00	1496	0	1496
3.00	1476	0	1476
4.00	1477	0	1477
5.00	1613	0	1613
6.00	2065	0	2065
7.00	2560	0	2560
8.00	2515	0	2515
9.00	2496	0	2496
10.00	2665	0	2665
11.00	2658	2	2660
12.00	2599	0	2599
13.00	2525	0	2525
14.00	2414	0	2414
15.00	2454	0	2454
16.00	2425	0	2425
17.00	2462	0	2462
18.00	2812	0	2812
19.00	2861	19	2880
20.00	2714	0	2714
21.00	2484	0	2484
22.00	2318	0	2318
23.00	1957	0	1957
24.00	1726	0	1726
ENERGY IN Mus	55.765	0.069	**55.834**



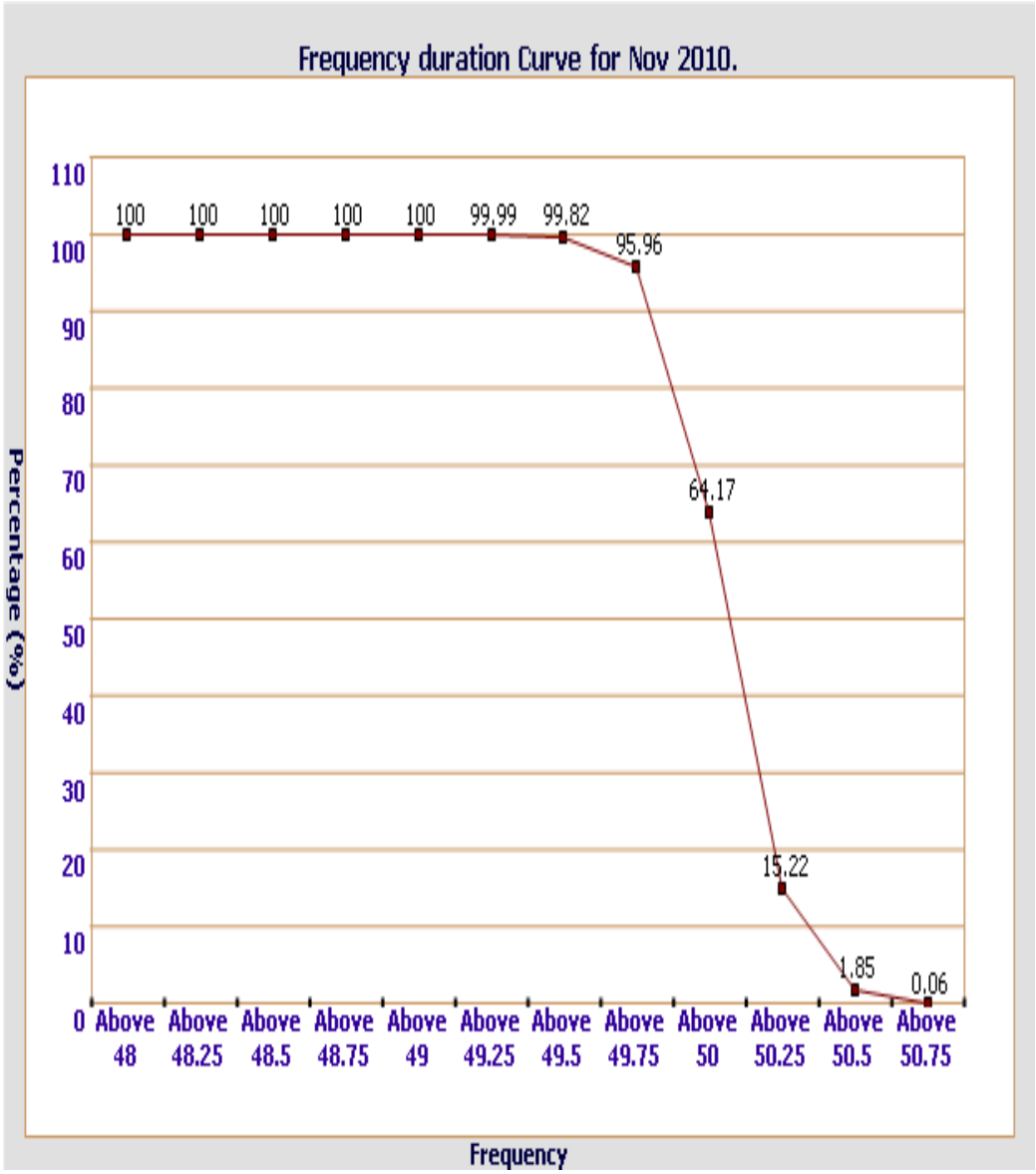
14 LOAD DURATION CURVE FOR NOVEMBER 2010

