DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

****

DECEMBER - 2010

1 SALIENT FEATURES OF DELHI POWER SYSTEM

Sr. No.	Features	DEC 2010	DEC 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
	Rithala GT	73	--
	Total	1513	1440
2	**Maximum Unrestricted Demand (MW)**	**3471**	**3243**
	Date	27.12.2010	31.12.2009
	Time	09:35:25	10:04:00
3	**Peak Demand met (MW)**	**3471**	**3243**
	Date	27.12.2010	31.12.2009
	Time	09:35:25	10:04:00
4	Peak Availability (MW)	3131	3163
5	Shortage (-) / Surplus (+) in MW	(-)340	(-)80
6	Percentage Shortage (-) / Surplus (+)	(-)9.8	(-)2.47
7	Maximum Energy Consume in a day (Mus)	61.006	54.544
8	Energy Consumed during the month	**1672.795**	**1562.147**
9	**Load Shedding in Mus**		
A)	Due to Grid Restrictions		
i)	Under Frequency Relay Operations	0.000	0.020
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	0.000	0.000
	BRPL	0.307	0.000
	BYPL	0.156	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	**0.463**	0.020
B)	Due to Constraints in System in Mus		
	DTL	0.352	0.239
	NDPL	0.849	4.601
	BRPL	0.296	0.188
	BYPL	0.123	0.204
	NDMC	0.000	0.000
	MES	0.000	0.000
	Other Agencies	0.001	0.013
	Total	**1.621**	**5.245**
11	**Grand Total in Mus**	**2.084**	**5.265**

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

A) For the month of December 2010

All Figures in MUs

S. No	Stations	Gross Generation	Aux. Consumption	Net Generation	Availability (%)	Backing Down
1.	**RPH**	77.19000	9.06800	68.12200	76.96	0.00000
2.	**GT**	165.50800	4.98400	160.52400	91.45	18.11120
3.	**PPCL**	223.14000	5.65200	217.48800	96.76	13.68050
4.	**BTPS**	404.79481	44.52743	360.26738	88.84	52.03350
5.	**Rithala**	18.82600	0.37200	18.45400	--	0.00000
	TOTAL	**889.45881**	**64.60343**	**824.85538**		**83.8252**

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

Power Station	Effective Capacity (MW)	Net Generation in MUs For Dec 2010	Availability (%) For Dec 2010	PLF (%) For Dec. 2010	Cumulative Generation in MUs upto Dec.2010 for the year 2010-11	Cumulative Availability in % upto Dec. 2010 for the year 2010-11	Cumulative PLF in % upto Dec. 2010 for the year 2010-11
RPH	135	68.12200	76.96	76.96	472.27200	73.29	61.32
GT	270	160.52400	91.45	82.45	982.01700	83.45	58.31
PPCL	330	217.48800	96.76	91.02	1794.79000	88.88	84.51
BTPS	705	360.26738	88.84	77.70	**3041.53815**	88.43	71.39
Rithala	**73**	18.45400	--	--	**38.47300**	--	--
TOTAL	**1513**	**824.85538**			**6329.09015**		

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
		03.12.10	23.19	08.12.10	23.42	Boiler Tube Leakage
		08.12.10	23.50	13.12.10	04.40	Boiler Tube Leakage
		28.12.10	14.02	29.12.10	19.52	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
		12.12.10	09.59	12.12.10	10.45	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	
		09.21.10	00.04	09.12.10	06.25	
		11.12.10	00.05	11.12.10	06.24	
		14.12.10	00.04	14.12.10	06.20	
		14.12.10	00.04	14.12.10	06.19	
		20.12.10	21.05	21.12.10	06.26	
		23.12.10	00.02	23.12.10	05.52	
		28.12.10	18.10	29.12.10	23.59	Machine stopped to avoid overloading of 160 MVA Txr-2.
		30.12.10	02.35	30.12.10	06.40	Stopped due to high under drawal at high frequency
		31.12.10	21.46	31.12.10	23.59	
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.
		14.12.10	14.40	14.12.10	15.20	Electrical problem
		16.12.10	00.05	16.12.10	07.12	Stopped due to low demand and high frequency.
		24.12.10	11.55	25.12.10	16.05	Due to tripping of 160MVA Tx-i

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
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.
		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	Stopped due to high under drawal at high frequency.
		04.12.10	00.05	04.12.10	16.56	
		05.12.10	00.05	05.12.10	05.30	
		17.12.10	00.05	17.12.10	10.03	
		25.12.10	15.30	25.12.10	18.25	
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

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
4	**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 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.
		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	Stopped due to high under drawal at high frequency.
		03.12.10	00.01	03.12.10	05.05	
		12.12.10	00.02	12.12.10	06.32	
		17.12.10	00.05	17.12.10	09.48	
		19.12.10	15.35	20.12.10	06.20	
		21.12.10	21.05	22.12.10	06.25	
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

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
5	30	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
		08.12.10	00.02	08.12.10	06.20	Stopped due to high frequency and low demand
		18.12.10	00.05	18.12.10	06.40	
		24.12.10	11.55	24.12.10	12.58	Came on FSNL due to tripping of 160 MVA Trf-1
		25.12.10	16.25	27.12.10	12.35	Stopped due to high frequency and low demand
		27.12.10	23.35	28.12.10	09.35	Machine stopped to avoid overloading of 160 MVA Txr-2.
		29.12.10	00.05	29.12.10	11.31	
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	
		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	

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
6	**30**	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
		07.12.10	00.05	07.12.10	06.24	Stopped due to high frequency and low demand.
		09.12.10	22.46	10.12.10	06.20	
		13.12.10	00.02	13.12.10	06.30	
		13.12.10	06.30	13.12.10	12.14	Due to AC lube oil pump burnt
		19.12.10	00.02	19.12.10	06.44	Stopped due to high frequency and low demand.
		23.12.10	17.15	24.12.10	06.20	Machine stopped due to problem in GAIL pipeline
		24.12.10	11.55	24.12.10	12.40	Came on FSNL due to tripping of 160 MVA Trf-1
		25.12.10	18.28	28.12.10	13.45	To avoid overloading of 160 MVA Txr-2.
		31.12.10	00.04	31.12.10	09.10	Stopped due to high frequency and low demand.
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
		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

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG-1	**30**	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.
		09.12.10	00.04	09.12.10	06.58	HRSG# 1 stopped along with GT due to high frequency and low demand
		11.12.10	00.05	11.12.10	06.50	
		14.12.10	00.04	14.12.10	06.45	
		15.12.10	00.04	15.12.10	06.40	
		16.12.10	00.05	16.12.10	07.35	HRSG-2 stopped along with GT-2 due to high freq .and low demand
		20.12.10	21.05	21.12.10	06.54	HRSG# 1 stopped along with GT-1 due to high freq. and low demand
		23.12.10	00.05	23.12.10	06.20	
		24.12.10	11.55	25.12.10	16.40	Due to tripping of 160 MVA Trf.-1
		30.12.10	02.35	30.12.10	07.10	HRSG# 1 stopped along with GT due to high frequency and low demand
		31.12.10	21.46	31.12.10	23.59	
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	
		03.12.10	00.01	03.12.10	05.00	HRSG-4 stopped along with GT-4 due to high freq and low demand.
		04.12.10	00.05	04.12.10	17.45	HRSG-3 stopped alongwith GT-3 due to high freq. and low demand.
		05.12.10	00.05	05.12.10	06.20	
		08.12.10	11.31	08.12.10	11.51	Generator RJB vibration very high
		12.12.10	00.02	12.12.10	06.55	HRSG-4 stopped along with GT-4 due to high freq and low demand.
		17.12.10	00.05	17.12.10	12.35	Machine stopped due to high frequency and low demand.
		19.12.10	15.35	20.12.10	06.55	HRSG-4 stopped along with GT-4 due to high freq and low demand.
		21.12.10	21.05	22.12.10	06.50	
		25.12.10	15.30	25.12.10	18.55	HRSG-3 stopped alongwith GT-3 due to high freq. and low demand.
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	

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG3	30	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.
		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	
		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
		08.09.10	12.41	09.09.10	00.46	
		15.09.10	15.10	15.09.10	17.15	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
		07.12.10	00.05	07.12.10	07.05	HRSG-6 along with GT-6 due to low demand and high frequency
		08.12.10	00.02	08.12.10	06.55	HRSG-5 along with GT-5 due to low demand and high freq.
		09.12.10	22.46	10.12.10	06.48	HRSG-6 along with GT-6 due to low demand and high frequency
		13.12.10	00.02	13.12.10	06.30	HRSG-6 along with GT-6 due to low demand and high frequency
		13.12.10	06.30	13.12.10	12.35	HRSG-6 could not be taken on load due to problem in GT-6
		14.12.10	02.37	14.12.10	04.17	Hot well level high
		18.12.10	00.05	18.12.10	07.20	HRSG-5 along with GT-5 due to low demand and high freq.
		19.12.10	00.02	19.12.10	07.10	HRSG-6 along with GT-6 due to low demand and high frequency
		22.12.10	15.40	22.12.10	16.03	Turbine RJB shaft vibration very high.
		23.12.10	17.15	24.12.10	06.50	HRSG-6 stopped alongwith GT-6 due to problem in GAIL pipe line
		24.12.10	11.55	24.12.10	13.38	Due to tripping of 160 MVA Trf-I
		25.12.10	16.25	25.12.10	18.28	HRSG-5 along with GT-5 due to low demand and high freq.
		25.12.10	18.28	27.12.10	16.05	
		27.12.10	23.35	28.12.10	11.25	Machine stopped to avoid overloading of 160 MVA Txr-2.
		31.12.10	00.04	31.12.10	14.30	HRSG-6 stopped alongwith GT-6 due to low demand and high freq.

