DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

****

FEBRUARY - 2011

1 SALIENT FEATURES OF DELHI POWER SYSTEM

Sr. No.	Features	FEB 2011	FEB 2010
1	**Effective Generation Capacity within Delhi in MW**		
	Rajghat Power House	135	135
	Gas Turbine	270	270
	Pragati Power Corporation Ltd.	330	330
	Badapur Thermal Power Station	705	705
	Rithala GT	73	--
	Total	1513	1440
2	**Maximum Unrestricted Demand (MW)**	**3196**	**3306**
	Date	12.02.2010	04.02.1011
	Time	10:04:55	10:01:26
3	**Peak Demand met (MW)**	**3196**	**3306**
	Date	12.02.2010	04.02.1011
	Time	10:04:55	10:01:26
4	Peak Availability (MW)	3382	3381
5	Shortage (-) / Surplus (+) in MW	(+)186	(+)75
6	Percentage Shortage (-) / Surplus (+)	(+)5.82	(+)2.27
7	Maximum Energy Consume in a day (Mus)	53.344	57.931
8	Energy Consumed during the month	**1411.817**	**1524.178**
9	**Load Shedding in Mus**		
A)	Due to Grid Restrictions		
i)	Under Frequency Relay Operations	0.000	0.004
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	0.082
	BRPL	0.000	0.158
	BYPL	0.000	0.000
	NDMC	0.000	0.000
	MES	0.000	0.000
iv)	Due to transmission Constraints in Central Sector	0.000	0.000
	Total due to Grid Restriction	**0.000**	**0.244**
B)	Due to Constraints in System in Mus		
	DTL	0.614	0.212
	NDPL	4.031	0.396
	BRPL	0.401	0.144
	BYPL	0.156	0.150
	NDMC	0.000	0.001
	MES	0.000	0.000
	Other Agencies	0.021	0.002
	Total	**5.223**	**0.905**
11	**Grand Total in Mus**	**5.223**	**1.149**

2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING FEB. 2011

A) For the month of February 2011

All Figures in MUs

S. No	Stations	Gross Generation	Aux. Consumption	Net Generation	Availability (%)	Backing Down
1.	**RPH**	67.21000	7.92900	59.28100	73.22	0.0000
2.	**GT**	104.98800	3.45900	101.52900	72.76	27.12725
3.	**PPCL**	204.54300	4.59800	199.94500	100.35	19.71750
4.	**BTPS**	419.64701	46.16117	373.48584	99.06	50.68500
5.	**Rithala**	12.46100	0.255	12.20600	--	0.00000
	TOTAL	**808.84901**	**62.40217**	**746.44684**		**97.52975**

B) For the Year 2010-11 (Upto February 2011)

Power Station	Effective Capacity (MW)	Net Generation in MUs For Feb 2011	Availability (%) For 2011	PLF (%) For Feb. 2011	Cumulative Generation in MUs upto Feb.2011 for the year 2010-11	Cumulative Availability in % upto Feb 2011 for the year 2010-11	Cumulative PLF in % upto Feb 2011 for the year 2010-11
RPH	135	59.28100	73.22	73.22	613.39900	74.98	65.12
GT	270	101.52900	72.76	57.35	1210.93000	82.95	58.84
PPCL	330	199.94500	100.35	91.19	2214.64700	90.82	85.66
BTPS	705	373.48584	99.06	87.04	3771.04398	89.61	73.52
Rithala	**73**	12.20600	--	--	67.17100	--	--
TOTAL	**1513**	**746.44684**			**7877.19098**		

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

(A) RPH STATION

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	67.5	02.04.10	01.00	02.04.10	01.43	Boiler drum level low
		02.04.10	14.50	02.04.10	16.27	Tripped alongwtih trippings of associated transmission lines.
		11.04.10	22.13	11.04.10	23.08	Electrical Problem
		17.04.10	00.56	26.06.10	11.53	Planned shut-down for over-hauling of generator.
		26.06.10	12.56	26.06.10	14.25	Furnace pressure very low.
		27.06.10	14.28	05.07.10	00.50	Drum level low.
		10.07.10	15.45	10.07.10	20.02	Due to power loss.
		12.07.10	20.05	13.07.10	06.06	Turbine trip
		13.07.10	12.02	13.07.10	13.41	Flame failure
		13.07.10	18.33	13.07.10	20.21	Tripped along wtih trippings of associated transmission lines.
		15.07.10	10.39	19.07.10	13.14	Auxiliary transformer tripped.
		24.07.10	20.23	26.07.10	09.58	Boiler Tube Leakage
		31.07.10	12.25	31.07.10	14.07	Boiler trip.
		01.08.10	07.30	03.08.10	05.25	Furnace pressure very low.
		03.08.10	16.04	03.08.10	17.50	Loss of oil fuels
		08.08.10	07.28	08.08.10	08.10	Flame failure
		22.08.10	00.03	23.08.10	15.28	Flame failure
		25.08.10	03.00	29.08.10	08.25	Ash formed in coal bunker
		30.08.10	11.00	30.08.10	11.02	Flame failure
		09.09.10	20.45	02.09.10	21.10	Boiler tripped
		04.09.10	02.15	04.09.10	10.23	Due to tripping of bus bar
		05.09.10	18.07	07.09.10	02.47	Reserve shut-down
		08.09.10	13.09	08.09.10	22.42	Flame failure
		09.09.10	09.40	09.09.10	11.10	Drum level low
		16.09.10	04.02	18.10.10	06.47	Failure of boiler and due to Commonwealth Games.
		21.10.10	13:05	21.10.10	13:48	Flame failure
		21.10.10	19.57	22.10.10	13.32	Boiler drum trip
		23.10.10	21.40	26.10.10	01.44	No coal flow
		26.10.10	00.24	27.10.10	02.22	Boiler drum trip
		05.11.10	08.44	08.11.10	04.02	Boiler Tube Leakage
		17.11.10	13.13	20.11.10	17.00	Boiler Tube Leakage
		03.12.10	23.19	08.12.10	23.42	Boiler Tube Leakage
		08.12.10	23.50	13.12.10	04.40	Boiler Tube Leakage
		28.12.10	14.02	29.12.10	19.52	Boiler Tube Leakage
		04.02.11	15.40	07.02.11	19.15	Boiler Tube Leakage
		12.02.11	11.13	12.02.11	11.30	Flame failure
		23.02.11	15.33	05.03.11	00.20	Boiler Tube Leakage

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	**67.5**	02.04.10	14.55	02.04.10	16.45	Tripped along wtih trippings of associated transmission lines.
		20.04.10	13.42	21.04.10	17.12	Low furnace pressure
		28.04.10	18.39	28.04.10	19.23	Low vacuum
		01.05.10	18.15	01.05.10	20.52	Tripped along wtih trippings of associated transmission lines.
		05.05.10	06.45	05.05.10	08.12	Furnace pressure low
		08.05.10	17.28	08.05.10	18.29	Drum level low
		09.05.10	03.48	09.05.10	05.17	Flame failure
		26.05.10	12.25	26.05.10	14.20	33kV bus differential operated
		28.05.10	05.55	29.05.10	07.17	Drum level low
		02.06.10	06.25	02.06.10	07.24	Electrical problem
		13.06.10	15.42	13.06.10	18.39	Tripped along wtih trippings of associated transmission lines.
		22.06.10	07.48	22.06.10	09.09	Furnace pressure low
		07.07.10	10.55	07.07.10	12.08	Flame failure
		10.07.10	15.45	10.07.10	20.01	Tripped along wtih trippings of associated transmission lines.
		19.07.10	14.39	19.07.10	15.19	Turbine tripped
		20.07.10	18.12	20.07.10	19.57	Turbine tripped.
		21.07.10	04.45	21.07.10	05.47	Turbine tripped.
		25.07.10	12.16	25.07.10	15.10	Under frequency relay operated
		11.08.10	11.24	11.08.10	11.54	High furnace pressure
		22.08.10	09.37	22.08.10	19.11	Coal flow very low
		03.09.10	19.37	04.09.10	01.01	Due to bus bar tripping
		05.09.10	10.25	18.10.10	06.34	Boiler tube leakage. Machines could not be synchronized due to CWG
		18.10.10	09.42	18.10.10	10.37	Boiler drum tripped
		20.10.10	15.54	21.07.10	22.00	Turbine tripped
		24.10.10	14.38	24.10.10	21.24	Turbine tripped
		28.10.10	00.15	31.10.10	19.20	Boiler tube leakage
		13.11.10	16.42	18.11.10	17.25	Electrical Problem
		12.12.10	09.59	12.12.10	10.45	Electrical Problem
		15.02.11	19.22	15.02.11	20.08	Turbine vibration high
		19.02.11	15.48	19.02.11	16.44	Drum level low
		20.02.11	00.20	23.02.11	14.50	Boiler Tube Leakage

(B) Gas Turbine

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	**30**	11.05.10	17.58	11.05.10	20.07	FSNL due to tripping of 160 MVA Txr. Buchholz and E/F
		15.05.10	14.02	15.04.10	15.34	To attend the hot spot
		28.05.10	05.22	28.05.10	22.15	Due to heavy blast in 11KV Breaker
		30.05.10	12.55	31.05.10	11.12	Stopped due to high under drawal at high frequency.
		07.06.10	09.22	08.06.10	21.08	
		10.06.10	00.10	10.06.10	08.07	Due to overloading of 160 MVA Tx
		02.07.10	15.12	07.01.20	15.54	Gas fuel hydraulic trip pressure low
		04.07.10	21.31	05.07.10	13.28	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due high frequency
		06.07.10	07.37	06.07.10	09.15	Tripped due to tripping of 160 MVA TX at IP End.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	30	08.07.10	07.15	08.07.10	13.00	Gas fuel hydraulic trip pressure low
		08.07.10	13.00	08.07.10	21.10	Stopped due to high under drawal at high frequency.
		12.07.10	11.02	12.07.10	12.05	Gas fuel hydraulic trip pressure low
		12.07.10	20.15	14.07.10	02.42	Stopped due to high under drawal at high frequency.
		14.07.10	06.04	14.07.10	06.55	Gas fuel hydraulic trip pressure low
		14.07.10	19.42	14.07.10	20.40	Gas fuel hydraulic trip pressure low
		18.07.10	07.24	18.07.10	14.19	Due to shut-down of 160 MVA Tx.
		20.07.10	15.31	21.07.10	07.52	Stopped due to high under drawal at high frequency.
		22.07.10	18.50	24.07.10	14.55	
		25.07.10	00.02	29.07.10	11.27	
		31.07.10	11.00	12.08.10	11.27	
		12.08.10	18.55	14.08.10	22.18	C&I Problem. After clearance from C&I GT not taken on load due to swapping of gas to PPCL
		15.08.10	11.08	28.08.10	23.10	Stopped due to high under drawal at high freq. Machine could not sync-hronized after 15:30hrs. as voltage not build up more than 9.5KV.
		03.09.10	09.02	30.09.10	14.22	Stopped due to high under drawal at high frequency.
		04.10.10	06.05	06.10.10	10.55	
		11.10.10	12.15	11.10.10	13.25	Problem in emergency push button switch
		26.10.10	00.02	26.11.10	10.50	Stopped due to high under drawal at high frequency
		26.11.10	12.05	29.11.10	05.50	
		30.11.10	00.15	30.11.10	06.55	
		09.12.10	00.04	09.12.10	06.25	
		11.12.10	00.05	11.12.10	06.24	
		14.12.10	00.04	14.12.10	06.20	
		14.12.10	00.04	14.12.10	06.19	
		20.12.10	21.05	21.12.10	06.26	
		23.12.10	00.02	23.12.10	05.52	
		28.12.10	18.10	29.12.10	23.59	Machine stopped to avoid overloading of 160 MVA Txr-2.
		30.12.10	02.35	30.12.10	06.40	Stopped due to high under drawal at high frequency
		31.12.10	21.46	31.12.10	23.59	
		01.01.11	0.00	01.01.11	20.30	
		03.01.11	00.05	05.01.11	11.45	
		08.01.11	14.45	08.01.11	15.26	Machine tripped as on jerk due to tripping of 160MVA Tx-I & II
		08.01.11	17.18	08.01.11	19.58	Unit tripped due to tripping of 160 MVA Tx-I & II while energization of 66 KV Akshardham Ckt.
		20.01.11	00.02	22.01.11	06.23	Stopped due to high under drawal at high frequency
		22.01.11	17.50	03.02.11	23.59	
		04.02.11	00.00	28.02.11	23.59	Machine taken for Major Inspection

