DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

****

FEBRUARY 2013

1 **SALIENT FEATURES OF DELHI POWER SYSTEM**

Sr. No.	Features	FEBRUARY 2013	FEBRUARY 2012
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	108	108
	Total	1548	1548
2	**Maximum Unrestricted Demand (MW)**	**3590**	**3608**
	Date	01.02.2013	03.02.2012
	Time	09.59.52	10.04.57
3	**Peak Demand met (MW)**	**3590**	**3608**
	Date	01.02.2013	03.02.2012
	Time	09.59.52	10.04.57
4	Peak Availability (MW)	3514	3551
5	Shortage (-) / Surplus (+) in MW	(-)76	(-)51
6	Percentage Shortage (-) / Surplus (+)	(-) 2.12	(-)1.41
7	Maximum Energy Consume in a day (Mus)	59.532	64.033
8	Energy Consumed during the month	**1536.498**	**1702.186**
9	**Load Shedding in Mus**		
A)	Due to Grid Restrictions		
i)	Under Frequency Relay Operations	0.000	0.000
ii)	Manual Load shedding from DTL S/Stns.	0.000	0.000
iii)	Load Shedding due to low frequency / Low Voltage / TTC/ATC Violation		
	NDPL	0.021	0.185
	BRPL	0.161	0.022
	BYPL	0.085	0.006
	NDMC	0.000	0.000
	MES	0.000	0.000
iv)	Due to transmission Constraints in Central Sector	0.267	0.000
	Total due to Grid Restriction	**0.267**	**0.213**
B)	Due to Constraints in System in Mus		
	DTL	0.363	0.100
	NDPL	0.312	2.247
	BRPL	0.458	0.160
	BYPL	0.280	0.103
	NDMC	0.000	0.000
	MES	0.000	0.000
	Other Agencies	0.019	0.008
	Total	**1.432**	**2.618**
11	**Grand Total in Mus**	**1.699**	**2.831**

2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING FEBRUARY 2013

A) For the month of FEBRUARY 2013

All Figures in MUs

S. No	Stations	Gross Generation	Aux. Consumption	Net Generation	Availability (%)	Backing Down
1.	**RPH**	72.531	9.106	63.425	80.01	0
2.	**GT**	78.672	2.186	76.486	95.26	91.254
3.	**PPCL**	202.008	4.956	197.052	98.18	14.917
4.	**BTPS**	289.892	21.974	267.918	98.91	149.460
5.	**Rithala**	1.534	0.225	1.309	**89.17**	53.921
6.	**Bawana**	144.745	4.232	140.513	105.10	328.964
	TOTAL	**789.382**	**42.679**	**746.703**	**--**	**638.516**

B) For the Year 2011-12 (Upto FEBRUARY 2013)

Power Station	Effective Capacity (MW)	Net Generation in MUs for Feb 2013	Availability (%) for Feb. 2013	PLF (%) for Feb 2013	Cumulative Generation in MUs upto Feb. 2013 for the year 2012-13	Cumulative Availability in % upto Feb. 2013 for the year 2012-13	Cumulative PLF in % upto Feb 2013 for the year 2012-13
RPH	135	63.425	80.01	80.01	648.464	68.76	68.02
GT	270	76.486	95.26	43.41	1170.386	84.08	55.78
PPCL	330	197.052	98.18	91.25	2245.432	90.40	87.42
BTPS	705	267.918	98.91	64.05	3760.123	88.96	74.75
Rithala	108	1.309	89.17	1.91	130.035	--	--
Bawana	677	140.513	105.10	51.49	1335.275	90.39	32.83
TOTAL	**2225**	**746.703**	**--**	**--**	**9289.715**	**--**	--

3 DETAILS OF OUTAGES OF GENERATING STNS. WITHIN DELHI W.E.F. APRIL 2012

(A) RPH STATION

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	67.5	03.04.12	19.10	03.04.12	21.05	Unit tripped due to grid disturbance.
		10.04.12	17.00	10.04.12	18.05	
		11.04.12	5.50	11.04.12	6.30	Flame failure.
		11.04.12	6.55	11.04.12	7.40	
		11.04.12	7.55	11.04.12	11.45	Turbine trip.
		27.04.12	11.05	29.04.12	5.20	Unit desynchronised due to Boiler Tube Leakage.
		29.04.12	8.40	29.04.12	9.40	Unit tripped with heavy jerk, when AOP-1A started, emergency boerd incomer No. A tripped on earth fault.
		03.05.12	17.40	05.05.12	8.40	Unit desynchronized to attend the Condensor tube leakage.
		12.05.12	17.30	16.05.12	6.45	Unit tripped on system disturbance, later on there is found Boiler tube leakage.
		16.05.12	11.30	15.05.12	13.40	Unit tripped on system disturbance, total dark out.
		20.05.12	12.05	20.05.12	12.35	Unit tripped due to electrical problem.
		23.05.12	10.30	23.05.12	11.55	Unit tripped due to furnace pr. high.
		25.05.12	17.10	25.05.12	21.55	Unit tripped due to electrical problem.
		26.05.12	11.10	26.05.12	12.15	Unit tripped due to drum level very low.
		26.05.12	17.05	27.05.12	3.25	Unit tripped due to electrical problem.
		27.05.12	3.40	27.05.12	4.10	Unit tripped due to master fuel trip.
		28.05.12	7.30	28.05.12	9.35	Unit tripped due to electrical problem.
		03.06.12	17.35	03.06.12	19.20	Unit tripped due to flame failure.
		07.06.12	3.05	07.06.12	5.50	Unit tripped on aux. supply failure due to Stn.-1 tripped.
		07.06.12	10.40	07.06.12	11.10	
		19.06.12	10.40	22.06.12	15.10	Unit tripped due to Boiler tube leakage.
		30.06.12	0.45	30.06.12	1.25	Unit tripped due to 33KV supply failure.
		06.07.12	18.35	09.07.12	15.00	Unit tripped on turbine trip, later on the unit still stopped as per system operation.
		10.07.12	8.10	01.09.12	20.40	Unit tripped on flame failure, later on the unit taken on Planned Outage as capital O/H w.e.f. 18/07/12 at zero hrs.
		10.09.12	23.10	10.09.12	23.40	Unit tripped due to loss of oil fuel.
		11.09.12	14.55	13.09.12	11.20	Unit desynchronised to attend the IBD-59 & 60.
		23.09.12	14.20	25.09.12	10.30	Unit desynchronised to attend the boiler tube leakage.
		08.10.12	1.15	10.10.12	7.30	
		27.10.12	10.20	27.10.12	12.20	Unit tripped due to grid disturbance, total dark out.
		27.10.12	14.00	27.10.12	14.50	
		30.10.12	7.40	30.10.12	10.10	Unit tripped due to Monkey jumped in yard, Bay No. 10 to 22 tripped.
		30.10.12	11.00	30.10.12	13.05	Turbine trip.
		30.10.12	13.45	30.10.12	14.35	
		15.11.12	0.30	16.11.12	2.30	Unit desynchronised to attend the boiler tube leakage.
		08.12.12	7.40	09.12.12	22.55	
		15.12.12	13.00	15.12.12	13.35	Unit tripped due to drum level low.
		21.12.12	1.20	24.12.12	12.30	Unit desynchronised to attend the boiler tube leakage.
		07.01.13	20.10	07.01.13	22.20	Unit tripped due to turbine trip.
		26.01.13	14.05	26.01.13	19.40	Unit desynchronised to attend the CW v/v.
		23.02.13	0.30	24.02.13	22.45	Unit desynchronised to attend the Boiler tube leakage.
		28.02.13	9.30	Contd.		Unit desynchronised due to shortage of coal fuel.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	67.5	01.04.12	2.00	01.04.12	11.15	Unit desynchronised due to MS pr. & temp. could not maintained as per system operation.
		03.04.12	19.10	03.04.12	20.50	Unit tripped due to grid disturbance.
		10.04.12	17.00	10.04.12	18.35	
		10.04.12	18.40	10.04.12	19.30	Excitation system problem.
		16.04.12	17.40	18.04.12	19.05	Unit desynchronised due to non-availability of coal mills. As per system operation.
		12.05.12	17.30	12.05.12	20.00	Unit tripped on system disturbance.
		16.05.12	11.30	16.05.12	12.50	Unit tripped on system disturbance, total dark out.
		24.05.12	14.10	24.05.12	1.45	Unit desynchronized to attend the Economisor tube leakage.
		28.05.12	7.30	28.05.12	12.50	Unit tripped due to electrical problem.
		07.06.12	3.05	07.06.12	4.40	Unit tripped on aux. supply failure due to Stn.-1 tripped.
		29.06.12	22.50	30.06.12	2.15	Unit tripped due to fire occurred on 33KV supply cable.
		02.07.12	12.50	05.07.12	11.30	Boiler Tube Leakage.
		06.07.12	21.35	06.07.12	23.35	33KV supply failure.
		07.07.12	8.00	09.07.12	14.00	Unit desynchronized as per system operation.
		09.07.12	15.25	09.07.12	16.05	Turbine vibration high.
		10.07.12	22.15	11.07.12	1.20	Electrical fault.
		13.07.12	1.30	13.07.12	14.10	Furnace pr. very high.
		17.07.12	12.05	17.07.12	13.45	
		20.07.12	4.45	20.07.12	5.45	
		22.07.12	10.10	22.07.12	11.05	Turbine vibration high.
		22.07.12	12.00	22.07.12	12.35	
		30.07.12	2.25	30.07.12	11.40	Grid failure, Total dark out.
		31.07.12	12.55	31.07.12	17.20	
		18.08.12	5.05	18.08.12	6.50	Dark out, 33kv bay no. 1, 2, 6, 13 & 18 under frequency trip.
		25.08.12	16.25	25.08.12	17.05	Drum level very high.
		25.08.12	22.55	26.08.12	10.00	Furnace pr. very high.
		30.08.12	9.05	30.08.12	10.10	
		30.08.12	15.35	30.08.12	16.25	
		30.08.12	20.35	30.08.12	21.30	
		04.09.12	13.40	09.09.12	12.00	Unit desynchronised to attend the boiler tube leakage.
		18.09.12	18.15	18.09.12	19.05	Furnace pr. very high.
		25.09.12	5.20	27.09.12	11.15	Unit desynchronised to attend the boiler tube leakage.
		14.10.12	3.20	14.10.12	6.30	Unit tripped due to furnace pr. very high.
		18.10.12	15.20	19.10.12	6.45	Unit desynchronised to attend the condensor tube leakage.
		24.10.12	15.00	25.10.12	10.55	Unit desynchronised as per System Operation
		27.10.12	10.20	27.10.12	12.15	Unit tripped due to grid disturbance, total dark out.
		27.10.12	14.00	27.10.12	15.00	
		30.10.12	7.40	30.10.12	10.20	Unit tripped due to Monkey jumped in yard, Bay No. 10 to 22 tripped.
		11.11.12	14.20	11.11.12	15.45	Unit tripped due to bus coupler breaker not closed on auto.
		11.11.12	16.15	11.11.12	16.45	Unit tripped due to turbine vibration high.
		11.11.12	17.10	11.11.12	17.50	
		29.11.12	2.05	29.11.12	11.50	Unit tripped due to turbine trip.
		29.11.12	12.00	01.12.12	15.20	Unit tripped due to boiler tube leakage
		27.12.12	1235	27.12.12	13.40	Unit tripped due to turbine trip.
		07.01.13	20.10	07.01.13	20.35	
		08.01.13	13.30	08.01.13	14.40	Unit tripped due to monkey jumped near bay No. 7 in yard.
		09.01.13	9.20	10.01.13	23.00	Unit desynchronised to attend the economisor tube leakage.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	67.5	01.04.12	2.00	01.04.12	11.15	Unit desynchronised due to MS pr. & temp. could not maintained as per system operation.
		14.01.13	0.20	15.01.27	2.10	Unit desynchronised to attend the economisor tube leakage.
		18.01.13	12.25	18.01.13	14.30	Unit tripped due to generator transformer trip.
		20.01.13	2.40	20.01.13	3.50	Unit tripped due to turbine shaft vibration very high.
		20.01.13	8.00	20.01.13	8.50	Unit tripped due to turbine trip.
		20.01.13	10.05	20.01.13	10.45	Unit tripped due to, when UAT-2 try to taken i/s, but UAT-2 brk. not closed.
		20.01.13	11.20	20.01.13	12.00	Unit tripped due to turbine vibration high.
		26.01.13	14.30	27.01.13	1.45	Unit desynchronised to attend the CW v/v.
		02.02.13	3.05	02.02.13	3.55	Unit tripped due to excitation problem.
		02.02.13	4.05	02.02.13	4.30	Unit tripped due to drum level very low.
		10.02.13	16.20	10.02.13	16.50	Unit tripped due to turbine trip.
		10.02.13	17.25	10.02.13	18.20	Unit tripped due to electrical problem.