Load in MW	Percentage of Time
Above 1100	100 %
Above 1300	97.67 %
Above 1500	84.88 %
Above 1700	76.46 %
Above 1900	71.36 %
Above 2100	64.87 %
Above 2300	53.6 %
Above 2500	28.69 %
Above 2700	8.98 %
Above 2900	1.6 %
Above 3100	0.08 %



15 FREQUENCY ANALYSIS FOR THE MONTH OF NOVEMBER 2010

Frequency Range in Hz.	Percentage of time
Above 49.00	100 %
Above 49.25	99.99 %
Above 49.50	99.82 %
Above 49.75	95.96 %
Above 50.00	64.17 %
Above 50.25	15.22 %
Above 50.50	1.85 %
Above 50.75	0.06 %



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

All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
1-Nov-10	--	--	--	--
2-Nov-10	--	--	--	--
3-Nov-10	--	--	--	--
4-Nov-10	--	--	--	--
5-Nov-10	--	--	--	--
6-Nov-10	--	--	--	--
7-Nov-10	--	--	--	--
8-Nov-10	241.17	219.64	232.15	214.09
9-Nov-10	239.11	218.86	230.08	214.61
10-Nov-10	239.24	218.86	230.73	214.61
11-Nov-10	240.40	223.12	230.60	213.32
12-Nov-10	241.17	224.41	229.44	214.35
13-Nov-10	234.47	223.12	232.15	216.54
14-Nov-10	226.73	211.51	229.95	213.44
15-Nov-10	238.98	219.89	232.66	202.74
16-Nov-10	239.75	221.70	230.60	212.03
17-Nov-10	228.28	214.09	233.82	209.83
18-Nov-10	231.50	211.51	232.53	212.15
19-Nov-10	231.11	214.61	233.69	217.31
20-Nov-10	230.86	216.54	233.82	217.70
21-Nov-10	229.95	217.18	232.15	218.22
22-Nov-10	232.66	214.99	234.60	214.09
23-Nov-10	227.50	214.99	235.11	216.54
24-Nov-10	231.37	215.64	233.05	216.02
25-Nov-10	232.02	214.09	233.82	214.35
26-Nov-10	230.73	211.90	232.66	214.35
27-Nov-10	--	--	--	--
28-Nov-10	232.02	213.96	233.31	213.96
29-Nov-10	232.40	213.32	234.98	214.98
30-Nov-10	232.66	210.74	235.11	211.77

