DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

****

DECEMBER - 2009

1 SALIENT FEATURES OF DELHI POWER SYSTEM

Sr. No.	Features	DEC 2009	DEC 2008
1	**Effective Generation Capacity within Delhi in MW**		
	Indraprastha Power Station	247.5	247.5
	Rajghat Power House	135	135
	Gas Turbine	270	282
	Pragati Power Corporation Ltd.	330	330
	Badapur Thermal Power Station	705	705
	Total	1687.5	1699.5
2	**Maximum Unrestricted Demand (MW)**	**3243**	**3182**
	Date	31.12.2009	31.12.2008
	Time	10:04:00	09:14:31
3	**Peak Demand met (MW)**	**3243**	**3153**
	Date	31.12.2009	31.12.2008
	Time	10:04:00	09:14:31
4	Peak Availability (MW)	3163	(-)2984
5	Shortage (-) / Surplus (+) in MW	(-)80	(-)169
6	Percentage Shortage (-) / Surplus (+)	(-)2.47	(-)5.36
7	Maximum Energy Consume in a day (Mus)	54.544	54.072
8	Energy Consumed during the month	**1562.147**	**1524.855**
9	**Load Shedding in Mus**		
A)	Due to Grid Restrictions		
i)	Under Frequency Relay Operations	0.020	0.070
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	0.000	0.000
	BYPL	0.000	0.000
	NDMC	0.000	0.000
	MES	0.000	0.000
iv)	Due to transmission Constraints in Central Sector	0.000	0.709
	Total due to Grid Restriction	**0.020**	0.779
B)	Due to Constraints in System in Mus		
	DTL	0.239	0.152
	NDPL	4.601	2.951
	BRPL	0.188	2.626
	BYPL	0.204	0.196
	NDMC	0.000	0.000
	MES	0.000	0.000
	Other Agencies	0.013	0.029
	Total	**5.245**	**5.954**
11	**Grand Total in Mus**	**5.265**	**6.733**

2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING DEC. 2009

A) For the month of December 2009

All Figures in MUs

S. No	Stations	Gross Generation	Aux. Consumption	Net Generation	Availability (%)	Backing Down
1.	**IP**	0.72000	0.42800	0.29200	--	--
2.	**RPH**	68.58500	8.54300	60.04200	68.38	--
3.	**GT**	107.76000	3.84500	103.91500	81.21	56.01250
4.	**PPCL**	230.34600	5.65500	224.69100	93.78	1.96750
5.	**BTPS**	385.30358	42.38340	342.92018	75.17	12.88125
	TOTAL	**792.71458**	**60.85440**	**731.86018**		**70.86125**

B) For the Year 2009-10 (Upto December 2009)

Power Station	Effecti ve Capaci ty (MW)	Net Gene- ration in MUs For Nov 09	Avail -ability (%) For Nov.'09	PLF (%) For Nov. 09	Cumulative Generation in MUs upto Nov. 09 for the year 2009-10	Cumulative Availability in % upto Nov. 09 for the year 2009-10	Cumulative PLF in % upto Nov 09 for the year 2009-10
IP	247.5	0.29200	--	--	386.166	--	--
RPH	135	60.04200	68.38	68.38	429.580	54.59	54.59
GT	282	103.91500	81.21	52.41	1111.592	74.38	64.15
PPCL	330	224.69100	93.78	92.95	1760.802	83.50	82.47
BTPS	705	342.92018	75.17	72.41	3681.11403	89.60	87.66
TOTAL	**1699.5**	**731.86018**			**7369.25403**		

3 DETAILS OF OUTAGES OF GENERATING STNS. WITHIN DELHI W.E.F. APRIL 2009

(A) IP STATION

Unit no.	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	**62.5**	03.04.09	07.02	03.04.09	08.58	D- Rediator Level not maintained.
		03.04.09	09.35	05.04.09	07.25	Loss of excitation
		21.04.09	05.22	27.04.09	23.05	Boiler Tube Leakage
		17.05.09	00.07	19.05.09	12.03	Problem in Bottom System
		19.05.09	21.20	20.05.09	02.15	Low vacuum
		22.05.09	14.39	22.05.09	16.15	Due to tripping of associated transmission lines.
		01.06.09	09.25	01.06.09	11.08	
		05.06.09	15.08	05.06.09	16.40	
		15.06.09	13.32	15.06.9	14.30	
		29.06.09	22.50	01.07.09	15.45	Boiler Tube Leakage
		06.07.09	12.40	06.07.09	13.53	Fire out.
		14.07.09	09.40	14.07.09	11.35	Due to tripping of associated transmission lines.
		28.07.09	10.53	28.07.09	20.15	Steam line burnt
		03.08.09	05.05	03.08.09	17.52	Problem in Boiler Feed Pump
		11.08.09	17.50	13.08.09	07.40	Boiler Tube Leakage
		27.08.09	17.30	08.09.09	20.28	Due to tripping of associated transmission lines. Could not synchronized due to Durator Valve Knob
		11.09.09	07.55	11.09.09	14.42	CHP Problem
		12.09.09	11.25	15.09.09	07.58	Boiler Tube Leakage
		26.09.09	21.45	29.09.09	17.52	Steam Leakage in Turbine
		29.09.09	20.15	30.09.09	08.18	Generator Stator Temp High
		08.10.09	18.18	11.10.09	13.42	Boiler Tube Leakage
		26.10.09	09.25	26.10.09	21.40	No Coal flow
		27.10.09	05.58	27.10.09	09.10	No Coal flow
		31.10.09	21.40			Unit stopped
3	**62.5**	06.04.09	13.38	09.04.09	07.07	Boiler Tube Leakage
		06.05.09	06.30	08.05.09	21.55	Boiler Tube Leakage
		19.05.09	21.11	20.05.09	04.58	Low vacuum
		28.05.09	09.22	28.05.09	11.35	Bus differential operation.
		01.06.09	09.29	01.06.09	11.52	Due to tripping of associated transmission lines.
		10.06.09	09.52	10.06.09	12.10	Vacuum Problem
		14.06.09	00.01	28.06.09	08.35	Boiler Tube Leakage
		12.07.09	10.50	15.07.09	00.12	Boiler Tube Leakage
		31.07.09	20.30	01.08.09	04.44	Due to jerk
		02.08.09	22.58	03.08.09	10.30	Low coal flow
		05.08.09	00.10	08.08.09	01.50	Condenser Tube Leakage
		11.08.09	09.30	11.08.09	15.43	No Coal Flow
		17.08.09	08.55	17.08.09	11.43	Due to tripping of associated transmission lines.
		17.08.09	14.01	18.08.09	23.55	Problem in Coal Bunker
		24.08.09	21.10	25.08.09	20.25	Shortage of DM Water.
		27.08.09	17.50	28.08.09	00.50	Due to tripping of associated transmission lines.
		28.08.09	22.50	06.09.09	14.02	Boiler Tube Leakage
		08.09.09	23.40	09.09.09	20.20	Condenser Tube Leakage
		24.09.09	12.15	27.09.09	07.30	ID Fan problem
		04.10.09	09.35	05.10.09	09.50	Leakage in Control Valve Pipe
		20.10.09	23.55	23.10.09	07.20	Coal Mill Problem
		28.10.09	21.30			Unit stopped

Unit no.	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
4	**62.5**	04.04.09	10.30	04.04.09	12.32	Electrocution Trip Device Alarm
		29.04.09	05.10	29.04.09	09.35	Coal mill problem
		29.04.09	12.43	13.05.09	16.43	Main Buchloz Relay Operated(Tx-4)
		19.05.09	21.11	24.05.09	15.05	Low vacuum
		25.05.09	19.42	27.05.09	23.15	Boiler Tube Leakage
		28.05.09	09.25	28.05.09	10.34	Bus differential operation.
		01.06.09	09.25	12.06	18.45	Reduction Gear Problem
		15.06.09	13.32	15.06.09	15.10	Due to tripping of associated transmission lines.
		22.06.09	20.57	24.06.09	04.40	Boiler Tube Leakage
		29.06.09	22.50	30.06.09	01.40	Due to tripping of associated transmission lines.
		04.07.09	06.00	15.07.09	16.25	Shortage of DM water
		26.07.09	15.55	27.07.09	07.12	Due to fire in boiler
		28.07.09	05.30	30.07.09	01.10	Shortage of coal
		03.08.09	07.30	03.08.09	08.58	Low Vacuum
		10.08.09	04.25	10.08.09	22.55	Coal Bunker Empty
		17.08.09	08.55	17.08.09	10.05	Coal Bunker Empty
		18.08.09	05.40	18.05.09	06.58	Low Coal Flow
		18.08.09	07.10	28.08.09	11.55	Condenser Tube Leakage
		28.08.09	14.45	29.08.09	13.12	Heavy Steam Leakage in Boiler
		04.09.09	01.55	04.09.09	11.32	Tripped on ETD
		04.09.09	14.40	06.09.09	04.45	Boiler Tube Leakage
		12.09.09	16.37	12.09.09	20.55	Fire out
		17.09.09	19.45	19.09.09	23.55	Boiler Tube Leakage
		03.10.09	18.27	17.10.09	05.30	Boiler Tube Leakage
		20.10.09	07.25	20.10.09	07.20	Coal mill problem
		20.10.09	23.55	23.10.09	15.16	Coal mill problem
		26.10.09	15.35	28.10.09	21.40	No coal availability
		29.10.09	18.22	29.10.09	22.50	No coal availability
		29.10.09	23.07	30.10.09	00.10	Heat Control valve leakage
		01.11.09	00.10	01.11.09	10.35	No coal availability
		02.11.09	13.47	02.11.09	17.18	Water level low
		03.11.09	10.15	04.11.09	17.34	No coal availability
		05.11.09	03.58	05.11.09	05.00	No coal availability
		05.11.09	09.12	05.11.09	18.18	No coal availability
		05.11.09	16.28	09.11.09	15.20	No coal availability
		10.11.09	21.40	24.11.09	13.40	Boiler Tube Leakage
		24.11.09	13.50	26.11.09	14.00	Boiler Tube Leakage
		27.11.09	18.10	27.11.09	20.45	No coal availability
		28.11.09	13.55	28.11.09	16.55	No coal availability
5	**60**	31.03.09	04.03	04.04.09	05.58	Electrocution Trip Device Alarm
		09.04.09	02.40	12.04.09	00.35	Boiler Tube Leakage
		12.04.09	17.40	15.04.09	16.45	Electrocution Trip Device Alarm
		15.04.09	19.43	18.04.09	23.17	Electrocution Trip Device Alarm
		22.04.09	19.02	24.04.09	16.00	Condenser Tube Leakage
		04.05.09	09.45	04.05.09	10.26	Tripped due to jerk due to tripping of 33kV Bay-29
		04.05.09	20.56	11.05.09	05.15	Fire in PA Fan
		15.05.09	23.18	16.05.09	07.40	Problem in RC Feeder

Unit no.	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
5	60	18.05.09	13.10	05.07.09	03.45	ID Fan Problem
		05.07.09	07.00	08.07.09	02.35	Boiler Tube Leakage
		08.07.09	10.30	12.07.09	03.24	Condenser Tube Leakage
		13.07.09	06.50	13.07.09	07.05	Drum level high
		13.07.09	07.50	13.07.09	23.25	Shortage of DM water
		14.07.09	09.42	14.07.09	18.55	Due to tripping of associated transmission lines
		26.07.09	16.02	28.07.09	20.05	Condenser Tube Leakage
		29.07.09	12.12.	29.07.09	12.55	Auxiliary supply failure
		31.07.09	07.35	31.07.09	08.35	Fire out
		06.08.09	20.48	11.08.09	08.30	Condenser Tube Leakage
		11.08.09	08.35	11.08.09	09.08	Low Vacuum
		15.08.09	05.02	15.08.09	17.10	Maintenance work
		17.08.09	11.28	19.08.09	18.50	Problem in coal bunker
		21.08.09	13.27	21.08.09	13.55	Tripped due to jerk
		23.08.09	21.01	29.08.09	22.50	Shortage of DM Water
		03.09.09	17.46	09.09.09	07.52	Vapour Fan5-1 & Mill 5-2 out
		09.09.09	13.40	13.09.09	13.15	Low vacuum
		17.09.09	12.45	17.09.09	18.25	Low vacuum
		19.09.09	18.22	19.09.09	19.20	Low vacuum
		20.09.09	12.42	27.09.09	12.47	Coal Mill Problem
		28.09.09	02.50	03.10.09	03.05	Boiler Tube Leakage
		03.10.09	18.09	31.10.09	18.50	Due to tripping of 33kV Bay-38
		04.10.09	22.58	12.10.09	13.55	Boiler Tube Leakage
		14.10.09	20.00	16.10.00	14.20	Boiler Tube Leakage
		17.10.09	21.55	18.10.09	06.35	Coal not available
		22.10.09	09.45	01.11.09	03.20	Boiler Tube Leakage
		02.11.09	17.40	23.11.09	16.10	No coal availability
		24.11.09	02.05			Unit stopped

(B) RPH STATION

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	**67.5**	05.04.09	07.05	05.04.09	08.05	Bus Bar Protection Operated
		10.04.09	08.48	10.04.09	19.33	Condenser Tube Leakage
		09.05.09	03.16	09.05.09	09.46	Cooling Line Problem
		12.05.09	20.05	13.05.09	14.26	Turbine Vibration High
		22.05.09	14.39	22.05.09	10.02	Tripped due to tripping of associated transmission lines
		01.06.09	09.24	01.06.09	10.35	
		05.06.09	15.10	05.06.09	17.16	
		15.06.09	13.35	15.06.09	15.20	
		29.06.09	15.40	29.06.09	20.50	
		03.07.09	01.20	06.07.09	14.20	Thrust bearing maintenance.
		06.07.09	23.33	07.07.09	15.22	Condenser Vacuum low
		07.07.09	20.09	07.07.09	20.42	Flam failure
		14.07.09	09.42	14.07.09	14.48	Tripped due to tripping of associated transmission lines
		15.07.09	22.30	18.07.09	11.05	Condenser Tube Leakage
		18.07.09	11.20	18.07.09	12.05	Boiler Flame Failure
		28.07.09	15.27	28.07.09	16.22	Flame Failure