(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.
		26.12.10	11.00	26.12.10	23.30	Tripped alongwtih trippings of associated transmission lines.
		27.12.10	22.12	27.12.10	22.49	Internal problem
		27.12.10	23.38	28.12.10	05.14	Internal problem
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
		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
		14.12.10	14.41	14.12.10	15.20	Tripped alongwtih trippings of associated transmission lines.
		27.12.10	07.00	27.12.10	20.35	Due to problem in air filter
		27.12.10	23.38	28.12.10	05.14	Internal problem
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	

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG	**122**	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
		23.12.10	10.05	23.12.10	11.12	Tripped due to tripping of associated transmission lines

(D) BADARPUR THERMAL POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	95	05.04.10	22.04	06.04.10	21.40	Maintenance work
		23.04.10	16.09	23.04.10	21.50	Electrical fault
		01.05.10	19.09	02.05.10	20.04	Generation back down due to low demand and high frequency.
		11.05.10	21.37	12.05.10	12.53	Electrical problem
		25.05.10	03.50	11.06.10	14.30	Excel shaft high
		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.
		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

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
3	95	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.
		01.12.10	21.35	02.12.10	15.05	Boiler Tube Leakage
		05.12.10	13.50	09.12.10	07.04	Generation back down due to high frequency and low demand.
		16.12.10	13.47	17.12.10	12.32	Boiler Tube Leakage
		26.12.10	11.43	27.12.10	06.15	Boiler Tube Leakage
		28.12.10	07.09	01.01.11	05.08	Boiler Tube Leakage
5	210	02.04.10	16.29	03.04.10	20.22	Boiler tube leakage
		17.04.10	22.30	18.04.10	12.20	Boiler tube leakage
		09.05.10	17.40	09.05.10	19.48	Tripped on jerk due to tripping of 220kV Ballabhgarh – BTPS Ckts and 220kV BTPS – Alwar Ckt.
		13.05.10	17.58	13.05.10	20.11	Furnace problem
		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
		04.12.10	12.00	05.12.10	11.50	Furnace problem
		15.12.10	09.08	16.12.10	06.55	Furnace pressure very high
		17.12.10	12.28	18.12.10	23.22	Excitation problem
		25.12.10	09.02	26.12.10	10.46	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 DECEMBER 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	18:37:35	114	243	316	447	29	1149	1811	1760	-51	**2960**	0	2960
2	19:06:07	116	245	316	439	30	1146	1753	1861	108	**2899**	3	2902
3	19:00:00	114	251	337	406	30	1138	1813	1881	68	**2951**	3	2954
4	18:28:11	58	240	313	389	31	1031	2017	1845	-172	**3048**	0	3048
5	09:59:59	58	241	325	395	30	1049	1810	1762	-48	**2859**	0	2859
6	18:52:48	58	242	297	371	0	968	2002	1910	-92	**2970**	33	3003
7	18:47:47	58	239	286	397	30	1010	1987	1799	-188	**2997**	32	3029
8	18:47:47	58	239	316	425	30	1068	1944	1836	-108	**3012**	32	3044
9	19:03:33	56	239	314	613	32	1254	1782	1859	77	**3036**	2	3038
10	18:43:08	58	239	315	635	32	1279	1824	1865	41	**3103**	31	3134
11	09:00:00	58	242	323	587	32	1242	1730	1593	-137	**2972**	4	2976
12	10:29:22	58	240	295	601	32	1226	1825	1679	-146	**3051**	0	3051
13	18:32:22	114	240	315	494	29	1192	1972	1909	-63	**3164**	0	3164
14	18:32:19	115	237	310	610	0	1272	1763	1934	171	**3035**	0	3035
15	10:04:30	115	241	323	393	30	1102	2083	1673	-410	**3185**	0	3185
16	18:49:32	115	237	316	428	30	1126	1991	1996	5	**3117**	0	3117
17	10:34:54	116	216	313	416	28	1089	2117	1727	-390	**3206**	12	3218
18	09:57:19	115	240	320	414	28	1117	1889	1876	-13	**3006**	0	3006
19	10:01:18	115	236	321	500	28	1200	1824	1830	6	**3024**	0	3024
20	09:32:42	115	238	326	616	28	1323	1803	1862	59	**3126**	0	3126
21	18:51:05	107	192	317	617	28	1261	1883	1920	37	**3144**	0	3144
22	10:01:06	111	237	314	622	30	1314	1877	1828	-49	**3191**	0	3191
23	18:45:59	116	196	284	628	33	1257	1939	2071	132	**3196**	0	3196
24	10:19:29	118	239	313	628	33	1331	2040	1966	-74	**3371**	5	3376
25	10:29:01	115	187	290	427	33	1052	2215	2003	-212	**3267**	5	3272
26	11:00:00	117	161	226	472	30	1006	2152	2063	-89	**3158**	0	3158
27	09:35:25	117	155	139	602	10	1023	2448	2108	-340	**3471**	0	3471
28	10:04:12	108	169	326	436	10	1049	2374	2208	-166	**3423**	0	3423
29	10:03:56	59	187	322	430	31	1029	2378	2201	-177	**3407**	0	3407
30	10:18:41	111	237	319	397	33	1097	2223	2290	67	**3320**	1	3321
31	10:11:09	109	229	317	427	30	1112	2348	1882	-466	**3460**	0	3460

7 POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF MAXIMUM UNRESTRICTED DEMAND DURING DECEMBER 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	18:37:35	114	243	316	447	29	1149	1811	1760	-51	**2960**	0	2960
2	19:06:07	116	245	316	439	30	1146	1753	1861	108	**2899**	3	2902
3	19:00:00	114	251	337	406	30	1138	1813	1881	68	**2951**	3	2954
4	18:28:11	58	240	313	389	31	1031	2017	1845	-172	**3048**	0	3048
5	09:59:59	58	241	325	395	30	1049	1810	1762	-48	**2859**	0	2859
6	18:52:48	58	242	297	371	0	968	2002	1910	-92	**2970**	33	3003
7	18:47:47	58	239	286	397	30	1010	1987	1799	-188	**2997**	32	3029
8	18:47:47	58	239	316	425	30	1068	1944	1836	-108	**3012**	32	3044
9	19:03:33	56	239	314	613	32	1254	1782	1859	77	**3036**	2	3038
10	18:43:08	58	239	315	635	32	1279	1824	1865	41	**3103**	31	3134
11	09:00:00	58	242	323	587	32	1242	1730	1593	-137	**2972**	4	2976
12	10:29:22	58	240	295	601	32	1226	1825	1679	-146	**3051**	0	3051
13	18:32:22	114	240	315	494	29	1192	1972	1909	-63	**3164**	0	3164
14	18:32:19	115	237	310	610	0	1272	1763	1934	171	**3035**	0	3035
15	10:04:30	115	241	323	393	30	1102	2083	1673	-410	**3185**	0	3185
16	18:49:32	115	237	316	428	30	1126	1991	1996	5	**3117**	0	3117
17	10:34:54	116	216	313	416	28	1089	2117	1727	-390	**3206**	12	3218
18	09:57:19	115	240	320	414	28	1117	1889	1876	-13	**3006**	0	3006
19	10:01:18	115	236	321	500	28	1200	1824	1830	6	**3024**	0	3024
20	09:32:42	115	238	326	616	28	1323	1803	1862	59	**3126**	0	3126
21	18:51:05	107	192	317	617	28	1261	1883	1920	37	**3144**	0	3144
22	10:01:06	111	237	314	622	30	1314	1877	1828	-49	**3191**	0	3191
23	18:45:59	116	196	284	628	33	1257	1939	2071	132	**3196**	0	3196
24	10:19:29	118	239	313	628	33	1331	2040	1966	-74	**3371**	5	3376
25	10:29:01	115	187	290	427	33	1052	2215	2003	-212	**3267**	5	3272
26	11:00:00	117	161	226	472	30	1006	2152	2063	-89	**3158**	0	3158
27	09:35:25	117	155	139	602	10	1023	2448	2108	-340	**3471**	0	3471
28	10:04:12	108	169	326	436	10	1049	2374	2208	-166	**3423**	0	3423
29	10:03:56	59	187	322	430	31	1029	2378	2201	-177	**3407**	0	3407
30	10:18:41	111	237	319	397	33	1097	2223	2290	67	**3320**	1	3321
31	10:11:09	109	229	317	427	30	1112	2348	1882	-466	**3460**	0	3460