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	**30**	11.05.10	17.58	11.05.10	20.30	FSNL due to tripping of 160 MVA Txr. Buchholz and E/F
		30.05.10	13.45	31.05.10	09.19	Machine stopped to avoid overloading of 160 Mva Tx as one 100MVA Transformer was under replacement with 160MVA Tx at IP Extension
		07.06.10	14.19	07.06.10	18.55	
		20.06.10	08.35	20.06.10	11.02	Tripped without any alarm
		04.07.10	21.31	05.07.10	07.47	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due to high freq.
		06.07.10	07.23	06.07.10	10.03	Tripped due to tripping of 160 MVA TX at IP End.
		08.07.10	14.58	08.07.10	19.32	
		12.07.10	21.12	13.07.10	21.39	Stopped due to high under drawal at high frequency.
		18.07.10	07.58	18.07.10	12.26	Due to shut-down of 160 MVA Tx.
		20.07.10	13.01	21.07.10	04.13	Stopped due to high under drawal at high frequency.
		22.07.10	21.47	24.07.10	07.35	
		25.07.10	01.50	29.07.10	13.18	
		31.07.10	11.00	09.08.10	12.31	
		11.08.10	18.25	12.08.10	11.20	
		12.08.10	12.48	12.08.10	19.45	
		13.08.10	12.30	28.08.10	15.15	Swapping of gas to PPCL.
		01.09.10	22.33	01.10.10	16.00	Stopped due to low demand and high frequency.
		01.10.10	16.00	10.01.10	18.40	Oil leakage from load gear box
		26.10.10	00.02	29.11.10	06.10	Stopped due to low demand and high frequency.
		14.12.10	14.40	14.12.10	15.20	Electrical problem
		16.12.10	00.05	16.12.10	07.12	Stopped due to low demand and high frequency.
		24.12.10	11.55	25.12.10	16.05	Due to tripping of 160MVA Tx-i
		04.01.11	00.05	04.01.11	19.12	Machine stopped as generation on Spot R-LNG is not required by SLDC
		08.01.11	14.45	08.01.11	15.26	Machine tripped as on jerk due to tripping of 160MVA Tx-I & II
		08.01.11	17.18	08.01.11	18.20	Unit tripped due to tripping of 160 MVA Tx-I & II while energization of 66 KV Akshardham Ckt.
		08.01.11	21.05	08.01.11	22.24	
		22.01.11	17.50	08.02.11	12.20	Machine tripped in the jerk caused due to tripping of STG#1. Machine is available on open cycle.
		08.02.11	20.32	09.02.11	11.10	Machine is available on open cycle and on Spot R-LNG
		09.02.11	20.15	10.02.11	12.30	
		14.02.11	16.15	27.02.11	23.59	
3	**30**	01.05.10	06.05	01.05.10	18.35	Stopped to clean PHE
		28.05.10	10.20	28.05.10	11.27	Tripped on battery under voltage.
		01.06.10	23.55	02.06.10	08.28	To avoid overloading of 160MVA Tx
		04.06.10	12.02	04.06.10	16.04	Condensate level high.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
3	30	06.06.10	09.42	07.06.10	14.10	To avoid overloading of 160 Mva Tx as one 100MVA Tx was under replacement with 160MVA Tx at IP Extension
		14.06.10	09.24	14.06.10	11.08	
		12.07.10	09.00	12.07.10	14.15	Machine not available due to problem in Diesel Engine of GT
		12.07.10	14.15	14.07.10	10.25	Stopped due to high under drawal at high frequency.
		17.07.10	12.20	19.07.10	15.42	Loss of Excitation.
		20.07.10	15.22	23.07.10	12.01	To regulate the load of Radial feeders as 160MVA Tx tripped on Buchholtz relay. After 19:17 hrs machine not taken on bar due to low demand
		11.08.10	17.55	12.08.10	12.39	Stopped due to high under drawal at high frequency.
		13.08.10	12.32	14.08.10	06.15	Due to swapping of gas to PPCL.
		15.08.10	11.00	15.08.10	17.13	Stopped due to high under drawal at high frequency.
		26.08.10	19.32	27.08.10	07.20	
		02.09.10	00.20	06.09.10	12.01	
		06.09.10	13.54	06.09.10	15.15	Machine tripped on Y-Phase Bus Bar differential relay on BB-3 and BB-4.
		10.09.10	16.04	28.09.10	18.25	Stopped due to high under drawal at high frequency.
		01.10.10	00.35	01.10.10	01.15	Due to problem in CRT
		15.10.10	22.20	19.10.10	23.59	Gas restriction
		25.10.10	14.05	25.10.10	18.44	Gas restriction
		28.10.10	16.41	30.11.10	23.59	Stopped due to high under drawal at high frequency.
		04.12.10	00.05	04.12.10	16.56	
		05.12.10	00.05	05.12.10	05.30	
		17.12.10	00.05	17.12.10	10.03	
		25.12.10	15.30	25.12.10	18.25	
		01.01.11	21.05	03.01.11	05.50	
		06.01.11	16.05	08.01.11	11.21	
		08.01.11	14.31	10.01.11	06.25	
		12.01.11	00.05	12.01.11	05.50	
		13.01.11	02.01	13.01.11	11.31	
		14.01.11	00.02	14.01.11	06.30	
		14.01.11	13.20	14.01.11	14.20	Machine tripped on combined cycle alarm trip relay.
		14.01.11	14.20	15.01.11	09.50	Stopped due to high under drawal at high frequency.
		15.01.11	20.05	16.01.11	13.55	
		17.01.11	07.00	17.01.11	07.25	Came on FSNL due to tripping of both 160 MVA Tx-I #II at Pragati end.
		17.01.11	23.25	18.01.11	11.10	Stopped due to high under drawal at high frequency.
		18.01.11	23.31	19.01.11	07.34	
		31.01.11	07.31	31.01.11	10.15	Machine tripped on high TAD
		02.02.11	06.07	03.02.11	06.21	Due to swapping of gas to PPCL
		10.02.11	21.15	11.02.11	21.07	Machine stopped as available on spot R-LNG.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
4	30	01.04.10	00.00	24.05.10	15.35	Planned shut-down
		24.05.10	18.02	24.05.10	22.50	Tripped on LTTH high.
		27.05.10	10.35	27.05.10	13.45	Take on FSNL to adjust the load.
		28.05.10	01.10	28.05.10	03.00	Tripped without any alarm.
		29.05.10	03.10	29.05.10	03.45	Tripped without any alarm.
		29.05.10	05.10	29.05.10	05.57	Tripped without any alarm.
		29.05.10	20.25	29.05.10	21.25	Came on FSNL
		03.06.10	14.10	03.06.10	15.30	Generator Stator overheating alarm
		05.06.10	05.46	07.06.10	08.29	To avoid overloading of 160 Mva Tx as one 100MVA Tx was under replacement with 160MVA Tx at IP Extension
		28.06.10	01.10	28.06.10	01.50	Came on FSNL
		29.06.10	14.50	29.06.10	16.10	Tripped without any alarm
		14.07.10	21.31	12.07.10	09.00	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due to low demand.
		12.07.10	09.00	12.07.10	18.15	Problem in DC EOP of GT
		12.07.10	18.15	14.07.10	11.33	Stopped due to high under drawal at high frequency.
		14.07.10	11.33	16.07.10	17.25	Due to problem in Mark-VI
		20.07.10	15.35	20.07.10	16.27	Machine came on FSNl due to jerk in the system
		20.07.10	21.01	24.07.10	05.45	Stopped due to high under drawal at high frequency.
		19.08.10	14.39	19.08.10	16.57	Tripped on loss of flame.
		19.08.10	17.35	19.08.10	22.53	Stopped due to high under drawal at high frequency.
		05.09.10	07.50	05.09.10	11.25	Tripped on following alarms lost communication with Controller R,S &T. Field failure alarm appeared on protection panel.
		06.09.10	13.54	06.09.10	14.35	Machine tripped on Y-Phase Bus Bar differential relay on BB-3 &4
		15.09.10	15.10	15.09.10	15.48	Machine came on FSNL due tripping of 160 MVA Tx
		22.09.10	21.11	28.09.10	11.57	Stopped due to high under drawal at high frequency.
		18.10.10	07.30	18.10.10	10.27	Tripped on Generator GAC Electrical Problem alarm
		25.10.10	14.10	29.11.10	19.57	Stopped due to high under drawal at high frequency
		03.12.10	00.01	03.12.10	05.05	
		12.12.10	00.02	12.12.10	06.32	
		17.12.10	00.05	17.12.10	09.48	
		19.12.10	15.35	20.12.10	06.20	
		21.12.10	21.05	22.12.10	06.25	
		08.01.11	14.25	08.01.11	15.27	Machine tripped on heavy jerk due to tripping of 160MVA Tx-I & II
		08.01.11	17.18	08.01.11	18.57	Both the 160MVA Tx tripped while energization of 66KV Akshardham ckt
		08.01.11	21.05	11.01.11	10.37	Machine tripped due to tripping of both the 160 MVA Tx. Later not taken on load due to high frequency and low demand
		14.01.11	16.30	17.01.11	20.08	Stopped due to high frequency and low demand
		03.02.11	14.20	03.02.11	15.24	Tripped on high LTTH
		28.02.11	15.01	28.02.11	17.25	C&I Inspection

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
5	30	01.04.10	00.00	01.04.10	01.30	Hydraulic pressure low
		25.04.10	11.32	25.04.10	14.55	To change generator absolute filter.
		07.05.10	18.20	08.05.10	16.35	Stopped due to high frequency.
		01.06.10	20.50	01.06.10	23.16	GT came on FSNL
		03.06.10	01.15	03.06.10	08.09	To avoid overloading of 160 Mva Tx as one 100MVA Tx was under replacement with 160MVA Tx at IP Extension
		03.06.10	20.15	04.06.10	08.33	
		07.06.10	21.43	09.06.10	15.45	
		25.06.10	09.40	25.06.10	15.25	
		26.06.10	00.05	26.06.10	05.56	
		26.06.10	09.50	28.06.10	12.20	
		14.07.10	21.31	14.07.10	22.20	Tripped due to tripping of 160 MVA TX at IP End.
		05.07.10	13.45	08.07.10	10.55	Stopped due to high frequency and low demand
		08.07.10	14.58	08.07.10	20.10	Tripped due to tripping of 160 MVA TX at IP End on Buckholtz relay.
		18.07.10	07.55	18.07.10	12.20	Due to shut-down of 160 MVA Tx.
		20.07.10	15.35	20.07.10	19.18	Machine came on FSNL due to jerk in the system
		21.07.10	09.31	22.07.10	18.46	Stopped due to high frequency and low demand
		31.07.10	11.00	01.08.10	12.57	
		13.08.10	18.25	14.08.10	06.18	Due to swapping of gas to PPCL.
		15.08.10	18.40	17.08.10	16.25	Stopped due to high frequency and low demand
		24.08.10	11.07	01.09.10	23.18	
		06.09.10	13.54	06.09.10	17.45	Machine tripped on Y-Ph Bus Bar differential relay on BB-3 and BB-4.
		08.09.10	09.30	10.09.10	14.55	Stopped due to high frequency and low demand
		15.09.10	15.10	15.09.10	16.12	Machine came on FSNL due tripping of 160 MVA Tx
		28.09.10	15.10	30.09.10	15.14	Stopped due to high frequency and low demand
		15.10.10	09.00	15.10.10	15.45	
		28.10.10	11.30	28.10.10	15.55	
		19.11.10	20.10	19.11.10	22.29	Machine tripped on Battery under voltage alarm
		26.11.10	00.10	26.11.10	02.18	TAD high
		08.12.10	00.02	08.12.10	06.20	Stopped due to high frequency and low demand
		18.12.10	00.05	18.12.10	06.40	
		24.12.10	11.55	24.12.10	12.58	Due to tripping of 160 MVA Tx-1
		25.12.10	16.25	27.12.10	12.35	Stopped due to high frequency and low demand
		27.12.10	23.35	28.12.10	09.35	Machine stopped to avoid overloading of 160 MVA Txr-2.
		29.12.10	00.05	29.12.10	11.31	
		05.01.11	00.05	05.01.11	05.47	Stopped due to high frequency and low demand.
		05.01.11	19.31	06.01.11	09.25	
		06.01.11	16.05	07.01.11	11.20	
		07.01.11	18.03	08.01.11	10.35	
		08.01.11	14.45	08.01.11	18.40	Machine tripped on heavy jerk due to tripping of 160MVA Tx-I & II
		08.01.11	21.05	08.01.11	22.35	Both the 160MVA Tx tripped while energization of 66KV Akshardham ckt

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
5	30	12.01.11	23.32	14.01.11	14.20	Stopped due to high frequency and low demand.
		17.01.11	07.00	17.01.11	07.25	Came on FSNL due to tripping of both 160MVA Tx-I & II at IP Ext
		17.01.11	20.29	18.01.11	11..44	Stopped due to high frequency and low demand.
		02.02.11	20.02	03.02.11	06.44	Due to swapping of gas to PPCL
		12.02.11	00.02	13.02.11	23.58	Machine stopped as available on spot R-LNG
		16.02.11	13.02	16.02.11	19.58	
		23.02.11	04.30	23.02.11	07.58	Machine tripped on high TAD
		27.02.11	08.20	27.02.11	17.45	Stopped due to high frequency and low demand.
6	30	16.04.10	11.35	16.04.10	17.16	To clean PHE of GT
		05.05.10	09.03	05.05.10	15.32	Stopped for PHE cleaning.
		08.05.10	18.02	10.05.10	09.30	Stopped due to high frequency.
		11.05.10	17.58	11.05.10	20.10	FSNL due to tripping of 160 MVA Txr. Buchholz and E/F
		24.05.10	16.45	24.05.10	21.13	Taken on FSNL to facilitate checking of auto synch. Mode.
		25.05.10	11.00	25.05.10	12.00	
		27.05.10	14.12	27.05.10	14.55	
		28.05.10	05.22	28.05.10	16.10	Due to blast in 11 KV Breaker
		29.05.10	17.42	30.05.10	09.55	Stopped due to high frequency.
		03.06.10	14.42	03.06.10	15.29	Machine came on FSNL due to Combustion trouble and flame detector trouble
		04.06.10	22.32	05.06.10	06.45	To avoid overloading of 160 MVA Tx as one 100MVA Tx was under replacement with 160MVA Tx at IP Extension
		07.06.10	19.55	09.06.10	14.35	
		25.06.10	18.53	28.06.10	18.50	Gas fuel control oil pressure low.
		30.06.10	17.05	30.06.10	18.58	Stopped as required by Prot.n Deptt
		04.07.10	21.31	04.07.10	21.42	Due to tripping of 160 MVA TX at IP End.
		06.07.10	07.37	08.07.10	08.20	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due to low demand
		08.07.10	14.58	08.07.10	16.49	Tripped due to tripping of 160 MVA TX at IP End on Buckholtz relay.
		08.07.10	17.25	08.07.10	18.06	Tripped due to tripping of 160 MVA TX at IP End on Buckholtz relay.
		14.07.10	09.32	14.07.10	14.28	To attend hunting in load
		20.07.10	15.35	20.07.10	15.43	Machine came on FSNl due to jerk in the system
		21.07.10	02.27	21.07.10	04.15	Tripped with multiple alarms
		21.07.10	04.15	22.07.10	18.16	Due to low demand and high freq.
		23.07.10	11.20	27.07.10	18.00	Due to smoke from mark VI panel
		27.07.10	18.00	29.07.10	12.17	Stopped due to high frequency and low demand.
		31.07.10	11.00	09.08.10	12.40	
		15.08.10	11.06	17.08.10	15.50	
		19.08.10	21.50	23.08.10	12.25	Due to swapping of gas to PPCL.
		27.08.10	08.25	31.08.10	12.37	Stopped due to high frequency and low demand.
		31.08.10	16.02	01.09.10	18.45	
		06.09.10	13.54	06.09.10	14.44	Machine tripped on Y-Ph Bus Bar differential relay on BB-3 and BB-4.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
6	30	15.09.10	15.10	15.09.10	16.12	FSNL due tripping of 160 MVA Tx
		18.09.10	12.15	18.09.10	13.40	Due to failure of IO card
		24.09.10	16.45	24.09.10	17.35	Electrical trouble
		28.09.10	19.15	30.09.10	14.20	Stopped due to high frequency and low demand.
		15.10.10	08.00	15.10.10	19.02	
		19.10.10	20.02	25.10.10	13.50	
		19.11.10	22.10	19.11.10	22.55	Due to failure of communicator
		24.11.10	12.58	24.11.10	13.55	Tripped on Numerical Relay faulty relay
		07.12.10	00.05	07.12.10	06.24	Stopped due to high frequency and low demand.
		09.12.10	22.46	10.12.10	06.20	
		13.12.10	00.02	13.12.10	06.30	
		13.12.10	06.30	13.12.10	12.14	Due to AC lube oil pump burnt
		19.12.10	00.02	19.12.10	06.44	Stopped due to high frequency and low demand.
		23.12.10	17.15	24.12.10	06.20	Machine stopped due to problem in GAIL pipeline
		24.12.10	11.55	24.12.10	12.40	Due to tripping of 160 MVA Tx-1
		25.12.10	18.28	28.12.10	13.45	To avoid overloading of 160 MVA Txr-2.
		31.12.10	00.04	31.12.10	09.10	Stopped due to high frequency and low demand.
		05.01.11	19.35	06.01.11	09.55	Stopped due to high frequency and low demand.
		08.01.11	14.45	08.01.11	15.26	Machine tripped on heavy jerk due to tripping of 160MVA Tx-I & II
		08.01.11	17.18	08.01.11	18.30	Both the 160 MVA Tx tripped while energization of 66 KV Akshardham Feeder
		08.01.11	21.05	09.01.11	16.20	
		11.01.11	00.05	11.01.11	05.50	Machine stopped to meet the shedule of 156 MW only from SLDC.
		11.01.11	06.05	11.01.11	08.08	Due to loss of excitation.
		12.01.11	00.05	12.01.11	09.27	Stopped due to high frequency and low demand
		17.01.11	00.02	17.01.11	12.10	
		18.01.11	15.20	19.01.11	07.36	
		19.01.11	14.05	22.01.11	18.28	
		03.02.11	14.35	03.02.11	14.58	Machine tripped on high LTTH.
		07.02.11	23.45	08.02.11	00.15	Machine tripped on high TAD
		14.02.11	00.42	14.02.11	15.35	Machine stopped as available on spot R-LNG
		15.02.11	14.05	15.02.11	15.50	To replace Generator Filter
		16.02.11	13.02	16.02.11	18.25	Machine stopped as available on spot R-LNG
		27.02.11	08.25	27.02.11	16.32	Stopped due to high frequency and low demand
STG 1	30	07.04.10	12.55	07.04.10	17.35	To attend dearater level problem
		12.04.10	11.52	12.04.10	12.32	Lube oil header pressure low
		11.05.10	17.58	11.05.10	21.35	Tripped due to tripping of GT#2.
		19.05.10	23.25	20.05.10	03.25	Failure of supply of Turbine panel
		28.05.10	05.22	28.05.10	15.57	Due to blast in 11 KV Breaker
		30.05.10	13.45	31.05.10	12.46	Stopped due to high frequency.
		07.06.10	14.22	07.06.10	21.35	To avoid overloading of 160MVA Tx as one 100MVA Tx was under replacement with 160MVA Tx at IP Extension