(B) Gas Turbine

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	30	04.04.12	09.28	04.04.12	12.05	Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. tripped on relay 86X.
		08.04.12	17.00	08.04.12	18.05	Machine tripped due to jerk observed in C/R.160MVA Trf. No.2 tripped.
		10.04.12	00.05	10.04.12	12.25	Stopped due to low demand and high frequency.
		12.04.12	17.05	12.04.12	18.22	Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. tripped at both end. Over current & earth fault relay operated at GT end on 160MVA Tx-I. Buch-Holtz relay operated on 160MVA Tx-II at IP Ext.end.
		06.05.12	10.49	06.05.12	16.30	Tripped on loss of flame,negative phase sequence alarm appeared in CRT.One controller got out of order.
		24.05.12	22.30	25.05.12	01.20	Stopped as request of C&I staff with HRSG#I to change gen. absolute filter.
		09.06.12	10.05	06.09.12	10.25	Machine came on FSNL
		17.06.12	06.03	18.06.12	19.54	Stopped due to low demand and high frequency.
		19.06.12	21.02	20.06.12	11.30	
		20.06.12	11.30	20.06.12	19.00	Machine tripped during starting due to some elect. Problem.
		20.06.12	19.00	21.06.12	14.50	Stopped due to low demand and high frequency.
		13.07.12	12.38	13.07.12	13.01	GT#1 came on FSNL as the 66 KV bus became dead due tripping of 160 MVA ICT I & II due to Grid disturbance
		30.07.12	02.35	30.07.12	04.00	Machine came on FSNL due to Grid disturbance as both 160 MVA ICT-I&II tripped
		31.07.12	13.02	31.07.12	13.11	Machine came on FSNL due to Grid disturbance as both 160 MVA ICT-I&II tripped
		31.07.12	13.50	31.07.12	13.58	Came on FSNL due to Grid disturbance as both 160 MVA ICT-I&II tripped on under frequency relay operated at 220 KV end.
		05.08.12	06.26	05.08.12	21.15	Machine stopped to attend CW line leakages.
		18.08.12	06.15	18.08.12	10.05	Machine tripped due to Grid disturbance
		29.08.12	00.05	29.08.12	21.35	Stopped due to low demand and high frequency
		02.09.12	10.45	03.09.12	11.10	
		03.09.12	19.02	03.09.12	20.25	
		04.09.12	01.16	10.09.12	09.20	
		13.09.12	09.45	13.09.12	10.00	Tripped due to 160MVA Txf.-2 manually tripped at I.P.Ext. without informing GTPS.
		28.09.12	20.55	30.09.12	12.20	Stopped due to low demand and high frequency
		01.10.12	00.00	01.10.12	02.35	
		01.10.12	05.20	03.10.12	11.50	
		22.10.12	19.00	25.10.12	13.45	
		25.10.12	13.45	31.10.12	19.15	Stopped due to problem in diesel engine.
		31.10.12	19.15	05.11.12	15.50	Stopped due to low demand and high frequency
		14.11.12	14.25	16.11.12	20.20	
		27.11.12	12.01	28.11.12	15.46	
		12.12.12	12.27	14.12.12	08.17	
		16.12.12	05.22	16.12.12	14.50	Tripped due to Grid disturbance.
		16.12.12	15.22	16.12.12	17.10	
		16.12.12	17.40	16.12.12	18.28	
		16.12.12	23.00	19.12.12	17.35	Stopped due to low demand and high frequency
		07.01.13	00.10	07.01.13	06.03	
		08.01.13	22.05	09.01.13	06.20	
		10.01.13	21.02	11.01.13	15.35	
		12.01.13	15.29	13.01.13	23.20	
		14.01.13	20.35	15.01.13	09.30	
		17.01.13	05.30	17.01.13	13.30	
		21.01.13	12.30	21.01.13	13.40	Tripped on failure of IO Pack.
		25.01.13	13.30	28.02.13	23.59	Stopped due to low demand and high frequency

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	30	08.04.12	17.00	08.04.12	18.06	Machine tripped due to jerk observed in C/R.160MVA Tr-2 tripped.
		12.04.12	00.02	12.04.12	06.10	Stopped due to low demand and high frequency.
		12.04.12	09.31	12.04.12	18.32	
		12.04.12	19.45	12.04.12	20.31	Tripped on -ve phase sequence elect. Trouble normal shut down.
		29.04.12	00.01	29.04.12	20.45	Stopped due to low demand and high frequency.
		30.04.12	13.52	30.04.12	21.35	
		06.06.12	12.35	08.06.12	12.10	
		06.07.12	18.02	06.07.12	18.58	During storm GAC shade fibre sheet fell on unit Trf. To avoid damage& protection of GT#2 66KV breaker &11KV breaker made open. GT#2 kept on FSNL.
		13.07.12	12.38	13.07.12	13.02	GT#2came on FSNL as the 66 KV bus became dead due tripping of 160 MVA ICT I & II due to Grid disturbance
		21.07.12	21.16	22.07.12	17.50	Stopped due to low demand and high frequency.
		28.07.12	00.32	28.07.12	17.52	
		30.07.12	02.35	30.07.12	04.30	Came on FSNL due to Grid disturbance as both 160 MVA ICT-I&II tripped on under frequency relay operated at 220 KV end.
		31.07.12	13.09	31.07.12	15.23	Tripped on negative phase sequence and back up timer operated .
		05.08.12	06.40	16.08.12	20.25	Machine stopped to attend CW line leakages.Machine is not available due to problem in Diesel engine since 06/08/2012.
		18.08.12	04.54	18.08.12	05.25	Machine tripped due to Grid disturbance
		18.08.12	06.15	18.08.12	07.05	
		23.08.12	03.02	23.08.12	12.54	Stopped due to low demand and high frequency
		24.08.12	02.03	24.08.12	09.43	
		30.08.12	08.03	30.08.12	08.28	Machine tripped on condensate level high trip alarm.
		02.09.12	03.20	09.09.12	12.20	Stopped due to low demand and high frequency
		09.09.12	15.50	10.09.12	09.30	
		28.09.12	20.10	03.10.12	18.15	
		22.10.12	19.00	25.10.12	12.45	
		25.10.12	12.45	25.10.12	22.00	Not available due to problem in AC AOP.
		25.10.12	22.00	26.10.12	11.00	Stopped due to low demand and high frequency
		26.10.12	11.15	29.10.12	02.30	
		06.11.12	17.45	07.11.12	09.30	
		11.11.12	11.30	11.11.12	16.00	
		14.11.12	14.26	16.11.12	20.55	
		16.11.12	23.10	19.11.12	12.43	
		29.11.12	23.01	30.11.12	06.45	
		30.11.12	06.45	30.11.12	09.55	Not available due to problem in diesel engine
		16.12.12	17.40	16.12.12	18.00	Tripped due to Grid disturbance.
		16.12.12	23.00	19.12.12	17.36	Stopped due to low demand and high frequency
		23.12.12	07.11	23.12.12	08.35	Tripped due to TAD very high.
		23.12.12	17.15	24.12.12	14.42	Stopped due to low demand and high frequency
		24.12.12	15.02	24.12.12	15.45	Tripped on high exhaust temp. spread.
		27.12.12	15.45	29.12.12	00.12	Stopped due to low demand and high frequency
		31.01.13	16.58	28.02.13	23.59	Stopped due to low demand and high frequency