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

All figures in kV

Date	400kV Bamnauli Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
1-Nov-10	--	--	--	--	--
2-Nov-10	--	--	--	--	--
3-Nov-10	--	--	--	--	--
4-Nov-10	--	--	--	--	--
5-Nov-10	--	--	--	--	--
6-Nov-10	--	--	--	--	--
7-Nov-10	--	--	--	--	--
8-Nov-10	418.33	03.07.28	389.72	09.45.19	402.68
9-Nov-10	415.75	03.04.38	389.02	10.55.00	403.58
10-Nov-10	416.69	03.09.32	389.72	09.53.53	405.53
11-Nov-10	419.03	03.01.38	390.89	09.53.00	407.07
12-Nov-10	419.27	03.05.07	393.47	09.34.39	407.85
13-Nov-10	425.36	03.11.38	395.58	09.42.19	411.41
14-Nov-10	425.60	02.01.03	396.76	11.18.44	411.68
15-Nov-10	420.44	03.36.14	389.96	11.20.00	406.34
16-Nov-10	419.27	03.45.38	390.89	14.52.56	405.08
17-Nov-10	421.38	23.37.00	391.13	11.10.00	408.64
18-Nov-10	426.54	03.09.11	385.27	18.09.37	408.18
19-Nov-10	423.72	02.05.42	395.58	09.42.56	408.17
20-Nov-10	425.60	02.42.01	397.23	09.45.43	410.02
21-Nov-10	422.08	23.44.52	398.63	18.06.26	412.03
22-Nov-10	427.24	03.15.23	393.94	10.15.45	409.21
23-Nov-10	427.94	03.06.16	396.05	18.06.24	412.60
24-Nov-10	425.36	03.03.43	398.16	10.56.17	412.07
25-Nov-10	427.24	03.03.17	392.07	18.09.32	412.77
26-Nov-10	425.36	02.02.25	388.55	10.17.00	408.82
27-Nov-10	--	--	--	--	--
28-Nov-10	427.24	02.57.33	392.77	10.09.35	411.97
29-Nov-10	427.94	03.48.48	390.19	09.13.56	410.75
30-Nov-10	429.12	03.26.20	386.44	09.45.03	408.51

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
1-Nov-10	--	--	--	--	--
2-Nov-10	--	--	--	--	--
3-Nov-10	--	--	--	--	--
4-Nov-10	--	--	--	--	--
5-Nov-10	--	--	--	--	--
6-Nov-10	--	--	--	--	--
7-Nov-10	--	--	--	--	--
8-Nov-10	424.19	03.53.00	401.45	12.19.38	411.37
9-Nov-1	420.44	03.39.27	399.81	10.56.30	410.90
10-Nov-10	422.55	20.55.59	402.62	11.20.08	413.16
11-Nov-10	424.19	03.23.10	399.81	09.53.00	412.77
12-Nov-10	424.90	02.53.47	400.51	09.42.19	413.76
13-Nov-10	427.47	02.39.26	399.57	09.50.49	415.65
14-Nov-10	430.76	02.01.43	402.62	11.19.34	416.26
15-Nov-10	423.96	03.36.14	396.99	11.14.30	411.93
16-Nov-10	424.19	03.39.27	398.16	14.53.26	411.08
17-Nov-10	424.19	17.02.10	396.05	11.56.03	413.60
18-Nov-10	430.76	03.09.11	393.24	18.08.57	413.19
19-Nov-10	428.65	02.29.23	400.27	12.27.25	414.12
20-Nov-10	427.47	02.41.51	402.62	09.46.03	414.02
21-Nov-10	426.07	23.56.03	403.79	10.11.30	416.66
22-Nov-10	430.99	03.17.23	397.93	10.14.45	414.61
23-Nov-10	430.99	03.05.56	402.15	18.05.34	416.59
24-Nov-10	428.41	03.03.43	401.92	10.55.57	416.76
25-Nov-10	431.23	03.03.27	397.93	18.09.32	416.18
26-Nov-10	427.94	02.01.35	393.47	10.17.00	412.05
27-Nov-10	--	--	--	--	--
28-Nov-10	428.41	02.57.33	395.12	10.08.45	414.60
29-Nov-10	430.29	03.48.38	393.94	09.13.56	413.80
30-Nov-10	430.29	03.26.20	388.78	09.46.33	411.60