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	67.5	28.07.09	18.03	28.07.09	18.39	Flame Failure
		30.07.09	10.52	31.07.09	11.40	Condenser Tube Leakage
		31.07.09	12.32	31.07.09	13.15	Drum level high
		01.08.09	07.52	01.08.09	08.55	Jerk due to appearance of money in yard
		01.08.09	18.20	01.08.09	19.01	Flame failure
		02.08.09	15.19	02.08.09	15.45	Flame failure
		07.08.09	10.44	07.08.09	11..31	Flame failure
		09.08.09	03.55	09.08.09	04.25	Flame failure
		21.08.09	14.34	21.08.09	18.00	Buchloz Relay operated
		23.08.09	19.31	23.08.09	20.07	Burner Pressure High
		25.08.09	17.50	25.08.09	18.25	High Furnace pressure.
		27.08.09	17.35	27.08.09	20.30	Boiler flame failure
		01.09.09	05.26	01.09.09	06.18	Flame failure
		01.09.09	10.17	02.09.09	11.48	Tripped due to tripping of associated transmission lines
		06.09.09	18.35	06.09.09	18.58	Flame failure
		11.09.09	04.38	11.09.09	05.05	Flame failure
		11.09.09	23.50	13.09.09	18.08	Boiler Tube Leakage
		13.09.09	19.51	13.09.09	22.32	Unit Auxiliary TX. tripped on E/F
		14.09.09	06.58	14.09.09	07.50	Flame failure
		16.09.09	05.24	16.09.09	05.59	Flame failure
		02.10.09	09.43	03.10.09	10.09	To attend various leakages
		03.10.09	10.58	03.10.09	11.14	Flame failure
		10.10.09	17.03	11.10.09	02.35	To attend raw water
		02.11.09	22.24	02.11.09	23.01	Control supply fail
		11.11.09	20.00	13.11.09	13.58	Condenser Tube Leakage
		25.11.09	21.30	25.11.09	23.00	To attend diesel generator set
		04.12.09	09.30	04.12.09	10.07	Flame failure
		09.12.09	16.23	09.12.09	17.23	Turbine Trip
		10.12.09	02.25	10.12.09	02.50	Turbine Trip
		10.12.09	08.35	12.12.09	00.46	Boiler Tube Leakage
		16.12.09	10.16	16.12.09	11.23	Turbine Trip
		23.12.09	04.50	23.12.09	13.56	Turbine Trip
		26.12.09	10.45	26.12.09	11.45	Drum level low
		29.12.09	13.16	29.12.09	14.35	Drum level low.
2	67.5	05.04.09	07.05	05.04.09	08.05	Bus Bar Protection Operated
		09.04.09	02.26	09.04.09	23.20	Boiler Tube Leakage
		25.04.09	19.30	25.04.09	21.52	Shaft Vibration High
		08.05.09	08.54	09.05.09	10.05	Condenser Tube Leakage
		11.05.09	20.49	11.05.09	22.10	Turbine Vibration high
		20.05.09	10.04	20.05.09	12.05	Turbine Vibration high
		22.05.09	14.39	23.05.09	00.41	Tripped due to tripping of associated transmission lines
		01.06.09	09.24	01.06.09	11.10	
		01.06.09	11.42	01.06.09	13.20	Low vacuum
		05.06.09	15.10	05.06.09	17.45	Tripped due to tripping of associated transmission lines
		07.06.09	07.25	07.06.09	21.06	To check Turbine in Auxiliary
		15.06.09	13.35	15.06.09	15.27	Tripped due to tripping of associated transmission lines

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	67.5	06.07.09	23.34	07.07.09	15.20	Condenser Vacuum low
		10.07.09	22.08	10.07.09	23.08	Condenser Vacuum low
		14.07.09	09.42	14.07.09	15.20	Tripped due to tripping of associated transmission lines
		18.07.09	20.20	19.07.09	11.45	Electrical Fault
		01.08.09	01.15	03.08.09	05.58	Condenser Tube Leakage
		21.08.09	16.28	21.08.09	18.54	Furnace Pressure High
		27.08.09	17.51	27.08.9	22.08	Tripped due to tripping of associated transmission lines
		28.08.09	00.18	28.08.09	01.33	Turbine Tripped
		28.08.09	03.16	28.08.09	04.33	Turbine Tripped
		28.08.09	03.57	29.08.09	04.15	Turbine Tripped
		29.08.09	12.25	30.08.09	00.38	Condenser Tube Leakage
		31.08.09	18.03	31.08.09	19.07	Low Vacuum
		02.09.09	10.17	02.09.09	11.52	Tripped due to tripping of associated transmission lines
		10.09.09	08.23	10.09.09	17.20	Stator Earth Fault
		12.09.09	16.10	30.11.09	08.24	For major overhauling
		30.11.09	14.36	30.11.09	19.41	Shaft vibration high
		01.12.09	00.08	01.12.09	04.20	Turbine problem
		01.12.09	21.14	01.12.09	22.56	Drum level low
		05.12.09	15.30	05.12.09	17.59	Turbine failure
		06.12.09	18.35	06.12.09	20.05	Turbine failure
		11.12.09	06.24	11.12.09	07.26	Turbine failure
		14.12.09	15.52	18.12.09	15.07	Boiler Tube Leakage
		18.12.09	21.05	22.12.09	20.32	Boiler Tube Leakage

(C) Gas Turbine

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	30	15.04.09	16.15	16.04.09	22.55	Due to overloading on 100 MVA Tr
		05.05.09	08.01	05.05.09	13.00	
		05.05.09	13.00	05.05.09	19.45	For installing the ABT Meter.
		12.06.09	15.15	12.06.09	15.44	FSNL due to tripping of 160 MVA Tx at both end
		28.06.09	06.02	29.06.9	00.28	To attend HSD leakage from the Nozzles.
		08.07.09	23.54	09.07.09	02.07	Due to combined cycle trip alarm.
		09.07.09	11.40	17.07.09	08.55	To attend the GT duct for HRSG# 1.
		17.07.09	13.16	17.07.09	16.14	Emergency manual trip alarm
		19.07.09	05.29	19.07.09	07.20	Tripped due to blast in the breaker of 5 MVA in switch gear room..
		21.08.09	16.49	21.08.09	18.11	SF6 gas pressure low
		23.08.09	06.05	23.08.09	21.10	Gas Restriction
		28.08.09	04.32	28.08.09	05.45	Exhaust Temperature High
		01.09.09	22.35	02.09.09	03.25	Electrical Problem
		13.09.09	11.35	13.09.09	18.25	To charge 66KV Dead Bus from Grid.
		17.09.09	10.54	17.09.09	16.50	Tripped due to Grid failure.
		17.09.09	19.40	17.09.09	22.55	Gas restriction
		20.09.09	06.02	20.09.09	09.45	Gas restriction
		23.09.09	06.27	23.09.09	08.02	Loss of flame.
		23.09.09	16.15	24.09.09	00.05	To repair liquid fuel pump
		24.09.09	11.30	24.09.09	20.10	To replace liquid fuel pump.
		26.09.09	08.05	26.09.09	08.10	Came on FSNL due to jerk
		26.09.09	22.15	26.09.09	23.13	High Exhaust Temperature
		30.09.09	11.47	30.09.09	13.55	Tripped on gen. over current alarm

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	30	09.10.09	22.40	10.10.09	02.50	Generator O/C, Over voltage alarm appeared on protection panel.
		30.10.09	15.10	30.10.09	15.30	Tripped due to Grid Failure
		04.11.09	19.50	04.11.09	20.28	Failure of supply to HSD pump.
		17.11.09	14.15	18.11.09	17.58	Gas restriction
		01.12.09	18.15	10.12.09	14.15	Available on liquid fuel
		11.12.09	13.37	11.12.09	14.15	Tripped on high TAD
2	30	02.04.09	12.47	03.04.09	05.55	Gas Restriction
		08.04.09	12.02	30.04.09	24.00	Major Overhauling
		01.05.09	00.00	19.05.09	13.35	Stopped for Major Inspection.
		22.05.09	20.10	23.05.09	21.50	Swapping of gas to PPCL
		24.05.09	11.05	26.05.09	14.20	Available on Open Cycle
		28.05.09	01.05	28.05.09	11.38	Gas Restriction
		28.05.09	12.00	28.05.09	13.14	Gas Restriction
		30.0.09	12.55	30.05.09	19.58	Gas Restriction
		30.05.09	22.32	31.05.09	23.59	Gas Restriction
		01.06.09	00.00	01.06.09	19.42	Gas Restriction
		03.06.09	05.50	03.06.09	17.14	Gas Restriction
		04.06.09	06.32	04.06.09	09.35	Gas Restriction
		05.06.09	11.30	05.06.09	19.35	Gas Restriction
		07.06.09	01.48	07.06.09	18.45	Gas Restriction
		08.06.09	00.10	08.06.09	18.20	To attending Leakages
		09.06.09	00.02	09.06.09	10.35	To attending Leakages
		10.06.09	07.09	10.06.09	17.50	To attending Leakages
		11.06.09	07.47	11.06.09	19.55	To attending Leakages
		12.06.09	03.02	15.06.09	19.20	Swapping of gas to PPCL
		16.06.09	06.02	16.06.09	15.25	Swapping of gas to PPCL
		16.06.09	15.55	16.06.09	20.45	Exhaust Temperature high
		16.06.09	20.45	17.06.09	01.20	Gas Restriction
		17.06.09	01.32	17.06.09	10.27	Exhaust Temperature high
		17.06.09	11.30	17.06.09	14.32	Gas Restriction
		18.06.09	00.02	21.06.09	11.20	Swapping of gas to PPCL
		24.06.09	00.32	25.06.09	09.50	Swapping of gas to PPCL
		26.06.09	22.25	26.06.09	22.55	Exhaust Temperature high
		30.06.09	20.20	02.07	14.05	Gas Restriction
		02.07.09	18.32	03.07.09	03.15	Gas Restriction
		03.07.09	18.02	03.07.09	23.50	Gas Restriction
		04.07.09	01.05	04.07.09	16.10	Gas Restriction
		19.07.09	05.29	19.07.09	06.38	Due to blast in the breaker of 5 MVA in switch gear room.
		22.07.09	04.04	23.07.09	13.20	To attend lube oil leakages.
		04.08.09	07.25	04.08.09	08.13	Tripped while changing over from Gas to liquid fuel as the Distilite fuel pump-1 did not start on Auto.
		05.08.09	15.04	05.08.09	15.40	Exhaust Temperature High
		23.08.09	21.15	23.08.09	23.11	Gas Restriction
		23.08.09	23.11	20.09.09	00.52	High vibration at 1800 RPM
		03.10.09	06.02	03.10.09	09.40	Turbine under speed alarm appeared
		04.10.09	01.53	04.10.09	05.55	Exhaust Temperature High
		07.10.09	20.38	08.10.09	16.10	Gas Restriction
		30.10.09	15.10	30.10.09	16.29	Tripped due to Grid Failure

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	30	04.11.09	14.16	04.11.09	16.25	Stopped due GAD running high
		04.11.09	19.50	04.11.09	20.35	Failure of supply to HSD pump
		19.11.09	04.32	19.11.09	15.40	Gas fuel Pressure low.
		23.11.09	00.43	23.11.09	03.38	Low lube oil pressure
		30.11.09	19.05	12.12.09	11.35	Available on liquid fuel
		19.12.09	11.05	22.12.09	19.25	
		23.12.09	20.45	23.12.09	22.45	
3	30	29.04.09	00.50	29.04.09	03.29	LTTH High
		07.05.09	09.02	07.05.09	22.23	Swapping of gas to PPCL
		17.05.09	12.42	17.05.09	17.42	Lube oil temperature high
		19.05.09	12.45	22.05.09	19.40	Swapping of gas to PPCL
		02.06.09	00.25	02.06.09	19.28	Swapping of gas to PPCL
		09.06.09	23.02	10.06.09	06.52	Swapping of gas to PPCL
		12.06.09	00.00	12.06.09	12.13	Swapping of gas to PPCL
		12.06.09	15.15	12.06.09	20.07	Due to tripping of 160 MVA Tx at both end
		15.06.09	13.30	15.06.09	14.45	
		16.06.09	19.10	17.06.09	09.45	Swapping of gas to PPCL
		17.06.09	19.45	18.06.09	12.55	Swapping of gas to PPCL
		21.06.09	12.30	22.06.09	00.28	Swapping of gas to PPCL
		22.06.09	03.00	22.06.09	09.57	Swapping of gas to PPCL
		22.06.09	22.15	23.06.09	12.40	Swapping of gas to PPCL
		29.06.09	11.45	29.06.09	19.27	To attend leakage in HRSG#3
		30.06.09	01.32	30.06.09	11.55	Swapping of gas to PPCL
		30.06.09	23.30	01.07.09	05.58	Swapping of gas to PPCL
		07.07.09	05.42	07.07.09	13.47	Malfunctioning of Battery Charger.
		19.07.09	05.29	19.07.09	08.50	Due to blast in the breaker of 5 MVA in switch gear room.
		27.07.09	20.50	27.07.09	23.07	Tripped on loss of flame.
		15.08.09	10.15	15.08.09	20.55	Gas Restriction
		21.08.09	14.38	21.08.09	16.58	Loss of flame
		31.08.09	21.50	31.08.09	23.59	Tripped without any Audio alarm.
		13.09.09	09.50	13.09.09	10.41	Tripped due to Grid failure.
		13.09.09	11.20	13.09.09	16.15	To charge 66 KV Dead Bus from Grid.
		17.09.09	10.54	17.09.09	12.20	Tripped due to Grid failure.
		20.09.09	09.55	21.09.09	23.34	To provide shut down on 160MVA Tx
		13.10.09	00.05	13.10.09	18.40	Gas restriction
		13.10.09	20.05	14.10.09	20.10	
		14.10.09	22.05	15.10.09	18.02	
		16.10.09	22.03	17.10.09	18.02	
		17.10.09	20.08	18.10.09	18.02	
		18.10.09	20.05	19.10.09	18.45	
		19.10.09	20.05	20.10.09	18.05	
		21.10.09	00.01	21.10.09	18.00	
		21.10.09	20.05	22.10.09	17.45	
		23.10.09	06.10	23.10.09	11.28	
		29.10.09	21.02	29.10.09	23.50	
		30.10.09	15.10	30.10.09	15.58	Tripped due to Grid Failure
		31.10.09	07.02	31.10.09	18.04	Gas restriction

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
3	30	01.11.09	10.04	02.11.09	10.15	Gas restriction
		05.11.09	14.05	05.11.09	14.56	High LTTH
		05.11.09	18.54	06.11.09	09.40	Gas restriction
		06.11.09	16.35	07.11.09	12.15	Gas restriction
		08.11.09	00.10	08.11.09	14.59	Gas restriction
		13.11.09	14.32	14.11.09	18.40	Gas restriction
		20.11.09	01.46	20.11.09	18.40	Gas restriction
		20.11.09	11.02	24.11.09	03.59	Gas restriction
		05.12.09	12.32	05.12.09	16.51	Stopped to replace Generator absolute filter.
		10.12.09	15.47	14.12.09	07.30	Available on liquid fire
		14.12.09	15.05	14.12.09	21.20	
		15.12.09	00.16	15.12.09	07.45	
		15.12.09	15.00	16.12.09	18.08	
		17.12.09	00.05	21.12.09	22.55	
		22.12.09	19.30	31.12.09	23.59	
4	30	10.04.09	11.32	10.04.09	15.20	Gas Restriction
		08.05.09	09.10	09.05.09	01.20	Swapping of gas to PPCL
		10.05.09	17.24	10.05.09	20.25	High exhaust temperature
		13.05.09	22.10	13.05.09	23.59	Swapping of gas to PPCL
		24.05.09	11.05	25.05.09	21.20	Gas Restriction
		31.05.09	08.35	31.05.09	08.42	To close 66 KV Bus Coupler.
		13.06.09	06.10	13.06.09	18.20	Swapping of gas to PPCL
		14.06.09	15.04	16.06.09	02.38	Swapping of gas to PPCL
		26.06.09	01.100	26.06.09	13.27	Swapping of gas to PPCL
		04.07.09	16.25	05.07.09	20.02	Swapping of gas to PPCL
		05.07.09	20.28	07.07.09	19.50	Lube oil pressure low
		13.07.09	16.03	28.07.09	15.28	High exhaust temperature
		11.08.09	13.55	11.08.09	18.50	Electrical trouble
		21.08.09	16.39	21.08.09	18.37	Electrical trouble
		21.08.09	18.40	21.08.09	22.15	Electrical trouble
		10.09.09	16.25	10.09.09	18.57	Came on FSNL & reverse power operated on protection panel.
		13.09.09	09.50	13.09.09	14.10	Came on FSNL due to Grid failure
		17.09.09	10.54	17.09.09	12.25	Tripped due to Grid failure
		20.09.09	01.15	21.09.09	22.50	Swapping of gas to PPCL.
		24.09.09	13.58	24.09.09	16.15	To check load hunting
		27.09.09	20.10	29.09.09	11.07	Swapping of gas to PPCL.
		29.09.09	11.41	29.09.09	12.40	Gas fuel hydraulic trip pressure low
		29.09.09	13.33	29.09.09	16.10	Gas fuel hydraulic trip pressure low
		04.10.09	13.40	07.10.09	19.20	Stopped as liquid fuel generation not required by SLDC
		09.10.09	14.26	09.10.09	19.02	
		10.10.09	11.05	10.10.09	19.12	
		11.10.09	03.50	11.10.09	18.25	
		15.10.09	20.40	16.10.09	18.50	
		22.10.09	07.05	22.10.09	17.55	
		23.10.09	06.15	23.10.09	09.50	
		24.10.09	08.09	24.10.09	10.55	
		25.10.09	07.20	25.10.09	18.02	