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
3	30	01.04.12	00.00	04.02.12	13.50	Stopped due to low demand and high frequency.
		03.04.12	12.27	03.04.12	17.44	Machine tripped on loss of flame.
		04.04.12	09.28	04.04.12	12.15	Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. Tripped on relay 86X.
		05.04.12	10.05	30.04.12	06.15	Machine stopped due to HGPI .
		30.04.12	22.15	02.05.12	15.25	Stopped due to low demand and high frequency.
		04.05.12	04.58	04.05.12	07.54	Machine tripped on loss of Exciatation
		06.05.12	17.06	06.05.12	17.50	Machine stopped to attend the leakages.
		20.05.12	10.02	20.05.12	21.55	Stopped due to low demand and high frequency.
		29.05.12	22.05	29.05.12	23.32	Stopped to attend hot gas leakage from compressor.
		30.05.12	03.45	30.05.12	13.16	Stopped due to low demand and high frequency.
		03.06.12	18.15	04.06.12	16.15	
		07.06.12	06.04	07.06.12	13.15	
		18.06.12	20.32	19.06.12	10.53	
		20.06.12	14.58	20.06.12	16.02	Machine stopped due to diverter damper problem.
		25.06.12	11.50	25.06.12	12.05	Hunting observed in load & Machine came on FSNL on turbine under speed alarm appeared.
		28.06.12	02.42	28.06.12	05.35	Tripped due to combined cycle tripped alarm.
		06.07.12	19.02	13.07.12	14.55	Stopped due to low demand and high frequency.
		14.07.12	01.35	16.07.12	07.40	
		27.07.12	14.45	27.07.12	17.55	
		30.07.12	02.35	30.07.12	06.40	Tripped due to grid disturbance as both 160 MVA ICT tripped .
		31.07.12	13.02	31.07.12	14.17	came on FSNL due to Grid disturbance as both 160 MVA ICT-I&II tripped on under frequency relay operated at 220 KV end.
		05.08.12	06.10	05.08.12	23.04	Machine stopped to attend CW line leakages.
		09.08.12	20.02	09.08.12	21.16	Machine tripped on exhaust temp. high,exhaust over temp.trip
		18.08.12	04.54	18.08.12	07.05	Machine tripped due to Grid disturbance
		23.08.12	05.16	27.08.12	10.20	Stopped due to low demand and high frequency
		13.09.12	00.30	25.09.12	11.30	
		25.09.12	14.40	28.09.12	20.00	
		30.09.12	10.40	30.09.12	11.30	Tripped
		08.10.12	13.55	15.10.12	18.18	Stopped due to low demand and high frequency
		27.10.12	10.19	27.10.12	12.45	Tripped due to Grid disturbance
		27.10.12	14.03	27.10.12	14.45	
		27.10.12	17.32	27.10.12	18.30	
		11.11.12	16.35	12.11.12	12.45	Stopped due to low demand and high frequency
		19.11.12	13.35	21.11.12	21.07	
		24.11.12	20.32	25.11.12	15.03	
		27.11.12	12.01	28.11.12	15.05	
		29.11.12	23.01	30.11.12	05.59	
		01.12.12	20.05	04.12.12	08.30	
		06.12.12	12.50	12.12.12	08.05	
		16.12.12	06.18	16.12.12	08.21	Tripped due to Grid disturbance.
		16.12.12	17.40	16.12.12	19.15	
		23.12.12	00.05	23.12.12	14.20	Stopped due to low demand and high frequency
		23.12.12	21.40	23.12.12	22.15	Tripped due to TAD very high.
		23.12.12	22.45	24.12.12	10.30	Stopped due to low demand and high frequency
		24.12.12	20.05	25.12.12	00.25	Came on FSNL but TK fan tripped suddenly.
		31.12.12	01.55	31.12.12	05.50	Stopped due to low demand and high frequency
		01.01.13	23.30	02.01.13	12.57	
		03.01.13	03.55	03.0.13	20.50	
		04.01.13	21.02	05.01.13	20.59	
		06.01.13	18.02	07.01.13	19.05	
		08.01.13	18.15	20.01.13	10.10	
		22.01.13	05.02	23.01.13	10.34	
		24.01.13	01.35	24.01.13	22.25	

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
3	30	02.02.13	13.40	06.02.13	12.05	
		11.02.13	13.40	16.02.13	16.20	
		18.02.13	12.13	19.02.13	09.56	Stopped due to low demand and high frequency
		20.02.13	14.05	26.02.13	03.05	
		28.02.13	22.32	28.02.13	23.59	

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
4	30	01.04.12	00.00	02.04.12	13.48	Stopped due to low demand and high frequency.
		04.04.12	09.28	04.04.12	11.40	Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. Tripped on relay 86X.
		07.04.12	19.01	07.04.12	21.45	Stopped due to low demand and high frequency.
		12.04.12	17.05	12.04.12	17.45	Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. tripped at both end. Over current & earth fault relay operated at GT end on 160MVA Tx-I. Buch-Holtz relay operated on 160MVA Tx-II at IP Ext.end.
		12.04.12	18.30	19.04.12	09.45	Stopped due to low demand and high frequency.
		25.04.12	21.35	26.04.12	08.40	
		28.04.12	10.02	30.04.12	14.45	
		20.05.12	10.02	20.05.12	20.12	
		02.06.12	21.03	04.06.12	16.15	Machine stopped as per SLDC message to maintain SG .
		04.06.12	16.15	05.06.12	05.45	Machine started but could not be taken on load due to problem in control ckt.
		05.06.12	05.45	06.06.12	11.40	Stopped due to low demand and high frequency.
		12.06.12	06.02	12.06.12	10.44	
		13.06.12	00.02	13.06.12	12.52	
		13.06.12	15.14	13.06.12	17.20	Tripped due to ignition problem.
		17.06.12	07.37	17.06.12	08.25	Tripped with following alarm appeared on CRT: IGV servo current -ve saturation alarm. Compressor bleed valve#1 open alarm. CPD measurement fault alarm.
		18.06.12	19.02	19.06.12	10.54	Stopped due to low demand and high frequency.
		06.07.12	18.28	06.07.12	19.00	Tripped on over temp. trip alarm.
		06.07.12	19.00	13.07.12	14.35	Stopped due to low demand and high frequency.
		14.07.12	01.35	16.07.12	08.09	
		16.07.12	10.25	16.07.12	15.30	
		17.07.12	03.32	17.07.12	07.50	
		18.07.12	02.30	18.07.12	11.50	
		23.07.12	23.01	24.07.12	09.50	
		26.07.12	00.47	26.07.12	11.05	
		27.07.12	18.16	30.07.12	08.30	
		31.07.12	04.02	01.08.12	19.25	
		02.08.12	00.02	04.08.12	12.20	
		04.08.12	17.16	05.08.12	06.00	
		05.08.12	06.00	06.08.12	02.07	Machine stopped to attend CW line leakages.
		12.08.12	09.17	12.08.12	23.59	Stopped due to low demand and high frequency.
		13.08.12	00.00	13.08.12	13.20	Machine not available.
		14.08.12	18.35	15.08.12	20.50	Stopped due to low demand and high frequency.
		16.08.12	07.43	16.08.12	10.56	Machine tripped on exhaust over temp.
		18.08.12	04.54	18.08.12	07.05	Machine tripped due to Grid disturbance
		21.08.12	15.58	21.08.12	16.47	Machine tripped on loss of excitation with HRSG#4.
		22.08.12	14.05	27.08.12	09.45	Stopped due to low demand and high frequency.
		29.08.12	00.07	29.08.12	20.35	
		31.08.12	02.32	31.08.12	10.35	
		01.09.12	03.02	01.09.12	10.05	
		03.09.12	02.00	03.09.12	06.50	
		05.09.12	03.50	07.09.12	13.01	
		12.09.12	23.32	28.09.12	15.52	
		04.10.12	01.32	04.10.12	08.45	
		07.10.12	01.30	15.10.12	18.15	
		27.10.12	10.19	27.10.12	11.42	Tripped due to Grid disturbance
		27.10.12	14.03	27.10.12	14.13	
		27.10.12	17.32	27.10.12	18.10	

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
4	30	05.11.12	20.05	06.11.12	17.23	Stopped due to low demand and high frequency.
		19.11.12	11.45	21.11.12	21.28	
		24.11.12	20.32	25.11.12	15.58	
		01.12.12	20.05	04.12.12	08.40	
		06.12.12	12.50	14.12.12	08.20	
		16.12.12	17.40	16.12.12	19.10	Tripped due to Grid disturbance.
		23.12.12	00.08	24.12.12	10.10	Stopped due to low demand and high frequency
		25.12.12	01.30	25.12.12	15.35	Stopped due to high TAD.
		01.02.13	13.06	01.02.13	13.50	Stopped due to low demand and high frequency
		06.02.13	13.05	09.02.13	11.42	
		09.02.13	17.47	16.02.13	16.26	
		18.02.13	12.17	19.02.13	10.03	
		20.02.13	14.05	26.02.13	04.20	

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
5	30	01.04.12	00.00	02.04.12	15.45	Stopped due to low demand and high frequency.
		04.04.12	09.28	04.04.12	11.58	Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. Tripped on relay 86X.
		06.04.12	00.18	09.04.12	15.31	Machine stopped as generation available in open cycle mode
		12.04.12	17.05	12.04.12	18.20	Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. tripped at both end. Over current & earth fault relay operated at GT end on 160MVA Tx-I. Buch-Holtz relay operated on 160MVA Tx-II at IP Ext.end.
		29.04.12	21.37	02.05.12	13.15	Stopped due to low demand and high frequency
		04.05.12	22.07	04.05.12	22.55	Machine tripped on Field fail alarm and Electrical trouable normal shut down
		04.05.12	23.24	09.05.12	17.10	Machine again tripped on Field fail alarm and Electrical trouble normal shut down. Machine inspected and Alternate DC supply provided but Diesel engine did not started-I decided to open the diesel Engine.
		09.05.12	22.10	10.05.12	02.20	Tripped on field fail alarm. Elect. Trouble normal shut down.
		06.06.12	13.30	06.06.12	14.00	Tripped on false LTTH high alarm. The Temperature switch is malfunctioning.
		07.06.12	13.36	09.06.12	06.15	Stopped due to low demand and high frequency
		13.07.12	12.38	13.07.12	12.50	GT#5 came on FSNL as the 66 KV bus became dead due tripping of 160 MVA ICT I & II due to Grid disturbance
		17.07.12	17.35	17.07.12	22.57	Tripped on gas fuel hydraulic pressure low alarm.
		30.07.12	02.35	30.07.12	02.40	GT#5 came on FSNL as the 66 KV bus became dead due tripping of 160 MVA ICT I & II due to Grid disturbance
		31.07.12	13.50	31.07.12	13.52	GT#5 came on FSNL due to under frequency
		05.08.12	06.16	06.08.12	03.15	Machine stopped to attend CW line leakages.
		15.08.12	09.16	15.08.12	21.25	Stopped due to low demand and high frequency
		16.08.12	02.15	16.08.12	10.50	
		16.08.12	14.46	22.08.12	23.59	
		25.08.12	14.32	02.09.12	10.40	
		07.09.12	13.05	12.09.12	18.25	
		13.09.12	09.45	13.09.12	10.12	Tripped due to 160MVA Txf.-2 manually tripped at I.P.Ext. without informing GTPS.
		15.09.12	04.55	01.10.12	02.50	Stopped due to low demand and high frequency
		03.10.12	22.50	31.12.12	23.59	
		21.02.13	04.01	21.02.13	07.41	Machine tripped in false alarm of generator differential relay