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 NOVEMBER 2010

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REAPRKS
	DATE	TIME		DATE	TIME	
01	01.11.10	06.45	220KV BTPS – SARITA VIHAR CKT-I	01.11.10	08.32	CKT. TRIPPED ON 186A, 186 AT BTPS. NO TRIPPING AT SARITA VIHAR.
02	03.11.10	02.30	220/66KV 100MVA PR. TR.-IV AT ROHINI	03.11.10	05.52	TR TRIPPED OVERFLUX.
03	04.11.10	03.37	220/66KV 100MVA PR. TR.-IV AT ROHINI	04.11.10	05.30	TR. TRIPPED ON OVER FLUX, DIFFERENTIAL, 87, 86 ALONGWITH 66KV I/C-IV WHICH TRIPPED WITHOUT INDICATION.
04	04.11.10	14.43	220KV BAMNAULI – DIAL CKT.	04.11.10	15.55	CKT. TRIPPED ON GENERAL TRIP, LINE DIFFERENTIAL OPERATED `RYB' PHASE TRIPPED.
05	06.11.10	00.25	220/66KV 100MVA PR. TR.-IV AT ROHINI	06.11.10	09.06	TR. TRIPPED ON OVER FLUX
06	06.11.10	01.26	400KV BAWANA – ABDULLAPUR CKT-II	06.11.10	06.00	400KV ABDULLAPUR CKT-II INTER TRIPPED AT BAWANA. CKT. TRIPPED ON HIGH VOLTAGE AT ABDULLAPUR END.
07	06.11.10	02.38	400/220KV ICT-III AT BAWANA	06.11.10	12.45	ICT TRIPPED AT OVERFLUX, MAIN CB AUTO TRIP, GROUP-I & II, TRIP CKT FAULTY, CB AUTO RECLOSE LOCK OUT. TIE CB 186A&B, 2/AA
08	07.11.10	02.20	220/66KV 100MVA PR. TR.-I AT NARELA	07.11.10	10.21	TR. TRIPPED ON 186A ALONGWITH ITS 66KV I/C-I WHICH TRIPPED ON INTER TRIPPING.
09	09.11.10	17.15	220/33KV 100MVA PR. TR-II AT IP	09.11.10	19.20	TR. TRIPPED ON 186.
10	09.11.10	17.40	220/33KV 50MVA PR. TR.-II AT PATPARGANJ	09.11.10	23.15	TR. TRIPPED ON 86, 87
11	09.11.10	17.48	220KV IP – PATPARGANJ CKT-I	09.11.10	17.50	CKT. TRIPPED ON 86, 186, DIST PROT. `ABC' PHASE ZONE-I AT IP.
12	09.11.10	17.38	220/33KV 100MVA PR. TR.-II AT IP	09.11.10	17.50	TR. TRIPPED ON 86.
13	10.11.10	12.10	33/11KV 16MVA PR. TR.-I AT PATPARGANJ	10.11.10	17.00	TR. TRIPPED ON E/F. `B' PHASE CT BURNT.
14	10.11.10	12.10	220/33KV 100MVA PR. TR.-IV AT PATPARGANJ	10.11.10	17.00	TR. TRIPPED ON 86 ALONG WITH 33KV I/C-III & IV WHICH TRIPPED ON E/F. 33KV I/C-III & IV CHARGED AT 12.15HRS. AND 12.23HRS. RESPECTIVELY.
15	11.10.10	06.40	220KV PANIPAT – NARELA CKT-III	11.10.10	15.12	CKT. TRIPPED ON DIST PROT `ABC'P HASE ZONE-I, 30C AT NARELA.
16	13.11.10	03.41	220KV MANDOLA – WAZIRABAD CKT-I	13.11.10	04.04	CKT. TRIPPED ON DIST PROT ZONE-I AT WAZIRABAD AND ON DIST PROT `R' PHASE ZONE-II AT MANDOLA.
17	13.11.10	03.41	220/33KV 100MVA PR. TR.-II AT IP	13.11.10	04.08	TR. TRIPPED ON 86.
18	13.11.10	16.16	220KV MEHRAULI – DIAL CKT-II	13.11.10	16.23	CKT. TRIPPED ON GENERAL TRIP, `RYB' PHASE AT DIAL.
19	13.11.10	19.11	400KV BAWANA – ABDULLAPUR CKT-I	13.11.10	19.26	CKT. TRIPPED ON OVER VOLTAGE AT BAWANA
20	16.11.10	17.23	220KV MEHRAULI – DIAL CKT-I	16.11.10	17.46	CKT. TRIPPED ON GENERAL TRIP, LINE DIFFERENTIAL, `Y&B' PHASE.