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
4	**30**	25.10.09	21.47	26.10.09	09.45	Stopped as liquid fuel generation not required by SLDC
		25.10.09	21.47	26.10.09	09.45	
		27.10.09	08.02	27.10.09	21.08	
		30.10.09	15.10	30.10.09	16.27	
		02.11.09	18.00	03.11.09	11.30	
		03.11.09	11.30	05.11.09	18.45	
		09.11.09	00.35	10.11.09	18.18	
		10.11.09	20.15	11.11.09	18.58	
		12.11.09	00.40	13.11.09	07.25	
		15.11.09	01.05	18.11.09	14.05	
		03.12.09	13.00	03.12.09	15.35	Stopped to replace Generator absolute filter.
		12.12.09	11.50	14.12.09	07.37	Stopped as liquid fuel generation not required by SLDC
		14.12.09	15.05	14.12.09	21.10	
		15.12.09	00.20	15.12.09	07.20	
		15.12.09	15.00	16.12.09	17.42	
		17.12.09	00.07	19.12.09	07.40	
		23.12.09	22.50	24.12.09	18.45	
		25.12.09	01.25	25.12.09	07.05	
5	**30**	18.04.09	06.02	18.04.09	11.45	HRSG Leakage
		24.04.09	08.02	24.04.09	19.30	Due to planned shut-down of 220/66kV 160MVA Pr. Tr.
		26.04.09	09.35	26.04.09	21.18	
		09.05.09	00.56	09.05.09	17.25	C&I Problem
		10.05.09	14.52	10.05.09	17.15	High exhaust temp.
		31.05.09	08.32	31.05.09	12.38	To close 66 KV Bus Coupler
		15.06.09	13.30	15.06.09	15.10	Due to tripping of 100 MVA Tx.
		16.07.09	11.45	16.07.09	23.05	C&I problem
		19.07.09	05.29	19.07.09	06.45	Due to blast in the breaker of 5 MVA in switch gear room..
		10.09.09	20.05	10.09.09	21.07	Swapping of gas to PPCL.
		12.09.09	13.17	13.09.09	11.53	Swapping of gas to PPCL.
		15.09.09	10.32	16.09.09	10.52	Swapping of gas to PPCL.
		17.09.09	10.54	17.09.09	12.00	Swapping of gas to PPCL.
		09.10.09	11.10	09.10.09	18.25	Hydraulic Protection Trouble and Lube oil header temperature low
		28.10.09	01.05	28.10.09	17.35	Stopped as liquid fuel generation not required by SLDC
		30.10.09	15.10	30.10.09	16.04	
		04.11.09	20.36	06.11.09	09.52	
		06.11.09	12.45	09.11.09	19.10	
		10.11.09	20.45	11.11.09	00.50	
		12.11.09	05.56	12.11.09	19.15	
		24.11.09	13.02	25.11.09	23.12	
		26.11.09	10.46	01.12.09	14.35	
		06.12.09	14.40	06.12.09	16.04	Stopped to attend Mark-IV system
		21.12.09	12.45	23.12.09	23.40	Stopped as liquid fuel generation not required by SLDC
		25.12.09	09.05	31.12.09	23.59	
6	**30**	29.04.09	17.26	29.04.09	22.55	Electrical Fault
		09.05.09	14.32	09.05.09	23.59	To install ABT -complaint meters.
		10.05.09	15.35	10.05.09	16.43	Tripped without out any alarm
		11.05.09	22.02	12.05.09	17.44	Swapping of gas to PPCL

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
6	**30**	16.05.09	00.32	16.05.09	13.46	Swapping of gas to PPCL
		26.05.09	14.31	26.05.09	17.50	To replace Gen. differential relay.
		31.05.09	08.35	31.05.09	08.42	To close 66 KV Bus Coupler.
		15.06.09	13.30	15.06.09	14.10	Due to tripping of 100 MVA Tx at both end.
		30.06.09	2330	01.07.09	06.42	Swapping of gas to PPCL
		12.07.09	02.40	12.07.09	14.25	Loss of Excitation
		19.07.09	13.28	19.07.09	13.50	FSNL due to Gen. Over heating alarm appearing on protection panel
		19.07.09	17.50	19.07.09	18.35	
		29.07.09	15.40	29.07.09	20.25	Electrical Problem
		21.08.09	16.37	22.08.09	19.40	Tripped on preignition pressure p-2 high and Battery ground alarm
		04.09.09	18.15	06.09.09	15.55	Gas Restriction
		10.09.09	20.15	11.09.09	19.20	Lss of excitation.
		13.09.09	09.50	13.09.09	10.43	Came on FSNl due to Grid failure
		16.09.09	06.04	16.09.09	15.20	Gas Restriction
		17.09.09	10.54	17.09.09	12.32	Tripped due to failure of Grid
		17.09.09	22.20	17.09.09	23.40	Loss of Excitation
		26.09.09	08.05	26.09.09	08.21	Came on FSNL due to jerk
		28.09.09	18.55	29.09.09	12.05	Gas Restriction
		13.10.09	00.06	13.10.09	15.15	Gas Restriction
		14.10.09	23.46	15.10.09	06.10	Gas Restriction
		30.10.09	15.10	30.10.09	15.37	Tripped due to Grid Failure
		03.11.09	16.13	04.11.09	15.18	Stopped as liquid fuel generation not required by SLDC
		12.11.09	06.32	14.11.09	00.02	
		14.11.09	05.58	15.11.09	22.05	
		16.11.09	12.05	23.11.09	00.05	
		23.11.09	14.35	30.11.09	11.50	
		24.12.09	00.40	24.12.09	16.05	Swapping of gas to PPCL
STG1	**34**	06.04.09	10.30	08.04.09	12.00	BTL
		21.04.09	00.05	22.04.09	21.10	Maintenance work
		28.04.09	08.33	29.04.09	16.20	HRSG Leakage
		30.04.09	11.58	30.04.09	12.28	AVR System Problem
		01.05.09	16.58	01.05.09	20.33	Tripped due to CEP 1-A tripped.
		03.05.09	23.10	04.05.09	04.40	Tripped due to disappearance of drum parameters
		05.05.09	08.01	06.05.09	01.05	Stopped due to stopping of GT-1 since only HRSG-I in service.
		13.05.09	11.20	13.05.09	14.27	Tripped while change over Auxiliary supply from 7.5 MVA to 20 MVA.
		13.05.09	18.06	13.05.09	19.40	Tripped on false alarm of HRSG# I
		22.05.09	19.42	22.05.09	22.05	Malfunctioning of parameters
		31.05.09	08.35	31.05.09	21.28	Failure of 800 KVA transformer.
		02.06.09	18.13	02.06.09	19.20	Due to tripping of BFP-1A & HRSG# 1 & 2.
		06.06.09	22.02	07.06.09	23.40	Stopped to attend various leakages.
		12.06.09	15.15	12.06.09	16.53	Due to tripping of 160 MVA Tx at both end
		15.06.09	13.30	15.06.09	14.42	Due to tripping of 100 MVA Tx.
		20.06.09	06.02	20.06.09	23.48	Stopped to attend various leakages.
		26.06.09	04.05	26.06.09	04.25	Tripped on low hot well level
		30.06.09	13.00	30.06.09	20.05	To attend leakage at PRDS station

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG-1	34	09.07.09	04.45	09.07.09	08.20	Due to malfunctioning of parameters
		14.07.09	00.05	17.07.09	17.25	Toto attend tube leakage in HRSG#2
		19.07.09	05.29	19.07.09	07.58	Due to blast in the breaker of 5 MVA in switch gear room..
		21.07.09	08.38	21.07.09	09.28	Tripped due to tripping of 800 KVA transformer on instantaneous O/C
		28.07.09	18.05	28.07.09	18.26	Due to tripping of 7.5 MVA Tx
		09.08.09	17.55	09.08.09	19.47	Tripped due to alarm of GT-1 Tripped appeared on STG# I BCD which led to tripping of HRSG-I & subsequently STG# I.
		23.08.09	00.05	24.08.09	19.10	To attend PRDS leakage.
		26.08.09	02.15	26.08.09	05.05	Tripped due to Closing of MS-1 Valve
		26.08.09	18.05	26.08.09	19.52	Channel-I & II operated.
		27.08.09	08.15	27.08.09	12.55	Tripped though all the parameters were normal at BCD.
		27.08.09	15.05	27.08.09	20.50	Control Oil pressure very low
		28.08.09	04.32	28.08.09	06.35	Tripped due to tripping of GT# 1.
		01.09.09	22.35	02.09.09	04.55	Tripped due to tripping of GT# 1
		02.09.09	07.31	02.09.09	22.55	C&I Problem
		07.09.09	02.20	07.09.09	20.04	Tripped due to GT# 1came on FSNL
		13.09.09	09.50	14.09.09	06.40	Tripped due to Grid failure.
		14.09.09	13.52	14.09.09	19.05	Exhaust Steam Pressure High.
		17.09.09	10.54	18.09.09	00.20	Tripped during Grid failure
		28.09.09	10.05	28.09.09	11.52	Turbine shaft vibration very high.
		30.10.09	02.40	30.10.09	04.33	Tripped due to failure of BK Card
		30.10.09	15.10	30.10.09	16.25	Tripped due to Grid Failure
		04.11.09	19.50	04.11.09	21.20	Due to tripping of GT-I & II
		09.11.09	22.25	10.11.09	02.46	Due to choke of suction strainer of both BFPs.
		10.11.09	09.11	10.11.09	11.50	Low Vacuum
		01.12.09	18.15	11.12.09	20.45	Stopped for condenser cleaning
		14.12.09	00.15	14.12.09	03.35	Channel-I& II operated
		19.12.09	05.06	19.12.09	05.58	
		19.12.09	08.05	19.12.09	08.55	
		24.12.09	17.08	24.12.09	18.32	
		26.12.09	14.05	26.12.09	16.10	Stopped to attend hot spot
STG2	**34**	07.04.09	00.05	08.04.09	22.02	To attend leakage
		10.04.09	02.02	10.04.09	02.40	Class A relay group-2 operated
		30.04.09	11.58	30.04.09	12.28	Class 'B' trip relay operated& 40G
		06.05.09	09.05	06.05.09	21.06	To install ABT -complaint meters.
		13.05.09	11.20	13.05.09	11.40	Tripped while change over of Auxiliary supply from 7.5 MVA to 20 MVA.
		29.05.09	19.24	29.05.09	20.20	Tripped due to following relay i) Generator class-A group-II 86GA-2.
		29.05.09	20.31	29.05.09	21.55	
		31.05.09	07.37	31.05.09	09.55	Due to tripping of 100 MVA Tx-II.
		02.06.09	17.09	02.06.09	19.05	Due to tripping of HRSG# 4.
		15.06.09	13.30	15.06.09	17.05	Due to tripping of 100 MVA Tx.
		07.07.09	05.44	07.07.09	15.28	Tripped due to tripping of GT# 3
		19.07.09	05.29	19.07.09	12.08	Due to blast in the breaker of 5 MVA in switch gear room.
		21.07.09	08.38	21.07.09	09.18	Tripped due to tripping of 800 KVA transformer on instantaneous O/C
		23.07.09	12.27	23.07.09	13.13	Tripped without any abnormality of system.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG2	**34**	27.07.09	20.50	28.07.09	00.28	Tripped due to tripping of GT# 3 which is tripped on loss of flame.
		28.07.09	18.05	28.07.09	18.20	Due to tripping of 7.5 MVA Tx.
		31.07.09	13.32	31.07.09	19.15	To attend the condensate water transfer problem from hot well to dearater.
		15.08.09	21.25	15.08.09	22.28	Drum level very high.
		16.08.09	13.32	16.08.09	14.15	Due to tripping of BFP-2B.
		21.08.09	16.39	21.08.09	17.52	Due to tripping of GT#4.
		26.08.09	14.10	27.08.09	23.59	Shortage of DM water
		13.09.09	09.50	13.09.08	17.55	Tripped due to Grid failure.
		17.09.09	10.54	17.09.09	13.50	Tripped due to Grid failure.
		20.09.09	09.55	22.09.09	11.05	Swapping of gas to PPCL.
		21.10.09	10.02	23.10.09	14.29	Parameter of HRSG-4 disappeared while resetting these, Boiler-4 tripped consequently STG tripped
		30.10.09	15.10	30.10.09	21.25	Tripped due to Grid Failure
		05.11.09	14.05	05.11.09	15.32	Tripped due to tripping of GT# 3
		05.11.09	17.31	05.11.09	19.55	Stopped to attend leakages
		06.11.09	17.02	06.11.09	18.50	To clean suction strainer of CEP
		07.11.09	17.01	07.11.09	20.10	Stopped to attend leakages
		14.11.09	00.57	14.11.09	07.40	Heavy leakage from flange of SRV
		21.11.09	05.17	21.11.09	21.45	Due to failure of fuse of Power Distribution Module
		12.12.09	11.50	23.12.09	03.00	Stopped for condenser cleaning
		23.12.09	02.02	23.12.09	18.30	Due to malfunctioning of governing system suddenly load increased from 7 MW to 10.5 MW. Inlet steam pressure decreased to 12 Kg/cm2 resulting in decrease in vacuum and machine tripped on exhaust steam pressure high.
		23.12.09	18.40	24.12.09	23.55	Machine stopped due to problem in governing system
		25.12.09	00.50	25.12.09	08.55	Machine tripped due to load not increased
STG3	**34**	05.05.09	16.15	05.05.09	16.50	To install ABT -complaint meters.
		09.05.09	09.02	09.05.09	21.25	To attend leakages
		10.05.09	15.35	10.05.09	19.15	Due to tripping of GT No. 6.
		11.05.09	17.42	11.05.09	18.35	Tripped due to disappearance of hot well level parameters.
		13.05.09	11.20	13.05.09	12.40	Tripped while change over of Auxiliary supply from 7.5 MVA to 20 MVA.
		31.05.09	08.35	31.05.09	10.29	Due to failure of 800 KVA Tx
		12.06.09	15.15	12.06.09	18.20	Tripped due to 160 MVA Tx at both end
		15.06.09	13.30	15.06.09	16.12	Due to tripping of 100 MVA Tx.
		19.07.09	05.29	19.07.09	08.28	Due to blast in the breaker of 5 MVA in switch gear room..
		21.07.09	08.38	21.07.09	09.35	Tripped due to tripping of 800 KVA transformer on instantaneous O/C
		23.07.09	14.02	23.07.09	21.50	Generator class -A relay operated.
		28.07.09	18.05	28.07.09	18.35	Due to tripping of 7.5 MVA Tx.
		28.08.09	03.10	11.09.09	02.02	Axial Shift Problem
		12.09.09	06.16	19.09.09	14.13	Channel-I & II operated
		25.10.09	13.05	26.10.09	13.25	Control oil header pressure low
		25.10.09	23.31	26.10.09	15.10	Low vacuum