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
6	**30**	01.04.12	00.00	02.04.12	15.50	Stopped due to low demand and high frequency
		04.04.12	05.01	04.04.12	19.42	
		06.04.12	00.18	09.04.12	15.35	
		10.04.12	00.07	10.04.12	11.50	
		12.04.12	17.05	12.04.12	21.25	Machine tripped due to jerk observed in C/R.Both 160MVA Trs. tripped at both end. Over current & earth fault relay operated at GT end on 160MVA Tx-I. Buch-Holtz relay operated on 160MVA Tx-II at IP Ext.end.
		25.04.12	01.45	25.05.12	20.25	Stopped due to low demand and high frequency
		30.04.12	09.45	02.05.12	14.25	
		22.05.12	12.52	22.05.12	22.20	Tripped due to failure of MOV,due to which battery voltage fluctuated at computer screen from 103V to 118V.The following alarms appeared:- -ve phase sequence & Condensate level high temp.
		03.06.12	02.16	03.06.12	07.55	Tripped due to failure of controllers.
		19.06.12	21.02	20.06.12	10.32	Stopped due to low demand and high frequency.
		28.06.12	17.20	28.06.12	19.20	Tripped manually due to sudden fire in window A/C of GT#6 which was installed in GAC(module side)
		13.07.12	12.38	13.07.12	13.43	GT#6 tripped on reverse power as the 66 KV bus became dead due tripping of 160 MVA ICT I & II due to Grid disturbance
		26.07.12	22.03	27.07.12	11.00	Machine stopped due to leakage of lube oil observed in the TAC.
		26.07.12	22.03	27.07.12	10.55	Machine stopped due to oil leakages.
		30.07.12	00.15	30.07.12	05.40	Stopped due to low demand and high frequency.
		31.07.12	13.09	31.07.12	14.14	Tripped on under voltage
		05.08.12	06.14	05.08.12	21.15	Machine stopped to attend CW line leakages.
		15.08.12	09.18	15.08.12	21.28	Stopped due to low demand and high frequency.
		16.08.12	02.15	16.08.12	11.00	
		16.08.12	14.46	18.08.12	14.50	
		19.08.12	03.04	22.08.12	07.59	
		24.08.12	02.05	24.08.12	09.50	
		25.08.12	14.32	29.08.12	20.40	
		03.09.12	02.05	03.09.12	10.45	
		05.09.12	04.01	10.09.12	10.40	
		15.09.12	05.10	01.10.12	01.10	
		02.10.12	12.45	03.10.12	12.50	
		03.10.12	19.20	05.10.12	20.38	
		05.10.12	22.15	04.11.12	18.00	
		04.11.12	18.00	11.05.12	20.15	Not available due to problem in diesel engine.
		05.11.12	20.15	25.12.12	13.45	Stopped due to low demand and high frequency.
		26.12.12	00.15	08.01.13	15.40	
		09.01.13	03.05	09.01.13	15.30	
		17.01.13	21.30	01.02.13	12.25	
		01.02.13	13.25	02.02.13	12.44	
		02.02.13	14.50	02.02.13	16.45	Tripped on protection fuse failure 50 PR alarm appeared on panel.
		09.02.13	13.00	09.02.13	17.15	Stopped due to low demand and high frequency.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG-1	30	04.04.12	09.28	04.04.12	15.20	Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. Tripped on relay 86X.
		08.04.12	17.00	08.04.12	20.18	Machine tripped due to jerk observed in C/R.160MVA Trf. No.2 tripped.
		08.04.12	22.32	08.04.12	23.20	Machine tripped due to low vaccum.
		12.04.12	17.05	12.04.12	20.57	Machine tripped due to jerk observed in C/R.Both 160MVA Trs. tripped at both end. Over current & earth fault relay operated at GT end on 160MVA Tx-I. Buch-Holtz relay operated on 160MVA Tx-II at IP Ext.end.
		22.04.12	07.46	22.04.12	15.05	Machine tripped suddenly ,all parameters were normal. Following alarms appeared: control oil pressure very low,trip oil pressure very low & turbine shaft vibration very high 176.
		03.05.12	01.12	03.05.12	02.29	Tripped on hot well level very high.
		06.05.12	14.25	06.05.12	15.12	Stopped to attend lube oil leakages.
		08.05.12	22.12	08.05.12	22.55	parameters of STG#1 got freezed. As per AM (C&I) all BKs & FV01 should be in line B. while checking all BKs & FV01 from CRA 01 to CRc 04 pannel were found in line A.While changing from A to Line B, machine tripped on Hot well level very high. Machine also tripped on same fault on 03/05/2012
		12.05.12	17.28	12.05.12	19.28	160 MVA Tx-I tripped in jerk at GT end due to which GT#1 & 2 came on FSNL and STG#1 tripped.
		23.05.12	14.05	23.05.12	18.05	Tripped due to false alarm of cond .Hot well level very high.
		24.05.12	22.35	24.05.12	23.20	Tripped on class-A relay appeared on DDC room pannel.
		27.05.12	19.20	27.05.12	20.35	Tripped due to false alarm of cond.Hot well level very high.The following relays appeared in DDC room: Gen. class A-timer for 32G2A,Gen.class-B-tripp relay86GB.
		06.06.12	12.40	06.06.12	15.25	Tripped in emergency while developing the load 20 MW load became zero.
		06.06.12	16.15	06.06.12	17.40	Tripped without any alarm .Relay 86GB appeared in DDC room.
		13.07.12	12.38	13.07.12	14.20	Machine tripped as the 66 KV bus became dead due tripping of 160 MVA ICT I & II due to Grid disturbance
		30.07.12	02.35	30.07.12	08.15	Machine tripped as the 66 KV bus became dead due tripping of 160 MVA ICT I & II due to Grid disturbance
		31.07.12	13.02	31.07.12	16.15	Machine tripped on low vaccum the load on GTs reduced due to tripping of 160 MVA ICT I& II on under frequency relay operated.
		05.08.12	06.24	05.08.12	23.25	Machine stopped to attend CW line leakages.
		18.08.12	04.54	18.08.12	09.10	Machine tripped due to Grid disturbance
		30.08.12	06.28	30.08.12	07.15	Machine tripped on class-A relay is operated.
		30.08.12	08.10	30.08.12	08.50	.
		02.09.12	03.45	02.09.12	04.23	Tripped due to malfunctioning of MS-13 valve
		02.09.12	10.45	10.09.12	14.45	Stopped due to low demand and high frequency
		13.09.12	09.45	13.09.12	11.12	Tripped due to 160MVA Txf.-2 manually tripped at I.P.Ext. without informing GTPS.
		28.09.12	20.55	03.10.12	16.55	Stopped due to low demand and high frequency
		12.10.12	17.44	12.10.12	19.43	Tripped due to C & I Problem
		22.10.12	19.00	25.10.12	12.45	Stopped due to low demand and high frequency
		25.10.12	12.45	25.10.12	22.00	Boiler #2 not available due to problem in AC AOP of G.T. -2
		14.11.12	14.26	16.11.12	23.00	Stopped due to low demand and high frequency
		13.12.12	12.05	13.12.12	15.00	Tripped at high vibration
		16.12.12	05.22	16.12.12	09.15	Tripped due to Grid disturbance.
		16.12.12	13.08	16.12.12	14.32	Tripped on class- A trip.
		16.12.12	15.22	16.12.12	17.20	Tripped due to Grid disturbance.
		16.12.12	17.40	16.12.12	18.00	.
		17.12.12	00.00	17.12.12	18.00	Due to disturbance of grid connectivity,STG#1 has developed problem. It is out of service.
		17.12.12	18.00	19.12.12	19.35	Stopped due to low demand and high frequency
		31.01.13	17.05	28.02.13	23.59	

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG-2	30	01.04.12	00.00	02.04.12	16.25	Stopped due to low demand and high frequency
		04.04.12	09.28	04.04.12	12.50	Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. Tripped on relay 86X.
		07.04.12	19.01	04.07.12	22.45	Stopped due to low demand and high frequency.
		08.04.12	17.00	08.04.12	18.51	Machine tripped due to jerk observed in C/R.160MVA Trf. No.2 tripped.
		12.04.12	17.05	12.04.12	23.15	Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. tripped at both end. Over current & earth fault relay operated at GT end on 160MVA Tx-I. Buch-Holtz relay operated on 160MVA Tx-II at IP Ext.end.
		12.04.12	23.15	19.04.12	12.25	Stopped due to low demand and high frequency
		25.05.12	21.35	26.4.12	10.40	
		28.04.12	10.02	30.04.12	09.30	
		20.05.12	10.02	20.05.12	18.00	Machine stopped to attend the leakages.
		20.05.12	18.00	20.05.12	22.15	Stopped due to low demand and high frequency
		03.06.12	18.15	04.06.12	18.25	
		18.06.12	20.32	19.06.12	12.58	
		20.06.12	14.58	20.06.12	15.21	Tripped due to sudden fall of vaccum
		28.06.12	02.32	28.06.12	03.54	Tripped due to hot well level high
		06.07.12	18.35	06.07.12	19.00	Tripped due to operation of Generator transformer standby earth fault 64SGT relay. It is expected that this relay operated due to atmospheric lightening.
		06.07.12	19.00	13.07.12	18.02	Stopped due to low demand and high frequency.
		14.07.12	01.35	16.07.12	10.20	
		30.07.12	02.35	30.07.12	08.40	Machine tripped as the 66 KV bus became dead due tripping of 160 MVA ICT I & II due to Grid disturbance
		31.07.12	13.02	31.07.12	16.46	Machine tripped on low vaccum the load on GTs reduced due to tripping of 160 MVA ICT I& II on under frequency relay operated.
		05.08.12	06.05	06.08.12	00.58	Machine stopped to attend CW line leakages.
		18.08.12	04.54	18.08.12	09.10	Machine tripped due to Grid disturbance
		23.08.12	05.16	28.08.12	12.30	Stopped due to low demand and high frequency
		01.09.12	00.00	01.09.12	00.40	Machine stopped since turbine parameters were not available
		13.09.12	00.30	28.09.12	20.55	Stopped due to low demand and high frequency
		08.10.12	13.55	15.10.12	20.25	
		27.10.12	10.19	27.10.12	12.26	Tripped due to grid disturbance
		27.10.12	14.03	27.10.12	15.25	
		27.10.12	17.32	27.10.12	19.30	
		19.11.12	13.35	22.11.12	00.07	Stopped due to low demand and high frequency
		24.11.12	20.32	25.11.12	18.40	
		01.12.12	20.05	04.12.12	11.52	
		06.12.12	12.50	12.12.12	12.25	
		14.12.12	09.40	14.12.12	09.55	Tripped on exhaust pressure very high.
		16.12.12	05.22	16.12.12	09.20	Tripped due to Grid disturbance.
		16.12.12	15.22	16.12.12	16.50	
		16.12.12	17.40	16.12.12	21.15	
		23.12.12	00.10	23.12.12	17.10	Stopped due to low demand and high frequency
		23.12.12	21.40	24.12.12	12.27	Tripped due to tripping of GT#3
		09.01.13	05.25	20.01.13	13.15	Stopped due to low demand and high frequency
		11.02.13	13.40	16.02.13	19.45	
		18.02.13	12.17	19.02.13	11.32	
		20.02.13	14.05	26.02.13	06.05	