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

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

A (i) RPH	77.190
JHAJJAR SHARE	0.682
NET RPH	76.508
(ii) GT+STG	165.508
(iii) PRAGATI	223.140
(iv) RITHALA	18.826
TOTAL	483.982
B) AVAILABILITY FROM BTPS	358.082
C) AUXILIARY CONSUMPTION OF GENERATING STNs. EXCLUDING BTPS	20.076
D) NET GENERATION AVAILABLE WITHIN DELHI(A+B-C)	**821.988**

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	1.749	1.668	1.749	1.668
SALAL	11.224	10.709	11.224	10.709
TANKAPUR	3.400	3.244	3.400	3.244
CHAMERA	4.768	4.549	4.768	4.549
CHAMERA -II	5.536	5.282	5.536	5.282
DHAULIGANGA	5.328	5.084	5.328	5.084
SEWA -2	0.835	0.797	0.835	0.797
URI	9.579	9.139	9.579	9.139
ANTA (GAS)	9.038	8.622	5.069	4.834
ANTA (RLNG)	10.116	9.647	0.403	0.384
ANTA (LIQUID)	2.870	2.741	0.000	0.000
DADRI (GAS)	41.394	39.493	34.630	33.041
DADRI (RLNG)	26.252	25.042	2.590	2.471
DADRI (LIQUID)	0.118	0.113	0.000	0.000
AURAIYA (GAS)	36.948	35.248	27.601	26.332
AURAIYA (RLNG)	15.968	15.235	1.793	1.711
AURAIYA (LIQUID)	0.233	0.223	0.000	0.000
SINGRAULI	104.293	99.500	89.462	85.353
RIHAND -I	71.586	68.295	60.035	57.276
RIHAND -II	91.017	86.833	76.280	72.774
UNCHAHAR-I	17.206	16.415	12.834	12.244
UNCHAHAR-II	31.882	30.415	24.611	23.479
UNCHAHAR-III	20.962	19.999	16.032	15.296
DADRI (TH)	534.845	510.262	468.812	447.262
DADRI (TH) STAGE-II	144.759	137.918	140.823	134.166
NAPP	21.550	20.559	21.550	20.559
RAPP 'B'	2.075	1.980	2.075	1.980
RAPP 'C'	28.923	27.599	28.923	27.599
NATHPA JHAKRI	27.687	26.417	27.687	26.417
DULASTI	12.525	11.950	12.525	11.950
TEHRI	9.318	8.898	9.318	8.898
KHELGAON	27.699	26.429	24.034	22.932
KHELGAON-II	86.722	82.733	81.755	77.996
FARAKA	14.217	13.562	11.448	10.920
TALA	3.327	3.174	3.327	3.174
TALCHER	0.000	0.000	0.000	0.000
DVC	52.762	51.507	49.578	47.300
URS	0.410	0.391	0.410	0.391
TO KERALA	-24.376	-26.218	-26.218	-27.482
TO MADHYA PRADESH	-83.390	-87.249	-87.249	-91.452
TO MEGHALAYA	-7.219	-7.458	-7.458	-7.817
TO RAJASTHAN	-18.417	-19.306	-18.417	-19.306
POWER EXCHANGE(IEX)	5.693	5.433	5.693	5.433
TO POWER EXCHANGE (IEX)	-71.428	-74.888	-71.428	-74.888
POWRER EXCHANGE(PX)	2.621	2.503	2.621	2.503
TO POWER EXCHANGE (PX)	-0.100	-0.105	-0.100	-0.105
TOTAL	**1292.504**	**1214.381**	**1073.468**	**1004.095**

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	1159.487	1105.999	960.974	916.624
NTPC - ER	128.637	122.725	117.238	111.847
NHPC	54.944	52.421	54.944	52.421
NPC	52.548	50.137	52.548	50.137
NATHPA JHAKRI	27.687	26.417	27.687	26.417
TEHRI	9.318	8.898	9.318	8.898
TALA	3.327	3.174	3.327	3.174
TALCHER	0.000	0.000	0.000	0.000
DVC	52.762	51.507	49.578	47.300
URS	0.410	0.391	0.410	0.391
POWER EXCHANGE(IEX)	5.693	5.433	5.693	5.433
POWER EXCHANGE(PX)	2.621	2.503	2.621	2.503
TOTAL	**1497.433**	**1429.605**	**1284.337**	**1225.145**

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 KERALA	-24.376	-26.218	-26.218	-27.482
TO MADHYA PRADESH	-83.390	-87.249	-87.249	-91.452
TO MEGHALAYA	-7.219	-7.458	-7.458	-7.817
TO RAJASTHAN	-18.417	-19.306	-18.417	-19.306
TO POWER EXCHANGE (IEX)	-71.428	-74.888	-71.428	-74.888
TO POWER EXCHANGE (PX)	-0.100	-0.105	-0.100	-0.105
TOTAL	**-204.929**	**-215.224**	**-210.869**	**-221.050**
TOTAL SCHEDULED DRAWAL FROM THE GRID	**1292.504**	**1214.381**	**1073.468**	**1004.095**
TOTAL CONSUMPTION INCLUDING AUX. OF GENERATING STNs. EXCLUDING BTPS				1692.871
NET CONSUMPTION				1672.795
AVAILABILITY WITHIN DELHI				821.988
ACTUAL DRAWAL FROM THE GRID				850.807
OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID ON THE BASIS OF SCHEDULED ALLOCATION MADE BY NRLDC TO DELHI AT PERIPHERY				(-)153.288
LOAD SHEDDING				**2.084**
UNRESTRICTED DEMAND (GROSS)				**1694.955**
UNRESTRICTED DEMAND (NET)				**1674.879**
MAX. NET CONSUMPTION				61.006Mus. ON 31.12.2010
MAX. LOAD SHEDDING				265 MW ON 21.12.2010 AT 08.30HRS.
PEAK LOAD	Peak Demand during the month			SHEDDING AT PEAK TIME
DAY PEAK	3471MW AT 09:35:25HRS ON 27.12.2010			NIL
EVENING PEAK	3268MW AT 18:30:00HRS ON 28.12.2010			NIL
P.L.F. OF GENCO AND PRAGATI STNs.	RPH GT PRAGATI RITHALA			76.85% 82.39% 90.88% 34.19%

9 SHEDDING DETAILS DURING THE MONTH OF DECEMBER 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-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.112	0.000	0.000
5-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.026	0.148	0.000
18-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.136	0.000	0.000
28-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.033	0.000	0.000
29-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.008	0.000
30-Dec-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31-Dec-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**	**0.307**	**0.156**	**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-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
2-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4-Dec-10	0.000	0.000	0.000	0.000	0.112	0.112	0.013	0.000	0.000	0.000	0.000
5-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013	0.005	0.000	0.000
7-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013	0.000	0.000
8-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000
11-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.051	0.000	0.000
12-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.045	0.000	0.002	0.000	0.000
15-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.029	0.000	0.000	0.000
16-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000
17-Dec-10	0.000	0.000	0.000	0.000	0.174	0.174	0.000	0.000	0.000	0.000	0.000
18-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000
19-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
21-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.067	0.000	0.000	0.001	0.000
22-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.000	0.000	0.000
27-Dec-10	0.000	0.000	0.000	0.000	0.136	0.136	0.073	0.000	0.009	0.000	0.000
28-Dec-10	0.000	0.000	0.000	0.000	0.033	0.033	0.000	0.000	0.000	0.000	0.000
29-Dec-10	0.000	0.000	0.000	0.000	0.008	0.008	0.000	0.000	0.000	0.000	0.000
30-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total	0.000	0.000	0.000	0.000	0.463	0.463	0.202	0.058	0.091	0.001	0.000