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG3	34	27.10.09	17.37	27.10.09	18.40	Low vacuum
		30.10.09	15.10	31.10.09	14.40	Tripped due to Grid Failure
		02.11.09	11.57	03.11.09	00.10	To attend leakages and Condenser back washing
		10.11.09	23.28	11.11.09	00.20	Low Vacuum
		11.11.09	17.01	11.11.09	23.40	To attend leakages
		12.11.09	00.45	12.11.09	23.50	Exhaust Temperature High
		24.11.09	12.55	01.12.09	04.05	Stopped for Condenser cleaning
		31.12.09	03.15	31.12.09	09.25	Axial shift very high

(D) PRAGATI STATION

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
1	104	Date	Time	Date	Time	
		18.04.09	15.42	18.04.09	16.26	Tripped due to jerk
		27.04.09	10.48	28.04.09	13.25	Hydraulic Pressure Low
		19.05.09	20.55	19.05.09	22.17	Tripped due to tripping of associated transmission lines
		25.05.09	21.29	25.05.09	22.56	Tripped due to tripping of associated transmission lines
		05.06.09	02.48	05.06.09	10.07	
		03.07.09	07.28	03.07.09	12.27	
		04.07.09	11.42	04.07.09	12.01	
		06.07.09	14.10	06.07.09	14.28	
		14.07.09	09.42	14.07.09	10.18	
		05.08.09	16.15	05.08.09	17.37	
		10.08.09	19.09	10.08.09	19.25	
		12.08.09	15.15	12.08.09	16.31	
		20.08.09	21.16	22.08.09	11.02	Internal Fault
		22.08.09	18.17	22.08.09	20.10	Internal Fault
		27.08.09	18.22	27.08.09	18.26	Tripped due to tripping of associated transmission lines
		06.09.09	17.00	06.09.09	17.14	
		13.09.09	09.52	13.09.09	12.00	
		17.09.09	10.57	17.09.09	11.50	
		22.09.09	10.45	22.09.09	14.56	Internal Fault
		03.10.09	23.45	04.10.09	01.29	Tripped due to tripping of associated transmission lines
		11.10.09	12.09	11.10.09	15.00	Internal Fault
		23.10.09	00.00	30.10.09	18.35	Maintenance Work
		31.10.09	12.22	31.10.09	13.50	Tripped due to tripping of associated transmission lines
		04.11.09	08.55	04.11.09	15.48	
		04.11.09	19.50	04.11.09	20.35	
		14.12.09	16.12	16.12.09	01.08	Rotor tripped on E/F
		27.12.09	13.44	27.12.09	15.08	Internal Fault
2	104	19.04.09	10.29	19.04.09	11.27	Tripped due to tripping of associated transmission lines
		19.05.09	20.55	19.05.09	22.07	
		22.05.09	14.39	22.05.09	14.28	
		22.05.09	15.36	22.05.09	15.51	
		01.06.09	09.26	01.06.09	09.52	

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	**104**	04.06.09	00.00	05.06.09	05.26	Shut-down
		05.06.09	15.06	05.06.09	17.21	Tripped due to tripping of associated transmission lines
		15.06.09	13.35	15.06.09	14.20	
		15.07.09	00.30	17.08.09	19.50	Shut-down.
		17.08.09	23.54	18.08.09	04.00	Tripped due to tripping of associated transmission lines
		21.08.09	14.42	21.08.09	15.27	
		27.08.09	17.53	27.08.09	19.18	
		01.09.09	05.05	01.09.09	05.52	
		02.09.09	10.17	02.09.09	11.41	
		08.09.09	12.05	08.09.09	13.25	Internal fault
		13.09.09	09.52	13.09.09	11.26	Tripped due to tripping of associated transmission lines
		13.09.09	18.30	13.09.09	19.52	Internal fault
		17.09.09	10.57	17.09.09	12.34	Tripped due to tripping of associated transmission lines
		18.09.09	02.47	18.09.09	04.20	
		19.09.09	10.22	19.09.09	11.26	
		28.09.09	07.39	28.09.09	08.30	
		02.10.09	10.29	02.10.09	12.21	
		11.10.09	12.07	11.10.09	13.38	Internal Fault
		30.10.09	15.12	30.10.09	15.47	Transient Fault
		04.11.09	19.50	04.11.09	20.58	Tripped due to tripping of associated transmission lines
		16.11.09	18.14	16.11.09	19.30	
STG	**122**	07.04.09	06.34	07.04.09	07.45	Tripped due to tripping of associated transmission lines
		19.04.09	10.29	19.04.09	12.41	
		26.04.09	07.11	28.04.09	13.25	
		16.05.09	18.44	16.05.09	20.24	
		19.05.09	20.55	19.05.09	23.20	
		22.05.09	14.39	22.05.09	15.39	
		01.06.09	09.26	01.06.09	10.41	
		04.06.09	11.25	04.06.09	15.32	Oil leakage from ESU
		05.06.09	15.06	05.06.09	16.40	Tripped due to tripping of associated transmission lines
		15.06.09	13.35	15.06.09	15.20	
		14.07.09	09.42	14.07.09	10.42	
		15.07.09	11.56	15.07.09	12.50	Problem in Boiler feed pump
		10.08.09	19.10	10.08.09	20.14	Tripped due to tripping of associated transmission lines
		12.08.09	15.15	12.08.09	17.20	
		18.08.09	00.15	18.08.09	01.55	Internal Fault
		21.08.09	14.43	21.08.09	16.17	Tripped due to tripping of associated transmission lines
		27.08.09	17.53	27.08.09	20.20	
		11.10.09	12.07	11.10.09	15.06	Internal Fault
		30.10.09	15.12	30.10.09	16.55	Internal Fault

(E) BADARPUR THERMAL POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	95	30.07.09	06.45	14.09.09	17.00	Planned shut-down for major overhauling
		22.09.09	21.14	23.09.09	04.08	Vacuum problem
		23.09.09	04.15	23.09.09	07.02	Vacuum problem
		26.09.09	17.18	27.09.09	10.40	Drum main hole leakage

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	95	10.05.09	13.12	10.05.09	15.15	Bus differential operated
		16.07.09	17.42	18.07.09	05.25	Boiler Tube Leakage
		29.07.09	17.56	30.07.09	22.30	Furnace Failure
		11.08.09	21.29	11.08.09	22.50	Furnace problem
		30.08.09	14.50	31.08.09	11.00	DC Control failure
		22.10.09	21.48	28.12.09	05.16	Annual maintenance
3	95	12.04.09	05.34	12.04.09	19.43	Electrical problem
		13.04.09	17.22	13.04.09	20.45	Electrical problem
		25.04.09	22.43	27.04.09	22.47	Planned Shut-down
		26.05.09	20.54	27.05.09	17.45	Boiler Tube Leakage
		01.09.09	08.40	02.09.09	15.37	Boiler Tube Leakage
		30.10.09	11.15	30.10.09	13.04	Auxiliary supply failed
		16.12.09	06.58	17.12.09	11.65	Drum level low
4	210	01.04.09	12.18	17.04.09	23.59	Planned Shut-Down for over-hauling
		18.04.09	12.35	18.04.09	15.48	Tripped along with tripping of 220kV BTPS – Noida Ckt.
		18.05.09	13.12	10.05.09	22.13	Bus differential operated
		10.06.09	16.44	11.06.09	16.58	Boiler Tube Leakage
		19.06.09	09.52	20.06.09	09.23	Boiler Tube Leakage
		11.10.09	20.18	13.10.09	13.09.09	Boiler Tube Leakage
		24.10.09	10.03	25.10.09	05.51	Boiler Tube Leakage
		16.11.09	14.58	17.11.09	09.54	Shut-down
		29.11.09	06.43	29.11.09	23.32	Boiler Tube leakage
		05.12.09	04.54	05.12.09	12.04	Electrical Problem
		12.12.09	19.25	14.12.09	16.25	Boiler Tube leakage
		20.12.09	18.35	22.12.09	09.58	Boiler Tube leakage
5	210	07.08.09	17.43	07.08.09	19.40	Furnace Protection.
		18.11.09	00.50	19.11.09	10.38	Boiler Tube Leakage
		12.12.09	14.35	15.12.09	19.35	Boiler Tube leakage

4 ALLOCATION OF POWER TO DELHI

A) Allocation from Central Sector Generating Stations to Delhi w.e.f. 15.11.2009

i) TIME BLOCK - 00.00hrs & 06.00hrs., 10.00-18hrs and 23.00-24.00hrs @ 0% from unallocated quota of Central Sector Generating Stations

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand	1000	150	100	87	0	0	87
Rihand Stage -II	1000	150	126	109	0	0	109
ANTA GPS	419	63	44	41	0	0	41
Auriya GPS	663.36	99	72	67	0	0	67
Dadri GPS	829.78	129	91	85	0	0	85
Dadri NCTPS (Th)	840	0	756	657	0	0	657
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	**7802**	**1005**	**1439**	**1263**	**0**	**0**	**1263**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	0	0	38
URI HEP	480	0	53	50	0	0	50
Dhauli Ganga HEP	280	42	37	35	0	0	35
Dulhasti HEP	390	58	50	48	0	0	48
TOTAL	**2954**	**154**	**335**	**318**	**0**	**0**	**318**
NPC							
Narora APS	440	64	47	41	0	0	41
RAPP(B) Unit-3 APS	220	33	0	0	0	0	0
RAPP(B) Unit-4 APS	220	33	0	0	0	0	0
TOTAL	**880**	**130**	**47**	**41**	**0**	**0**	**41**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	0	0	123
THDC							
Tehri Hydro	1000	99	103	89	0	0	89
Total	**14136**	**1537**	**2066**	**1835**	**0**	**0**	**1835**
Allocation from ER and Tala HEP							
Farakka	1600	0	30	25	0	0	25
Kahalgaon	840	0	63	53	0	0	53
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	1000	0	108	90	0	0	90
Total ER	**5710**	**153**	**260**	**217**	**0**	**0**	**217**
Grand Total	**19846**	**1690**	**2326**	**2052**	**0**	**0**	**2052**

ii) Time Block 06.00hrs. to 10.00hrs. @ 4% allocation from 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	12	10	141
Rihand	1000	150	100	87	6	5	92
Rihand Stage -II	1000	150	126	109	6	5	115
ANTA GPS	419	63	44	41	3	2	43
Auriya GPS	663.36	99	72	67	3	3	70
Dadri GPS	829.78	129	91	85	2	2	87
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Unchahaar-I TPS	420	20	24	21	1	1	22
Unchahaar-II TPS	420	63	47	41	3	2	43
Unchahaar-III TPS	210	31	29	25	1	1	26
TOTAL	**7802**	**1005**	**1439**	**1263**	**36**	**32**	**1295**
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	2	2	40
URI HEP	480	0	53	50	0	0	50
Dhauli Ganga HEP	280	42	37	35	2	2	37
Dulhasti HEP	390	58	50	48	2	2	50
TOTAL	**2954**	**154**	**335**	**318**	**6**	**6**	**324**
NPC							
Narora APS	440	64	47	41	3	2	43
RAPP(B) Unit-3 APS	220	33	0	0	0	0	0
RAPP(B) Unit-4 APS	220	33	0	0	0	0	0
TOTAL	**880**	**130**	**47**	**41**	**3**	**2**	**43**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	6	6	129
THDC							
Tehri Hydro	1000	99	103	89	4	4	93
Total	**14136**	**1537**	**2066**	**1835**	**55**	**50**	**1884**
Allocation from ER and Tala HEP							
Farakka	1600	0	30	25	0	0	25
Kahalgaon	840	0	63	53	0	0	53
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	1000	0	108	90	2	2	92
Total ER	**5710**	**153**	**260**	**217**	**2**	**2**	**219**
Grand Total	**19846**	**1690**	**2326**	**2052**	**57**	**51**	**2103**

iii) Time Block 18.00hrs. to 23.00hrs. @ 4% allocation from Central Sector Generating Stations including 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	12	10	141
Rihand	1000	150	100	87	6	5	92
Rihand Stage -II	1000	150	126	109	6	5	115
ANTA GPS	419	63	44	41	3	2	43
Auriya GPS	663.36	99	72	67	3	3	70
Dadri GPS	829.78	129	91	85	2	2	87
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Unchahaar-I TPS	420	20	24	21	1	1	22
Unchahaar-II TPS	420	63	47	41	3	2	43
Unchahaar-III TPS	210	31	29	25	1	1	26
TOTAL	**7802**	**1005**	**1439**	**1263**	**36**	**32**	**1295**
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	2	2	40
URI HEP	480	0	53	50	0	0	50
Dhauli Ganga HEP	280	42	37	35	2	2	37
Dulhasti HEP	390	58	50	48	2	2	50
TOTAL	**2954**	**154**	**335**	**318**	**6**	**6**	**324**
NPC							
Narora APS	440	64	47	41	3	2	43
RAPP(B) Unit-3 APS	220	33	0	0	1	1	1
RAPP(B) Unit-4 APS	220	33	0	0	1	1	1
TOTAL	**880**	**130**	**47**	**41**	**4**	**3**	**44**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	6	6	129
THDC							
Tehri Hydro	1000	99	103	89	4	4	93
Total	**14136**	**1537**	**2066**	**1835**	**56**	**51**	**1886**
Allocation from ER and Tala HEP							
Farakka	1600	0	30	25	0	0	25
Kahalgaon	840	0	63	53	0	0	53
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	1000	0	108	90	2	2	92
Total ER	**5710**	**153**	**260**	**217**	**2**	**2**	**219**
Grand Total	**19846**	**1690**	**2326**	**2052**	**59**	**53**	**2104**

5 ALLOCATION OF POWER TO VARIOUS LISCENCEES AS PER ORDER OF DERC AND DECISION OF GNCTD FOR ALLOCATION OF CENTRAL SECTOR STATIONS (EXCEPT DADRI THERMAL AND BTPS) AND STATE SECTOR GENERATING STATIONS w.e.f. 01.07.2009.

(Allocation In %)

i) Allocation during the period 00.00 - 10.00hrs. and 17.00 - 24.00hrs.

SOURCES	LICENSEES					
	NDMC	MES	NDPL	BRPL	BYPL	TOTAL
1. Central Sector without Dadri (Th)	00.00	00.00	29.18	43.58	27.24	100.00
2. Dadri (Th)	14.05	00.00	23.89	36.36	27.70	100.00
3. BTPS	15.07	7.09	21.61	32.90	23.33	100.00
4. IP	00.00	00.00	28.02	42.51	29.47	100.00
5. RPH	00.00	00.00	27.99	42.48	29.53	100.00
6. GT	00.00	00.00	27.99	42.48	29.53	100.00
7. Pragati	25.76	00.00	20.47	31.26	22.51	100.00

ii) Allocation during the period 10.00 - 17.00hrs.