STG-3	**30**	01.04.12	00.00	02.04.12	21.25	Stopped due to low demand and high frequency
		04.04.12	09.28	04.04.12	22.20	Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. Tripped on relay 86X.
		06.04.12	00.18	09.04.12	18.15	Machine stopped due to non availability of DC EOP.
		12.04.12	17.05	12.04.12	19.48	Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. tripped at both end. Over current & earth fault relay operated at GT end on 160MVA Tx-I. Buchholz relay operated on 160MVA Tx-II at IP Ext.end.
		20.04.12	14.00	20.04.12	15.50	Machine stopped to attend oil leakages in Governing system.
		30.04.12	09.45	02.05.12	18.35	Stopped due to low demand and high frequency
		26.05.12	14.05	26.05.12	17.35	Machine stopped to attend oil leakage from glass of bearing no.1 drain line(return line)
		07.06.12	12.40	09.06.12	08.15	Stopped due to low demand and high frequency
		06.07.12	18.35	06.07.12	19.50	Tripped due to operation of Generator transformer standby earth fault 64SGT relay. It is expected that this relay operated due to atmospheric lightening.
		13.07.12	12.38	13.07.12	15.58	Machine tripped as the 66 KV bus became dead due tripping of 160 MVA ICT I & II due to Grid disturbance
		30.07.12	02.35	30.07.12	08.35	Machine tripped as the 66 KV bus became dead due tripping of 160 MVA ICT I & II due to Grid disturbance
		31.07.12	13.02	31.07.12	16.22	Machine tripped on low vaccum the load on GTs reduced due to tripping of 160 MVA ICT I& II on under frequency relay operated.
		05.08.12	06.12	07.08.12	02.35	Machine stopped to attend CW line leakages.
		13.08.12	14.27	13.08.12	17.43	Machine tripped on high exhaust temperature. The vaccum reduced due to malfunctioning of MS-13. Other line was not available for operation.
		15.08.12	09.16	16.08.12	00.10	Machine stopped as per SLDC message to maintain SG .
		16.08.12	00.48	22.08.12	11.20	Machine tripped due to axial shift high alarm.
		25.08.12	14.32	30.08.12	00.10	Machine stopped as per SLDC message to maintain SG .
		30.08.12	14.05	30.08.12	16.25	Machine stopped to attend ejector leakages.
		07.09.12	13.05	10.09.12	12.40	Machine stopped as per SLDC message to maintain SG .
		15.09.12	05.10	01.10.12	03.35	Stopped as per SLDC message
		03.10.12	22.48	09.01.13	04.20	Shutdown for major overhauling
		17.01.13	21.30	31.01.13	16.25	Stopped due to low demand and high frequency
		04.02.13	12.28	04.02.13	13.40	Tripped due to Hot well level high/low vaccum .
		10.02.13	20.36	10.02.13	21.45	Tripped turbine trip CH-2 alarm.
		10.02.13	22.55	11.02.13	01.35	Tripped turbine trip CH-2 alarm.

(C) PRAGATI STATION

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	104	14.04.12	14:22	16.04.12	5.40	Stopped due to low demand and high frequency
		27.05.12	3:00	27.05.12	11.44	
		28.05.12	6:25	28.05.12	17.03	Tripped on internal fault
		07.06.12	23:18	08.06.12	0.26	
		08.06.12	1:41	08.06.12	5.10	
		16.06.12	9:17	16.06.12	13.29	
		23.06.12	10:17	23.06.12	12.12	
		23.06.12	17:38	23.06.12	18.32	
		26.06.12	18:00	26.06.12	19.31	
		27.06.12	9:31	27.06.12	12.19	
		20.07.12	21:24	20.07.12	23.16	
		30.07.12	2:35	30.07.12	8.49	Grid Black-out
		31.07.12	13:02	31.07.12	15.43	
		10.08.12	6:00	17.08.12	0.41	Stopped for CI
		31.10.12	12:57	31.10.12	17.55	
		24.11.12	16:17	24.11.12	17.12	GT#1 & STG tripped on grid disturbance on bus-I dead
		30.11.12	3:07	30.11.12	4.13	
		15.12.12	9:45	15.12.12	14.17	GT#1 stopped for Inlet Air Filters replacement.
		16.12.12	5:25	16.12.12	7.28	Tripped due to Grid disturbance
		16.12.12	15:26	16.12.12	16.41	
		16.12.12	17:45	16.12.12	20.53	
		04.02.13	11:15	04.02.13	13.12	Tripped on internal fault
2	104	03.04.12	19:07	03.04.12	19.47	Tripped on on grid disturbance
		10.04.12	17:00	10.04.12	17.51	
		12.05.12	17:28	12.05.12	17.57	
		16.05.12	11:28	16.05.12	12.19	
		03.06.12	3:00	03.06.12	9.00	Stopped due to low demand and high frequency
		27.06.12	9:31	27.06.12	10.35	Tripped on internal fault
		01.07.12	4:00	01.07.12	10.43	Stopped due to low demand and high frequency
		06.07.12	18:50	07.07.12	12.28	
		13.07.12	12:40	13.07.12	13.35	Tripped due to Grid disturbance
		30.07.12	2:38	30.07.12	8.42	
		31.07.12	13:02	31.07.12	15.40	
		18.08.12	0:00	29.08.12	1.44	Stopped for HGPI
		31.08.12	22:38	31.08.12	23.00	Tripped on internal fault
		27.10.12	10:19	27.10.12	10.34	GT#2 & STG tripped on grid disturbance on bus-II
		27.10.12	14:03	27.10.12	14.22	
		27.10.12	17:36	27.10.12	18.00	
		14.12.12	9:57	14.12.12	15.06	GT#2 stopped for Inlet Air Filters replacement.
		16.12.12	5:25	16.12.12	6.48	
		16.12.12	15:26	16.12.12	16.36	
		16.12.12	17:26	16.12.12	20.50	

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG	122	03.04.12	19:26	03.04.12	23.26	Tripped on on grid disturbance
		10.04.12	17:00	10.04.12	18.04.	
		12.05.12	17:28	12.05.12	18.48	
		16.05.12	11:28	16.05.12	12.25	
		10.06.12	3.05	10.06.12	9.46	Stopped due to low demand and high frequency
		10.06.12	12.30	10.06.12	15.12	Stopped due to internal fault
		27.06.12	9:31	27.06.12	11.15	Tripped on internal fault
		13.07.12	12:40	13.07.12	14.12	Tripped due to Grid disturbance
		30.07.12	2:35	30.07.12	13.41	
		31.07.12	13.02	31.07.12	20.58	
		09.08.12	9:43	09.08.12	16.40	Tripped on internal fault
		18.08.12	0:16	23.08.12	0.45	Stopped for PHE connection of Gt#1&GT#2
		31.08.12	22:38	31.08.12	24.00	Tripped on internal fault
		01.09.12	0:00	01.09.12	12.56	
		29.09.12	21:08	29.09.12	22.30	
		10.10.12	9:40	10.10.12	10.27	
		20.10.12	5:01	10.10.12	20.30	
		27.10.12	10:19	27.10.12	11.22	
		27.10.12	14:03	27.10.12	15.07	
		27.10.12	17:36	27.10.12	18.40	
		31.10.12	12:57	31.10.12	13.58	
		24.11.12	16:17	24.11.12	17.42	
		30.11.12	3.07	30.11.12	7.45	
		30.11.12	7.45	30.11.12	19.08	delayed due to leakage in generator cooler.
		05.12.12	4.55	05.12.12	13.24	Tripped on internal fault
		16.12.12	5.25	16.12.12	7.42	
		16.12.12	15.26	16.12.12	17.30	
		16.12.12	17.45	16.12.12	21.31	
		21.12.12	10.26	21.12.12	20.35	STG Stopped to attend High vibration of exciter.
		15.01.13	6.47	15.01.13	10.18	Tripped on internal fault
		16.01.13	2.38	16.01.13	5.28	
		17.01.13	8.27	17.01.13	13.05	
		23.01.13	14.45	24.01.13	01.24	To attend internal fault

(D) BADARPUR THERMAL POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	95	24-04-12	18:35	25-04-12	18:15	Reserve shutdown
		13-05-12	13:12	13-05-12	13:43	Furnace Disturbance
		26-05-12	8:32	26-05-12	11:10	Grid Disturbance
		26-05-12	12:37	29-05-12	1:25	Water wall Tube Leakage
		20-07-12	22:02	22-07-12	13:00	Water wall Tube Leakage
		22-07-12	13:00	23-07-12	3:07	CW Pump not available
		30-07-12	6:58	30-07-12	10:57	Grid Disturbance
		31-07-12	13:08	31-07-12	16:48	
		10-08-12	12:08	10-08-12	13:25	Control Supply Cable fault
		12-08-12	11:57	12-08-12	14:20	
		14-08-12	19:00	16-08-12	10:43	Reserve shutdown
		21-08-12	22:05	21-08-12	22:52	Furnace Disturbance
		06-09-12	16:10	07-09-12	10:53	Leakage in drum Manhole
		18-09-12	9:32	18-09-12	10:53	Furnace Disturbance
		28-09-12	23:43	01-10-12	12:25	Reserve shutdown
		05-10-12	5:45	05-10-12	6:22	Furnace Disturbance
		12-10-12	8:23	12-10-12	9:11	
		14-10-12	6:32	14-10-12	7:12	
		23-10-12	16:54	29-10-12	9:00	Reserve shutdown
		29-10-12	9:00	19-11-12	8:54	Planned shutdown
		19-11-12	10:21	19-11-12	10:47	Furnace Disturbance
		21-11-12	19:35	21-11-12	20:35	
		24-11-12	7:28	07-12-12	17:33	Reserve shutdown
		17.01.13	09.01	21.01.13	06.16	
		04.02.13	13.05	11.02.13	12.11	
		15.02.13	21.37	26.02.13	05.50	
2	95	05-04-12	3:30	05-04-12	12:27	Loss of excitation field
		15-05-12	12:05	19-05-12	18:30	CW Shortage
		26-05-12	8:32	26-05-12	11:43	Grid Disturbance
		06-06-12	19:08	06-06-12	19:55	PC feeder trip on Low LT Voltage caused by system jerk
		06-07-12	19:20	09-07-12	10:05	Reserve shutdown
		30-07-12	2:35	30-07-12	5:27	Grid Disturbance
		30-07-12	6:58	30-07-12	11:29	
		31-07-12	13:01	31-07-12	17:05	
		18-08-12	22:59	18-08-12	23:55	Furnace Disturbance
		29-08-12	9:30	01-09-12	10:00	Reserve shutdown
		01-09-12	10:00	17-09-12	0:17	Planed shutdown Boiler overhauling
		17-09-12	6:43	17-09-12	18:22	Unit stopped due to coal bunker chocking
		22-09-12	11:52	24-09-12	10:47	Reserve shutdown
		24-09-12	11:46	24-09-12	13:11	Low Condenser Vacuum
		29-09-12	13:40	01-10-12	10:24	Reserve shutdown
		13-10-12	0:00	13-10-12	19:24	
		16-10-12	23:05	16-10-12	23:54	Furnace Disturbance
		23-11-12	10:24	23-11-12	11:05	
		27-11-12	23:59	07-12-12	21:20	Reserve shutdown
		10-12-12	9:44	13-12-12	2:00	Platen SH Leakage
		11.02.13	06.31	19.02.13	00.00	LP Turbine Blade failure
		20.02.13	00.00	26.02.13	10.26	Reserve shutdown