ALL FIGURES IN MUs

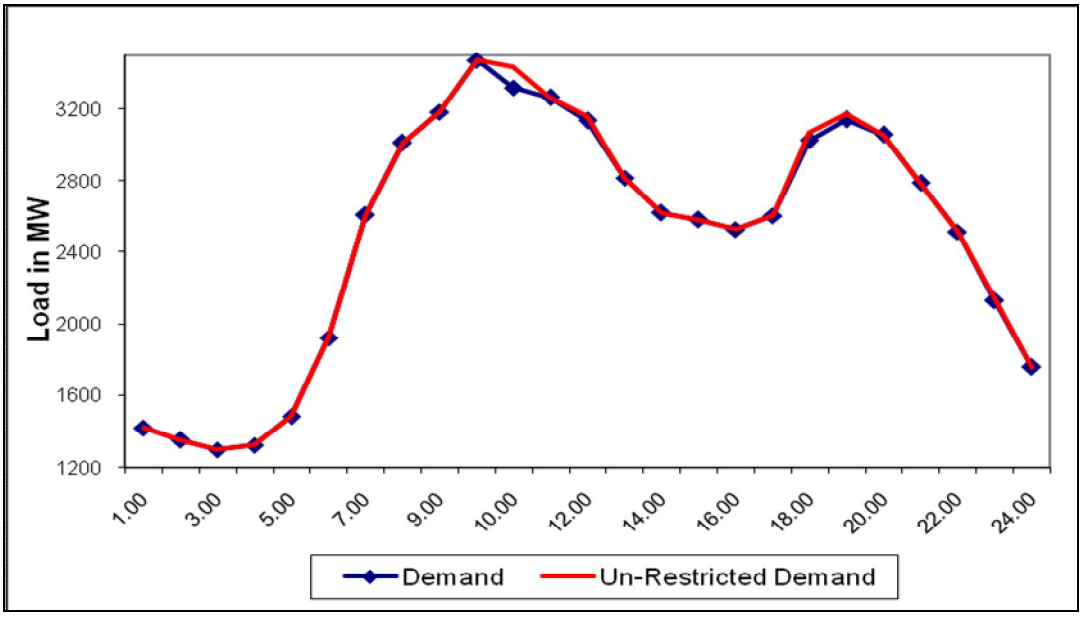
DATE	DUE TO T&D CONTRAINTS			OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.	THEFT PRONE SHEDDING			TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE	GRAND TOTAL
	DISCOMS								
	BSES		NDPL		BSES		NDPL		
	BYPL	BRPL			BYPL	BRPL			
1	23	24	25	2+	27	28	29	30=18 to29	31=30+17
1-Dec-10	0.000	0.000	0.021	0.000	0.000	0.000	0.000	0.022	0.022
2-Dec-10	0.021	0.006	0.000	0.000	0.000	0.000	0.000	0.027	0.027
3-Dec-10	0.000	0.024	0.001	0.000	0.000	0.000	0.000	0.025	0.025
4-Dec-10	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.018	0.130
5-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6-Dec-10	0.000	0.000	0.029	0.000	0.000	0.000	0.048	0.095	0.095
7-Dec-10	0.000	0.000	0.001	0.000	0.000	0.000	0.109	0.123	0.123
8-Dec-10	0.000	0.000	0.015	0.000	0.000	0.000	0.098	0.113	0.113
9-Dec-10	0.000	0.000	0.001	0.000	0.000	0.000	0.115	0.116	0.116
10-Dec-10	0.000	0.013	0.000	0.000	0.000	0.000	0.116	0.133	0.133
11-Dec-10	0.000	0.014	0.000	0.000	0.000	0.000	0.113	0.178	0.178
12-Dec-10	0.023	0.000	0.001	0.000	0.000	0.000	0.000	0.024	0.024
13-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14-Dec-10	0.006	0.040	0.015	0.000	0.000	0.000	0.000	0.108	0.108
15-Dec-10	0.000	0.042	0.000	0.000	0.000	0.000	0.000	0.071	0.071
16-Dec-10	0.001	0.017	0.001	0.000	0.000	0.000	0.000	0.026	0.026
17-Dec-10	0.009	0.030	0.011	0.000	0.000	0.000	0.000	0.050	0.224
18-Dec-10	0.000	0.040	0.000	0.000	0.000	0.000	0.000	0.042	0.042
19-Dec-10	0.007	0.000	0.002	0.000	0.000	0.000	0.000	0.009	0.009
20-Dec-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001
21-Dec-10	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.081	0.081
22-Dec-10	0.003	0.000	0.001	0.000	0.000	0.000	0.000	0.004	0.004
23-Dec-10	0.000	0.031	0.001	0.000	0.000	0.000	0.000	0.032	0.032
24-Dec-10	0.000	0.000	0.041	0.000	0.000	0.000	0.000	0.041	0.041
25-Dec-10	0.000	0.000	0.048	0.000	0.000	0.000	0.000	0.048	0.048
26-Dec-10	0.007	0.000	0.001	0.001	0.000	0.000	0.000	0.025	0.025
27-Dec-10	0.009	0.009	0.004	0.000	0.000	0.000	0.000	0.104	0.240
28-Dec-10	0.008	0.021	0.004	0.000	0.000	0.000	0.000	0.033	0.066
29-Dec-10	0.000	0.000	0.051	0.000	0.000	0.000	0.000	0.051	0.059
30-Dec-10	0.008	0.009	0.000	0.000	0.000	0.000	0.000	0.017	0.017
31-Dec-10	0.003	0.000	0.001	0.000	0.000	0.000	0.000	0.004	0.004
Total	0.123	0.296	0.250	0.001	0.000	0.000	0.599	1.621	2.084

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-Dec-10	51.158	2960	18:37:35	0	2960	2960	18:37:35	2960	0
2-Dec-10	51.350	2899	19:06:07	3	2902	2902	19:06:07	2899	3
3-Dec-10	53.411	2951	19:00	3	2954	2954	19:00	2951	3
4-Dec-10	51.357	3048	18:28:11	0	3048	3048	18:28:11	3048	0
5-Dec-10	50.255	2859	09:59:59	0	2859	2859	09:59:59	2859	0
6-Dec-10	52.202	2970	18:52:48	33	3003	3003	18:52:48	2970	33
7-Dec-10	53.422	2997	18:47:47	32	3029	2997	19:14:55	2997	0
8-Dec-10	54.382	3012	18:47:47	32	3044	3044	18:47:47	3012	32
9-Dec-10	53.405	3036	19:03:33	2	3038	3038	19:03:33	3036	2
10-Dec-10	54.768	3103	18:43:08	31	3134	3134	18:43:08	3103	31
11-Dec-10	53.031	2972	09:00	4	2976	2976	09:00	2972	4
12-Dec-10	50.610	3051	10:29:22	0	3051	3051	10:29:22	3051	0
13-Dec-10	52.464	3164	18:32:22	0	3164	3164	18:32:22	3164	0
14-Dec-10	52.779	3035	18:32:19	0	3035	3035	18:32:19	3035	0
15-Dec-10	52.780	3185	10:04:30	0	3185	3185	10:04:30	3185	0
16-Dec-10	52.564	3117	18:49:32	0	3117	3117	18:49:32	3117	0
17-Dec-10	52.933	3206	10:34:54	12	3218	3218	10:34:54	3206	12
18-Dec-10	51.501	3006	09:57:19	0	3006	3006	09:57:19	3006	0
19-Dec-10	50.043	3024	10:01:18	0	3024	3024	10:01:18	3024	0
20-Dec-10	55.574	3126	09:32:42	0	3126	3126	09:32:42	3126	0
21-Dec-10	55.947	3144	18:51:05	0	3144	3144	18:51:05	3144	0
22-Dec-10	54.868	3191	10:01:06	0	3191	3106	10:01:06	3106	0
23-Dec-10	54.711	3196	18:45:59	0	3196	3196	18:45:59	3196	0
24-Dec-10	55.285	3371	10:19:29	5	3376	3376	10:19:29	3371	5
25-Dec-10	52.907	3267	10:29:01	5	3272	3272	10:29:01	3267	5
26-Dec-10	51.388	3158	11:00	0	3158	3158	11:00	3158	0
27-Dec-10	56.530	3471	09:35:25	0	3471	3471	09:35:25	3471	0
28-Dec-10	60.322	3423	10:04:12	0	3423	3423	10:04:12	3423	0
29-Dec-10	60.397	3407	10:03:56	0	3407	3407	10:03:56	3407	0
30-Dec-10	59.444	3320	10:18:41	1	3321	3321	10:18:41	3320	1
31-Dec-10	61.006	3460	10:11:09	0	3460	3460	10:11:09	3460	0
Total	1672.795	3471 Max 27.12.10	09:35:25	12	3471	3471 Max 27.12.10			