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG1	30	29.06.10	15.32	29.06.10	16.50	Tripped without any alarm
		04.07.10	21.31	05.07.10	09.50	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due SLDC message to maintain schedule of 80 MW.
		06.07.10	07.23	06.07.10	10.58	Tripped due to tripping of 160 MVA TX at IP End .
		08.07.10	14.58	08.07.10	22.10	
		09.07.10	23.42	10.07.10	01.50	Tripped on Ch-I&II
		10.07.10	02.38	10.07.10	03.17	
		10.07.10	03.25	10.07.10	03.50	
		10.07.10	03.55	10.07.10	04.42	
		07.10.10	18.32	10.07.10	18.48	
		12.07.10	21.12	13.07.10	23.47	Machine stopped as per SLDC message to maintain load of 80 MW
		18.07.10	07.01	18.07.10	14.14	Due to shut-down of 160 MVA Tx.
		20.07.10	15.31	21.07.10	07.50	To regulate the load of Radial feeders as 160 MVA Tx tripped on Buchholtz relay. After 19:17 hrs machine not taken on bar due to low demand
		22.07.10	21.47	24.07.10	08.25	Machine stopped as per SLDC message to maintain load of 80 MW
		24.07.10	17.04	24.07.10	17.32	Due to tripping of 800 KVA Tx
		25.07.10	01.30	29.07.10	17.50	Stopped due to high frequency and low demand.
		31.07.10	11.00	09.08.10	19.12	
		10.08.10	13.26	10.08.10	15.03	Machine tripped as AOP-1A tripped.
		11.08.10	18.25	12.08.10	14.15	Stopped due to high frequency and low demand.
		12.08.10	18.55	12.08.10	21.40	Tripped due to tripping of GT#1.
		13.08.10	12.30	15.08.10	03.40	Due to swapping of gas to PPCL.
		15.08.10	11.08	28.08.10	20.15	Stopped due to high frequency and low demand.
		03.09.10	09.02	30.09.10	21.28	Stopped due to high frequency and low demand.
		04.10.10	06.41	04.10.10	13.28	Low vacuum
		05.10.10	12.48	05.10.10	15.05	Drum level low
		11.10.10	21.12	12.10.10	01.20	Generator shift vibration very high
		26.10.10	00.02	29.11.10	13.05	Stopped due to high frequency and low demand.
		09.12.10	00.04	09.12.10	06.58	HRSG# 1 stopped along with GT due to high frequency and low demand
		11.12.10	00.05	11.12.10	06.50	
		14.12.10	00.04	14.12.10	06.45	
		15.12.10	00.04	15.12.10	06.40	
		16.12.10	00.05	16.12.10	07.35	HRSG-2 stopped along with GT-2 due to high freq .and low demand
		20.12.10	21.05	21.12.10	06.54	HRSG# 1 stopped along with GT-1 due to high freq. and low demand
		23.12.10	00.05	23.12.10	06.20	
		24.12.10	11.55	25.12.10	16.40	Due to tripping of 160 MVA Trf.-1
		30.12.10	02.35	30.12.10	07.10	HRSG# 1 stopped along with GT due to high freq. and low demand
		31.12.10	21.46	31.12.10	23.59	Electrical problem
		01.01.11	00.00	01.01.11	21.05	HRSG# 1 stopped along with GT-1 due to high freq. and low demand

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG 1	**30**	03.01.11	00.05	05.01.11	12.10	HRSG# 1 stopped along with GT-1 due to high freq. and low demand
		04.01.11	00.05	04.01.11	21.52	HRSG-2 stopped along with GT-2 due to high freq .and low demand
		08.01.11	14.45	08.01.11	16.45	Due to tripping of 160MVA Tx-I&II
		08.01.11	17.18	08.01.11	18.50	Unit tripped due to tripping of 160MVA Tx-I & II while energizing 66 KV Akshardham feeder
		08.01.11	18.50	08.01.11	20.15	
		08.01.11	21.05	08.01.11	23.23	
		17.01.11	07.00	17.01.11	07.45	Due to tripping of 160MVA Tx-I&II
		22.01.11	17.50	10.02.11	20.35	Unit tripped due to bursting the 'B' Phase bushing of its Unit Tx.
		14.02.11	16.15	18.02.11	20.00	Machine stopped as available on spot R-LNG
		18.02.11	20.00	28.02.11	23.59	Machine stopped to attend the Misc. problems
STG2	**30**	15.04.10	11.15	15.04.10	18.40	To attend leakage in CPH line
		01.05.10	06.05	01.05.10	20.30	Stopped as GT#3 stopped for cleaning of PHE
		11.05.10	14.46	11.05.10	20.34	Stopped due to leakage in SRV.
		17.05.10	19.05	17.05.10	20.55	Due to non availability of the BFPs.
		24.05.10	10.50	26.05.10	22.00	To attend condenser backwashing and other leakages
		28.05.10	05.22	28.05.10	08.25	Due to blast in 11 KV Breaker
		01.06.10	10.23	01.06.10	10.40	Low vacuum due to tripping of CEP
		06.06.10	09.42	07.06.10	12.55	To avoid overloading of 160 Mva Tx as one 100MVA Tx was under replacement with 160MVA Tx at IP Extension
		14.06.10	07.32	14.06.10	15.05	Tripped on CH-I & II
		14.07.10	21.31	12.07.10	09.00	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due SLDC message to maintain schedule of 80 MW.
		12.07.10	09.00	12.07.10	14.15	Due to outage of GT# 3 & 4
		12.07.10	14.15	12.07.10	18.15	HRSG# 4 due to outage of GT# 4
		12.07.10	18.15	14.07.10	12.50	Stopped due to high frequency and low demand.
		18.07.10	06.37	18.07.10	13.35	To attend 160 MVA Tx.
		20.07.10	15.22	23.07.10	14.55	To regulate the load of Radial feeders as 160 MVA Transformer tripped on Buchholtz relay. After 19:17 hrs machine not taken on bar due to low demand
		24.07.10	17.04	24.07.10	17.22	Due to tripping of 800 KVA Tx
		26.07.10	08.55	26.07.10	10.46	Low level vacuum
		06.08.10	15.42	08.08.10	16.50	Machine tripped as Both Boiler Tripp alarm appeared on BCD while the drum level of both HRSG were normal.
		17.08.10	12.42	17.08.10	13.10	Machine tripped as both boiler tripped
		19.08.10	15.22	19.08.10	15.50	Failure of DC supply
		05.09.10	7.25	05.09.10	14.45	Machine tripped due to tripping of GT#4
		06.09.10	13.54	06.09.10	16.15	Machine tripped on Y-Ph Bus Bar differential relay on BB-3 and BB-4.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG2	**30**	07.09.10	09.55	07.09.10	10.28	C&I Problem
		07.09.10	19.15	07.09.10	21.32	Machine tripped due to jerk.
		15.09.10	15.10	15.09.10	17.09	Machine tripped due to tripping of 160 MVA Tx
		22.09.10	21.11	28.09.10	14.55	Stopped due to high frequency.
		18.10.10	07.30	18.10.10	11.66	Machine tripped due to tripping of GT-4
		25.10.10	14.10	25.10.10	20.17	Stopped due to high frequency and low demand.
		28.10.10	16.41	29.11.10	23.45	
		03.12.10	00.01	03.12.10	05.00	HRSG-4 stopped along with GT-4 due to high freq and low demand.
		04.12.10	00.05	04.12.10	17.45	HRSG-3 stopped alongwith GT-3 due to high freq. and low demand.
		05.12.10	00.05	05.12.10	06.20	
		08.12.10	11.31	08.12.10	11.51	Generator RJB vibration very high
		12.12.10	00.02	12.12.10	06.55	HRSG-4 stopped along with GT-4 due to high freq and low demand.
		17.12.10	00.05	17.12.10	12.35	Machine stopped due to high frequency and low demand.
		19.12.10	15.35	20.12.10	06.55	HRSG-4 stopped along with GT-4 due to high freq and low demand.
		21.12.10	21.05	22.12.10	06.50	
		25.12.10	15.30	25.12.10	18.55	HRSG-3 stopped alongwith GT-3 due to high freq. and low demand.
		01.01.11	21.05	03.01.11	06.20	
		06.01.11	16.05	08.01.11	14.45	
		08.01.11	14.45	08.01.11	20.00	Machine tripped as heavy jerk observed in control room &160 MVA Txr no.2 tripped and after simultaneously 160 MVA Txr no.1 also tripped.
		08.01.11	20.00	08.01.11	21.05	Both the 160 MVA Tx tripped while energization of 66 KV Akshardham Feeder
		08.01.11	21.05	10.01.11	10.59	HRSG-4 stopped alongwith GT-4 due to high freq. and low demand.
		10.01.11	10.59	11.01.11	11.13	
		12.01.11	00.05	12.01.11	06.20	HRSG-3 stopped alongwith GT-3 due to high freq. and low demand.
		13.01.11	02.01	13.01.11	11.59	HRSG-3 stopped alongwith GT-3 due to high freq. and low demand.
		14.01.11	00.02	14.01.11	06.58	HRSG-3 stopped alongwith GT-3 due to high freq. and low demand.
		14.01.11	13.20	14.01.11	14.20	Machine tripped as all the parameters disappeared.
		14.01.11	14.20	15.01.11	13.05	Due to low demand and high freq.
		15.01.11	20.05	16.01.11	15.35	Due to low demand and high freq.
		17.01.11	07.00	17.01.11	08.22	Unit tripped due to tripping of 160MVA Tx-I & II
		03.02.11	13.02	03.02.11	16.10	Stopped to attend ACW line
		05.02.11	17.01	05.02.11	17.40	Due to tripping of both the boiler
		17.02.11	12.15	17.02.11	19.18	Tripped on Channel-I & II

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG3	30	02.04.10	03.25	07.04.10	05.28	Axial shift alarm appeared
		07.04.10	07.35	07.04.10	07.58	Lube oil pressure low
		09.07.10	21.20	09.04.10	22.32	Plunger coil trip alarm
		29.04.10	11.06	29.04.10	15.15	Plunger coil trip alarm
		05.05.10	09.05	05.05.10	17.32	Stopped to attend various leakages
		11.05.10	17.58	11.05.10	20.34	FSNL due to tripping of 160 MVA Txr. Buchholz and E/F
		18.05.10	07.05	18.05.10	17.58	Stopped to attend Various leakages
		18.05.10	18.34	18.05.10	18.55	Tripped on Control oil header pressure very low. Both the Boiler trip alarm also appeared.
		18.05.10	19.35	18.05.10	22.25	
		28.05.10	05.22	28.05.10	10.58	Due to blast in 11 KV Breaker
		29.05.10	17.42	30.05.10	13.37	Stopped due to high frequency.
		07.06.10	21.43	09.06.10	17.25	To avoid overloading of 160 MVA Tx as 100MVA Tx under replace ment with 160MVA Tx at IP Ext.
		25.06.10	18.53	28.06.10	23.59	Tripped due to tripping of GT#6
		04.07.10	21.31	14.07.10	23.10	Tripped due to tripping of 160 MVA TX at IP End.
		06.07.10	07.23	08.07.10	11.13	Tripped due to tripping of 160 MVA TX at IP End and after that machine not taken on bar due to low demand
		08.07.10	12.20	08.07.10	21.28	Due to oil leakages observe in ESV.
		10.07.10	18.48	10.07.10	19.50	Due to disappearance of Parameters
		18.07.10	06.37	18.07.10	13.55	Due to shut-down of 160 MVA Tx.
		20.07.10	15.07	20.07.10	20.53	Due to tripping of 160 MVA Tx
		21.07.10	09.31	22.07.10	21.15	Stopped due to high frequency and low demand.
		31.07.10	11.00	09.08.10	17.05	
		15.08.10	18.40	17.08.10	23.59	Stopped due to high frequency and low demand.
		20.08.10	17.10	20.08.10	19.25	Machine tripped on low vacuum.
		21.08.10	09.52	21.08.10	11.12	Machine tripped on low vacuum.
		27.08.10	08.25	01.09.10	22.25	Stopped due to high frequency and low demand.
		06.09.10	13.54	06.09.10	16.52	Machine tripped on Y-Ph Bus Bar differential relay on BB-3 and BB-4.
		07.09.10	19.19	07.09.10	20.53	Machine tripped due to jerk.
		07.09.10	22.00	07.09.10	23.15	Machine tripped on false alarm of Hot well level very high though the level was normal.
		08.09.10	12.41	09.09.10	00.46	
		15.09.10	15.10	15.09.10	17.15	Machine tripped due to tripping of 160 MVA Tx
		28.09.10	19.15	30.09.10	16.50	Gas restriction
		15.10.10	09.00	15.10.10	17.26	
		20.10.10	06.45	20.10.10	08.57	Due to tripping of LOP of Boiler Feed Pump
		19.11.10	22.10	19.11.10	23.10	Tripped along with tripping of GT-6
		24.11.10	00.42	24.11.10	01.28	Low vacuum
		07.12.10	00.05	07.12.10	07.05	HRSG-6 along with GT-6 due to low demand and high frequency
		08.12.10	00.02	08.12.10	06.55	HRSG-5 along with GT-5 due to low demand and high freq.
		09.12.10	22.46	10.12.10	06.48	HRSG-6 along with GT-6 due to low demand and high frequency
		13.12.10	00.02	13.12.10	06.30	HRSG-6 along with GT-6 due to low demand and high frequency

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG3	**30**	13.12.10	06.30	13.12.10	12.35	HRSG-6 could not be taken on load due to problem in GT-6
		14.12.10	02.37	14.12.10	04.17	Hot well level high
		18.12.10	00.05	18.12.10	07.20	HRSG-5 along with GT-5 due to low demand and high freq.
		19.12.10	00.02	19.12.10	07.10	HRSG-6 along with GT-6 due to low demand and high frequency
		22.12.10	15.40	22.12.10	16.03	Turbine RJB shaft vibration very high.
		23.12.10	17.15	24.12.10	06.50	HRSG-6 stopped alongwith GT-6 due to problem in GAIL pipe line
		24.12.10	11.55	24.12.10	13.38	Due to tripping of 160 MVA Trf-I
		25.12.10	16.25	25.12.10	18.28	HRSG-5 along with GT-5 due to low demand and high freq.
		25.12.10	18.28	27.12.10	16.05	
		27.12.10	23.35	28.12.10	11.25	Machine stopped to avoid overloading of 160 MVA Txr-2.
		31.12.10	00.04	31.12.10	14.30	HRSG-6 stopped alongwith GT-6 due to low demand and high freq.
		05.01.11	00.05	05.01.11	06.23	HRSG-5 stopped alongwith GT-5 due to low demand and high freq.
		05.01.11	19.35	06.01.11	10.50	Due to low demand and high freq.
		06.01.11	16.05	07.01.11	12.10	HRSG-5 stopped alongwith GT-5 due to low demand and high freq.
		07.01.11	18.03	08.01.11	11.20	HRSG-5 stopped alongwith GT-5 due to low demand and high freq.
		08.01.11	14.45	08.01.11	17.07	Machine tripped due to tripping of 160MVA Tx-I & II
		08.01.11	17.18	08.01.11	18.55	Unit tripped due to tripping of 160MVA Tx-I & ii while energization of 66 KV Akshardham Feeder
		08.01.11	21.05	09.01.11	00.10	
		09.01.11	00.10	09.01.11	16.50	
		11.01.11	00.05	11.01.11	06.05	HRSG-6 stopped alongwith GT-6 due to low demand and high freq.
		11.01.11	06.05	11.01.11	08.30	
		12.01.11	00.05	12.01.11	09.45	
		12.01.11	23.32	14.01.11	14.55	HRSG# 5 stopped along with GT-5 due to low demand
		17.01.11	07.00	17.01.11	08.42	Due to tripping of 160MVA Tx-I&II
		27.01.11	04.07	27.01.11	04.31	Due to disappearance of hot well parameters
		03.02.11	13.02	03.02.11	16.12	To attend ACW line
		15.02.11	14.05	15.02.11	15.12	Tripped on Channel-I & II
		16.02.11	13.05	16.02.11	19.58	To attend various leakages
		27.02.11	08.25	27.02.11	19.22	Due to low demand and high freq.