SOURCES	LICENSEES					
	NDMC	MES	NDPL	BRPL	BYPL	TOTAL
1. Central Sector without Dadri (Th)	00.00	00.00	29.18	43.58	27.24	100.00
2. Dadri (Th)	14.91	00.00	23.89	35.50	25.70	100.00
3. BTPS	15.87	7.09	21.61	32.10	23.33	100.00
4. IP	00.83	00.00	28.02	41.68	29.47	100.00
5. RPH	00.86	00.00	27.99	41.62	29.53	100.00
6. GT	00.86	00.00	27.99	41.62	29.53	100.00
7. Pragati	26.61	00.00	20.47	30.41	22.51	100.00

6 POWER AVAILABILITY-DEMAND POSITION AT THE TIME OF PEAK DEMAND MET DURING DECEMBER 2009

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	18:38:45	0	113	144	317	485	1059	1697	2105	408	2756	36	2792
2	18:42:08	0	113	140	316	518	1087	1704	1973	269	2791	35	2826
3	18:01:18	0	111	141	316	522	1090	1716	1865	149	2806	11	2817
4	10:04:03	0	114	140	317	498	1069	1829	1685	-144	2898	0	2898
5	18:30:00	0	90	147	312	487	1036	1718	1908	190	2754	39	2793
6	10:04:29	0	112	129	321	506	1068	1696	1686	-10	2764	0	2764
7	18:46:49	0	113	146	317	500	1076	1740	1940	200	2816	33	2849
8	18:16:41	0	107	149	321	495	1072	1753	1988	235	2825	46	2871
9	18:18:34	0	108	146	320	493	1067	1805	2013	208	2872	39	2911
10	18:31:56	0	63	140	315	509	1027	1886	2003	117	2913	34	2947
11	09:51:51	0	62	143	321	505	1031	1882	1746	-136	2913	0	2913
12	09:46:29	0	108	150	320	421	999	1859	1756	-103	2858	0	2858
13	10:02:54	0	105	154	323	67	649	2120	1836	-284	2769	0	2769
14	18:21:42	0	45	144	151	306	646	2121	2198	77	2767	35	2802
15	18:34:15	0	46	156	154	342	698	2135	2125	-10	2833	38	2871
16	18:33:48	13	45	214	157	403	832	2004	2403	399	2836	41	2877
17	18:38:58	16	44	139	319	482	1000	1894	2241	347	2894	38	2932
18	19:09:24	0	101	132	321	505	1059	1809	2027	218	2868	23	2891
19	09:31:09	0	45	145	313	515	1018	1913	1898	-15	2931	0	2931
20	09:57:56	0	45	127	317	511	1000	1878	1883	5	2878	0	2878
21	09:26:05	0	45	154	331	318	848	2113	2066	-47	2961	0	2961
22	09:41:25	0	46	146	314	302	808	2178	1968	-210	2986	0	2986
23	10:06:52	0	62	146	316	516	1040	2003	1963	-40	3043	0	3043
24	18:45:53	0	100	147	321	464	1032	1987	2190	203	3019	36	3055
25	10:26:47	0	99	141	325	500	1065	1979	1931	-48	3044	0	3044
26	09:20:57	0	99	127	325	500	1051	1979	2033	54	3030	0	3030
27	10:49:53	0	99	141	325	500	1065	1914	1914	0	2979	0	2979
28	10:00:00	0	99	129	325	534	1087	1912	2018	106	2999	0	2999
29	10:00:00	0	100	130	320	574	1124	1971	1965	-6	3095	0	3095
30	10:02:30	0	99	141	325	593	1158	2065	1964	-101	3223	0	3223
31	10:04:00	0	104	127	321	592	1144	2099	2019	-80	3243	0	3243

7 POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF MAXIMUM UNRESTRICTED DEMAND DURING DECEMBER 2009

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	18:38:45	0	113	144	317	485	1059	1697	2105	408	2756	36	2792
2	18:42:08	0	113	140	316	518	1087	1704	1973	269	2791	35	2826
3	18:01:18	0	111	141	316	522	1090	1716	1865	149	2806	11	2817
4	10:04:03	0	114	140	317	498	1069	1829	1685	-144	2898	0	2898
5	19:00:00	0	115	140	320	481	1056	1694	1961	267	2750	45	2795
6	10:04:29	0	112	129	321	506	1068	1696	1686	-10	2764	0	2764
7	18:46:49	0	113	146	317	500	1076	1740	1940	200	2816	33	2849
8	18:16:41	0	107	149	321	495	1072	1753	1988	235	2825	46	2871
9	18:18:34	0	108	146	320	493	1067	1805	2013	208	2872	39	2911
10	18:31:56	0	63	140	315	509	1027	1886	2003	117	2913	34	2947
11	09:51:51	0	62	143	321	505	1031	1882	1746	-136	2913	0	2913
12	09:46:29	0	108	150	320	421	999	1859	1756	-103	2858	0	2858
13	10:02:54	0	105	154	323	67	649	2120	1836	-284	2769	0	2769
14	18:21:42	0	45	144	151	306	646	2121	2198	77	2767	35	2802
15	18:34:15	0	46	156	154	342	698	2135	2125	-10	2833	38	2871
16	18:33:48	13	45	214	157	403	832	2004	2403	399	2836	41	2877
17	18:38:58	16	44	139	319	482	1000	1894	2241	347	2894	38	2932
18	19:09:24	0	101	132	321	505	1059	1809	2027	218	2868	23	2891
19	09:31:09	0	45	145	313	515	1018	1913	1898	-15	2931	0	2931
20	09:57:56	0	45	127	317	511	1000	1878	1883	5	2878	0	2878
21	09:26:05	0	45	154	331	318	848	2113	2066	-47	2961	0	2961
22	09:41:25	0	46	146	314	302	808	2178	1968	-210	2986	0	2986
23	10:06:52	0	62	146	316	516	1040	2003	1963	-40	3043	0	3043
24	18:45:53	0	100	147	321	464	1032	1987	2190	203	3019	36	3055
25	10:26:47	0	99	141	325	500	1065	1979	1931	-48	3044	0	3044
26	09:20:57	0	99	127	325	500	1051	1979	2033	54	3030	0	3030
27	10:49:53	0	99	141	325	500	1065	1914	1914	0	2979	0	2979
28	10:00:00	0	99	129	325	534	1087	1912	2018	106	2999	0	2999
29	10:00:00	0	100	130	320	574	1124	1971	1965	-6	3095	0	3095
30	10:02:30	0	99	141	325	593	1158	2065	1964	-101	3223	0	3223
31	10:04:00	0	104	127	321	592	1144	2099	2019	-80	3243	0	3243

8 SOURCEWISE SCHEDULED DRAWL FROM NORTHERN GRID AS WELL AS AVAILABILITY WITHIN DELHI FOR DECEMBER 2009

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

(I) IP	0.720
(II) 1/3rd HARYANA SHARE	0.186
JHAJJAR SHARE	0.475
(III)NET IP GENERATION	**0.059**
(IV) RPH	68.585
(V) GT+WHRU	107.760
(VI) PRAGATI	230.346
TOTAL (iii+iv+v+vi)	**406.750**
B) AVAILABILITY FROM BTPS	342.256
C) AUXILIARY CONSUMPTION OF GENERATING STNs. EXCLUDING BTPS	18.471
D) NET GENERATION AVAILABLE WITHIN DELHI(A+B-C)	**730.535**

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
BAIRA-SUIL	1.774	1.701	1.774	1.701
SALAL	9.446	9.058	9.446	9.058
TANAKPUR	2.376	2.278	2.376	2.278
CHAMERA	5.442	5.218	5.442	5.218
CHAMERA-II	5.572	5.343	5.572	5.343
DHAULI GANGA	5.366	5.146	5.366	5.146
SINGRAULI	107.795	103.364	107.795	103.364
URI	8.956	8.588	8.946	8.579
ANTA (GAS)	15.246	14.618	15.246	14.618
ANTA (LIQUID)	0.737	0.707	0.001	0.001
ANTA (RLNG)	14.634	14.032	2.224	2.135
RIHAND-I	71.641	68.692	71.641	68.692
RIHAND-II	93.071	89.243	93.071	89.243
AURAIYA (GAS)	33.017	31.659	33.017	31.659
AURAIYA (LIQUID)	19.418	18.619	1.043	1.001
AURAIYA (RLNG)	0.000	0.000	0.000	0.000
DADRI(GT) (GAS)	41.064	39.374	40.958	39.273
DADRI(GT) (LIQUID)	25.034	24.007	1.347	1.294
DADRI(GT) (RLNG)	0.000	0.000	0.000	0.000
UNCHAHAR-I	17.235	16.526	15.089	14.469
UNCHAHAR-III	21.152	20.282	18.523	17.762
DADRI(TH)	535.747	513.712	511.402	490.375
UNCHAHAR-II	33.996	32.598	29.776	28.552
NAPP	0.157	0.150	0.157	0.150
RAPP-B#4	0.641	0.614	0.641	0.614
RAPP-B#3	0.628	0.602	0.628	0.602
WEST BENGAL	9.244	9.019	9.019	8.647
DVC (ER)	28.100	27.411	27.411	26.289
MAHARASHTRA	11.970	11.233	10.688	10.247
CHATTISHGARH (WR)	116.711	109.445	109.444	104.943

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
KARNATAKA	38.744	36.827	34.468	33.047
PUNJAB	18.397	16.476	16.476	15.798
TO MADHYA PRADESH	-65.806	-70.205	-70.205	-73.208
TO RAJASHTAN	-0.284	-0.296	-0.284	-0.296
TO UTTAR PRADESH	-19.031	-19.848	-19.031	-19.848
MEGHALAYA	6.324	6.169	5.805	5.566
TO HIMACHAL PRADESH	-25.654	-26.754	-25.654	-26.754
TO UTTRANCHAL	-46.847	-48.856	-46.847	-48.856
TO POWER EXCHANGE (IEX)	-51.694	-53.913	-53.913	-56.399
POWER EXCHANGE (IEX)	4.570	4.383	4.570	4.383
TO POWER EXCHANGE – PX	-1.875	-1.957	-1.875	-1.957
POWER EXCHANGE – PX	0.000	0.000	0.000	0.000
NATHPA JHAKHRI	24.603	23.592	24.603	23.592
DULASTI	13.300	12.754	13.300	12.754
TEHRI	20.049	19.224	20.049	19.224
KHELGAON –II	54.924	53.578	51.998	49.859
TALA	4.028	3.928	3.928	3.768
FRAKKA	16.790	16.379	15.653	15.011
KHELGAON	25.470	24.846	23.621	22.648
TALCHER	0.000	0.000	0.000	0.000
TOTAL SCHEDULE FROM THE GRID	1252.177	1179.566	1134.704	1069.584

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	1029.787	987.434	941.133	902.437
NTPC –ER	97.184	94.802	91.272	87.518
NHPC	52.232	50.086	52.222	50.077
NPC	1.426	1.366	1.426	1.366
WEST BENGAL	9.244	9.019	9.019	8.647
CHATTISHGARH (WR)	116.711	109.445	109.444	104.943
UTTAR PRADESH	0.000	0.000	0.000	0.000
PUNJAB	18.397	16.476	16.476	15.798
KARNATAKA	38.744	36.827	34.468	33.047
DVC (ER)	28.100	27.411	27.411	26.289
MEGHALAYA	6.324	6.169	5.805	5.566
MAHARASHTRA	11.970	11.233	10.688	10.247
POWER EXCHANGE (IEX)	4.570	4.383	4.570	4.383
NATHPA JHAKHRI	24.603	23.592	24.603	23.592
TEHRI	20.049	19.224	20.049	19.224
TALA	4.028	3.928	3.928	3.768
TALCHER	0.000	0.000	0.000	0.000
POWER EXCHANGE – PX	0.000	0.000	0.000	0.000
TOTAL SCHEDULE FROM THE GRID	1463.368	1401.395	1352.513	1296.902

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 UTTAR PRADESH	-19.031	-19.848	-19.031	-19.848
TO HIMACHAL PRADESH	-25.654	-26.754	-25.654	-26.754
TO POWER EXCHANGE – PX	-1.875	-1.957	-1.875	-1.957
TO MADHYA PRADESH	-65.806	-70.205	-70.205	-73.208
TO UTTRANCHAL	-46.847	-48.856	-46.847	-48.856
TO RAJASHTAN	-0.284	-0.296	-0.284	-0.296
TO POWER EXCHANGE (IEX)	-51.694	-53.913	-53.913	-56.399
TOTAL	-211.190	-221.829	-217.809	-227.318
(G) TOTAL SCHEDULED DRAWL FROM THE GRID (G=Fa+Fb+Fc)	1252.177	1179.566	1134.704	1069.584
TOTAL CONSUMPTION INCLUDING AUX. OF GENERATING STNs. EXCLUDING BTPS				1580.618
NET CONSUMPTION				1562.147
AVAILABILITY WITHIN DELHI				730.535
ACTUAL DRAWAL FROM THE GRID				831.612
OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID ON THE BASIS OF SCHEDULED ALLOCATION MADE BY NRLDC TO DELHI AT PERIPHERY				-237.972
LOAD SHEDDING				5.265
UNRESTRICTED DEMAND (GROSS)				1585.883
UNRESTRICTED DEMAND (NET)				1567.412
MAX. NET CONSUMPTION				54.544 Mus. ON 31.12.2009
MAX. LOAD SHEDDING				163 MW ON 31.12.2009 AT 06.50HRS.
PEAK LOAD	Peak Demand during the month			SHEDDING AT PEAK TIME
DAY PEAK	3243MW AT 10:04:00HRS ON 31.12.2009			02MW
EVENING PEAK	3019MW AT 18.45.53HRS ON 24.12.2009			NIL
P.L.F. OF GENCO AND PRAGATI STNs.	IP RPH GT PRAGATI			0.39% 68.28% 53.64% 93.82%

9 SHEDDING DETAILS DURING THE MONTH OF DECEMBER 2009.

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
01-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
02-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
03-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
04-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
05-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
06-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
07-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
08-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
09-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
10-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
11-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
12-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
13-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
14-Dec-09	1	0.000	0.019	0.000	0.000	**0.019**	0.000	0.000	0.000	0.000
15-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
16-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
17-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
18-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
19-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
20-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
21-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
22-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
23-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
24-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
25-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
26-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
27-Dec-09	1	0.000	0.001	0.000	0.000	**0.001**	0.000	0.000	0.000	0.000
28-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
29-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
30-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
31-Dec-09	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
TOTAL	**2**	**0.000**	**0.020**	**0.000**	**0.000**	**0.020**	**0.000**	**0.000**	**0.000**	**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
01-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.007	0.000	0.000
02-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.006	0.000	0.000	0.000	0.000
03-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.003	0.000	0.000
04-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.005	0.000	0.000	0.000	0.000
05-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
06-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
07-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	0.037	0.000	0.000	0.000
08-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.003	0.000	0.000	0.000	0.000
09-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
10-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
11-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.001	0.000	0.001	0.000	0.000
12-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.010	0.000	0.000	0.000	0.000
13-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
14-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.019**	0.000	0.000	0.006	0.000	0.000
15-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
16-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
17-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	0.018	0.000	0.000	0.000
18-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
19-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
20-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
21-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	0.014	0.000	0.000	0.000
22-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	0.006	0.000	0.000	0.000
23-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.005	0.000	0.000
24-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
25-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.001	0.000	0.000
26-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
27-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.001**	0.062	0.000	0.000	0.000	0.000
28-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.015	0.000	0.000	0.000	0.000
29-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
30-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
31-Dec-09	0.000	0.000	0.000	0.000	0.000	**0.000**	0.000	0.021	0.018	0.000	0.000
TOTAL	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.020**	**0.102**	**0.096**	**0.041**	**0.000**	**0.000**