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REAPRKS
	DATE	TIME		DATE	TIME	
21	16.11.10	17.23	220KV BAMNAULI – MEHRAULI CKT-I	16.11.10	17.30	TRANSIENT FAULT.
22	19.11.10	08.45	220/33KV 100MVA PR. TR.-II AT IP	19.11.10	09.00	TR. TRIPPED ON 86.
23	21.11.10	16.20	220KV GOPALPUR – SUBZI MANDI CKT-I	21.11.10	16.40	CKT. TRIPPED ON DIST PROT `R' PHASE ZONE-I AT GOPALPUR. NO TRIPPING AT SUBZI MANDI.
24	23.11.10	01.15	66/11KV 20MVA PR. TR.-II AT VASANT KUNJ	23.11.10	13.18	TR. TRIPPED ON 86, 30D ALONG WITH ITS 11KV I/C-II WHICH TRIPPED ON INTER TRIPPING.
25	23.11.10	13.25	220/33KV 100MVA PR. TR.-III AT NARAINA	23.11.10	13.54	TR. TRIPPED ON 86 ALONGWITH ITS 33KV I/C-III WHICH TRIPPED ON O/C, 86, NON DIRECTIONAL E/F.
26	24.11.10	14.56	220/33KV 100MVA PR. TR.-II AT IP	24.11.10	15.03	TR. TRIPPED ON TRIPPING RELAY.
27	25.11.10	06.29	220KV MANDOLA – WAZIRABAD CKT-I	25.11.10	07.09	CKT. TRIPPED ON DIST PROT `RYB' PHAE ZONE-II AT WAZIRABAD AND ON DIST PROT `R' PHASE ZONE-I AT MANDOLA.
28	25.11.10	06.30	220/33KV 100MVA PR. TR.-II AT IP	25.11.10	06.55	TR. TRIPPED ON CB LOCK OUT RELAY, 33KV I/C TRIPPED WITHOUT INDICATION
29	25.11.10	15.10	220/33KV 100MVA PR. TR.-II AT IP	25.11.10	17.30	TR. TRIPPED ON 86.
30	27.11.10	05.08	220KV PANIPAT – NARELA CKT-II	27.11.10	07.12	CKT. TRIPPED ON DIST PROT ZONE-I AT NARELA.
31	27.11.10	12.54	220/33KV 100MVA PR. TR.-II AT IP	27.11.10	17.00	TR. TRIPPED ON E/F, 86 ALONG WITH ITS 33KV I/C-II WHICH TRIPPED ON INTER TRIPPING.
32	27.11.10	15.47	220KV NARELA – ROHTAK ROAD CKT-I	27.11.10	16.04	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-I, MICOM RELAY AT NARELA.
33	28.11.10	07.25	220KV BTPS – MEHRAULI CKT-II	28.11.10	07.57	CKT. TRIPPED ON DIST PROT ZONE-I AT MEHRAULI AND ON `R' PHASE E/F AT BTPS.
34	30.11.10	19.00	220KV PANIPAT – NARELA CKT-II	30.11.10	20.42	CKT. TRIPPED ON DIST PROT ABC PHASE ZONE-I AT NARELA.
35	30.11.10	20.43	220/66KV 100MVA PR. TR.-II AT NARELA	30.11.10	22.18	TR. TRIPPED ON 86 ALONG WITH 66KV I/C-II WHICH TRIPPED ON TRIP CKT SUPERVISION `C' PHASE RELAY.

20 DETAILS OF UNDER FREQUENCY RELAY OPERATIONS IN DELHI POWER SYSTEM DURING THE MONTH OF NOVEMBER 2010

NIL