(C) PRAGATI STATION

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	**104**	01.05.10	18.16	01.05.10	20.10	Tripped alongwtih trippings of associated transmission lines.
		23.05.10	09.45	23.05.10	15.41	Due to shut-down of 220kV Bus-II at IP Extension.
		09.06.10	17.38	09.06.10	22.56	Internal fault.
		13.06.10	15.38	13.06.10	16.55	Tripped alongwtih trippings of associated transmission lines.
		04.07.10	21.26	04.07.10	22.20	
		10.07.10	15.47	10.07.10	16.56	
		13.07.10	18.29	13.07.10	19.10	
		27.07.10	18.50	28.07.10	04.18	Due to firing in underneath bearings.
		01.08.10	09.00	02.08.10	12.18	Due to low demand and high frequency
		15.08.10	00.00	16.08.10	09.12	
		03.09.10	16.59	03.09.10	18.12	Problem in generator transformer
		03.09.10	23.30	04.09.10	02.40	Problem in turbine
		16.09.10	15.12	16.09.10	16.16	Tripped alongwtih trippings of associated transmission lines.
		26.09.10	14.35	26.09.10	15.44	
		11.10.10	04.18	11.10.10	09.48	Boiler feed pump tripped.
		14.10.10	17.10	14.10.10	17.44	Boiler feed pump tripped.
		26.12.10	11.00	26.12.10	23.30	Tripped alongwtih trippings of associated transmission lines.
		27.12.10	22.12	27.12.10	22.49	Internal problem
		27.12.10	23.38	28.12.10	05.14	Internal problem
2	104	09.06.10	15.41	09.06.10	16.50	Mark-V fuse tripped.
		03.09.10	16.59	03.09.10	19.43	Problem in generator transformer
		05.09.10	11.30	06.09.10	09.20	Reserve shut-down
		16.09.10	15.12	16.09.10	15.59	Tripped alongwtih trippings of associated transmission lines.
		19.09.10	10.00	20.09.10	10.16	Generation back down due to low demand and high frequency
		19.10.10	21.08	20.10.10	01.55	Internal fault
		20.10.10	02.28	08.11.10	13.02	Fault in oil pressure pump
		14.12.10	14.41	14.12.10	15.20	Tripped alongwtih trippings of associated transmission lines.
		27.12.10	07.00	27.12.10	20.35	Due to problem in air filter
		27.12.10	23.38	28.12.10	05.14	Internal problem
		08.01.11	14.44	18.01.11	15.37	Bus -1 getting dead
		17.01.11	06.23	19.01.11	07.19	Tripped due to tripping of associated transmission lines
		22.01.11	16.00	23.01.11	18.42	Baroscapic test
		27.01.11	08.41	27.01.11	09.45	Internal fault (FSNL)
		07.02.11	20.47	07.02.11	23.25	Tripped due to tripping of associated transmission lines

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG	**122**	02.04.10	14.50	02.04.10	16.34	Tripped due to tripping of associated transmission lines
		01.05.10	18.16	01.05.10	19.50	
		12.05.10	15.53	12.05.10	17.00	
		14.05.10	15.32	14.05.10	16.27	Tripped due to tripping of associated transmission lines
		13.06.10	15.38	13.06.10	17.40	
		01.07.10	17.09	01.07.10	18.10	Internal fault
		04.07.10	21.26	04.07.10	23.00	Tripped due to tripping of associated transmission lines
		10.07.10	15.47	10.07.10	16.43	
		13.07.10	18.29	13.07.10	19.25	
		17.07.10	13.30	17.07.10	17.19	Exitor vibration problem
		19.07.10	15.05	19.07.10	19.13	
		03.09.10	16.59	03.9.10	19.05	Problem in generator transformer
		16.09.10	15.22	16.09.10	17.34	Tripped due to tripping of associated transmission lines
		28.09.10	14.35	26.09.10	15.35	
		11.10.10	04.18	11.10.10	06.28	Boiler feed pump tripped
		14.10.10	17.10	14.10.10	17.58	Boiler feed pump tripped
		29.10.10	14.45	29.10.10	15.34	Water level low in drum
		29.11.10	07.12	29.11.10	08.28	Internal fault
		23.12.10	10.05	23.12.10	11.12	Tripped due to tripping of associated transmission lines
		08.01.11	14.44	08.01.11	15.37	Bus-I getting dead
		08.01.11	17.59	08.01.11	18.58	CW pump tripped
		11.01.11	09.59	11.01.11	10.39	Internal fault (CW pump tripped)
		17.01.11	09.59	17.01.11	10.44	Internal fault (CW pump tripped)
		27.01.11	05.59	27.01.11	07.00	Internal fault
		07.02.11	20.47	07.02.11	23.25	Tripped due to tripping of associated transmission lines

(D) BADARPUR THERMAL POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	95	05.04.10	22.04	06.04.10	21.40	Maintenance work
		23.04.10	16.09	23.04.10	21.50	Electrical fault
		01.05.10	19.09	02.05.10	20.04	Generation back down due to low demand and high frequency.
		11.05.10	21.37	12.05.10	12.53	Electrical problem
		25.05.10	03.50	11.06.10	14.30	Excel shaft high
		13.07.10	12.02			Flame failure
		27.07.10	12.27	28.07.10	19.40	Generation back down due to low demand and high frequency.
		21.08.10	14.24	21.04.10	17.24	
		23.09.10	06.20	23.09.10	08.56	Boiler problem
		26.09.10	09.23	26.09.10	10.39	Boiler problem
		23.11.10	17.42	04.12.10	19.45	Generation back down due to low demand and high frequency.
2	95	07.05.10	19.45	10.05.10	08.16	Generation back down due to low demand and high frequency.
		20.05.10	11.35	22.05.10	22.40	Boiler Tube Leakage
		05.06.10	14.31	07.06.10	07.55	Generation back down due to low demand and high frequency.
		09.07.10	11.40	09.07.10	13.00	Electrical fault
		20.08.10	18.22	28.08.10	17.39	Generation back down due to low demand and high frequency.
		02.09.10	18.47	02.09.10	20.04	Due to tripping of associated transmission lines
		09.09.10	00.19	15.09.10	02.52	Reserve shut-down
		06.10.10	04.18	08.10.10	07.10	Electrical problem
		12.11.10	18.20	12.11.10	20.58	Tripped on jerk due to tripping of 220kV BTPS – Alwar Ckt.
		23.11.10	20.39	05.12.10	07.45	Generation back down due to low demand and high frequency
		29.01.11	23.00	31.01.11	00.44	Boiler problem
		31.01.11	11.55	31.01.11	18.13	Bus problem
3	95	03.04.10	00.18	03.04.10	05.20	Protection failure
		09.04.10	12.50	09.04.10	16.17	Vacuum low
		30.04.10	02.04	30.04.10	24.00	Annual maintenance
		29.06.10	22.56	03.07.10	19.02	Boiler Tube Leakage
		31.07.10	17.30	31.07.10	20.46	FD fan tripped
		25.08.10	19.34	28.08.10	11.15	Generation back down due to low demand and high frequency.
		26.09.10	02.23	29.09.10	03.05	
		12.11.10	18.20	12.11.10	21.22	Tripped on jerk due to tripping of 220kV BTPS – Alwar Ckt
		11.01.11	07.26	16.01.11	13.04	Boiler tube leakage
		26.01.11	08.54	27.01.11	08.55	Boiler tube leakage
		08.02.11	13.20	08.02.11	14.57	Generator problem
4	210	23.04.10	07.02	24.04.10	19.55	Water valve leakage
		04.05.10	12.29	05.05.10	13.39	Boiler Tube Leakage
		12.05.10	23.25	13.05.10	18.32	Boiler Tube Leakage
		17.05.10	00.28	17.05.10	17.50	Boiler Tube Leakage
		19.05.10	12.43	20.05.10	03.02	Boiler Tube Leakage

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
4	210	21.05.10	08.00	22.05.10	05.56	Boiler Tube Leakage
		22.05.10	06.57	22.05.10	07.49	Electrical Problem
		27.05.10	20.33	31.05.10	12.14	Boiler Tube Leakage
		07.06.10	16.20	14.6.10	12.52	Generation back down due to heavy under drawal and high frequency
		19.06.10	19.43	20.06.10	19.10	Boiler Tube Leakage
		04.07.10	12.29	26.08.10	12.19	Planned shut-down for maintenance
		30.08.10	12.15	01.09.10	08.19	Boiler Tube Leakage
		10.09.10	18.03	10.09.10	21.18	Cooling system problem
		15.09.10	23.46	22.09.10	03.00	Generation back down due to high frequency and low demand.
		29.09.10	04.30	01.10.10	20.09	
		06.10.10	09.44	07.10.10	10.50	Boiler Tube Leakage
		07.10.10	19.50	08.10.10	12.37	Boiler Tube Leakage
		08.10.10	14.08	19.10.10	16.12	Boiler Tube Leakage
		20.10.10	22.10	21.10.10	15.50	Internal Fault
		27.10.10	23.50	23.11.10	15.40	Generation back down due to high frequency and low demand.
		01.12.10	21.35	02.12.10	15.05	Boiler Tube Leakage
		05.12.10	13.50	09.12.10	07.04	Generation back down due to high frequency and low demand.
		16.12.10	13.47	17.12.10	12.32	Boiler Tube Leakage
		26.12.10	11.43	27.12.10	06.15	Boiler Tube Leakage
		28.12.10	07.09	01.01.11	05.08	Boiler Tube Leakage
		02.01.11	04.30	03.01.11	11.04	Boiler Tube Leakage
		08.01.11	06.40	09.01.11	02.45	Boiler Tube Leakage
		12.01.11	09.22	12.01.11	21.55	Boiler Tube Leakage
		19.01.11	06.31	20.01.11	06.32	Boiler Tube Leakage
		28.01.11	19.46	29.01.11	11.10	Boiler Tube Leakage
		30.01.11	09.22	31.01.11	24.00	Boiler Tube Leakage
5	210	02.04.10	16.29	03.04.10	20.22	Boiler tube leakage
		17.04.10	22.30	18.04.10	12.20	Boiler tube leakage
		09.05.10	17.40	09.05.10	19.48	Tripped on jerk due to tripping of 220kV Ballabhgarh – BTPS Ckts and 220kV BTPS – Alwar Ckt.
		13.05.10	17.58	13.05.10	20.11	Furnace problem
		14.07.10	04.50	14.07.10	07.35	Electrical problem
		05.09.10	12.42	08.09.10	20.05	Reserve shut-down
		15.09.10	04.41	15.09.10	23.15	Stopped due to high frequency and low demand.
		23.09.10	17.06	26.09.10	01.14	
		03.10.10	10.16	01.11.10	15.30	Boiler Tube Leakage
		01.11.10	15.48	01.11.10	16.35	Boiler Tube Leakage
		04.11.10	18.20	05.11.10	19.27	Boiler Tube Leakage
		12.11.10	12.18	13.11.10	14.57	Boiler Tube Leakage
		04.12.10	12.00	05.12.10	11.50	Furnace problem
		15.12.10	09.08	16.12.10	06.55	Furnace pressure very high
		17.12.10	12.28	18.12.10	23.22	Excitation problem
		25.12.10	09.02	26.12.10	10.46	Boiler Tube Leakage
		11.01.11	09.16	12.01.11	16.10	Boiler Tube Leakage
		25.01.11	12.10	26.01.11	07.55	Boiler Tube Leakage
		01.02.11	13.57	02.01.11	13.45	Boiler Tube Leakage

4 ALLOCATION OF POWER TO DELHI

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

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

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocated Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand	1000	150	100	87	0	0	87
Rihand Stage -II	1000	150	126	109	0	0	109
ANTA GPS	419	63	44	41	0	0	41
Auriya GPS	663.36	99	72	67	0	0	67
Dadri GPS	829.78	129	91	85	0	0	85
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	0	882	766	0	0	766
Unchahaar-I TPS	420	20	24	21	0	0	21
Unchahaar-II TPS	420	63	47	41	0	0	41
Unchahaar-III TPS	210	31	29	25	0	0	25
TOTAL	**8782**	**1005**	**2321**	**2029**	**0**	**0**	**2029**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	0	0	38
URI HEP	480	0	53	50	0	0	50
Sewa HEP	120	18	16	15	0	0	15
Dhauli Ganga HEP	280	42	37	35	0	0	35
Dulhasti HEP	390	58	50	48	0	0	48
TOTAL	**3074**	**172**	**351**	**333**	**0**	**0**	**333**
NPC							
Narora APS	440	64	47	41	0	0	41
RAPP(B)	440	66	0	0	0	0	0
RAPP (C)	440	64	56	49	0	0	49
TOTAL	**1320**	**194**	**103**	**89**	**0**	**0**	**89**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	0	0	123
THDC							
Tehri Hydro	1000	99	103	89	0	0	89
Total	**15676**	**1619**	**3020**	**2665**	**0**	**0**	**2665**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Grand Total	**21886**	**1772**	**3309**	**2907**	**0**	**0**	**2907**

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

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	19	17	147
Rihand	1000	150	100	87	10	8	95
Rihand Stage -II	1000	150	126	109	10	8	118
ANTA GPS	419	63	44	41	4	4	45
Auriya GPS	663.36	99	72	67	4	4	71
Dadri GPS	829.78	129	91	85	4	3	88
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	0	882	766	0	0	766
Unchahaar-I TPS	420	20	24	21	1	1	22
Unchahaar-II TPS	420	63	47	41	4	4	44
Unchahaar-III TPS	210	31	29	25	2	2	27
TOTAL	**8782**	**1005**	**2321**	**2029**	**58**	**51**	**2080**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	3	3	41
URI HEP	480	0	53	50	0	0	50
Sewa HEP	120	18	16	15	1	1	16
Dhauli Ganga HEP	280	42	37	35	3	3	38
Dulhasti HEP	390	58	50	48	4	4	51
TOTAL	**3074**	**172**	**351**	**333**	**11**	**10**	**344**
NPC							
Narora APS	440	64	47	41	4	4	44
RAPP(B) Unit-3 APS	220	33	0	0	0	0	0
RAPP(B) Unit-4 APS	220	33	0	0	0	0	0
RAPP (C)	440	64	56	49	4	4	52
TOTAL	**1320**	**194**	**103**	**89**	**8**	**7**	**96**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	9	9	132
THDC							
Tehri Hydro	1000	99	103	89	6	6	95
Total	**15676**	**1619**	**3020**	**2665**	**93**	**83**	**2748**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Grand Total	**21886**	**1772**	**3309**	**2907**	**93**	**83**	**2990**