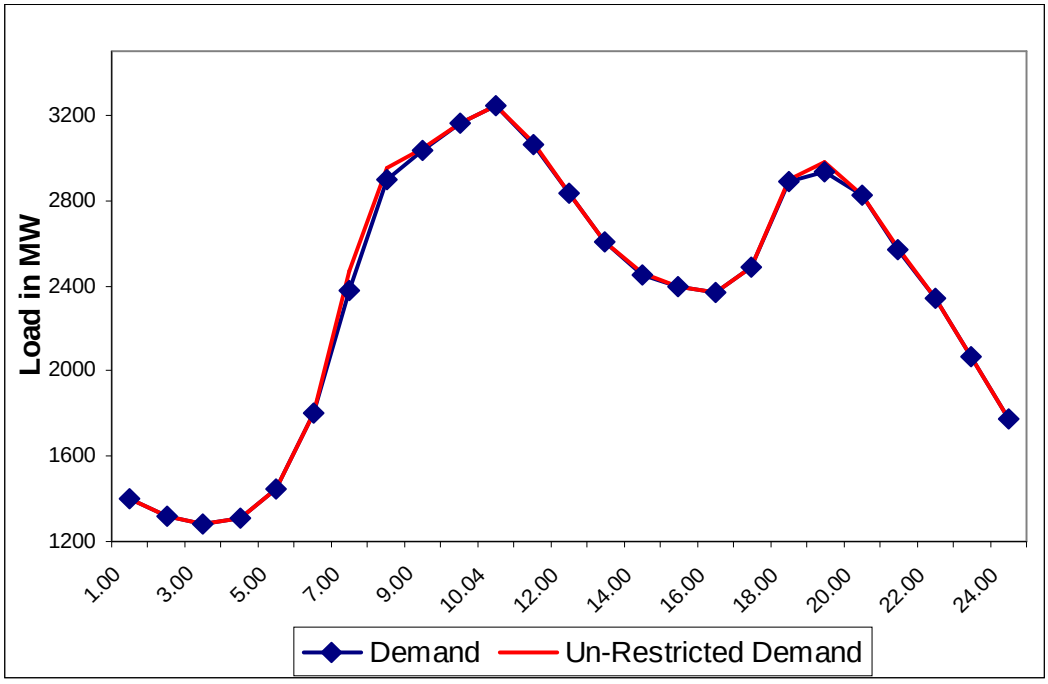
DATE	DUE TO T&D CONTRAINTS			OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.	THEFT PRONE SHEDDING			TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE	GRAND TOTAL
	DISCOMS								
	BSES		NDPL		BSES		NDPL		
	BYPL	BRPL			BYPL	BRPL			
1	23	24	25	2+	27	28	29	30=18 to29	31=30+17
01-Dec-09	0.000	0.000	0.001	0.000	0.000	0.000	0.147	**0.155**	**0.155**
02-Dec-09	0.000	0.000	0.000	0.000	0.000	0.000	0.141	**0.147**	**0.147**
03-Dec-09	0.000	0.000	0.000	0.000	0.000	0.000	0.153	**0.156**	**0.156**
04-Dec-09	0.000	0.000	0.000	0.000	0.000	0.000	0.154	**0.159**	**0.159**
05-Dec-09	0.000	0.040	0.000	0.000	0.000	0.000	0.146	**0.186**	**0.186**
06-Dec-09	0.000	0.000	0.000	0.000	0.000	0.000	0.146	**0.146**	**0.146**
07-Dec-09	0.000	0.000	0.011	0.000	0.000	0.000	0.138	**0.186**	**0.186**
08-Dec-09	0.024	0.000	0.020	0.000	0.000	0.000	0.155	**0.202**	**0.202**
09-Dec-09	0.000	0.016	0.012	0.000	0.000	0.000	0.149	**0.177**	**0.177**
10-Dec-09	0.000	0.036	0.000	0.000	0.000	0.000	0.151	**0.187**	**0.187**
11-Dec-09	0.000	0.001	0.020	0.000	0.000	0.000	0.153	**0.176**	**0.176**
12-Dec-09	0.000	0.000	0.001	0.000	0.000	0.000	0.152	**0.163**	**0.163**
13-Dec-09	0.024	0.000	0.002	0.000	0.000	0.000	0.133	**0.159**	**0.159**
14-Dec-09	0.000	0.000	0.017	0.009	0.000	0.000	0.143	**0.175**	**0.194**
15-Dec-09	0.000	0.000	0.005	0.000	0.000	0.000	0.137	**0.142**	**0.142**
16-Dec-09	0.029	0.015	0.002	0.000	0.000	0.000	0.167	**0.213**	**0.213**
17-Dec-09	0.000	0.003	0.026	0.000	0.000	0.000	0.151	**0.198**	**0.198**
18-Dec-09	0.002	0.006	0.016	0.000	0.000	0.000	0.161	**0.185**	**0.185**
19-Dec-09	0.012	0.006	0.000	0.000	0.000	0.000	0.161	**0.179**	**0.179**
20-Dec-09	0.000	0.003	0.003	0.000	0.000	0.000	0.146	**0.152**	**0.152**
21-Dec-09	0.000	0.002	0.055	0.000	0.000	0.000	0.153	**0.224**	**0.224**
22-Dec-09	0.000	0.001	0.005	0.000	0.000	0.000	0.150	**0.162**	**0.162**
23-Dec-09	0.017	0.003	0.000	0.000	0.000	0.000	0.159	**0.184**	**0.184**
24-Dec-09	0.000	0.000	0.003	0.000	0.000	0.000	0.143	**0.146**	**0.146**
25-Dec-09	0.000	0.000	0.000	0.004	0.000	0.000	0.109	**0.114**	**0.114**
26-Dec-09	0.000	0.033	0.000	0.000	0.000	0.000	0.137	**0.170**	**0.170**
27-Dec-09	0.000	0.000	0.000	0.000	0.000	0.000	0.100	**0.162**	**0.163**
28-Dec-09	0.000	0.000	0.000	0.000	0.000	0.000	0.101	**0.116**	**0.116**
29-Dec-09	0.054	0.000	0.032	0.000	0.000	0.000	0.094	**0.180**	**0.180**
30-Dec-09	0.031	0.000	0.003	0.000	0.000	0.000	0.116	**0.150**	**0.150**
31-Dec-09	0.011	0.023	0.000	0.000	0.000	0.000	0.121	**0.194**	**0.194**
TOTAL	**0.204**	**0.188**	**0.234**	**0.013**	**0.000**	**0.000**	**4.367**	**5.245**	**5.265**

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
01-Dec-09	49.247	2756	18:38:45	36	**2792**	**2792**	18:38:45	2756	36
02-Dec-09	49.460	2791	18:42:08	35	**2826**	**2826**	18:42:08	2791	35
03-Dec-09	49.696	2806	18:01:18	11	**2817**	**2817**	18:01:18	2806	11
04-Dec-09	49.957	2898	10:04:03	0	**2898**	**2898**	10:04:03	2898	0
05-Dec-09	48.912	2754	18:30	39	**2793**	**2795**	19:00	2750	45
06-Dec-09	47.595	2764	10:04:29	0	**2764**	**2764**	10:04:29	2764	0
07-Dec-09	48.911	2816	18:46:49	33	**2849**	**2849**	18:46:49	2816	33
08-Dec-09	50.086	2825	18:16:41	46	**2871**	**2871**	18:16:41	2825	46
09-Dec-09	50.940	2872	18:18:34	39	**2911**	**2911**	18:18:34	2872	39
10-Dec-09	50.752	2913	18:31:56	34	**2947**	**2947**	18:31:56	2913	34
11-Dec-09	51.684	2913	09:51:51	0	**2913**	**2913**	09:51:51	2913	0
12-Dec-09	48.716	2858	09:46:29	0	**2858**	**2858**	09:46:29	2858	0
13-Dec-09	45.944	2769	10:02:54	0	**2769**	**2769**	10:02:54	2769	0
14-Dec-09	49.377	2767	18:21:42	35	**2802**	**2802**	18:21:42	2767	35
15-Dec-09	49.163	2833	18:34:15	38	**2871**	**2871**	18:34:15	2833	38
16-Dec-09	50.604	2836	18:33:48	41	**2877**	**2877**	18:33:48	2836	41
17-Dec-09	51.061	2894	18:38:58	38	**2932**	**2932**	18:38:58	2894	38
18-Dec-09	52.138	2868	19:09:24	23	**2891**	**2891**	19:09:24	2868	23
19-Dec-09	49.134	2931	09:31:09	0	**2931**	**2931**	09:31:09	2931	0
20-Dec-09	48.352	2878	09:57:56	0	**2878**	**2878**	09:57:56	2878	0
21-Dec-09	50.602	2961	09:26:05	0	**2961**	**2961**	09:26:05	2961	0
22-Dec-09	51.708	2986	09:41:25	0	**2986**	**2986**	09:41:25	2986	0
23-Dec-09	52.461	3043	10:06:52	0	**3043**	**3043**	10:06:52	3043	0
24-Dec-09	52.234	3019	18:45:53	36	**3055**	**3055**	18:45:53	3019	36
25-Dec-09	51.370	3044	10:26:47	0	**3044**	**3044**	10:26:47	3044	0
26-Dec-09	50.693	3030	09:20:57	0	**3030**	**3030**	09:20:57	3030	0
27-Dec-09	48.986	2979	10:49:53	0	**2979**	**2979**	10:49:53	2979	0
28-Dec-09	50.913	2999	10:00	0	**2999**	**2999**	10:00	2999	0
29-Dec-09	52.858	3095	10:00	0	**3095**	**3095**	10:00	3095	0
30-Dec-09	54.049	3223	10:02:30	0	**3223**	**3223**	10:02:30	3223	0
31-Dec-09	54.544	3243	10:04	0	**3243**	**3243**	10:04	3243	0
Total	**1562.147**	**3243 MAX**			**3243 MAX**	**3243 MAX**			

10 LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING DECEMBER 2009 ON 31.12.2009 – 3243 MW at 10:04:00 HRS.

All figures in MW

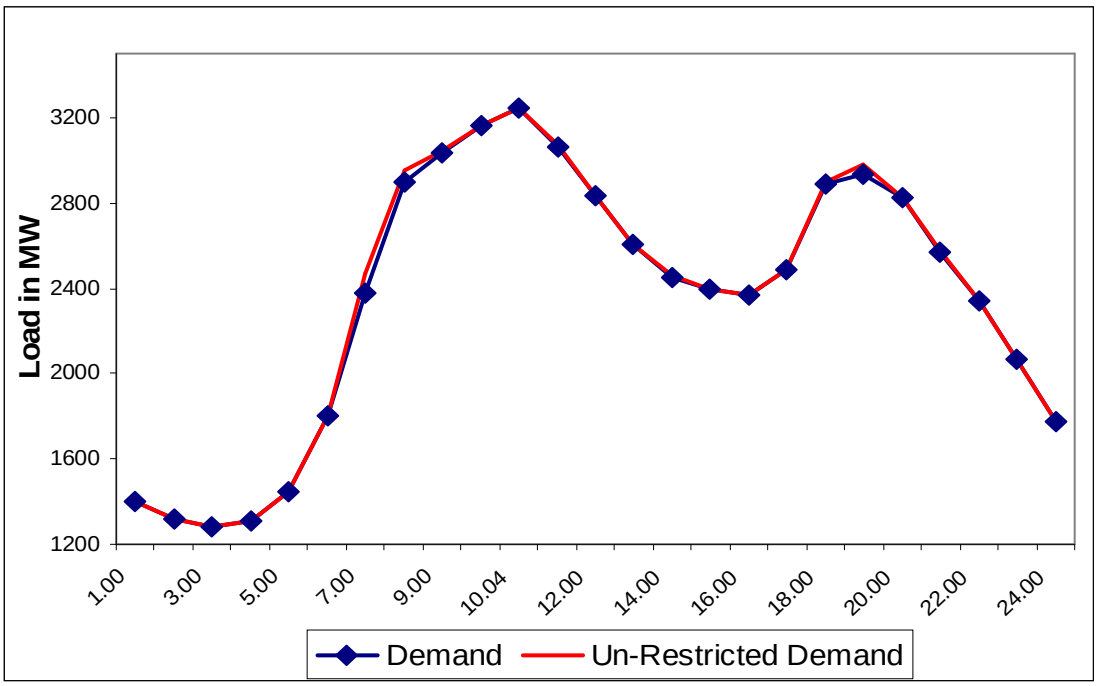
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1403	0	1403
2.00	1316	0	1316
3.00	1284	0	1284
4.00	1307	0	1307
5.00	1447	2	1449
6.00	1801	0	1801
7.00	2381	85	2466
8.00	2898	50	2948
9.00	3039	8	3047
10.00	3164	0	3164
10.04	**3243**	0	3243
11.00	3063	9	3072
12.00	2833	5	2838
13.00	2604	5	2609
14.00	2449	12	2461
15.00	2392	5	2397
16.00	2366	0	2366
17.00	2483	0	2483
18.00	2893	4	2897
19.00	2937	39	2976
20.00	2825	3	2828
21.00	2573	2	2575
22.00	2343	0	2343
23.00	2065	0	2065
24.00	1773	0	1773
ENERGY IN Mus	54.544	0.194	54.738



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING DECEMBER 2009 – 31.12.2009 – 3243MW at 10:04:00hrs.