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
3	95	01-04-12	23:45	22-04-12	17:12	Planned shutdown
		22-04-12	18:21	22-04-12	21:46	Generator Over Fluxing
		12-05-12	6:04	13-05-12	5:17	Economiser Tube leakage
		13-05-12	20:22	13-05-12	21:25	Furnace Disturbance
		26-05-12	8:32	26-05-12	15:20	Grid Disturbance
		27-05-12	7:20	27-05-12	8:05	Furnace Disturbance
		30-05-12	15:05	30-05-12	15:40	
		02-06-12	11:46	03-06-12	16:15	CW Shortage
		09-06-12	23:50	10-06-12	10:43	Fuurnace plate red hot near burner
		15-06-12	7:40	15-06-12	8:50	Furnace Disturbance
		28-06-12	6:15	28-06-12	12:55	Furnace Disturbance
		30-07-12	6:58	30-07-12	10:25	Grid Disturbance
		31-07-12	13:08	31-07-12	16:18	
		31-07-12	18:35	31-07-12	19:17	Low Condenser Vacuum
		31-07-12	20:05	01-08-12	0:40	Excitation System Problem
		04-08-12	1:32	04-08-12	5:40	Furnace Disturbance
		04-08-12	19:34	04-08-12	20:25	
		10-08-12	7:15	10-08-12	8:15	
		14-08-12	12:44	16-08-12	11:25	Reserve shutdown
		16-08-12	15:44	16-08-12	16:36	Furnace Disturbance
		18-08-12	6:15	19-08-12	1:05	Economiser Tube leakage
		21-08-12	22:28	21-08-12	23:18	Furnace Disturbance
		23-08-12	4:42	30-08-12	20:32	Reserve shutdown
		30-08-12	20:37	31-08-12	20:25	Generator Stator Earth Fault
		13-10-12	14:57	13-10-12	15:42	Furnace Disturbance
		14-10-12	6:52	14-10-12	7:50	
		20-10-12	9:36	20-10-12	10:15	
		21-10-12	8:27	29-10-12	6:43	Reserve shutdown
		14-11-12	8:56	24-11-12	5:08	
		29-11-12	5:05	29-11-12	6:06	Furnace Disturbance
		16-12-12	0:07	20-12-12	11:50	Reserve shutdown
		16.01.13	23.58	21.01.13	05.43	
		22.01.13	12.23	25.01.13	13.37	
		04.02.13	12.26	26.02.13	07.11	
4	210	21-05-12	7:12	23-05-12	15:35	CW Shortage
		26-05-12	8:32	26-05-12	11:28	Grid Disturbance
		06-07-12	7:35	06-07-12	9:33	Excitation System Problem
		30-07-12	2:35	30-07-12	18:00	Grid Disturbance
		31-07-12	13:01	31-07-12	17:25	
		09-08-12	22:57	12-08-12	7:52	Reheater Tube Leakage
		12-08-12	8:10	12-08-12	15:56	BFP 4C breaker bursting
		23-08-12	0:15	23-08-12	1:47	Furnace Disturbance
		23-08-12	2:55	23-08-12	4:05	
		23-08-12	9:37	23-08-12	13:45	
		25-08-12	23:18	26-08-12	0:48	
		18-09-12	2:05	18-09-12	4:05	
		18-09-12	4:05	18-09-12	14:35	Control Supply Cable fault
		26-11-12	9:22	26-11-12	21:18	Relay Malfunction
		07-12-12	21:47	10-12-12	16:30	Reserve shutdown
		10-12-12	16:30	10-12-12	17:00	Seal Oil system
		10-12-12	17:00	26-12-12	16:42	Planned shutdown
		31-12-12	13:32	02.01.13	17.50	Steam Cooled screen tube leakage
		24.02.13	09.10	24.02.13	11.14	Furnance disturbance

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
5	210	28-04-12	12:40	30-04-12	6:25	Reserve shutdown
		19-05-12	14:48	21-05-12	5:45	CW Shortage
		26-05-12	8:32	26-05-12	11:35	Grid Disturbance
		03-06-12	11:46	27-06-12	20:37	Plan shutdown boiler overhauling
		25-07-12	20:34	26-07-12	21:57	Water wall Tube Leakage
		27-07-12	14:51	27-07-12	16:04	Both BFPs tripped
		30-07-12	6:58	30-07-12	15:10	Grid Disturbance
		31-07-12	13:12	31-07-12	18:01	
		01-08-12	19:30	01-08-12	22:15	Furnace Disturbance
		15-09-12	21:28	16-09-12	13:30	Water wall Tube Leakage
		16-09-12	13:30	17-09-12	9:08	Reserve shutdown
		03-10-12	11:33	04-10-12	16:00	Water wall Tube Leakage
		13-10-12	15:13	14-10-12	4:58	
		06-11-12	16:12	06-11-12	17:06	Furnace Disturbance
		14-12-12	9:27	15-12-12	19:46	Water wall Tube Leakage
		19-12-12	19:42	21-12-12	12:19	Generator Stator Earth Fault
		06.01.13	23.25	08.01.13	00.30	BTL – LTSH tube leakage
		24.02.13	14.53	24.02.13	21.53	Furnance disturbance

(E) BAWANA CCGT POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	216	20.04.12	15:41	20.04.12	19:25	Excessive Fuel Trip
		12.05.12	13:29	12.05.12	16:03	Auxiliary Failure due to bay 403 trip
		18.05.12	00:48	18.05.12	4:08	Lub Oil pressure low on GT#1 due to LT trippings
		27.05.12	18:13	27.05.12	20:18	High GT exhaust spread temperature
		31.05.12	19:00	01.06.12	0:26	GT#1 TRIP due to Combustion trouble and high exhaust temperature spread trip at frequency of 50.3Hz
		12.06.12	09:44	14.06.12	18:26	Rotor eath fault
		23.06.12	12:19	23.06.12	17:45	Fire protection trip
		25.06.12	06:01	26.06.12	8:29	High exhaust temperature trip
		18.07.12	2:23	18.07.12	4:20	High GT exhaust spread temperature
		31.07.12	13:00	31.07.12	16:05	Grid Failure
		03.08.12	14:56	03.08.12	16:20	Lub oil pressure low due to LT failure
		28.09.12	03:38	28.09.12	6:35	High GT exhaust temperature
		06.10.12	9:30	06.10.12	17:18	RST diagnostic alarm , 125V DC ground on GT,STG tripped on Customer Trip (GT trip)
		06.10.12	19:13	07.10.12	0:01	GT trip due to lub oil pr low
		15.10.12	14:49	15.10.12	18:08	Gas fuel inter valve press(P2) low
		15.10.12	19:24	15.10.12	21:35	Lub oil Pr low trip
		15.10.12	22:20	16.10.12	2:39	Rotor earth fault
		17.10.12	10:43	17.10.12	14:23	GT tripped on customer trip
		18.10.12	21:59	19.10.12	16:19	Generator Protection due to rotor earth fault
		8.11.12	13:16	08.11.12	18:06	Auxiliary Failure due to LT failure
		19.11.12	22:36	20.11.12	4:00	Loss of Flame
		30.11.12	18:50	30.11.12	20:24	Purge valve fault
		23.12.12	10:35	29.12.12	10:55	Tripped on high DP, After this GT#2 was taken into service,
		05.02.13	03.13	05.02.13	07.58	400 KV DTL lines tripped Generator frequency touched above 53HzGT unloaded and tripped

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	216	19.07.12	11:34	19.07.12	15.45	Customer trip(IP drum level low, D/D position>2%)
		27.02.13	14.28	Load on G.T.-1		High fuel gas temperature

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG	245	20.04.12	15:41	20.04.12	19:25	HRSG #1 tripped due to GT#1 trip
		24.04.12	08:03	24.04.12	19:08	STG#1 tripped on very high transformer oil temperature
		12.05.12	13:29	13.05.12	3:27	HRSG tripped on GT#1 trip
		18.05.12	00:48	21.05.12	23:50	HRSG tripped on GT#1 trip
		27.05.12	18:13	27.05.12	23:21	ST trip due to GT Trip
		30.05.12	11:39	30.05.12	14:35	Generator cold gas temperature high due to PHE choking
		30.05.12	11:18	31.05.12	1:32	IP Drum level high
		31.05.12	19:00	31.05.12	1:32	ST trip due to GT trip
		12.06.12	9:44	14.06.12	18:26	GT Tripped
		23.06.12	12:19	23-01-00	17:45	ST trip due to GT trip
		02.07.12	19:45	03.07.12	1:39	Generator breaker tripped
		17.07.12	09:28	17.07.12	15:26	ST trip due to GT trip
		18.07.12	2:23	18.07.12	23:21	ST trip due to GT trip
		24.07.12	19:18	00-01-00	20:03	HMI emergency trip
		31.07.12	13:00	31.07.12	17:25	Grid Failure
		03.08.12	14:56	03.08.12	20:25	Lub oil pressure low
		28.09.12	03:38	29.09.12	14:18	ST trip due to GT trip
		06.10.12	09:30	07.10.12	1:46	RST diagnostic alarm , 125V DC ground on GT,STG tripped on Customer Trip (GT trip)
		15.10.12	14:49	16.10.12	4:10	ST trip due to GT trip
		17.10.12	10:43	17.10.12	16:19	GT tripped on customer trip
		18.10.12	21:59	29.10.12	11:44	STG trip on GT trip, under backing down also.
		08.11.12	13:16	08.11.12	20:13	LT breakers 1 DA, 2DA, 1KA tripped
		29.11.12	22:27	30.11.12	6:53	Rotor earth fault
		30.11.12	18:50	30.11.12	21:52	ST trip due to GT trip
		02.12.12	13:21	02.12.12	17:13	STG#1 tripped on low forward power relay(TMR became faulty & load jumped from 60MW to 90MW)
		08.12.12	17:08	08.12.12	19:28	STG#1 was running in stable condition It tripped due to HVCB opening
		18.12.12	03:25	18.12.12	10:43	Under Excitation fault
		23.12.12	10:31	24.12.12	0:44	STG #1 tripped on GT#1 trip
		26.12.12	21:35	27.12.12	6:40	Tripped due to speed pick up problem
		27.12.12	09:32	27.12.12	13:46	Tripped due to speed pick up problem
		29.12.12	18:02	29.12.12	18:58	24 Volt supply failure
		09.02.13	16:33	09.02.13	18:04	STG#1 turbine tripped on tripping of HRSG#2 on high LP drum level protection, earlier HRSG#1 had tripped on high HP MS temperature
		11.02.13	17;49	11.02.13	20:29	STG#1 tripped on low vacuum.
		27.02.13	14:28	27.02.13	20:13	ST trip due to GT trip