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

All figures in MW

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
Singrauli STPS	2000	300	150	130	19	17	147
Rihand	1000	150	100	87	10	8	95
Rihand Stage -II	1000	150	126	109	10	8	118
ANTA GPS	419	63	44	41	4	4	45
Auriya GPS	663.36	99	72	67	4	4	71
Dadri GPS	829.78	129	91	85	4	3	88
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	0	882	766	0	0	766
Unchahaar-I TPS	420	20	24	21	1	1	22
Unchahaar-II TPS	420	63	47	41	4	4	44
Unchahaar-III TPS	210	31	29	25	2	2	27
TOTAL	**8782**	**1005**	**2321**	**2029**	**58**	**51**	**2080**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	3	3	41
URI HEP	480	0	53	50	0	0	50
Sewa HEP	120	18	16	15	1	1	16
Dhauli Ganga HEP	280	42	37	35	3	3	38
Dulhasti HEP	390	58	50	48	4	4	51
TOTAL	**3074**	**172**	**351**	**333**	**11**	**10**	**344**
NPC							
Narora APS	440	64	47	41	4	4	44
RAPP(B) Unit-3 APS	220	33	0	0	7	6	6
RAPP(B) Unit-4 APS	220	33	0	0	7	6	6
RAPP (C)	440	64	56	49	4	4	52
TOTAL	**1320**	**194**	**103**	**89**	**22**	**19**	**109**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	9	9	132
THDC							
Tehri Hydro	1000	99	103	89	6	6	95
Total	**15676**	**1619**	**3020**	**2665**	**107**	**96**	**2760**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Grand Total	**21886**	**1772**	**3309**	**2907**	**107**	**96**	**3002**

5 ALLOCATION OF POWER TO DISCOMS

ALLOCATION OF POWER TO VARIOUS LISCENCEES AS PER ORDER OF DERC AND DECISION OF GNCTD FOR ALLOCATION OF CENTRAL SECTOR STATIONS (DADRI THERMAL & BTPS) AND STATE SECTOR GENERATING STATIONS w.e.f. 01.01.2010 TO 31.03.2010. ALLOCATION OF 0.9MW HAS BEEN ALLOCATED TO UPCOMING JHAJJHAR PLAT FROM IP STATION. ALLOCATION OF 1 MW POWER FOR AUXILIARY NEEDS OF IP STATION FROM RPH WAS MADE W.E.F. 01.11.2009.

(Allocation In %)

(A) 10.00hrs. to 17.00hrs.

SOURCES	LICENSEES					
	NDMC	MES	NDPL	BRPL	BYPL	TOTAL
1. Central Sector without Dadri (Th)	0.00	0.00	29.18	43.58	27.24	100.00
2. Dadri (Th)	14.98	0.00	24.18	36.87	23.97	100.00
3. BTPS	15.94	7.09	21.88	33.37	21.72	100.00
4. IP	0.00	0.00	0.00	0.00	0.00	100.00
5. RPH	0.86	0.00	28.35	43.04	27.75	100.00
6. GT	0.93	0.00	28.28	42.99	27.80	100.00
7. Pragati	26.69	0.00	20.77	31.76	20.78	100.00
8. DVC	0.00	0.00	29.18	43.58	27.24	100.00

(B) 00.00hrs. to 10.00hrs. and 17.00hrs. to 24.00hrs.

SOURCES	LICENSEES					
	NDMC	MES	NDPL	BRPL	BYPL	TOTAL
1. Central Sector without Dadri (Th)	0.00	0.00	29.18	43.58	27.24	100.00
2. Dadri (Th)	14.05	0.00	24.18	36.87	24.90	100.00
3. BTPS	15.07	7.09	21.88	33.37	22.59	100.00
4. IP	0.00	0.00	0.00	0.00	0.00	100.00
5. RPH	0.00	0.00	28.35	43.04	28.61	100.00
6. GT	0.00	0.00	28.28	42.99	29.73	100.00
7. Pragati	25.76	0.00	20.77	31.76	21.71	100.00
8. DVC	0.00	0.00	29.18	43.58	27.24	100.00

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

All figures in MW

Date	Time of peak demand	Generation within Delhi						Import from the Grid	Schedule from the Grid	OD(-) / UD(+)	Demand met	Shedding	Un-Restricted Demand
		RPH	GT	PPCL	BTPS	Rithala	Total						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)= (3) to (7)	(9)	(10)	(11)= (10) -(9)	(12)= (10)+ (11)	(13)	(14)= (12)+ (13)
1	08:36:41	28	115	162	323	438	1066	2212	2140	-72	**3278**	0	3278
2	10:08:14	27	111	120	318	243	819	2413	2246	-167	**3232**	0	3232
3	08:23:54	31	113	162	322	589	1217	1996	2298	302	**3213**	0	3213
4	10:01:26	17	113	160	314	620	1224	2082	2157	75	**3306**	0	3306
5	09:30:00	29	56	160	309	616	1170	1815	2121	306	**2985**	0	2985
6	11:09:55	29	56	155	301	614	1155	1924	1950	26	**3079**	0	3079
7	11:31:21	29	61	160	299	521	1070	1948	2058	110	**3018**	0	3018
8	19:03:16	29	113	179	309	603	1233	1733	1778	45	**2966**	0	2966
9	10:00:00	29	113	161	316	625	1244	1850	1805	-45	**3094**	0	3094
10	09:14:36	29	113	160	318	617	1237	1857	2110	253	**3094**	0	3094
11	09:50:42	29	113	154	312	624	1232	1938	2039	101	**3170**	0.3	3170
12	10:00:31	29	113	155	312	629	1238	1858	2087	229	**3096**	0	3096
13	09:58:05	29	112	153	299	579	1172	1803	1928	125	**2975**	11	2986
14	10:00:00	29	113	155	296	515	1108	1863	1958	95	**2971**	0	2971
15	19:33:34	30	113	159	318	586	1206	1810	2156	346	**3016**	0	3016
16	10:02:53	30	113	160	273	550	1126	1965	2039	74	**3091**	0	3091
17	10:03:41	-1	113	161	300	506	1079	2022	2054	32	**3101**	0	3101
18	09:48:17	-1	116	160	300	568	1143	2060	2087	27	**3203**	0	3203
19	09:55:51	-1	117	160	319	600	1195	1859	1992	133	**3054**	0	3054
20	09:58:44	-1	55	158	311	602	1125	1866	1898	32	**2991**	2	2993
21	19:14:56	30	55	158	316	589	1148	1849	1979	130	**2997**	0	2997
22	10:00:00	30	56	158	321	634	1199	1859	2171	312	**3058**	0	3058
23	12:06:59	31	56	159	323	623	1192	1860	1661	-199	**3052**	12	3064
24	19:12:44	31	56	159	323	581	1150	1897	2138	241	**3047**	0	3047
25	10:04:36	29	50	160	314	638	1191	1877	1909	32	**3068**	0	3068
26	10:00:46	29	60	160	321	528	1098	1877	1854	-23	**2975**	0	2975
27	09:59:57	28	60	81	286	528	983	1799	1837	38	**2782**	0	2782
28	08:26:30	32	59	159	329	508	1087	1871	2082	211	**2958**	0	2958

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

All figures in MW

Date	Time of peak demand	Generation within Delhi						Import from the Grid	Schedule from the Grid	OD(-) / UD(+)	Demand met	Shedding	Un-Restricted Demand
		IP	RPH	GT	PPCL	BTPS	Total						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)=(3) to (7)	(9)	(10)	(11)= (10) -(9)	(12)=(10) + (11)	(13)	(14)= (12)+ (13)
1	08:36:41	28	115	162	323	438	1066	2212	2140	-72	**3278**	0	3278
2	10:08:14	27	111	120	318	243	819	2413	2246	-167	**3232**	0	3232
3	08:23:54	31	113	162	322	589	1217	1996	2298	302	**3213**	0	3213
4	10:01:26	17	113	160	314	620	1224	2082	2157	75	**3306**	0	3306
5	09:30:00	29	56	160	309	616	1170	1815	2121	306	**2985**	0	2985
6	11:09:55	29	56	155	301	614	1155	1924	1950	26	**3079**	0	3079
7	11:31:21	29	61	160	299	521	1070	1948	2058	110	**3018**	0	3018
8	19:03:16	29	113	179	309	603	1233	1733	1778	45	**2966**	0	2966
9	10:00:00	29	113	161	316	625	1244	1850	1805	-45	**3094**	0	3094
10	09:14:36	29	113	160	318	617	1237	1857	2110	253	**3094**	0	3094
11	09:50:42	29	113	154	312	624	1232	1938	2039	101	**3170**	0.3	3170
12	10:00:31	29	113	155	312	629	1238	1858	2087	229	**3096**	0	3096
13	09:58:05	29	112	153	299	579	1172	1803	1928	125	**2975**	11	2986
14	10:00:00	29	113	155	296	515	1108	1863	1958	95	**2971**	0	2971
15	19:33:34	30	113	159	318	586	1206	1810	2156	346	**3016**	0	3016
16	10:02:53	30	113	160	273	550	1126	1965	2039	74	**3091**	0	3091
17	10:03:41	-1	113	161	300	506	1079	2022	2054	32	**3101**	0	3101
18	09:48:17	-1	116	160	300	568	1143	2060	2087	27	**3203**	0	3203
19	09:55:51	-1	117	160	319	600	1195	1859	1992	133	**3054**	0	3054
20	09:58:44	-1	55	158	311	602	1125	1866	1898	32	**2991**	2	2993
21	19:14:56	30	55	158	316	589	1148	1849	1979	130	**2997**	0	2997
22	10:00:00	30	56	158	321	634	1199	1859	2171	312	**3058**	0	3058
23	12:06:59	31	56	159	323	623	1192	1860	1661	-199	**3052**	12	3064
24	19:12:44	31	56	159	323	581	1150	1897	2138	241	**3047**	0	3047
25	10:04:36	29	50	160	314	638	1191	1877	1909	32	**3068**	0	3068
26	10:00:46	29	60	160	321	528	1098	1877	1854	-23	**2975**	0	2975
27	09:59:57	28	60	81	286	528	983	1799	1837	38	**2782**	0	2782
28	08:26:30	32	59	159	329	508	1087	1871	2082	211	**2958**	0	2958

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

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

A (i) RPH	67.210
JHAJJAR SHARE	0.616
NET RPH	66.594
(ii) GT+STG	104.988
(iii) PRAGATI	204.543
(iv) RITHALA	12.461
TOTAL	388.586
B) AVAILABILITY FROM BTPS	371.715
C) AUXILIARY CONSUMPTION OF GENERATING STNs. EXCLUDING BTPS	16.241
D) NET GENERATION AVAILABLE WITHIN DELHI(A+B-C)	**744.060**

B) SOURCE WISE SCHEDULED DRAWL FROM THE NORTHERN GRID

NAME OF THE STATION	AVAILABILITY AT POWER PLANT	AVAILABILITY AT DELHI PERIPHERY	ALLOCATION MADE BY NRLDC AT POWER PLANT	ALLOCATION MADE BY NRLDC AT DELHI PERIPHERY
B/SUIL	3.982	3.813	3.982	3.813
SALAL	18.002	17.238	18.002	17.238
TANKAPUR	1.342	1.286	1.342	1.286
CHAMERA	6.992	6.695	6.992	6.695
CHAMERA -II	6.354	6.086	6.354	6.086
DHAULIGANGA	3.664	3.511	3.664	3.511
SEWA -2	3.671	3.515	3.671	3.515
URI	23.694	22.699	23.694	22.699
ANTA (GAS)	19.811	18.983	10.560	10.121
ANTA (RLNG)	7.906	7.575	0.091	0.087
ANTA (LIQUID)	3.010	2.885	0.018	0.017
DADRI (GAS)	35.483	33.998	18.140	17.385
DADRI (RLNG)	17.130	16.413	0.194	0.186
DADRI (LIQUID)	5.881	5.639	0.000	0.000
AURAIYA (GAS)	28.742	27.539	14.834	14.218
AURAIYA (RLNG)	15.145	14.512	0.234	0.224
AURAIYA (LIQUID)	4.107	3.938	0.000	0.000
SINGRAULI	95.116	91.139	84.794	81.252
RIHAND -I	64.848	62.138	58.423	55.984
RIHAND -II	80.542	77.183	72.539	69.515
UNCHAHAR-I	15.156	14.521	12.820	12.284
UNCHAHAR-II	30.150	28.890	25.808	24.730
UNCHAHAR-III	18.934	18.142	16.091	15.419
DADRI (TH)	470.198	450.548	427.162	409.325
DADRI (TH) STAGE-II	580.244	555.997	536.866	514.442
NAPP	20.352	19.502	20.352	19.502
RAPP 'B'	1.479	1.417	1.479	1.417
RAPP 'C'	34.327	32.889	34.327	32.889
NATHPA JHAKRI	20.022	19.185	20.022	19.185
DULASTI	5.296	5.082	5.296	5.082

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
TEHRI	25.656	24.582	25.656	24.582
KHELGAON	19.702	18.882	18.269	17.508
KHELGAON-II	75.985	72.827	66.890	64.111
FARAKA	13.111	12.563	9.016	8.641
TALA	1.135	1.088	1.135	1.088
TALCHER	0.000	0.000	0.000	0.000
DVC	32.445	31.584	30.401	29.120
MAHARASHTRA	0.000	0.000	0.000	0.000
PUNJAB	0.000	0.000	0.000	0.000
TO WEST BENGAL	-23.166	-23.801	-23.801	-24.840
TO KERALA	-0.093	-0.099	-0.099	-0.103
TO HIMACHAL PRADESH	-1.456	-1.517	-1.456	-1.517
TO UTTAR PRADESH	-22.500	-23.492	-22.500	-23.492
TO MADHYA PRADESH	-80.854	-83.725	-83.725	-87.377
TO MEGHALAYA	-6.173	-6.343	-6.343	-6.619
TO UTTRANCHAL	-118.007	-123.164	-118.007	-123.164
TO RAJASTHAN	-65.027	-67.875	-65.027	-67.875
POWER EXCHANGE(IEX)	0.793	0.761	0.793	0.761
TO POWER EXCHANGE (IEX)	-191.519	-199.874	-191.519	-199.874
POWRER EXCHANGE(PX)	0.000	0.000	0.000	0.000
TO POWER EXCHANGE (PX)	-14.632	-15.272	-14.632	-15.272
TOTAL	**1286.976**	**1190.087**	**1052.799**	**963.787**

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	1492.403	1430.040	1278.572	1225.189
NTPC - ER	108.798	104.272	94.175	90.260
NHPC	72.996	69.926	72.996	69.926
NPC	56.157	53.807	56.157	53.807
NATHPA JHAKRI	20.022	19.185	20.022	19.185
TEHRI	25.656	24.582	25.656	24.582
TALA	1.135	1.088	1.135	1.088
TALCHAR	0.000	0.000	0.000	0.000
DVC	32.445	31.584	30.401	29.120
MAHARASHTRA	0.000	0.000	0.000	0.000
PUNJAB	0.000	0.000	0.000	0.000
POWER EXCHANGE(IEX)	0.793	0.761	0.793	0.761
POWER EXCHANGE(PX)	0.000	0.000	0.000	0.000
TOTAL	**1810.405**	**1735.249**	**1579.907**	**1513.916**