All figures in MW

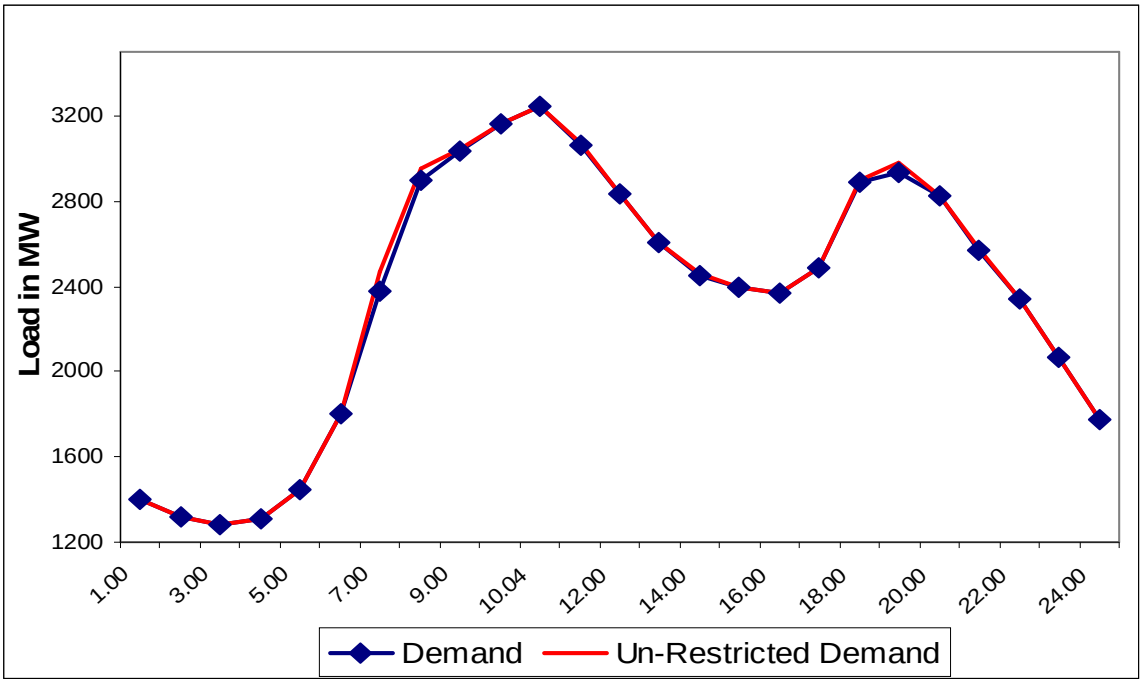
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1403	0	1403
2.00	1316	0	1316
3.00	1284	0	1284
4.00	1307	0	1307
5.00	1447	2	1449
6.00	1801	0	1801
7.00	2381	85	2466
8.00	2898	50	2948
9.00	3039	8	3047
10.00	3164	0	3164
10.04	3243	0	**3243**
11.00	3063	9	3072
12.00	2833	5	2838
13.00	2604	5	2609
14.00	2449	12	2461
15.00	2392	5	2397
16.00	2366	0	2366
17.00	2483	0	2483
18.00	2893	4	2897
19.00	2937	39	2976
20.00	2825	3	2828
21.00	2573	2	2575
22.00	2343	0	2343
23.00	2065	0	2065
24.00	1773	0	1773
ENERGY IN Mus	54.544	0.194	54.738



12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING DECEMBER 2009 – 31.12.2009 – 54.544 Mus

All figures in MW

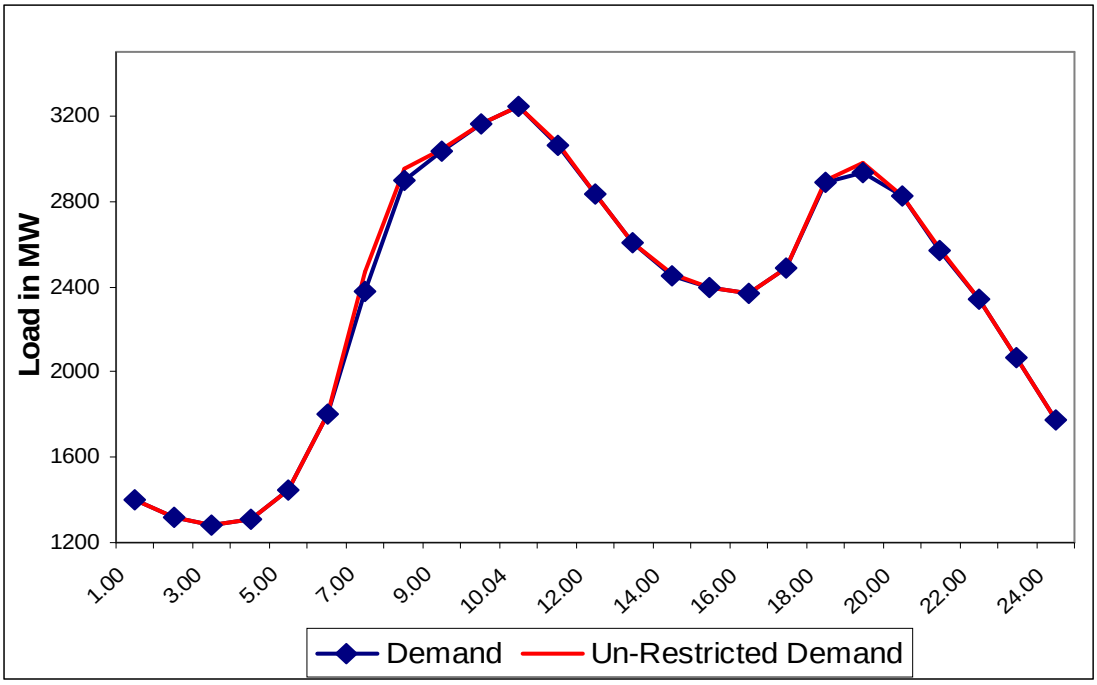
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1403	0	1403
2.00	1316	0	1316
3.00	1284	0	1284
4.00	1307	0	1307
5.00	1447	2	1449
6.00	1801	0	1801
7.00	2381	85	2466
8.00	2898	50	2948
9.00	3039	8	3047
10.00	3164	0	3164
10.04	3243	0	3243
11.00	3063	9	3072
12.00	2833	5	2838
13.00	2604	5	2609
14.00	2449	12	2461
15.00	2392	5	2397
16.00	2366	0	2366
17.00	2483	0	2483
18.00	2893	4	2897
19.00	2937	39	2976
20.00	2825	3	2828
21.00	2573	2	2575
22.00	2343	0	2343
23.00	2065	0	2065
24.00	1773	0	1773
ENERGY IN Mus	**54.544**	0.194	54.738



13 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING DECEMBER 2009 – 31.12.2009 – 54.738Mus

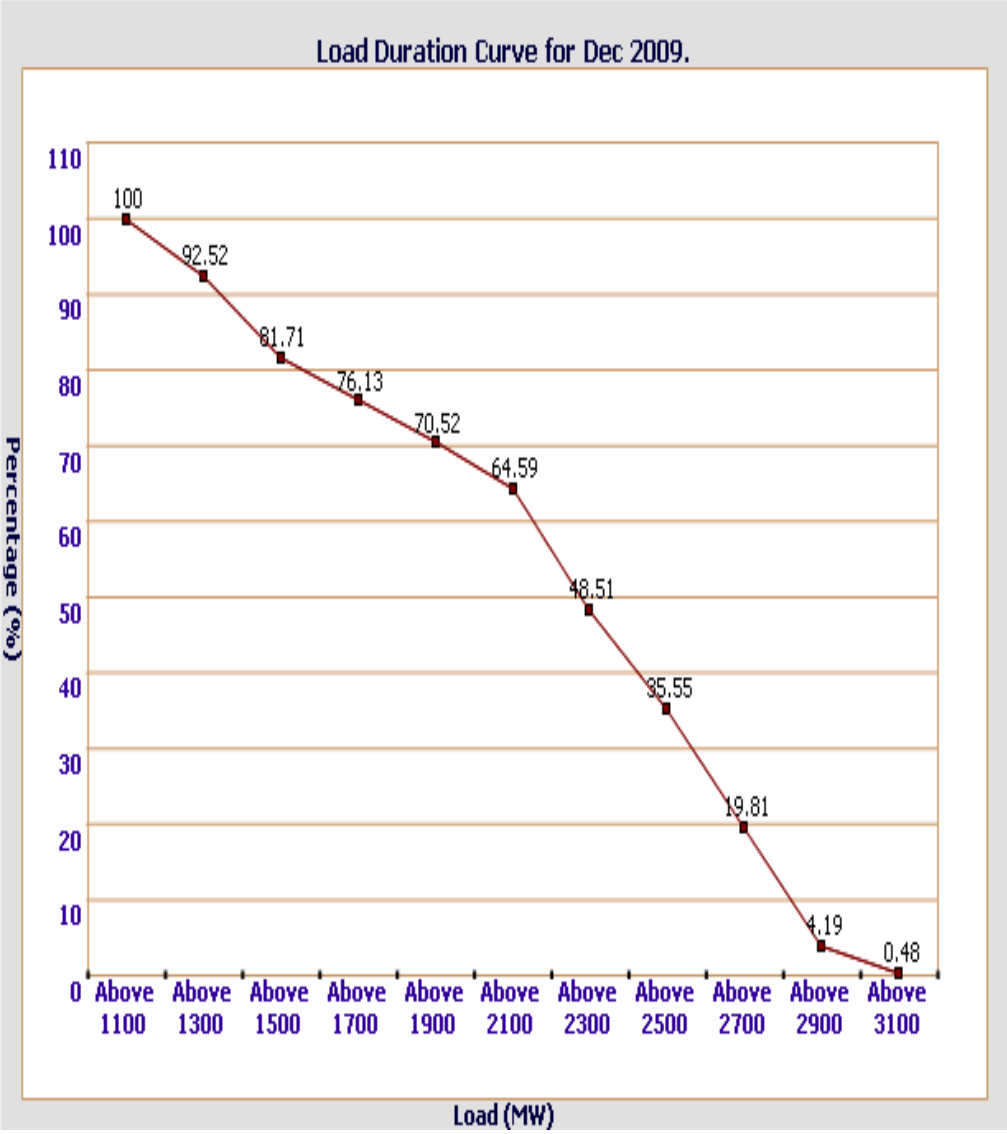
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1403	0	1403
2.00	1316	0	1316
3.00	1284	0	1284
4.00	1307	0	1307
5.00	1447	2	1449
6.00	1801	0	1801
7.00	2381	85	2466
8.00	2898	50	2948
9.00	3039	8	3047
10.00	3164	0	3164
10.04	3243	0	3243
11.00	3063	9	3072
12.00	2833	5	2838
13.00	2604	5	2609
14.00	2449	12	2461
15.00	2392	5	2397
16.00	2366	0	2366
17.00	2483	0	2483
18.00	2893	4	2897
19.00	2937	39	2976
20.00	2825	3	2828
21.00	2573	2	2575
22.00	2343	0	2343
23.00	2065	0	2065
24.00	1773	0	1773
ENERGY IN Mus	54.544	0.194	**54.738**



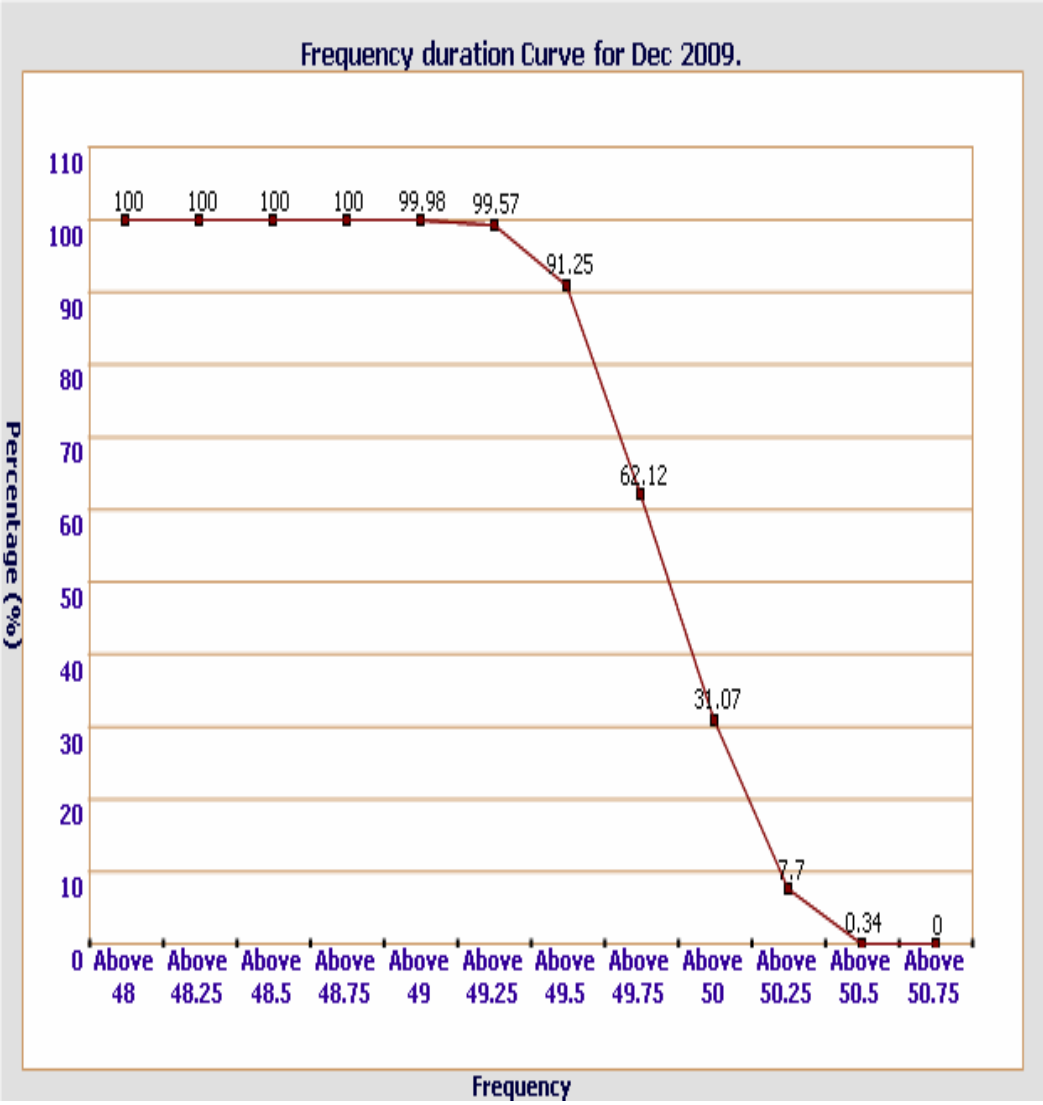
14 LOAD DURATION CURVE FOR DECEMBER 2009

Load in MW	Percentage of Time
Above 1100	100 %
Above 1300	92.52 %
Above 1500	81.71 %
Above 1700	76.13 %
Above 1900	70.52 %
Above 2100	64.59 %
Above 2300	48.51 %
Above 2500	35.55 %
Above 2700	19.81 %
Above 2900	4.19 %
Above 3100	0.48 %



15 FREQUENCY ANALYSIS FOR THE MONTH OF DECEMBER 2009

Frequency Range in Hz.	Percentage of time
Above 48.50	100 %
Above 48.75	100 %
Above 49.00	99.98 %
Above 49.25	99.57 %
Above 49.50	91.25 %
Above 49.75	62.12 %
Above 50.00	31.07 %
Above 50.25	7.7 %
Above 50.50	0.34 %
Above 50.75	0 %



16 VOLTAGE PROFILE OF 220 KV SUB-STATIONS IN DELHI DURING DECEMBER 2009

All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
01-Dec-09	--	--	--	--
02-Dec-09	--	--	--	--
03-Dec-09	--	--	--	--
04-Dec-09	232.53	213.19	230.47	213.83
05-Dec-09	232.15	--	232.53	212.03
06-Dec-09	232.15	214.73	230.47	212.54
07-Dec-09	233.18	211.90	231.37	210.74
08-Dec-09	233.31	209.96	233.05	207.90
09-Dec-09	232.40	209.10	233.18	213.44
10-Dec-09	230.08	214.09	235.24	217.70
11-Dec-09	232.53	207.51	233.69	213.19
12-Dec-09	233.05	208.54	234.47	211.77
13-Dec-09	--	218.99	233.18	215.77
14-Dec-09	231.89	214.09	233.95	213.83
15-Dec-09	233.05	212.67	235.24	214.61
16-Dec-09	232.79	213.32	234.60	216.54
17-Dec-09	230.86	212.03	232.02	214.48
18-Dec-09	231.24	212.80	232.53	213.06
19-Dec-09	--	--	233.18	212.54
20-Dec-09	230.73	212.54	234.47	212.54
21-Dec-09	232.15	--	231.50	210.61
22-Dec-09	229.31	210.61	229.95	211.25
23-Dec-09	225.31	209.32	231.24	211.51
24-Dec-09	230.73	208.54	231.50	211.25
25-Dec-09	229.82	209.58	231.76	210.22
26-Dec-09	230.86	210.09	231.50	--
27-Dec-09	231.89	215.38	230.21	213.06
28-Dec-09	232.66	--	230.73	--
29-Dec-09	231.37	210.22	232.15	212.54
30-Dec-09	230.86	208.54	232.53	210.87
31-Dec-09	231.24	208.80	232.53	--