10 LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING DECEMBER 2010 ON 27.12.2010 –3471MW at 09:35:25HRS.

All figures in MW

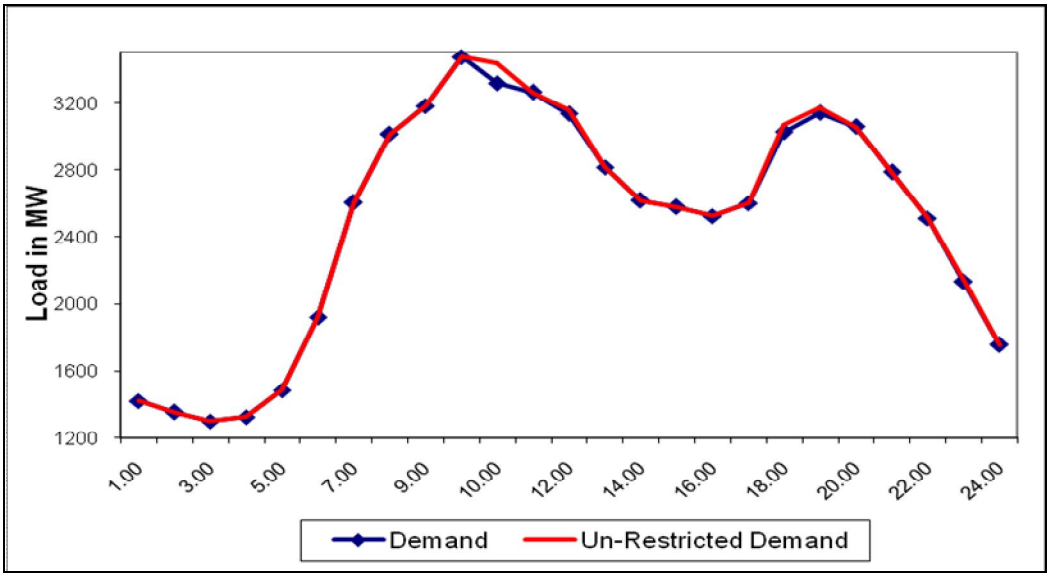
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1423	0	1423
2.00	1353	0	1353
3.00	1301	0	1301
4.00	1326	0	1326
5.00	1486	0	1486
6.00	1924	0	1924
7.00	2606	0	2606
8.00	3011	0	3011
9.00	3183	0	3183
9.35.25	3471	0	3471
10.00	3319	117	3436
11.00	3262	2	3264
12.00	3134	27	3161
13.00	2817	1	2818
14.00	2621	1	2622
15.00	2581	2	2583
16.00	2528	0	2528
17.00	2605	0	2605
18.00	3026	42	3068
19.00	3140	30	3170
20.00	3056	0	3056
21.00	2788	0	2788
22.00	2514	0	2514
23.00	2133	8	2141
24.00	1760	0	1760
ENERGY IN Mus	56.530	0.240	56.770



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING DECEMBER 2010 – 27.12.2010– 3471MW at 09:35:25HRS.

All figures in MW

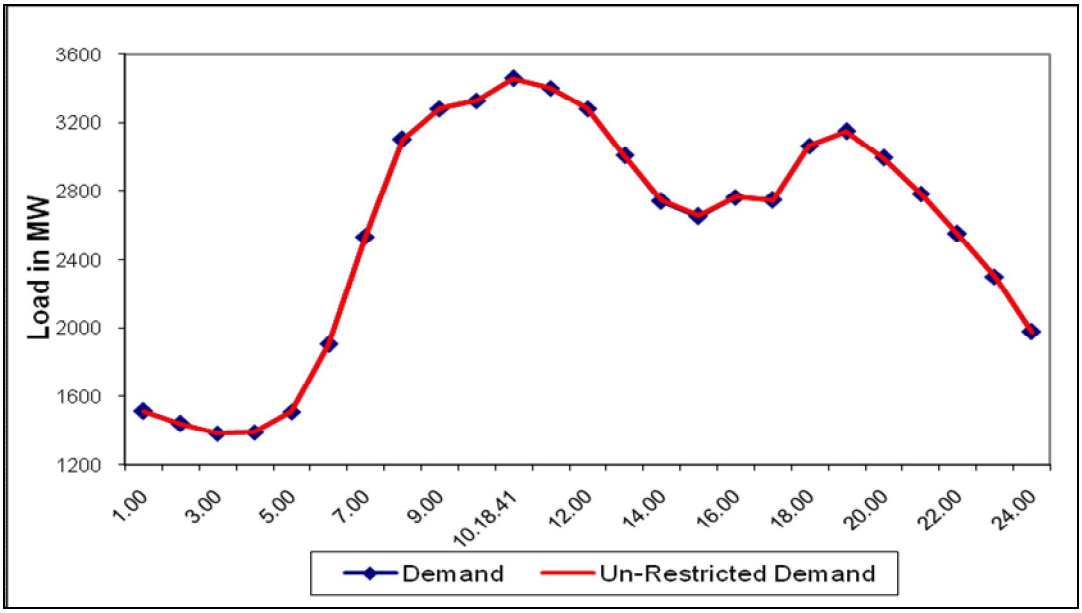
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1423	0	1423
2.00	1353	0	1353
3.00	1301	0	1301
4.00	1326	0	1326
5.00	1486	0	1486
6.00	1924	0	1924
7.00	2606	0	2606
8.00	3011	0	3011
9.00	3183	0	3183
9.35.25	3471	0	**3471**
10.00	3319	117	3436
11.00	3262	2	3264
12.00	3134	27	3161
13.00	2817	1	2818
14.00	2621	1	2622
15.00	2581	2	2583
16.00	2528	0	2528
17.00	2605	0	2605
18.00	3026	42	3068
19.00	3140	30	3170
20.00	3056	0	3056
21.00	2788	0	2788
22.00	2514	0	2514
23.00	2133	8	2141
24.00	1760	0	1760
ENERGY IN Mus	56.530	0.240	56.770



12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING DECEMBER 2010 – 31.12.2010 – 61.006 Mus

All figures in MW

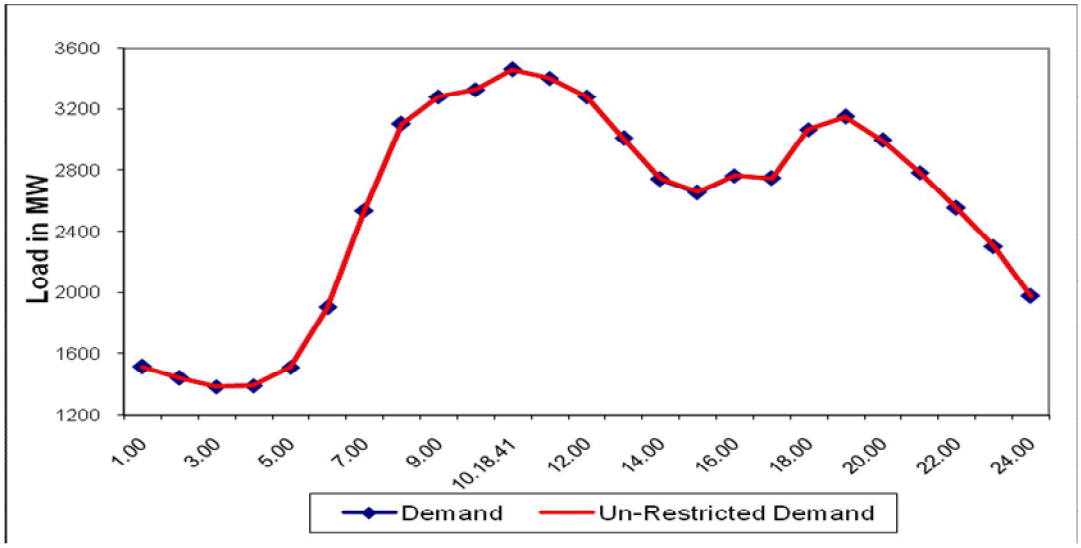
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1514	0	1514
2.00	1441	0	1441
3.00	1384	0	1384
4.00	1391	0	1391
5.00	1513	0	1513
6.00	1903	0	1903
7.00	2538	0	2538
8.00	3105	0	3105
9.00	3284	0	3284
10.00	3330	0	3330
11.00	3402	0	3402
12.00	3283	0	3283
13.00	3011	0	3011
14.00	2744	1	2745
15.00	2657	2	2659
16.00	2766	0	2766
17.00	2748	0	2748
18.00	3067	0	3067
19.00	3151	0	3151
20.00	2999	0	2999
21.00	2787	0	2787
22.00	2555	0	2555
23.00	2304	0	2304
24.00	1978	0	1978
ENERGY IN Mus	**61.006**	0.004	61.010



13 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING DECEMBER 2010 – 31.12.2010 – 66.010Mus