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 WEST BENGAL	-23.166	-23.801	-23.801	-24.840
TO KERALA	-0.093	-0.099	-0.099	-0.103
TO HIMACHAL PRADESH	-1.456	-1.517	-1.456	-1.517
TO UTTAR PRADESH	-22.500	-23.492	-22.500	-23.492
TO MADHYA PRADESH	-80.854	-83.725	-83.725	-87.377
TO MEGHALAYA	-6.173	-6.343	-6.343	-6.619
TO UTTRANCHAL	-118.007	-123.164	-118.007	-123.164
TO RAJASTHAN	-65.027	-67.875	-65.027	-67.875
TO POWER EXCHANGE (IEX)	-191.519	-199.874	-191.519	-199.874
TO POWER EXCHANGE (PX)	-14.632	-15.272	-14.632	-15.272
TOTAL	**-523.428**	**-545.161**	**-527.109**	**-550.133**
TOTAL SCHEDULED DRAWAL'FROM THE GRID	**1286.977**	**1190.087**	**1052.799**	**963.787**
TOTAL CONSUMPTION INCLUDING AUX. OF GENERATING STNs. EXCLUDING BTPS				1540.419
NET CONSUMPTION				1524.178
AVAILABILITY WITHIN DELHI				744.060
ACTUAL DRAWAL FROM THE GRID				780.118
OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID ON THE BASIS OF SCHEDULED ALLOCATION MADE BY NRLDC TO DELHI AT PERIPHERY				(-)183.669
LOAD SHEDDING				**1.149**
UNRESTRICTED DEMAND (GROSS)				**1541.568**
UNRESTRICTED DEMAND (NET)				**1525.327**
MAX. NET CONSUMPTION				57.931Mus. ON 18.02.2011
MAX. LOAD SHEDDING				82MW ON 09.02.2011 AT 07.00HRS.
PEAK LOAD	Peak Demand during the month			SHEDDING AT PEAK TIME
DAY PEAK	3306MW AT 10:01:26HRS ON 04.02.2011			NIL
EVENING PEAK	3149MW AT 19:00:00HRS ON 03.02.2011			NIL
P.L.F. OF GENCO AND PRAGATI STNs.	RPH GT PRAGATI RITHALA			74.09% 57.86% 92.24% 25.06%

9 SHEDDING DETAILS DURING THE MONTH OF FEBRUARY 2011.

ALL FIGURES IN MUs

DATE	No. of Under Freq. Relay Operated	Shedding due to under frequency relay operation in MUs					Shedding due to Grid Restrictions (Over drawal / low freq.)			
		BSES		NDPL	NDMC	**TOTAL**	BSES		NDPL	NDMC
		BYPL	BRPL				BYPL	BRPL		
1	**2**	**3**	**4**	**5**	**6**	**7=3 to 6**	8	9	10	11
1-Feb-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.018	0.000
2-Feb-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.022	0.000
3-Feb-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
4-Feb-10	2	0.000	0.003	0.001	0.000	**0.004**	0.000	0.000	0.025	0.000
5-Feb-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
6-Feb-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
7-Feb-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
8-Feb-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
9-Feb-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.158	0.000	0.000
10-Feb-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
11-Feb-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
12-Feb-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
13-Feb-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
14-Feb-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
15-Feb-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
16-Feb-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
17-Feb-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.017	0.000
18-Feb-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
19-Feb-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
20-Feb-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
21-Feb-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
22-Feb-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
23-Feb-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
24-Feb-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
25-Feb-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
26-Feb-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
27-Feb-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
28-Feb-10	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
Total	**2**	**0.000**	**0.003**	**0.001**	**0.000**	**0.004**	**0.000**	**0.158**	**0.082**	**0.000**

ALL FIGURES IN MUs

Date	Shedding due to Transmission/Grid Constraints in Central Sector Stations / TTC / ATC VOILATION				TOTAL	TOTAL SHEDDING DUE TO GRID RESTRICTIONS	Due to T&D Constraints				
							DTL				
	BSES		NDPL	NDMC			BSES		NDPL	NDMC	MES
	BYPL	BRPL					BYPL	BRPL			
1	12	13	14	15	**16=8to15**	**17=16+7**	18	19	20	21	22
1-Feb-10	0.000	0.000	0.000	0.000	0.018	0.018	0.000	0.000	0.001	0.000	0.000
2-Feb-10	0.000	0.000	0.000	0.000	0.022	0.022	0.000	0.000	0.000	0.000	0.000
3-Feb-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4-Feb-10	0.000	0.000	0.000	0.000	0.025	0.029	0.000	0.000	0.000	0.000	0.000
5-Feb-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6-Feb-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7-Feb-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8-Feb-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9-Feb-10	0.000	0.000	0.000	0.000	0.158	0.158	0.000	0.077	0.000	0.000	0.000
10-Feb-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.000	0.000
11-Feb-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-Feb-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13-Feb-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.058	0.000	0.000	0.000
14-Feb-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15-Feb-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16-Feb-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.018	0.000	0.000	0.000
17-Feb-10	0.000	0.000	0.000	0.000	0.017	0.017	0.000	0.000	0.000	0.000	0.000
18-Feb-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.022	0.000	0.000	0.000
19-Feb-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20-Feb-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21-Feb-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22-Feb-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000
23-Feb-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.019	0.000	0.000	0.000
24-Feb-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000
25-Feb-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26-Feb-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27-Feb-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28-Feb-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total	**0.000**	**0.000**	**0.000**	**0.000**	0.240	0.244	**0.000**	**0.196**	**0.016**	**0.000**	**0.000**

ALL FIGURES IN MUs

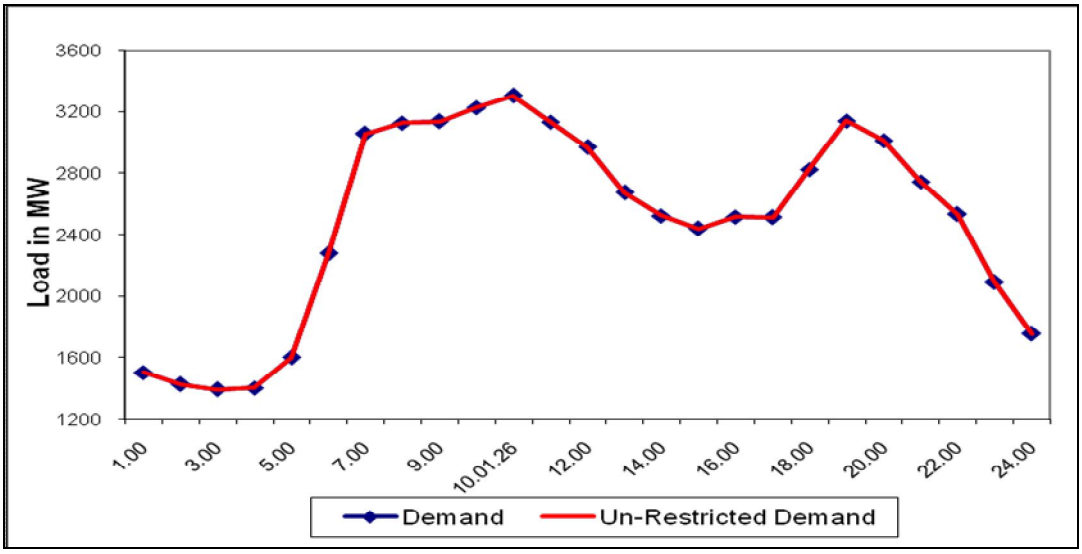
DATE	DUE TO T&D CONTRAINTS				OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.	THEFT PRONE SHEDDING			TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE	GRAND TOTAL
	DISCOMS									
	BSES		NDPL	NDMC		BSES		NDPL		
	BYPL	BRPL				BYPL	BRPL			
1	23	24	25		26	27	28	29	30=18 to29	31=30+17
1-Feb-10	0.000	0.004	0.009	0.001	0.000	0.000	0.000	0.000	0.015	0.033
2-Feb-10	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.006	0.028
3-Feb-10	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.008	0.008
4-Feb-10	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.030
5-Feb-10	0.000	0.015	0.038	0.000	0.000	0.000	0.000	0.000	0.053	0.053
6-Feb-10	0.017	0.000	0.005	0.000	0.002	0.000	0.000	0.000	0.024	0.024
7-Feb-10	0.004	0.015	0.030	0.000	0.000	0.000	0.000	0.000	0.049	0.049
8-Feb-10	0.000	0.004	0.025	0.000	0.000	0.000	0.000	0.000	0.029	0.029
9-Feb-10	0.000	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.091	0.249
10-Feb-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.012
11-Feb-10	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.003
12-Feb-10	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.091	0.091
13-Feb-10	0.012	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.082	0.082
14-Feb-10	0.000	0.032	0.035	0.000	0.000	0.000	0.000	0.000	0.067	0.067
15-Feb-10	0.000	0.000	0.013	0.000	0.000	0.000	0.000	0.000	0.013	0.013
16-Feb-10	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.022	0.022
17-Feb-10	0.000	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.022	0.039
18-Feb-10	0.006	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.033	0.033
19-Feb-10	0.000	0.000	0.054	0.000	0.000	0.000	0.000	0.000	0.054	0.054
20-Feb-10	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010
21-Feb-10	0.000	0.007	0.012	0.000	0.000	0.000	0.000	0.000	0.019	0.019
22-Feb-10	0.004	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.011
23-Feb-10	0.018	0.000	0.038	0.000	0.000	0.000	0.000	0.000	0.075	0.075
24-Feb-10	0.049	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.054	0.054
25-Feb-10	0.004	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.006	0.006
26-Feb-10	0.003	0.004	0.014	0.000	0.000	0.000	0.000	0.000	0.021	0.021
27-Feb-10	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.023	0.023
28-Feb-10	0.000	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.011	0.011
Total	0.150	0.144	0.396	0.001	0.002	0.000	0.000	0.000	0.905	1.149

DATE	(NET CONS.)	MAXI. DEMAND MET DURING THE DAY	TIME OF OCCUR-RENCE OF MAX DEMAND	SHEDDING AT THIS TIME	UN-REST-RICTED DEMAND	MAXIMUM UN-REST-RICTED DEMAND DURING THE DAY	TIME OF MAX. UN-REST. DEMAND	DEMAND AT THAT TIME	SHEDDING AT THAT TIME
	In Mus.	IN MW	IN HRS.	IN MW	IN MW	IN MW	HRS.	IN MW	IN MW
1	32	33	34	35	36=33+35	37=39+40	38	39	40
1-Feb-10	55.685	**3278**	08:36:41	0	**3278**	**3278**	08:36:41	3278	0
2-Feb-10	53.746	**3232**	10:08:14	0	**3232**	**3232**	10:08:14	3232	0
3-Feb-10	56.009	**3213**	08:23:54	0	**3213**	**3213**	08:23:54	3213	0
4-Feb-10	57.010	**3306**	10:01:26	0	**3306**	**3306**	10:01:26	3306	0
5-Feb-10	53.670	**2985**	09:30	0	**2985**	**2985**	09:30	2985	0
6-Feb-10	51.530	**3079**	11:09:55	0	**3079**	**3079**	11:09:55	3079	0
7-Feb-10	52.467	**3018**	11:31:21	0	**3018**	**3018**	11:31:21	3018	0
8-Feb-10	53.477	**2966**	19:03:16	0	**2966**	**2966**	19:03:16	2966	0
9-Feb-10	54.669	**3094**	10:00	0	**3094**	**3094**	10:00	3094	0
10-Feb-10	55.672	**3094**	09:14:36	0	**3094**	**3094**	09:14:36	3094	0
11-Feb-10	55.732	**3170**	09:50:42	0.3	**3170**	**3170**	09:50:42	3170	0.3
12-Feb-10	51.967	**3096**	10:00:31	0	**3096**	**3096**	10:00:31	3096	0
13-Feb-10	53.372	**2975**	09:58:05	11	**2986**	**2986**	09:58:05	2975	11
14-Feb-10	52.596	**2971**	10:00	0	**2971**	**2971**	10:00	2971	0
15-Feb-10	52.463	**3016**	19:33:34	0	**3016**	**3016**	19:33:34	3016	0
16-Feb-10	53.507	**3091**	10:02:53	0	**3091**	**3091**	10:02:53	3091	0
17-Feb-10	55.349	**3101**	10:03:41	0	**3101**	**3101**	10:03:41	3101	0
18-Feb-10	57.931	**3203**	09:48:17	0	**3203**	**3203**	09:48:17	3203	0
19-Feb-10	57.049	**3054**	09:55:51	0	**3054**	**3054**	09:55:51	3054	0
20-Feb-10	53.398	**2991**	09:58:44	2	**2993**	**2993**	09:58:44	2991	2
21-Feb-10	55.200	**2997**	19:14:56	0	**2997**	**2997**	19:14:56	2997	0
22-Feb-10	55.772	**3058**	10:00	0	**3058**	**3058**	10:00	3058	0
23-Feb-10	55.359	**3052**	12:06:59	12	**3064**	**3064**	12:06:59	3052	12
24-Feb-10	55.757	**3047**	19:12:44	0	**3047**	**3047**	19:12:44	3047	0
25-Feb-10	55.836	**3068**	10:04:36	0	**3068**	**3068**	10:04:36	3068	0
26-Feb-10	54.121	**2975**	10:00:46	0	**2975**	**2975**	10:00:46	2975	0
27-Feb-10	51.208	**2782**	09:59:57	0	**2782**	**2782**	09:59:57	2782	0
28-Feb-10	53.626	**2958**	08:26:30	0	**2958**	**2958**	08:26:30	2958	0
Total	**1524.178**	**3306 04.02.11 Max**	**10:01:26**	0	**3306 04.02.11 Max**	**10:01:26**			

10 LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING FEBRUARY 2011 ON 04.02.2011 –3306MW at 10:01:26HRS.

All figures in MW

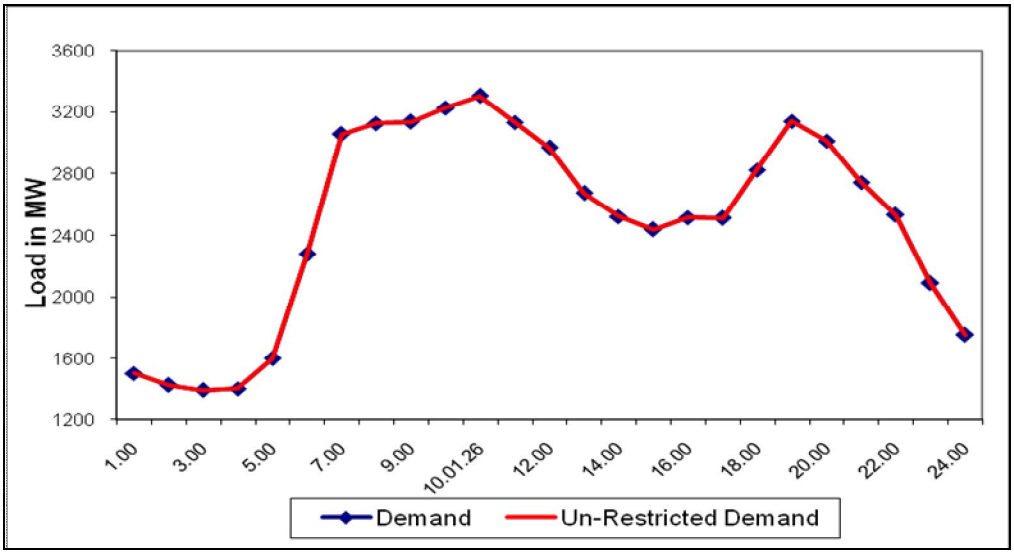
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1506	0	1506
2.00	1428	0	1428
3.00	1393	0	1393
4.00	1406	0	1406
5.00	1601	0	1601
6.00	2280	0	2280
7.00	3057	0	3057
8.00	3128	0	3128
9.00	3138	0	3138
10.00	3230	0	3230
10.01.26	**3306**	0	3306
11.00	3136	0	3136
12.00	2970	0	2970
13.00	2674	0	2674
14.00	2524	0	2524
15.00	2441	0	2441
16.00	2517	0	2517
17.00	2514	0	2514
18.00	2828	1	2829
19.00	3143	0	3143
20.00	3014	0	3014
21.00	2747	0	2747
22.00	2536	0	2536
23.00	2091	0	2091
24.00	1756	0	1756
ENERGY IN Mus	57.010	0.030	57.040



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING FEBRUARY2011 – 04.02.2011– 3306MW at 10:01:26HRS.