17 VOLTAGE PROFILE OF 400 KV SUB-STATIONS IN DELHI DURING DECEMBER 2009

All figures in kV

Date	400kV Bamnauli Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01-Dec-09	--	--	--	--	--
02-Dec-09	--	--	--	--	--
03-Dec-09	--	--	--	--	--
04-Dec-09	413.64	21.45.44	386.91	08.16.47	405.32
05-Dec-09	417.86	04.09.55	382.69	10.11.26	401.89
06-Dec-09	413.87	21.26.38	384.09	09.17.55	400.60
07-Dec-09	415.52	03.10.56	378.70	10.32.13	398.97
08-Dec-09	414.34	04.03.39	374.48	09.39.10	398.63
09-Dec-09	414.34	05.03.05	377.53	10.15.36	398.67
10-Dec-09	415.98	05.03.05	384.33	12.24.02	399.08
11-Dec-09	415.52	21.31.12	376.36	10.08.42	398.14
12-Dec-09	414.58	03.06.34	374.48	10.23.52	398.46
13-Dec-09	412.70	04.02.32	384.09	10.19.25	400.04
14-Dec-09	414.34	02.13.08	378.70	11.49.35	396.35
15-Dec-09	415.52	02.49.03	380.58	13.53.53	395.45
16-Dec-09	415.05	04.05.18	382.92	15.43.37	397.53
17-Dec-09	409.89	04.03.35	379.64	12.11.29	396.51
18-Dec-09	411.53	03.13.15	379.17	12.09.03	396.70
19-Dec-09	413.17	05.03.59	383.16	11.27.38	402.91
20-Dec-09	415.52	05.04.05	377.06	12.05.46	398.80
21-Dec-09	409.89	04.02.03	374.01	09.47.57	392.33
22-Dec-09	407.54	05.04.47	373.78	10.16.48	391.67
23-Dec-09	409.18	05.04.44	371.67	12.12.51	391.00
24-Dec-09	410.36	05.06.16	373.54	15.16.59	392.05
25-Dec-09	410.12	03.55.40	374.01	08.49.00	393.61
26-Dec-09	411.06	02.11.56	376.12	12.19.57	395.11
27-Dec-09	413.17	21.44.08	384.33	10.14.21	400.01
28-Dec-09	410.36	03.06.50	382.69	10.39.11	396.62
29-Dec-09	410.12	04.03.41	377.29	09.40.16	394.46
30-Dec-09	410.36	03.23.35	374.01	10.35.41	393.74
31-Dec-09	410.83	04.03.14	378.00	11.17.21	393.89

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01-Dec-09	--	--	--	--	--
02-Dec-09	--	--	--	--	--
03-Dec-09	--	--	--	--	--
04-Dec-09	416.69	21.45.44	390.89	08.17.07	408.42
05-Dec-09	421.38	04.10.35	387.61	10.11.16	405.96
06-Dec-09	417.86	21.26.18	388.55	12.14.56	404.92
07-Dec-09	419.27	03.11.26	384.09	10.33.13	402.73
08-Dec-09	416.92	04.03.39	378.47	09.40.40	402.00
09-Dec-09	416.69	05.03.15	382.22	10.14.36	402.07
10-Dec-09	418.56	05.03.15	388.78	14.50.01	402.28
11-Dec-09	419.03	21.32.22	381.05	10.08.42	401.53
12-Dec-09	416.69	03.06.04	379.17	10.23.52	401.66
13-Dec-09	415.05	03.10.50	387.61	12.13.22	403.65
14-Dec-09	416.22	02.13.18	382.22	11.50.05	399.80
15-Dec-09	418.33	02.57.04	383.86	13.53.43	398.03
16-Dec-09	418.10	04.04.48	387.38	11.05.38	400.97
17-Dec-09	411.53	04.03.05	383.39	12.12.59	399.60
18-Dec-09	413.41	03.13.15	382.92	12.08.53	399.85
19-Dec-09	414.81	05.03.59	386.91	11.28.39	405.85
20-Dec-09	416.92	05.04.05	381.05	10.17.48	401.75
21-Dec-09	409.18	20.56.35	378.00	09.47.47	391.42
22-Dec-09	409.65	21.44.31	377.29	10.17.08	395.25
23-Dec-09	411.53	05.04.34	376.12	12.12.51	394.71
24-Dec-09	412.00	05.05.26	377.29	10.21.20	394.67
25-Dec-09	412.00	03.55.50	376.83	08.49.00	396.02
26-Dec-09	412.23	02.11.56	379.40	12.20.07	397.73
27-Dec-09	415.05	21.43.58	387.38	10.12.31	402.42
28-Dec-09	412.47	04.02.14	385.03	12.37.58	399.23
29-Dec-09	412.23	04.04.01	381.51	15.46.19	397.43
30-Dec-09	412.47	03.15.14	377.06	12.10.48	396.78
31-Dec-09	413.17	04.03.14	381.75	11.17.51	397.21

18 DETAILS OF LUMPED CAPACITORS AT NEAREST 220 KV SUBSTATION

a) Delhi Transco Limited (DTL)

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

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

B. IPGCL

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

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

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

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

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

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

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

20 DETAILS OF BREAK-DOWNS

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
01	01.12.09	03.45	220/66KV 100MVA PR. TR.-II AT KANJHAWALA	01.12.09	07.50	TR. TRIPPED ON OVER FLUX ALONG WITH 66KV I/C-II WHICH TRIPPED ON INTER TRIPPING.
02	01.12.09	16.57	220KV BAMNAULI – NARAINA CKT-II	01.12.09	17.05	CKT. TRIPPED ON 186, BUS BAR PROTECTION, 96.
03	02.12.09	02.21	220/33KV 100MVA PR. TR.-II AT PARK STREET	02.12.09	02.50	TR. TRIPPED ON 86 ALONG WITH 33KV I/C-II WHICH TRIPPED ON 51NX, 86
04	03.12.09	02.52	220/66KV 100MVA PR. TR.-II AT KANJHAWALA	03.12.09	06.27	TR. TRIPPED ON OVER FLUX, AIR PRESSURE LOW.
05	03.12.09	17.38	220KV BAWANA – NAJAFGARH CKT-I & II	03.12.09	17.43	BOTH CKTS TRIPPING WHILE TESTING OF UNDER FREQUENCY RELAYS AT BAWANA.
06	03.12.09	17.38	220KV BAWANA – DSIDC CKT-I & II	03.12.09	17.43	BOTH CKTS TRIPPING WHILE TESTING OF UNDER FREQUENCY RELAYS AT BAWANA.
07	05.12.09	12.49	220/66KV 100MVA PR. TR.-II AT NARELA	05.12.09	17.42	TR. TRIPPED ON BUS DIFFERENTIAL, A&C PHASE, 86
08	07.12.09	05.00	66/11KV 20MVA PR. TR.-II AT NAJAFGARH	07.12.09	10.30	TR. TRIPPED ON 64RLV, E/F, HV 64, RHF PROTECTION ALONG WITH 11KV I/C-III.
09	08.12.09	15.10	220/33KV 100MVA PR. TR.-II AT KASHMIRI GATE	08.12.09	15.47	TR. TRIPPED ON WINDING TEMP ALARM.
10	10.12.09	08.52	220/33KV 100MVA PR. TR.-I AT IP STATION	10.12.09	10.02	TR. TRIPPED AL
11	10.12.09	11.57	400KV BAMNAULI – BAWANA CKT-I	10.12.09	15.14	CB-1752 OF THE CKT TRIPPED ON CB-I AUTO TRIP, 295BC TRIP CKT SUPERVISION, CB-I TC-2 FAULTY, CB DC-I FAIL AT BAMNAULI AND ON CB-II AUTO TRIP, 186A&B, AUTO RECLOSE LOCKOUT
12	11.12.09	01.48	220/33KV 100MVA PR. TR.-II AT SUBZI MANDI	11.12.09	02.50	TR. TRIPPED WITHOUT INDICATION.
13	12.12.09	15.47	220/66KV 100MVA PR. TR.-II AT PARK STREET	12.12.09	16.15	TR. TRIPPED ON E/F, 86 ALONG WITH 66KV I/C-II WHICH TRIPPED ON INTER TRIPPING.
14	13.12.09	12.56	220/66KV 100MVA PR. TR.-II AT PARK STREET	13.12.09	13.07	TR. TRIPPED ON E/F.
15	16.12.09	03.30	66/11KV 20MVA PR. TR.-II AT SARITA VIHAR	16.12.09	08.48	TR. TRIPPED 86, 86T, 64RLV ALONG WITH 11KV I/C-II WHICH TRIPPED ON O/C `R'&B' PHASE.
16	20.12.09	12.38	220KV MAHARANI BAGH – SARITA VIHAR CKT.	20.12.09	12.49	CKT. TRIPPED ON DIST PROT `B' PHASE ZONE-I, 186, 186A, 186B AT SARITA VIHAR AND ON DIST PROT `Y' PHASE ZONE-I AT MAHARANI BAGH.
17	20.12.09	18.35	220KV BTPS – SARITA VIHAR CKT-I	21.12.09	19.19	CKT. TRIPPED WITHOUT INDICATION AT BTPS. NO TRIPPING AT SARITA VIHAR.
18	20.12.09	22.30	220KV PRAGATI – SARITA VIHAR CKT.	20.12.09	22.32	CKT. TRIPPED ON AUTO RECLOSE, 186AB, DIRECTIONAL E/F, BACKP ROTECTION AT SARITA VIHAR AND ON `R' PHASE E/F AT BTPS.
19	21.12.09	04.19	220KV SARITA VIHAR – PRAGATI CKT.	21.12.09	19.33	CKT.TRIPPED ON 95, 96 AT SARITA VIHAR. `Y' PHASE POLE OF BREAKER DAMAGED AT SARITA VIHAR.
20	21.12.09	04.19	220KV BTPS – SARITA VIHAR CKT-I	21.12.09	05.18	CKT. TRIPPED ON `R' PHASE E/F AT BTPS. NO TRIPPING AT SARITA VIHAR
21	21.12.09	04.19	220/66KV 100MVA PR. TR.-I & II AT SARITA VIHAR	21.12.09	05.33	BOTH TRANSFORMERS TRIPPED ON BUS BAR PROTECTION. 100MVA PR. TR.-I & II CHARGED AT 05.18HRS. AND 05.33HRS. RESPECTIVELY.
22	21.12.09	07.15	220KV BTPS – NOIDA – GAZIPUR CKT.	21.12.09	07.56	CKT. TRIPPED ON O/C, 86 AT GAZIPUR ALONG WITH 66KV I/C-I & II WHICH TRIPPED ON 86, O/C.
23	22.12.09	05.05	220/66KV 100MVA PR. TR-I AT SARITA VIHAR	22.12.09	19.51	TR. TRIPPED ON 30A.
24	23.12.09	12.36	220/33KV 100MVA PR. TR.-II AT IP STN.	23.12.09	19.20	TR. TRIPPED ON DIFFERENTIAL.

SLNO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
25	25.12.09	13.27	220KV GEETA COLONY – WAZIRABAD CKT-II	25.12.09	13.40	CKT. TRIPPED WITHOUT INDICATION AT WAZIRABAD.
26	25.12.09	13.27	220KV WAZIRABAD – KASHMIRI GATE CKT-I & II	25.12.09	13.41	BOTH CKTS TRIPPED WITHOUT INDICATION AT WAZIRABAD. NO TRIPPING AT KASHMIRI GATE. CKT-I & II CHARGED AT 13.36HRS. AND 13.41HRS RESPECTIVELY.
27	25.12.09	13.27	220/66KV 100MVA PR. TR.-I & II AT WAZIRABAD	25.12.09	13.44	BOTH TRANSFORMERS TRIPPED WITHOUT INDICATION. TR.-I & II CHARGED AT 13.42HRS. AND 13.44HRS.
28	25.12.09	13.27	220KV MANDOLA – WAZIRABAD CKT-IV	25.12.09	18.09	CKT. TRIPPED ON DIST PROT `RYB' PHASE AT WAZIRABAD AND ON `Y' PHASE DIST PROT AT AT MANDOLA.
29	25.12.09	15.39	220KV WAZIRABAD – KASHMIRI GATE CKT-II	25.12.09	20.14	CKT. TRIPPED ON GENERAL TRIP, GFC-STFWL, L2L, L3, ZM1 TRIP, AT WAZIRABAD. NO TRIPPING AT KASHMIRI GATE
30	26.12.09	09.31	220KV BANMAULI – NARAINA CKT-I	26.12.09	10.25	CKT. TRIPPED ON DIST PROT `C' PHASE, 186A, 186B, AUTO RECLOSE LOCK OUT AT BAMNAULI. TRIPPING OCCURRED WHILE CHANING OVER OF LOAD FROM BUS-I TO BUS-II DUE TO PLANNED SHUT-DOWN
31	26.12.09	17.54	220/33KV 100MVA PR. TR.-II AT SUBZI MANDI	26.12.09	19.25	TR. TRIPPED ON 86, O/C, E/F ALONG WITH 33KV I/C-II WHICH TRIPPED ON TRIP CKT. SUPERVISION RELAY, 95ABC, 86, NON DIRECTIONAL E/F, O/C, E/F, 51R&B.
32	28.12.09	14.07	220KV WAZIRABAD – KASHMIRI GATE CKT-II	28.12.09	16.10	CKT. TRIPPED ON L1-L2 PANELD, ZM1 TRIP, ZM2 START, ZM3 START, RXME-18, ZONE-I TRIP AT WAZIRABAD. NO TRIPPING AT KASHMIRI GATE
33	31.12.09	04.55	220KV BAWANA – NAJAFGARH CKT-II	31.12.09	05.07	CKT. TRIPPED ON DIST PROT `A' PHASE ZONE-I AT BAWANA AND ON 186A AT NAJAFGARH
34	31.12.09	06.06	220KV BAWANA – NAJAFGARH CKT-II	31.12.09	06.23	CKT. TRIPPED ON DIST PROT `A' PHASE ZONE-I AT BAWANA AND ON 186A AT NAJAFGARH.
35	31.12.09	06.50	220KV BAWANA – NAJAFGARH CKT-I	31.12.09	06.57	CKT. TRIPPED ON DIST PROT ZONE-I, 86 AT BAWANA AND ON DIST PROT. `ABC' PHASE, 186 AT NAJAFGARH.
36	31.12.09	07.26	220KV BAWANA – NAJAFGARH CKT-I	31.12.09	11.50	CKT. TRIPPED ON DIST PROT `B' PHASE ZONE-I AT BAWANA AND ON DIST PROT ABC PHASE, 186 AT NAJAFGARH.
37	31.12.09	08.19	400KV BAMNAULI – BAWANA CKT-I	31.12.09	08.36	CKT. TRIPPED ON MAIN-I & II ANZ-I, 186A&B, DIST PROT ANZ-I, ZONE-I AT BAWANA AND ON 195B1C, 195C2C, 186A, 186B, 130D AT BAMNAULI.

21 DETAILS OF UNDERFREQUENCY TRIPPINGS

DATE	S N.	TIME IN HRS.		LOAD AFFECTED IN MW	STAGE / FREQ.	AREAS/ GROUP AFFECTED
		OUT	IN			
14.12.09	1	13.45	14.00	76	**FLAT**	66kV SARITA VIHAR – MATHURA ROAD CKT-I & II
27.12.09	1	12.22	12.26	18	**FLAT**	33KV LODHI ROAD – NIZAMUDDIN CKT. 33KV LODHI ROAD – LAJPAT NAGAR CKT.