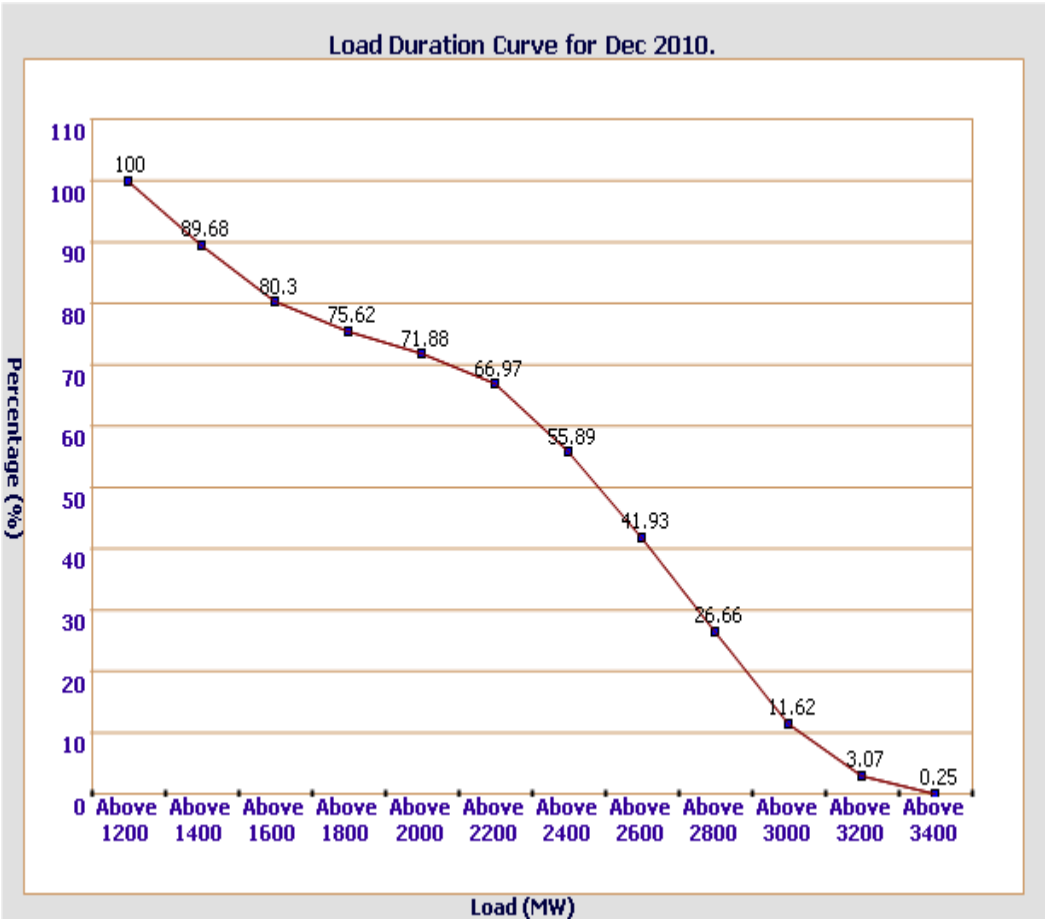
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1514	0	1514
2.00	1441	0	1441
3.00	1384	0	1384
4.00	1391	0	1391
5.00	1513	0	1513
6.00	1903	0	1903
7.00	2538	0	2538
8.00	3105	0	3105
9.00	3284	0	3284
10.00	3330	0	3330
11.00	3402	0	3402
12.00	3283	0	3283
13.00	3011	0	3011
14.00	2744	1	2745
15.00	2657	2	2659
16.00	2766	0	2766
17.00	2748	0	2748
18.00	3067	0	3067
19.00	3151	0	3151
20.00	2999	0	2999
21.00	2787	0	2787
22.00	2555	0	2555
23.00	2304	0	2304
24.00	1978	0	1978
ENERGY IN Mus	61.006	0.004	**61.010**



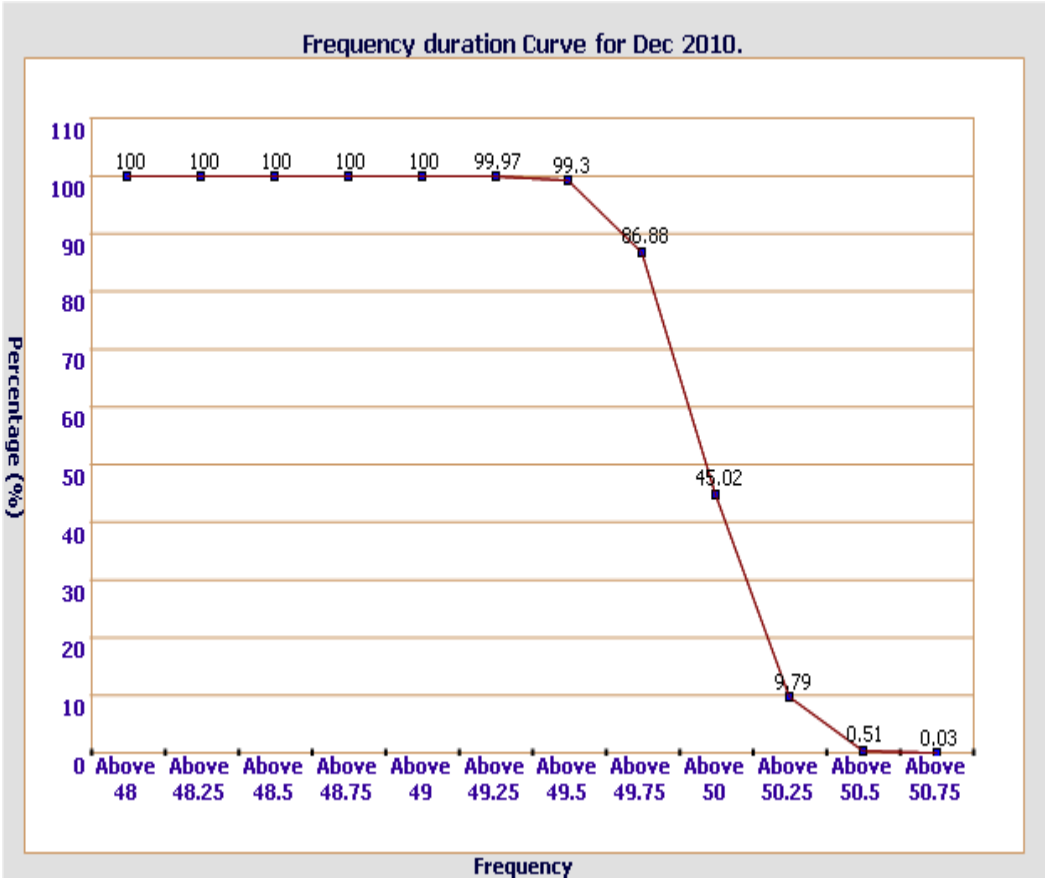
14 LOAD DURATION CURVE FOR DECEMBER 2010

Load in MW	Percentage of Time
Above 1200	100 %
Above 1400	89.68 %
Above 1600	80.3 %
Above 1800	75.62 %
Above 2000	71.88 %
Above 2200	66.97 %
Above 2400	55.89 %
Above 2600	41.93 %
Above 2800	26.66 %
Above 3000	11.62 %
Above 3200	3.07 %
Above 3400	0.25 %



15 FREQUENCY ANALYSIS FOR THE MONTH OF DECEMBER 2010

Frequency Range in Hz.	Percentage of time
Above 49.00	100 %
Above 49.25	99.87 %
Above 49.50	97.83 %
Above 49.75	80.84 %
Above 50.00	33.31 %
Above 50.25	2.58 %
Above 50.50	0.09 %
Above 50.75	0 %



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

All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
1-Dec-10	--	--	--	--
2-Dec-10	--	--	--	--
3-Dec-10	23.15	210.87	234.72	212.80
4-Dec-10	231.37	--	233.43	211.51
5-Dec-10	231.89	214.61	233.69	212.03
6-Dec-10	233.05	212.54	234.98	210.74
7-Dec-10	232.43	213.19	234.47	212.03
8-Dec-10	232.02	212.03	233.69	213.44
9-Dec-10	231.50	212.54	233.69	212.41
10-Dec-10	231.24	213.06	233.82	214.48
11-Dec-10	231.37	212.15	233.82	210.74
12-Dec-10	232.15	213.70	233.43	214.09
13-Dec-10	233.31	214.09	234.34	213.19
14-Dec-10	231.37	213.96	232.79	214.09
15-Dec-10	230.73	212.54	232.53	212.03
16-Dec-10	230.47	212.80	232.02	213.06
17-Dec-10	--	--	--	--
18-Dec-10	229.31	214.73	230.60	213.06
19-Dec-10	--	--	--	--
20-Dec-10	--	--	--	--
21-Dec-10	230.86	212.67	231.89	212.54
22-Dec-10	231.24	212.15	232.66	214.48
23-Dec-10	231.11	211.90	232.66	213.19
24-Dec-10	230.73	209.45	233.43	211.90
25-Dec-10	229.44	211.38	231.50	209.83
26-Dec-10	232.02	212.54	232.79	211.51
27-Dec-10	228.79	213.70	229.95	212.67
28-Dec-10	229.18	214.35	231.11	213.32
29-Dec-10	229.82	214.48	233.31	211.90
30-Dec-10	233.05	218.99	234.72	216.67
31-Dec-10	235.89	215.64	236.92	211.51