All figures in MW

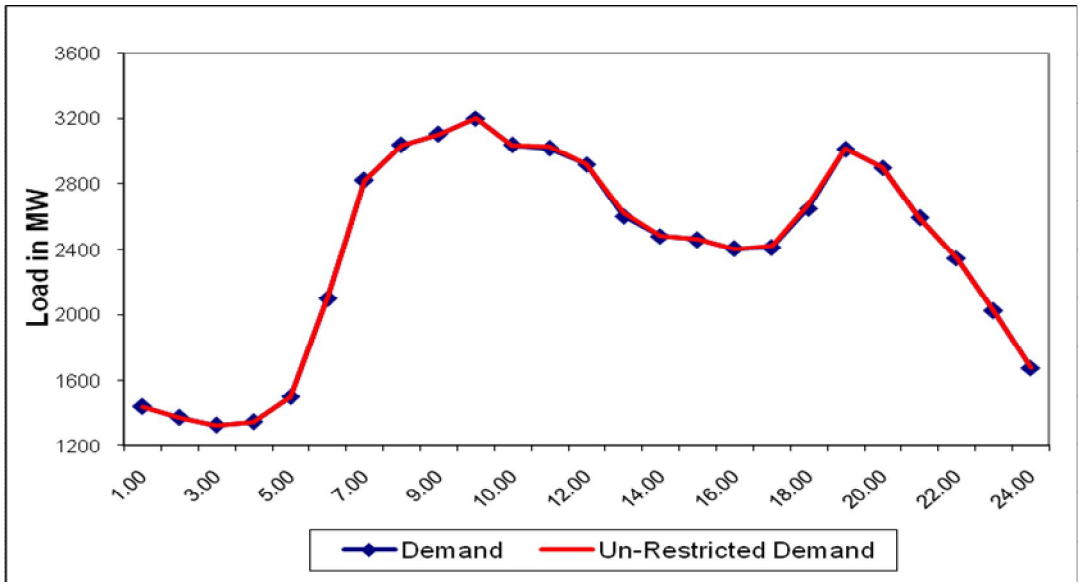
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1506	0	1506
2.00	1428	0	1428
3.00	1393	0	1393
4.00	1406	0	1406
5.00	1601	0	1601
6.00	2280	0	2280
7.00	3057	0	3057
8.00	3128	0	3128
9.00	3138	0	3138
10.00	3230	0	3230
10.01.26	3306	0	**3306**
11.00	3136	0	3136
12.00	2970	0	2970
13.00	2674	0	2674
14.00	2524	0	2524
15.00	2441	0	2441
16.00	2517	0	2517
17.00	2514	0	2514
18.00	2828	1	2829
19.00	3143	0	3143
20.00	3014	0	3014
21.00	2747	0	2747
22.00	2536	0	2536
23.00	2091	0	2091
24.00	1756	0	1756
ENERGY IN Mus	57.010	0.030	57.040



12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING FEBRUARY 2011 – 18.02.2011 – 57.931 Mus

All figures in MW

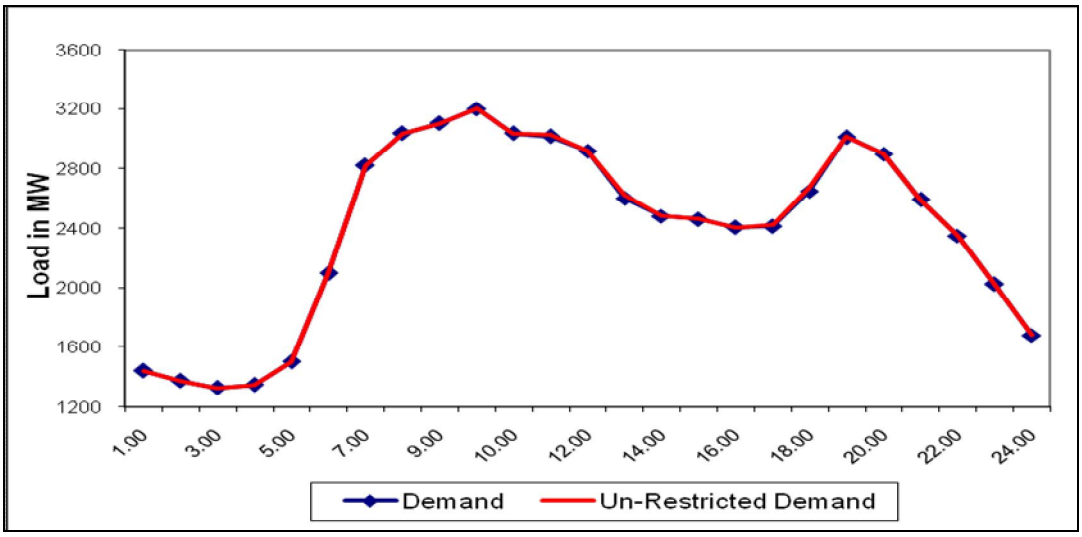
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1442	0	1442
2.00	1375	0	1375
3.00	1326	0	1326
4.00	1347	0	1347
5.00	1502	1	1503
6.00	2101	4	2105
7.00	2823	0	2823
8.00	3037	0	3037
9.00	3105	0	3105
10.00	3037	0	3037
11.00	3018	8	3026
12.00	2921	0	2921
13.00	2604	22	2626
14.00	2486	0	2486
15.00	2463	0	2463
16.00	2406	0	2406
17.00	2416	9	2425
18.00	2651	20	2671
19.00	3013	0	3013
20.00	2901	0	2901
21.00	2594	0	2594
22.00	2351	0	2351
23.00	2024	0	2024
24.00	1680	0	1680
ENERGY IN Mus	**57.931**	0.033	57.964



13 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING FEBRUARY2011 – 18.02.2011– 57.964Mus

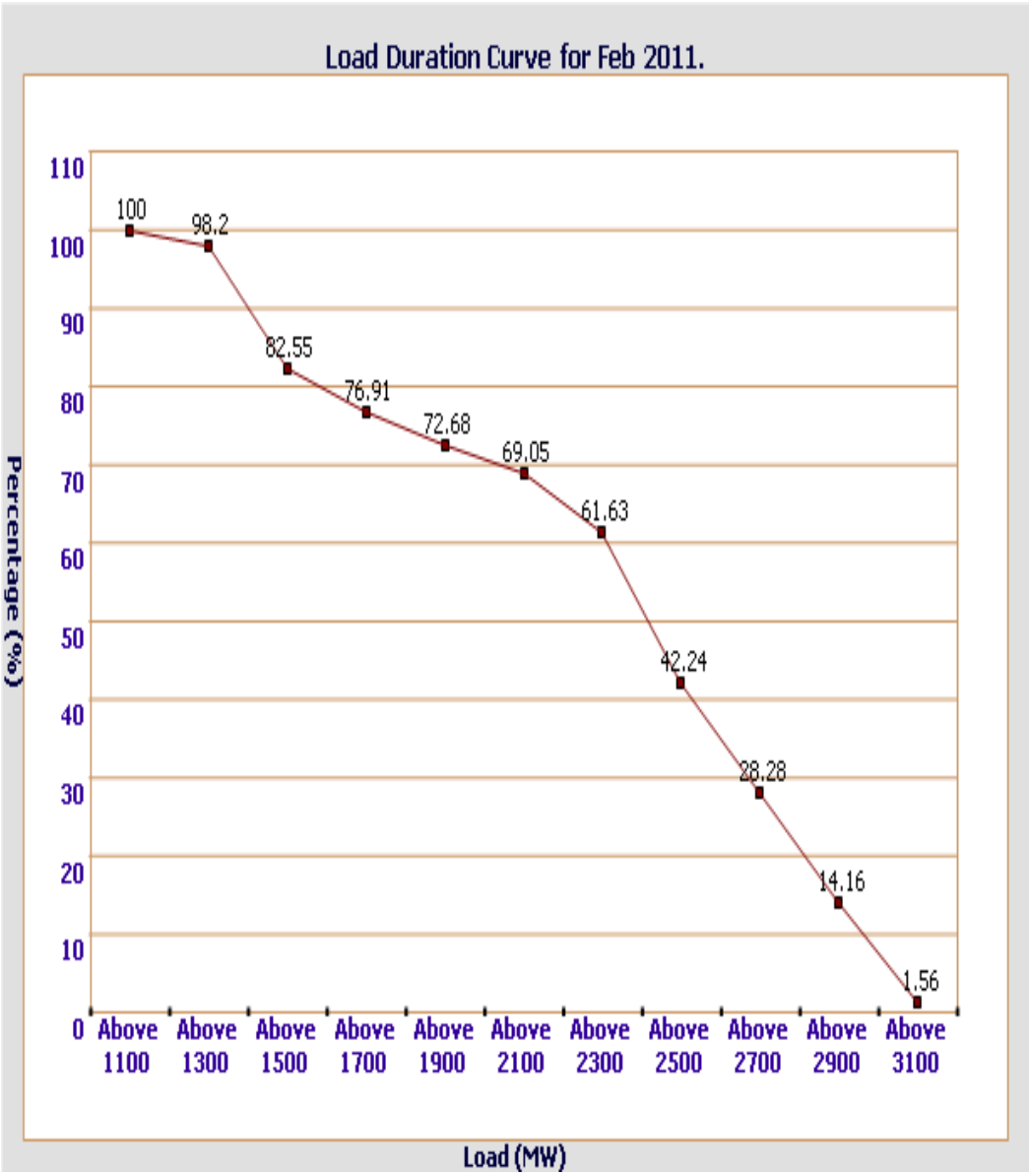
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1442	0	1442
2.00	1375	0	1375
3.00	1326	0	1326
4.00	1347	0	1347
5.00	1502	1	1503
6.00	2101	4	2105
7.00	2823	0	2823
8.00	3037	0	3037
9.00	3105	0	3105
10.00	3037	0	3037
11.00	3018	8	3026
12.00	2921	0	2921
13.00	2604	22	2626
14.00	2486	0	2486
15.00	2463	0	2463
16.00	2406	0	2406
17.00	2416	9	2425
18.00	2651	20	2671
19.00	3013	0	3013
20.00	2901	0	2901
21.00	2594	0	2594
22.00	2351	0	2351
23.00	2024	0	2024
24.00	1680	0	1680
ENERGY IN Mus	57.931	0.033	**57.964**



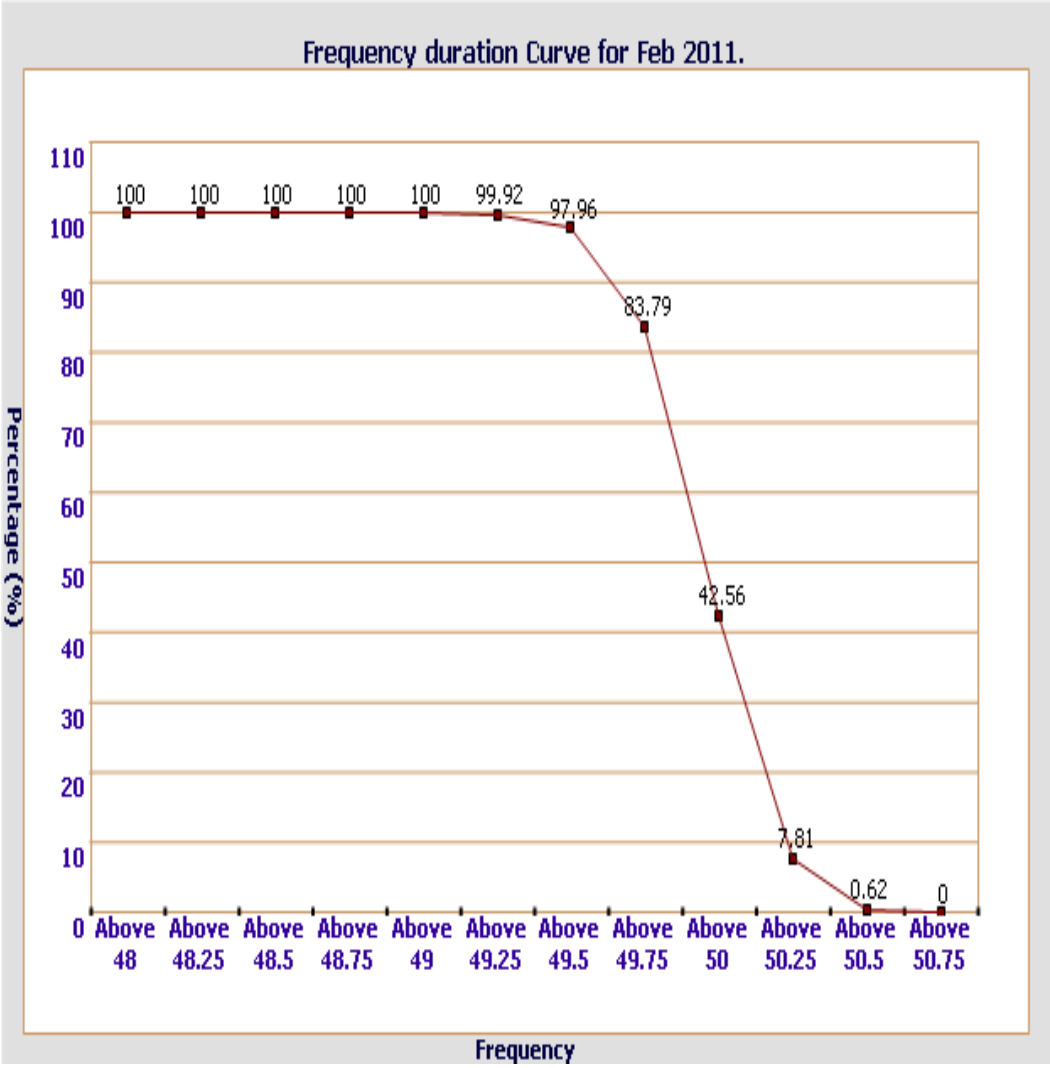
14 LOAD DURATION CURVE FOR FEBRUARY 2011

Load in MW	Percentage of Time
Above 1100	100 %
Above 1300	98.2 %
Above 1500	82.55 %
Above 1700	76.91 %
Above 1900	72.68 %
Above 2100	69.05 %
Above 2300	61.63 %
Above 2500	42.24 %
Above 2700	28.28 %
Above 2900	14.16 %
Above 3100	1.56 %