(E) RITHALA POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	31.8	30.03.12	20:19	02.04.12	17:50	GT1 was started & synchronized with grid at 18:40hrs for STG start-up but it was stopped at 20:19 hrs as per management Decision(TPDDL)
		10.04.12	17:11	11.04.12	6:32	GT-01 circuit breaker got open on overvoltage due to fault at CENNET end
		28.04.12	23:15	01.05.12	15:09	Fuel Gas supplied by RIL was insufficient to run the plant.
		07.05.12	13:52	02.06.12	14:38	due to HRSG-1 GFD trouble. Diverter damper got stuck at 56% open duing triping of STG.
		02.06.12	17:00	04.06.12	13:26	shutdown taken due to high vibration
		04.06.12	17:31	11.06.12	17:39	
		18.06.12	15:20	18.06.12	15:26	GCB opened manually for re-synchronizing as m/c was in islanding mode due to fault at CENNET end.
		22.06.12	19:26	23.06.12	2:53	GT-1 shut down was taken for GT-2 stat up
		23.06.12	23:43	25.06.12	10:56	Lower gas supplied from KG Basin
		25.06.12	15:23	01.07.12	19:22	
		04.07.12	0:03	04.07.12	2:57	GT-1 tripped on "SRV NOT TACKING" alarm.
		04.07.12	11:58	07.07.12	3:19	
		12.07.12	10:42	12.07.12	22:44	Exhaust spread high
		12.07.12	23:07	13.07.12	0:06	Tripping reason not found
		14.07.12	5:42	14.07.12	6:55	At 05:40 hrs RG-5 line tripped and WHRB-1 GFD not closed.
		14.07.12	9:13	14.07.12	11:45	turbine bearing-2 drain oil temperature high(False value)
		17.07.12	2:48	20.07.12	21:40	Lower gas supplied from KG Basin
		22.07.12	3:41	23.07.12	11:15	
		24.07.12	2:35	30.07.12	9:02	
		30.07.12	14:50	30.07.12	15:23	Exhaust thermocouple
		31.07.12	1:39	31.07.12	17:24	Lower gas supplied by KG Basin
		31.07.12	17:29	31.07.12	18:46	'Exhaust thermocouple lock-out'
		31.07.12	18:59	31.07.12	20:18	
		02.08.12	2:35	09.08.12	10:55	Lower gas supplied from KG Basin
		10.08.12	00:46	14.08.12	8:58	
		15.08.12	0:48	21.08.12	10:27	No power Demand as cennet
		25.08.12	2:04	27.08.12	9:03	Lower gas supplied from KG Basin
		01.09.12	5:55	03.09.12	9:01	
		08.09.12	2:01	11.09.12	0:28	
		15.09.12	2:15	21.09.12	8:54	
		22.09.12	00:12	24.09.12	8:57	
		25.09.12	18:35	26.09.12	8:57	Heavy water leakage was observed from ACW pump-2 NRV body (crack formation)
		02.10.12	0:05	15.10.12	9:57	Lower gas supplied from KG Basin
		16.10.12	3:50	16.10.12	6:45	'SRV not tracking trip'
		18.10.12	7:50	22.10.12	9:52	
		24.10.12	5:09	29.10.12	4:07	No schedule have been given by SLDC on Spot gas
		02.11.12	00:08	05.11.12	8:35	
		08.11.12	22:00	10.11.12	5:57	
		10.11.12	02:01	18.11.12	0:27	
		18.11.12	16:09	29.11.12	14:17	
		30.11.12	20:04	10.12.12	9:53	
		10.12.12	16:21	10.12.12	18:14	load gear bearing -1 temp high shut down
		12.12.12	18:04	31.12.12	8:04	No schedule have been given by SLDC on Spot gas
		01.01.13	17.04	Contd.		lube oil temperature high shutdown/No schedule have been given by SLDC on Spot gas after rectification of problem

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	31.8	03.04.12	1:23	04.04.12	22:18	Lower gas supplied from KG Basin
		05.04.12	14:12	06.04.12	22:00	
		07.04.12	12:56	10.04.12	3:28	
		10.04.12	11:15	11.04.12	0:05	
		11.04.12	00:13	11.04.12	0:35	
		11.04.12	13:03	16.04.12	15:54	
		16.04.12	19:46	16.04.12	20:55	
		17.04.12	15:51	28.04.12	19:27	
		01.05.12	15:22	07.05.12	19:46	
		13.05.12	5:52	13.05.12	6:28	
		29.05.12	21:00	29.05.12	21:08	
		01.06.12	17:15	01.06.12	17:17	
		04.06.12	18:59	04.06.12	20:05	
		08.06.12	5:20	08.06.12	6:15	
		11.06.12	11:36	12.06.12	11:09	
		12.06.12	16:15	14.06.12	12:17	
		14.06.12	17:10	23.06.12	19:00	
		27.06.12	12:02	27.06.12	13:04	
		29.06.12	6:36	29.06.12	7:52	
		01.07.12	22:41	04.07.12	16:53	
		06.07.12	17:48	15.07.12	11:03	
		15.07.12	13:02	18.07.12	10:05	
		20.07.12	6:06	20.07.12	18:30	
		21.07.12	16:04	23.07.12	9:02	
		25.07.12	19:06	26.07.12	10:17	
		27.07.12	10:17	27.07.12	11:29	
		28.07.12	3:07	30.07.12	9:31	
		31.07.12	13:23	31.07.12	15:53	
		31.07.12	21:23	01.08.12	11:20	
		02.08.12	2:39	03.08.12	8:55	
		06.08.12	15:18	07.08.12	9:10	
		07.08.12	20:39	08.08.12	8:59	
		08.08.12	17:57	09.08.12	7:39	
		11.08.12	6:09	13.08.12	9:35	
		15.08.12	0:34	15.08.12	21:21	
		18.08.12	8:46	18.08.12	11:30	
		19.08.12	0:11	20.08.12	9:04	
		21.08.12	8:04	10.09.12	9:08	
		10.09.12	14:32	10.09.12	17:17	
		10.09.12	23:13	17.09.12	9:08	
		19.09.12	7:38	19.09.12	10:25	
		20.09.12	13:52	20.09.12	15:40	
		20.09.12	22:04	03.10.12	18:21	
		07.10.12	0:32	09.10.12	9:00	
		13.10.12	0:35	18.10.12	10:15	
		20.10.12	0:10	26.10.12	8:42	
		26.10.12	23:20	29.10.12	1:43	No schedule have been given by SLDC on Spot gas
		30.10.12	17:01	13.11.12	13:51	
		14.11.12	01:21	22.11.12	8:54	
		24.11.12	21:01	26.11.12	13:14	
		28.11.12	00:05	04.12.12	9:58	
		06.12.12	20:59	17.12.12	10:09	
		19.12.12	20:04	24.12.12	9:30	
		26.12.12	19:03	03.01.13	06.44	

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	31.8	04.01.13	15:12	07.01.13	6:01	No schedule have been given by SLDC on Spot gas
		07.01.13	17:07	08.01.13	8:58	
		08.01.13	17:08	09.01.13	8:00	
		09.01.13	17:06	10.01.13	6:16	
		10.01.13	17:04	11.01.13	5:54	
		11.01.13	20:02	16.01.13	9:12	
		17.01.13	08:18	21.01.13	2:46	
		22-01-13	00:12	24.01.13	6:53	
		25-01-13	00:09	29.01.13	5:54	
		30-01-13	15:03	31.01.13	7:58	
		01.02.13	12.06	07.02.13	07.56	
		08.02.13	08.11	20.02.13	10.02	
		20.02.13	10.09	25.02.13	10.37	Gas turbine started for checking of GCV and shut down taken in seven minute due to no despatch schedule given by SLDC
		27.02.13	00.08	CONTD.		Stopped on less demand, available on spot

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG	31.8	03.04.12	1:23	04.04.12	22:18	Lower gas supplied from KG Basin
		05.04.12	14:12	06.04.12	22:00	
		07.04.12	12:56	10.04.12	3:28	
		10.04.12	11:15	11.04.12	0:05	
		11.04.12	00:13	11.04.12	0:35	
		11.04.12	13:03	16.04.12	15:54	
		16.04.12	19:46	16.04.12	20:55	
		17.04.12	15:51	28.04.12	19:27	
		01.05.12	15:22	07.05.12	19:46	
		13.05.12	5:52	13.05.12	6:28	
		29.05.12	21:00	29.05.12	21:08	
		01.06.12	17:15	01.06.12	17:17	
		04.06.12	18:59	04.06.12	20:05	
		08.06.12	5:20	08.06.12	6:15	
		11.06.12	11:36	12.06.12	11:09	
		12.06.12	16:15	14.06.12	12:17	
		14.06.12	17:10	23.06.12	19:00	
		27.06.12	12:02	27.06.12	13:04	
		29.06.12	6:36	29.06.12	7:52	
		01.07.12	22:41	04.07.12	16:53	
		06.07.12	17:48	15.07.12	11:03	
		15.07.12	13:02	18.07.12	10:05	
		20.07.12	6:06	20.07.12	18:30	
		21.07.12	16:04	23.07.12	9:02	
		25.07.12	19:06	26.07.12	10:17	
		27.07.12	10:17	27.07.12	11:29	
		28.07.12	3:07	30.07.12	9:31	
		31.07.12	13:23	31.07.12	15:53	
		31.07.12	21:23	01.08.12	11:20	
		02.08.12	2:39	03.08.12	8:55	
		06.08.12	15:18	07.08.12	9:10	
		07.08.12	20:39	08.08.12	8:59	
		08.08.12	17:57	09.08.12	7:39	
		11.08.12	6:09	13.08.12	9:35	
		15.08.12	0:34	15.08.12	21:21	
		18.08.12	8:46	18.08.12	11:30	
		19.08.12	0:11	20.08.12	9:04	
		21.08.12	8:04	10.09.12	9:08	
		10.09.12	14:32	10.09.12	17:17	
		10.09.12	23:13	17.09.12	9:08	
		19.09.12	7:38	19.09.12	10:25	
		20.09.12	13:52	20.09.12	15:40	
		20.09.12	22:04	03.10.12	18:21	
		07.10.12	0:32	09.10.12	9:00	
		13.10.12	0:35	18.10.12	10:15	
		20.10.12	0:10	26.10.12	8:42	

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG	31.8	26.10.12	23:20	29.10.12	1:43	No schedule have been given by SLDC on Spot gas
		30.10.12	17:01	29.10.12	5:42	
		02.11.12	00:01	05.11.12	12:38	
		08.11.12	21:56	10.11.12	9:45	
		10.11.12	01:55	13.11.12	17:50	
		14.11.12	01:15	18.11.12	6:25	
		18.11.12	16:06	22.11.12	13:59	
		24.11.12	21:01	26.11.12	16:57	
		28.11.12	00:01	29.11.12	17:44	
		30.11.12	04:31	30.11.12	6:35	STG electronic governor failure trip
		30.11.12	19:58	04.12.12	14:04	No schedule have been given by SLDC on Spot gas
		06.12.12	20:59	10.12.12	13:55	
		10.12.12	16:21	10.12.12	19:29	load gear bearing -1 temp high shut down(GT-1)
		12.12.12	17:59	17.12.12	14:05	No schedule have been given by SLDC on Spot gas
		19.12.12	20:00	24.12.12	13:26	
		26-12-12	19:00	31.12.12	11:54	
		01.01.13	17:04	03.01.13	10:05	lube oil temperature high shutdown
		04-01-13	15:08	07.01.13	9:28	No schedule have been given by SLDC on Spot gas
		07-01-13	17:04	08.01.13	11:45	
		08.01.13	17:05	09.01.13	10:45	
		09.01.13	17:03	10.01.13	8:53	
		10.01.13	17:01	11.01.13	8:51	
		11.01.13	19:58	16.01.13	13:35	
		17.01.13	08:15	21.01.13	6:49	
		22.01.13	00:08	24.01.13	10:23	
		25.01.13	00:07	29.01.13	10:00	
		30.01.13	15:01	31.01.13	10:41	
		01.02.13	12.04	07.02.13	11.32	
		08.02.13	08.08	25.02.13	15.09	
		27.02.13	00.01	Contd.		