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

All figures in kV

Date	400kV Bamnauli Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
1-Dec-10	--	--	--	--	--
2-Dec-10	--	--	--	--	--
3-Dec-10	427.71	03.32.14	389.02	10.11.05	411.65
-Dec-10	425.13	04.12.48	388.08	12.09.31	407.01
5-Dec-10	425.60	03.01.48	390.19	10.40.51	409.48
6-Dec-10	427.47	02.54.14	385.27	10.30.59	408.24
7-Dec-10	426.54	03.09.24	388.78	14.50.20	407.34
8-Dec-10	425.13	03.11.30	388.80	12.30.27	408.26
9-Dec-10	425.13	02.25.10	388.78	09.32.12	407.24
10-Dec-10	423.25	03.16.59	388.78	11.18.35	406.00
11-Dec-10	423.72	03.05.55	384.09	10.10.08	405.87
12-Dec-10	422.79	03.14.00	389.02	10.07.21	409.32
13-Dec-10	424.19	--	388.55	--	406.15
14-Dec-10	421.61	02.06.57	389.02	10.05.47	404.80
15-Dec-10	421.61	03.07.49	386.91	09.52.31	403.32
16-Dec-10	420.44	03.06.38	386.20	14.34.08	404.14
17-Dec-10	--	--	--	--	--
18-Dec-10	418.56	05.04.14	390.19	10.07.10	403.84
19-Dec-10	--	--	--	--	--
20-Dec-10	--	--	--	--	--
21-Dec-10	420.91	--	387.85	--	404.55
22-Dec-10	421.61	03.03.10	389.02	10.11.07	405.28
23-Dec-10	421.85	--	388.78	--	404.32
24-Dec-10	423.02	03.05.26	385.50	10.20.59	403.48
25-Dec-10	419.74	02.05.34	383.16	09.14.58	403.96
26-Dec-10	421.61	03.00.35	386.20	12.43.26	402.52
27-Dec-10	416.69	03.46.47	385.74	13.42.57	401.06
28-Dec-10	418.33	04.01.13	387.85	14.08.56	404.65
29-Dec-10	422.08	03.09.08	387.85	09.14.42	404.33
30-Dec-10	425.36	03.09.56	398.40	09.38.48	410.89
31-Dec-10	429.59	03.11.25	391.60	18.11.16	408.22

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
1-Dec-10	--	--	--	--	--
2-Dec-10	--	--	--	--	--
3-Dec-10	429.12	03.32.04	389.25	14.16.08	414.44
4-Dec-10	426.54	04.05.47	395.12	12.09.51	411.44
5-Dec-10	428.88	03.31.50	396.29	12.45.17	413.23
6-Dec-10	429.82	02.54.24	389.72	10.39.50	411.10
7-Dec-10	428.41	03.10.54	391.13	14.50.20	409.40
8-Dec-10	427.24	03.11.40	--	11.56.06	415.05
9-Dec-10	429.59	02.26.50	393.24	10.08.45	412.86
10-Dec-10	428.88	03.16.09	395.12	11.18.35	412.31
11-Dec-10	429.12	03.03.55	390.43	10.11.48	412.17
12-Dec-10	428.88	03.14.00	395.82	10.07.11	415.61
13-Dec-10	430.76	--	395.58	--	412.90
14-Dec-10	427.71	03.13.20	395.58	10.05.47	411.43
15-Dec-10	427.47	03.06.29	393.94	09.52.31	410.07
16-Dec-10	426.54	03.35.19	393.24	14.34.08	410.83
17-Dec-10	--	--	--	--	--
18-Dec-10	424.19	03.31.09	396.99	10.06.20	410.45
19-Dec-10	--	--	--	--	--
20-Dec-10	--	--	--	--	--
21-Dec-10	426.77	--	386.44	--	411.00
22-Dec-10	426.77	03.03.10	394.41	10.27.48	411.16
23-Dec-10	427.24	--	394.41	--	410.12
24-Dec-10	428.65	03.05.46	391.36	09.36.57	409.38
25-Dec-10	425.36	02.06.04	390.43	09.11.57	409.41
26-Dec-10	427.94	03.00.25	391.60	12.42.56	408.38
27-Dec-10	422.55	03.59.57	393.24	13.40.37	408.46
28-Dec-10	423.72	03.27.41	392.30	14.17.36	409.17
29-Dec-10	426.07	03.09.28	393.24	13.46.38	408.86
30-Dec-10	428.88	03.06.25	404.03	09.38.48	415.71
31-Dec-10	433.81	02.04.20	398.16	18.09.56	413.31

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 DECEMBER 2010

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REAPRKS
	DATE	TIME		DATE	TIME	
01	01.12.10	13.42	220/66KV 100MVA PR. TR.-IV AT ROHINI	04.12.10	16.24	TR. TRIPPED ON 86A, 87 ALONG WITH ITS 66KV I/C WHICH TRIPPED ON INTER TRIPPING.
02	03.12.10	11.08	400KV BAMNAULI – MUNDKA CKT.	03.12.10	11.28	CKT.TRIPPED ON 186A&B, 85LO AT BAMNAULI
03	03.12.10	12.46	400KV BAMNAULI – MUNDKA CKT.	03.12.10	13.29	CKT.TRIPPED ON 186A&B, 85LO AT BAMNAULI
04	04.12.10	03.04	220/66KV 160MVA PR. TR-II AT PRAGATI	04.12.10	15.49	TR. TRIPPED ON 86, 87 ALONG WITH ITS 66KV I/C-II WHICH TRIPPED WITHOUT INDICATION.
05	04.12.10	12.46	400KV MANDOLA – BAWANA CKT-II	04.12.10	12.51	CKT. TRIPPED ON CB AUTO TRIP, DIST PROT AT BAWANA.
06	05.12.10	12.48	220KV NARELA – ROHTAK ROAD CKT-I	05.12.10	13.45	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-I AT NARELA.
07	06.12.10	00.51	220KV BAMNAULI – NAJAFGARH CKT-II	06.12.10	01.32	CKT. TRIPPED ON LOW AIR PRESSURE, DIST PROT `C' PHASE 186A&B AT BAMNAULI.
08	06.12.10	12.05	400/220KV 315MVA ICT-I & II AT MAHARANI BAGH	06.12.10	13.54	220KV BUS BAR PROTECTION OPERATED ON 220KV BUS-I AT MAHARANI BAGH.
09	06.12.10	23.54	220KV BAWANA - SHALIMAR BAGH CKT-II	07.12.10	00.50	CKT. TRIPPED ON 96B, BUS BAR PROTECTION, 186A&B, DIFFRENTIAL. `Y' PHASE POLE OF CKT BREAKER BLASTED.
10	06.12.10	23.54	220KV BAWANA - SHALIMAR BAGH CKT-I	07.12.10	00.32	220KV BUS BAR PROTECTION OPERATED AT SHALIMAR BAGH.
11	06.12.10	23.54	220/33KV 100MVA PR. TR.-II AT SHALIMAR BAGH	07.12.10	00.32	220KV BUS BAR PROTECTION OPERATED AT SHALIMAR BAGH.
12	06.12.10	23.54	220KV SHALIMAR BAGH – ROHINI CKT-II	07.12.10	00.50	220KV BUS BAR PROTECTION OPERATED AT SHALIMAR BAGH.
13	08.12.10	11.56	400KV BAWANA – MUNDKA CKT-I	08.12.10	13.18	CKT. TRIPPED ON 86A, 86B, TRIP SUPERVISIO RELAY AT MUNDKA.
14	10.12.10	10.50	220KV BAMNAULI – DIAL CKT-II	10.12.10	11.02	CKT. TRIPPED ALONG WITH 220KV BUS COUPLER. 220KV EXTERNAL BUS BAR PROTECTION OPERATED AT BAMNAULI.
15	14.12.10	07.20	66/33KV 30MVA PR. TR.-II AT PARKSTREET	14.12.10	19.25	TR. TRIPPED ON 30ABCD, BUCHLOZ, 30GHIJKL.
16	14.12.10	14.41	220KV PRAGATI – SARITA VIHAR CKT.	14.12.10	15.10	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-II A PRAGATI AND ON DIST PROT `C' PHASE ZONE-I AT SARITA VIHAR.
17	15.12.10	11.25	220/33KV 100MVA PR. TR.-IV AT OKHLA	15.12.10	19.52	TR. TRIPPED ON 86, INSTANTANEOUS E/F, O/C `R' PHASE ALONG WITH 33KC I/C-I & III. 33KV I/C-I TRIPPED ON 95, 86, 51 AND 33KV I/C-III TRIPPED ON 86, `R' PHASE O/C.
18	17.12.10	10.46	220KV MANDOLA – WAZIRABAD CKT-III	17.12.10	10.58	CKT. TRIPPED ON DIST PROT `RYB' PHASE AT WAZIRABAD.
19	20.12.10	07.55	66/11KV 20MVA PR. TR-II AT VASANT KUNJ	22.12.10	11:40	TR. TRIPPED ON OLTC BUCHLOZ, 86 ALONGWITH ITS 11KV I/C-II WHICH TRIPPED ON INTER TRIPPING.