15 FREQUENCY ANALYSIS FOR THE MONTH OF FEBRUARY 2011

Frequency Range in Hz.	Percentage of time
Above 49.00	100 %
Above 49.25	99.92 %
Above 49.50	97.96 %
Above 49.75	83.79 %
Above 50.00	42.56 %
Above 50.25	7.81 %
Above 50.50	0.62 %
Above 50.75	0 %



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

All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
1-Feb-10	236.66	215.77	227.24	217.57
2-Feb-10	227.89	213.06	227.24	217.57
3-Feb-10	228.66	214.48	228.79	210.22
4-Feb-10	--	--	--	--
5-Feb-10	229.18	213.44	229.18	209.45
6-Feb-10	228.66	216.41	228.92	214.99
7-Feb-10	231.37	215.38	236.01	216.02
8-Feb-10	232.53	215.38	233.82	217.83
9-Feb-10	230.47	215.12	232.15	217.57
10-Feb-10	229.44	214.99	230.86	213.32
11-Feb-10	230.86	216.93	232.53	216.93
12-Feb-10	230.47	215.25	231.50	216.28
13-Feb-10	231.24	216.54	233.05	216.93
14-Feb-10	233.18	216.93	235.63	218.35
15-Feb-10	234.60	213.70	236.92	216.67
16-Feb-10	231.11	214.73	234.08	218.22
17-Feb-10	230.86	215.64	232.66	216.67
18-Feb-10	230.47	214.61	233.43	215.25
19-Feb-10	230.47	214.61	233.43	215.25
20-Feb-10	231.89	219.64	233.95	218.99
21-Feb-10	234.60	216.93	235.63	218.22
22-Feb-10	232.53	216.93	233.43	216.02
23-Feb-10	233.95	217.18	233.82	216.02
24-Feb-10	234.34	217.83	233.95	220.15
25-Feb-10	237.30	218.60	--	--
26-Feb-10	--	--	--	--
27-Feb-10	--	--	--	--
28-Feb-10	228.28	217.31	230.73	217.18

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

All figures in kV

Date	400kV Bamnauli Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
1-Feb-10	418.10	04.00.36	383.86	10.10.36	404.27
2-Feb-10	418.10	04.00.36	383.86	10.10.36	40427
3-Feb-10	419.03	02.59.55	393.71	10.11.51	405.50
4-Feb-10	--	--	--	--	--
5-Feb-10	421.61	04.05.32	391.60	11.06.05	405.95
6-Feb-10	420.44	03.44.32	399.81	09.08.40	410.96
7-Feb-10	425.60	21.05.39	396.99	10.13.47	409.47
8-Feb-10	425.13	03.06.31	397.23	18.43.35	409.33
9-Feb-10	421.85	04.00.37	395.58	10.18.08	407.79
10-Feb-10	420.67	04.03.37	395.12	10.20.39	406.48
11-Feb-10	423.02	03.11.21	395.12	09.25.21	408.36
12-Feb-10	421.38	03.31.45	394.41	09.50.10	407.81
13-Feb-10	423.72	03.33.38	397.93	09.40.43	411.79
14-Feb-10	426.77	04.05.13	399.57	09.55.29	413.29
15-Feb-10	430.99	03.56.06	395.82	18.42.41	414.34
16-Feb-10	428.65	02.19.16	396.76	18.54.33	413.03
17-Feb-10	424.19	03.19.24	396.05	06.42.07	410.49
18-Feb-10	424.43	03.03.47	395.12	11.05.32	410.72
19-Feb-10	423.72	03.18.37	397.93	09.30.39	410.66
20-Feb-10	426.77	23.55.40	403.79	06.58.45	415.58
21-Feb-10	430.76	02.15.38	399.81	18.56.05	414.97
22-Feb-10	425.60	--	401.92	13.37.22	412.72
23-Feb-10	428.65	04.01.56	399.10	06.51.16	410.92
24-Feb-10	428.65	03.58.28	403.09	10.12.47	413.46
25-Feb-10	--	--	--	--	--
26-Feb-10	433.81	04.05.44	399.34	18.58.33	415.13
27-Feb-10	422.79	03.57.36	400.27	09.23.05	411.75
28-Feb-10	418.56	23.35.41	399.10	09.34.23	408.81

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
1-Feb-10	419.74	04.02.56	386.20	10.10.36	404.27
2-Feb-10	419.74	04.02.56	386.20	10.10.36	406.31
3-Feb-10	420.67	03.00.25	396.05	10.11.31	407.59
4-Feb-10	--	--	--	--	--
5-Feb-10	421.61	04.05.32	391.60	11.06.05	405.95
6-Feb-10	420.44	03.44.32	399.81	09.08.40	410.96
7-Feb-10	427.47	21.04.49	399.81	10.12.07	412.24
8-Feb-10	427.24	03.04.41	400.51	18.53.05	412.58
9-Feb-10	424.19	03.33.36	398.16	10.20.58	410.65
10-Feb-10	422.79	04.01.06	397.93	14.38.26	408.99
11-Feb-10	425.13	03.11.31	397.93	09.27.31	410.70
12-Feb-10	423.25	03.31.55	396.76	09.47.20	410.14
13-Feb-10	425.60	02.33.43	400.27	09.40.53	414.34
14-Feb-10	428.41	04.05.23	403.09	09.54.29	416.29
15-Feb-10	432.40	03.50.46	398.40	18.42.51	416.34
16-Feb-10	430.76	03.00.08	399.34	18.54.23	415.41
17-Feb-10	426.30	03.19.24	399.34	06.41.17	413.16
18-Feb-10	426.07	02.31.46	397.93	11.05.22	413.12
19-Feb-10	424.90	02.59.36	400.27	09.32.40	412.75
20-Feb-10	427.94	23.55.50	406.37	06.58.15	417.45
21-Feb-10	431.23	02.13.38	402.62	18.55.45	417.34
22-Feb-10	427.71	--	404.03	13.41.12	414.92
23-Feb-10	429.82	04.02.36	401.45	06.51.26	413.24
24-Feb-10	428.65	02.02.40	405.67	18.55.43	414.85
25-Feb-10	--	--	--	--	--
26-Feb-10	435.68	04.06.25	405.43	09.30.44	420.03
27-Feb-10	424.19	23.28.21	408.01	18.55.36	416.85
28-Feb-10	426.77	02.08.59	401.68	09.35.53	414.11

18 DETAILS OF LUMPED CAPACITORS AT NEAREST 220 KV SUBSTATION

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

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

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

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

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

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

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

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REAPRKS
	DATE	TIME		DATE	TIME	
01	03.02.11	12.52	400KV MUNDKA – BAWANA CKT-II	03.02.11	13.12	CKT. TRIPPED ON 86A, SUPERVISION, CHANNEL-I AT MUNDKA.
02	04.02.11	20.00	66/11KV 20MVA PR. TR.-II AT VASANT KUNJ	04.02.11	20.35	TR. TRIPPED ON 30B, OLTC.
03	05.02.11	08.39	220KV NARELA – ROHTAK ROAD CKT-I	05.02.11	08.52	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-I AT NARELA.
04	06.02.11	15.53	220/66KV 160MVA PR. TR.-II AT PRAGATI	06.02.11	20.50	TR. TRIPPED WITHOUT INDICATION.
05	07.02.11	01.57	220/33KV 100MVA PR. TR.-I AT IP	07.02.11	02.37	TR. TRIPPED ON 86 LOCK OUT, DCCH RELAY.
06	07.02.11	19.24	220KV BTPS – MEHRAULI CKT-II	08.02.11	12.18	CKT. TRIPPED ON DIST PROT ZONE-I, 30A AT BTPS AND ON DIST PROT `ABC' PHASE ZONE-I AT MEHRAULI.
07	07.02.11	20.15	400KV MUNDKA – JHAJJAR CKT-II	07.02.11	23.35	CB-411 OF THE CKT TRIPPED ON LOW PRESSURE LOW AT MUNDKA.
08	07.02.11	20.34	220/66KV 100MVA PR TR-II AT ROHINI	08.02.11	16.25	TR. TRIPPED ON DIFFERENTIAL, 87B, 87TC 64RHF (E/F) ALONG WITH 66KV I/C-II
09	07.02.11	20.44	400KV MUNDKA – BAWANA CKT-I	07.02.11	23.35	BOTH BREAKER OF THE CKT TRIPPED ON LOW PRESSUR ELOW AT MUNDKA.
10	07.02.11	20.49	220/66KV 160MVA PR. TR.-II AT PRAGATI	08.02.11	01.35	TR. TRIPPED ON REFHV, LV, 86
11	07.02.11	20.54	220/33KV 100MVA PR. TR.-I AT IP	07.02.11	21.25	TR. TRIPPED ON 86
12	07.02.11	20.59	220KV BTPS – OKHLA KT-II	08.02.11	18.05	CKT. TRIPPED ON E/F AT BTPS AND ON 87BC AT OKHLA. CKT. TRIED TO CLOSE AT 22.18HRS BUT AGAIN BUT DID NOT HOLD AND TRIPPED ON DIST PROT `ABC' PH. ZONE-I AT OKHLA. CKT. FINALLY CHARGED AT 18.05HRS. ON 08.02.11
13	07.02.11	21.27	220/66KV 100MVA PR. TR.-IV AT OKHLA	08.02.11	01.32	TR. TRIPPED ON 86 ALONG WITH ITS 66K I/C WHICH ALSO TRIPPED ON 86.
14	08.02.11	07.48	66/11KV 20MVA PR. TR. AT GAZIPUR	08.02.11	08.25	TR TRIPPED ALONG WITH ITS 11KV I/C ON O/C
15	09.02.11	15.56	220KV MANDOLA – WAZIRABAD CKT-III	09.02.11	16.06	CKT. TRIPPED ON DIST PROT `RYB' PHASE AT WAZIRABAD.
16	10.02.11	15.02	220KV MANDOLA - NARELA CKT-I	10.02.11	15.54	CKT. TRIPPED ON DIST PROT `ABC' PHASE AT NARELA AND ON `Y&B' PHASE 86R, 86T, 86Y, 186A&B AT MANDOLA.
17	12.02.11	11.00	220KV MANDOLA – WAZIRABAD CKT-III	12.02.11	11.04	CKT TRIPPED ON GENERAL TRIP, DIST PROT `RYB' PHASE AT WAZIRABAD.
18	13.02.11	06.38	220866KV 100MVA PR. TR-I AT PAPPANKALAN-II	13.02.11	08.21	TR. TRIPPED ALONG WITH 66KV I/C-I
19	16.02.11	02.32	220/66KV 100MVA PR. TR.-I AT SARITA VIHAR	16.02.11	03.06	TR. TRIPPED O SPR 30F, 86, 30C.
20	16.02.11	02.56	220/66KV 100MVA PR. TR.-II AT SARITA VIHAR	16.02.11	05.43	TR. TRIPPED ON 99 OVER FLUX, 80 SUPERVISION RELAY, 86.

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REAPRKS
	DATE	TIME		DATE	TIME	
21	18.02.11	08.08	220KV MANDOLA – WAZIRABAD CKT-III	18.02.11	08.11	CKT. TIRPPED ON RXME18, DIST PROT `RYB' PHASE AT WAZIRABAD.
22	18.02.11	11.46	400KV MUNDKA – BAWANA CKT-II	18.02.11	12.14	CKT. TRIPPED ON 86A, 86B, AUTO RECLOSE BLOCK SIGNAL, DIRECT TRIP RECEIVED AT MUNDKA.
23	19.02.11	11.37	220/66KV 160MVA PR TR-II AT PRAGATI	19.02.11	12.30	TR. TRIPPED ON REFHV, REFLV, DDEF TRIP 86. 160MVA PR. TR.-II AT GT ALSO TRIPPED WITHOUT INDICATION.
24	19.02.11	11.38	220KV SARITA VIHAR - MAHARANI BAGH CKT.	19.02.11	12.09	CKT. TRIPPED ON ACTIVE GROUP DIST PROT `A' PHASE ZONE-I, 186A&B, 186X, AUTO RECLOSE LOCK OUT AT SARITA VIHAR AND ON DIST PROT `R' PHASE ZONE-I AT MAHARANI BAGH
25	19.02.11	22.55	220/33KV 100MVA PR. TR.-II AT IP	19.02.11	23.06	TR. TRIPPED ON DIST PROT ALONG WITH ITS 11KV I/C-II
26	22.02.11	07.58	220/66KV 160MVA PR. TR.-II AT PRAGATI	22.02.11	16.49	TR. TRIPPED ON DIFFERENTIAL, 86 ALONG WITH ITS 66KV I/C-II WHICH TRIPPED WITHOUT INDICATION.
27	22.02.11	14.35	33/11KV 20MVA PR. TR-I AT LODHI ROAD	22.02.11	20.23	TR. TRIPPED ON O/C `RYB' PHASE ALONG WITH ITS 11KV I/C WHICH TRIPPED ON O/C `R&Y' PHASE.
28	24.02.11	09.18	220KV MANDOLA – WAZIRABAD CKT-III	24.02.11	11.05	CKT. TRIPPED DUE TO TRIPPING OF 66KV WAZIRABAD – YAMUNA VIHAR CKT-I & II
29	24.02.11	11.20	400KV MUNDKA – JHAJJAR CKT-I	24.02.11	14.03	CB-41452 OF THE CKT. TRIPPED ON 86A, 86B AT MUNDKA END.
30	24.02.11	11.29	220/66KV 100MVA PR. TR.-II AT KANJHAWALA	24.02.11	18.40	TR. TRIPPED ON 86, 75B (HV REF) ALONG WITH 66KV I/C-II WHICH TRIPPED WITHOUT INDICATION.
31	26.02.11	03.48	400KV MUNDKA – JHAJJAR CKT-I	26.02.11	09.33	CKT. TRIPPED ON CB AIR PRESSURE LOW, 86A, 86B, DIRECT TRIP CHANNEL-II AT MUNDKA AND ON OVER VOLTAGE AT JHAJJAR. CKT. TRIED TO CHARGED AT 06.57HRS. BUT DID NOT HOLD. CKT. FINALLY CHARGED AT 09.33HRS.
32	26.02.11	04.06	400/220KV ICT-III AT BAWANA	26.02.11	07.23	ICT TRIPPED ON OVER VOLTAGE, OVER FLUX ALONG WITH ITS 220KV I/C-III WHICH TRIPPED ON INTER TRIPPING.
33	28.02.11	10.56	66/11KV 20MVA PR. TR.-III AT WAZIRABAD	28.02.11	11.30	TR. TRIPPED ON PRV RELAY.
34	28.02.11	18.35	220/66KV 100MVA PR. TR.-I AT GAZIPUR	01.03.11	10.35	TR. TRIPPED WITHOUT INDICATION ALONG WITH ITS 66KV I/C WHICH ALSO TRIPPED WITHOUT INDICATION.

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

DATE	S. N.	TIME		Name of Grid	NAME OF AFFECTED FEEDERS	LOAD RELIEF IN MW
		OUT	IN			
04.02.2011	1	14.20	14.24	Shalimar Bagh	33kV Rani Bagh Ckt-I & II 33kV Sanjay Gandhi Tr. Nagar Ckt.	20
	2	14.22	14.22	Najafgarh	66kV Bodella Ckt-I & II 66kV G-V Pappankalan Ckt-I & II 20MVA Pr. Tr.-III and 02 Nos. 11kV feeders	53