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REAPRKS
	DATE	TIME		DATE	TIME	
20	21.12.10	08.20	220KV PRAGATI – IP CKT-I	21.12.10	08.40	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-I AT PRAGATI. NO TRIPPING AT IP.
21	21.12.10	08.20	220KV PATPARGANJ – IP CKT-I	21.12.10	08.29	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-I, 186 AT IP AND ON 86X-I, DIST PROT `ABC' PHASE ZONE-II AT PATPARGANJ.
22	21.12.10	08.20	220KV PATPARGANJ – GEETA COLONY CKT-I	21.12.10	08.40	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-III AT GEETA COLONY.
23	21.12.10	08.28	220KV RPH – IP CKT-I	21.12.10	09.15	CKT. TRIPPED ON AUTO TRIP, 186 AT RPH. NO TRIPPING AT IP.
24	22.12.10	08.25	400/220KV 315MVA ICT-IV AT BAMNAULI	22.12.10	10.58	ICT TRIPPED ON 52XC ALONG WITH ITS 220KV I/C-IV WHICH TRIPPED ON INTER TRIPPING.
25	22.12.10	15.47	220/66KV 160MVA PR. TR.-I & II AT RIDGE VALLEY	22.12.10	18:54	TR-I TRIPPED ON BUCHLOZ AND TR.-II TRIPPED ON E/F, 86A&B. TR.-II CHARGED ON 18.54HRS. ON 22.12.10.TR-I STILL UNDER B/D DUE TO PROBLEM IN TAP CHANGER.
26	23.12.10	10.50	220/33KV 100MVA PR. TR.-II AT LODHI ROAD	23.12.10	17.30	TR. TRIPPED ON LBB PROT, 86AB, 67AX, 67CX, 186A&B, AUTO RECLOSE.
27	24.12.10	11.58	220/66KV 160MVA PR. TR.-I AT PRAGATI	24.12.10	14.00	TR. TRIPPED ON 86
28	25.12.10	07.16	400KV MUNDKA – BAWANA CKT-I & II	25.12.10	10.02	400KV BAWANA CKT-I & II TRIPPED ON 186CO, 86CB AT MUNDKA. CKT-I & II CHARGED AT 07.33HRS. AND 10.02HRS. RESPECTIVELY.
29	25.12.10	07.16	400KV BAMNAULI – MUNDKA CKT-II	25.12.10	10.05	CKT. TRIPPED ON DIST PROT ZONE-I, 186A&B AT BAMNAULI.
30	25.12.10	11.00	220KV BTPS – MEHRAULI CKT-II	26.12.10	10.58	CKT. TRIPPED ON DIST PROT A' PHASE ZONE-I, ACTIVE GROUP-I AT MEHRAULI AND ON `A' PHASE E/F AT BTPS
31	25.12.10	13.16	220KV MAHARANI BAGH – PRAGATI CKT.	25.12.10	14.43	CKT. TRIPPED WITHOUT INDICATION AT MAHARANI BAGH.
32	25.12.10	23.57	220KV PANIPAT – NARELA CKT-I	26.12.10	22:24	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-I AT NARELA
33	26.12.10	00.16	220KV PANIPAT – NARELA CKT-III	26.12.10	22:24	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-II AT NARELA
34	26.12.10	00.20	220KV PANIPAT – NARELA CKT-II	26.12.10	22:24	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-I AT NARELA
35	26.12.10	00.25	400KV BAMNAULI – MUNDKA CKT-II	26.12.10	01.21	CKT. TRIPPED ON 186A&B, 30C-I, CARRIER, DIST PPROT CNZ-I ON BOTH CB AT BAMNAULI AND ON AUTO RECLOSE TRIP `B' PHASE, TRIP `Y' PHASE, CB AUTO PRESSUR ELOW, CVT FAILED AT MUNDKA.
36	26.12.10	00.25	400KV BAMNAULI – MUNDKA CKT-I	26.12.10	01.00	CKT. TRIPPED 186A&B, 3CH, CARRIER, DIST PROT `A' PHASE ZONE-II ON BOTH CB AT BAMNAULI. NO TRIPPING AT MUNDKA.
37	26.12.10	00.25	400KV BAWANA – MUNDKA CKT-I	26.12.10	00.52	CKT. TRIPPED ON TRIP PHASE `B' TRIP PHASE `Y', TRIP PHASE `B' AUTO RECLOSE LOCK OUT AT MUNDKA.
38	26.12.10	01.21	400KV MUNDKA – BAWANA CKT-I	26.12.10	01.35	CKT. TRIPPED ON DIFFERENCE IN PHASE, 1NCMG RUNNING VOLTAGE, VRY, VBR, DIFF. IN VOLTAGE AT MUNDKA.

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REAPRKS
	DATE	TIME		DATE	TIME	
39	26.12.10	01.21	400KV MUNDKA – BAMNAULI CKT-I	26.12.10	01.35	CKT. TRIPPED ON SYN, INCMG VOLTAGE LINE, RUNNING VOLTAGE BUS VRY, DIFF. IN VOLTAGE, DIFF. IN PHASE, DIFFERENCE IN FREQ.
40	26.12.10	01.47	220KV BTPS – SARITA VIHAR CKT-II	26.12.10	12.40	CKT. TRIPPED ON DIRECTIONAL E/F, 67NX AT BTPS AND ON AUTO RECLOSE `C' PHASE AT SARITA VIHAR.
41	26.12.10	01.58	400KV MANDOLA – BAWANA CKT-I	26.12.10	02.09	CKT. TRIPPED ON POLE DISCREPANCY, CB-I & II AUTO RECLOSE OPERATED, CARRIER CHANNEL-I & II FAIL, CB-I AUTO TRIP, MAIN CARRIER SIGNAL RECEIVED, CB-II AUTO TRIP MAIN-I & II : ANZ-I, DR-ANZ-I, 186A&B ON CB1652.
42	26.12.10	03.34	400KV MUNDKA – BAWANA CKT-I	26.12.10	03.38	CKT. TRIPPED ON `Y' PHASE-I, TRIP `R' PHASE-I, TRIP `B' PHASE-I, AUTOMATION S, PHASE `R', POSITION-I A MUNDKA.
43	26.12.10	03.34	400KV MUNDKA – BAMNAULI CKT-I	26.12.10	03.38	CKT. TRIPPED ON `Y' PHASE-I, TRIP R PHASE-I, TRIP PHASE B-I, AUTOMATION S PHASE R AT MUNDKA.
44	26.12.10	12.37	400KV MUNDKA – JHAHHAR CKT-II	26.12.10	15.47	CKT. TRIPPED ON 86LO AUTO RECLOSE LOCK OUT AT MUNDKA.
45	27.12.10	00.24	220KV BAWANA – SHALIMAR BAGH CKT-II	27.12.10	00.38	CKT. TRIPPED ON 186A&B, DIST PROT `C' PHASE AT BAWANA AND ON DIST PROT `C' PHASE, 186A&B, AUTO RECLOSE LOCK OUT AT SHALIMAR BAGH.
46	27.12.10	03.38	220KV SARITA VIHAR – PRAGATI CKT.	27.12.10	19:38	CKT. TRIPPED ON DIST PROT `A' PHASE ZONE-I AT SARITA VIHAR AND ON DIST PROT `ABC' PHASE ZONE-II AT PRAGATI.
47	27.12.10	03.45	220KV BTPS – SARITA VIHAR CKT-I & II	27.12.10	04.30	BOTH CKTS TRIPPEDON 67NX AT BTPS. CKT-I & II CHARGED AT 04.24HRS. AND 04.30HRS. RESPECTIVELY.
48	27.12.10	03.23	220KV BAWANA – NAJAFGARH CKT-II	27.12.10	04.36	CKT. TRIPPED ON NUMERICAL DIST PROT RELAY Z-1 DIST PROT `RYB'' AT BAWANA.
49	27.12.10	11.04	400KV MUNDKA – BAWANA CKT-I	27.12.10	11.45	CKT. TRIPPED ON 86A&B AT MUNDKA.
50	30.12.10	10.51	400KV MUNDKA – BAWANA CKT-II	30.12.10	11.06	CB-418-52 TRIPPED WITHOUT INDICATION AT MUNDKA. CKT. CLOSED AT 11.06HRS. BUT AGAIN TRIPPED AT 11.16HRS. ON 286LO, AIR PRESSURE LOW, AUTO RECLOSE LOCK OUT AT MUNDKA. CKT. CB FINALLY CLOSED AT 11.47HRS.

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

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