4 ALLOCATION OF POWER TO DELHI

A) Allocation of power to Delhi from Unallocated quota of Central Sector Generating Stations to Delhi w.e.f. 04.11.2011

Time block 00.00hrs. to 24.00hrs. @ 0% allocation from Unallocated Quota

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	**2**	**3**	**4**	**5**	**6**	**7**	**(8)=(5)+(7)**
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand	1000	150	100	87	0	0	87
Rihand Stage -II	1000	150	126	109	0	0	109
ANTA GPS	419	63	44	41	0	0	41
Auriya GPS	663.36	99	72	67	0	0	67
Dadri GPS	829.78	129	91	85	0	0	85
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	147	735	639	0	0	639
Unchahaar-I TPS	420	20	24	21	0	0	21
Unchahaar-II TPS	420	63	47	41	0	0	41
Unchahaar-III TPS	210	31	29	25	0	0	25
TOTAL	**8782**	**1152**	**2174**	**1902**	**0**	**0**	**1902**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	76	0	0	76
Tanakpur HEP	94	0	12	11	0	0	11
Chamera HEP	540	0	43	41	0	0	41
Chamera-II HEP	300	54	40	38	0	0	38
URI HEP	480	0	53	50	0	0	50
Sewa HEP	120	18	16	15	0	0	15
Dhauli Ganga HEP	280	42	37	35	0	0	35
Dulhasti HEP	390	58	50	48	0	0	48
TOTAL	**3074**	**172**	**351**	**333**	**0**	**0**	**333**
NPC							
Narora APS	440	64	47	41	0	0	41
RAPP(B)	440	66	0	0	0	0	0
RAPP (C)	440	64	56	49	0	0	49
TOTAL	**1320**	**194**	**103**	**89**	**0**	**0**	**89**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	123	0	0	123
THDC							
Tehri Hydro	1000	99	103	89	0	0	89
Koteshwar HEP	200	0	20	19	0	0	19
TOTAL	**1200**	**99**	**123**	**108**	**0**	**0**	**108**
Total	**15876**	**1766**	**2892**	**2556**	**0**	**0**	**2556**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Joint Venture							
Jhajjar TPS	500	38	0	0	0	0	0
Grand Total	**22586**	**1957**	**3182**	**2798**	**0**	**0**	**2798**

B) Allocation of power to Delhi from Unallocated quota of Central Sector Generating Stations to Delhi w.e.f. 19.11.2011

Time block 00.00hrs. to 24.00hrs. @ 0% allocation from Unallocated Quota

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand-I	1000	150	100	87	0	0	87
Rihand Stage -II	1000	150	126	109	0	0	109
Rihand Stage -III	500	75	66	57	0	0	57
ANTA GPS	419	63	44	41	0	0	41
Auriya GPS	663.36	99	72	67	0	0	67
Dadri GPS	829.78	129	91	85	0	0	85
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	147	735	639	0	0	639
Unchahaar-I TPS	420	20	24	21	0	0	21
Unchahaar-II TPS	420	63	47	41	0	0	41
Unchahaar-III TPS	210	31	29	25	0	0	25
TOTAL	**9282**	**1227**	**2240**	**1959**	**0**	**0**	**1959**
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
Chamera-III HEP	231	35	29	28	0	0	28
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	**3305**	**206**	**380**	**361**	**0**	**0**	**361**
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
Koteshwar HEP	400	40	39	37	0	0	37
TOTAL	**1400**	**139**	**142**	**127**	**0**	**0**	**127**
Total	**16807**	**1915**	**3007**	**2660**	**0**	**0**	**2660**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Joint Venture							
Jhajjar TPS	1000	76	231	201	0	0	201
Grand Total	**24017**	**2144**	**3528**	**3102**	**0**	**0**	**3102**

C) Allocation of power to Delhi from Unallocated quota of Central Sector Generating Stations to Delhi w.e.f. 19.01.2011

Time block 00.00hrs. to 24.00hrs. @ 0% allocation from Unallocated Quota

Name of the Stn	Installed capacity	Total Un-allocated	Basic Allocation	Basic Allocation at periphery	Allocation out of Unallocated Quota	Allocation out of Un-allocation Quota at Delhi periphery	Total allocation at Delhi periphery
1	2	3	4	5	6	7	(8)=(5)+(7)
NTPC STATIONS							
Singrauli STPS	2000	300	150	130	0	0	130
Rihand-I	1000	150	100	87	0	0	87
Rihand Stage -II	1000	150	126	109	0	0	109
Rihand Stage -III	500	75	66	57	0	0	57
ANTA GPS	419	63	44	41	0	0	41
Auriya GPS	663.36	99	72	67	0	0	67
Dadri GPS	829.78	129	91	85	0	0	85
Dadri NCTPS (Th)	840	0	756	657	0	0	657
Dadri NCTPS (Th) Stage-II	980	147	735	639	0	0	639
Unchahaar-I TPS	420	20	24	21	0	0	21
Unchahaar-II TPS	420	63	47	41	0	0	41
Unchahaar-III TPS	210	31	29	25	0	0	25
TOTAL	**9282**	**1227**	**2240**	**1959**	**0**	**0**	**1959**
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
Chamera-III HEP	231	35	29	28	0	0	28
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	**3305**	**206**	**380**	**361**	**0**	**0**	**361**
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
Koteshwar HEP	400	40	39	37	0	0	37
TOTAL	**1400**	**139**	**142**	**127**	**0**	**0**	**127**
Total	**16807**	**1915**	**3007**	**2660**	**0**	**0**	**2660**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	19	0	0	19
Kahalgaon	840	0	51	43	0	0	43
Talchar	1000	0	0	0	0	0	0
Tala HEP	1020	153	30	25	0	0	25
Mejia TPS Unit-6	250	0	29	25	0	0	25
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**6210**	**153**	**290**	**242**	**0**	**0**	**242**
Joint Venture							
Jhajjar TPS	1000	76	231	201	0	0	201
Grand Total	**24017**	**2144**	**3528**	**3102**	**0**	**0**	**3102**

5 ALLOCATION OF POWER TO DISCOMS

ALLOCATION OF POWER TO VARIOUS LISCENCEES AS PER ORDER OF DERC AND DECISION OF GNCTD FOR ALLOCATION OF CENTRAL SECTOR STATIONS (DADRI THERMAL & BTPS) AND STATE SECTOR GENERATING STATIONS w.e.f. 01.04.2011.

(Allocation In %)

(A) 10.00hrs. to 17.00hrs.

SOURCES	LICENSEES					
	NDMC	MES	NDPL	BRPL	BYPL	TOTAL
1. Central Sector without Dadri (Th)	0.00	0.00	29.18	43.58	27.24	100.00
2. Dadri (Th)	14.98	0.00	24.18	36.87	23.97	100.00
3. BTPS	15.94	7.09	21.88	33.37	21.72	100.00
4. RPH	0.85	0.00	28.39	42.97	27.79	100.00
5. GT	0.93	0.00	28.28	42.99	27.80	100.00
6. Pragati	26.69	0.00	20.77	31.76	20.7	100.00
7. DVC	0.00	0.00	29.18	43.58	27.24	100.00

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

SOURCES	LICENSEES					
	NDMC	MES	NDPL	BRPL	BYPL	TOTAL
1. Central Sector without Dadri (Th)	0.00	0.00	29.18	43.58	27.24	100.00
2. Dadri (Th)	14.05	0.00	24.18	3687	24.90	100.00
3. BTPS	15.07	7.09	21.88	33.37	22.59	100.00
4. RPH	0.00	0.00	28.390	42.97	28.64	100.00
5. GT	0.00	0.00	28.28	42.99	28.73	100.00
6. Pragati	25.76	0.00	20.77	31.76	21.71	100.00
7. DVC	0.00	0.00	29.18	43.58	27.24	100.00

6 POWER AVAILABILITY-DEMAND POSITION AT THE TIME OF PEAK DEMAND MET DURING FEBRUARY 2013

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	Bawana	Total						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)= (3) to (8)	(10)	(11)	(12)= (11) - (10)	(13)= (11)+ (12)	(14)	(15)= (13)+ (14)
1	09.59.52	104	126	319	21	218	592	1380	2210	2286	-76	3590	0	3590
2	09.59.50	105	123	308	0	292	626	1454	1858	2055	-197	3312	0	3312
3	10.44.14	106	126	308	0	212	492	1244	2136	2151	-15	3380	0	3380
4	09.41.37	104	126	307	0	203	507	1247	1987	2213	-226	3234	0	3234
5	10.06.30	103	122	310	0	44	359	938	2264	2200	64	3202	0	3202
6	09.41.45	86	123	314	0	216	344	1083	2245	2213	32	3328	0	3328
7	09.48.20	102	127	318	14	293	394	1248	2033	2182	-149	3281	20	3301
8	10.22.34	99	129	316	0	302	439	1285	2182	2263	-81	3467	0	3467
9	10.00.22	106	130	317	0	209	356	1118	2241	2237	4	3359	2	3361
10	09.52.41	102	128	313	0	210	363	1116	2157	2113	44	3273	0	3273
11	09.58.55	103	129	313	0	274	363	1182	2138	2280	-142	3320	0	3320
12	08.43.54	109	86	316	0	291	461	1263	1968	1990	-22	3231	0	3231
13	09.52.46	107	88	313	0	289	459	1256	1971	2023	-52	3227	18	3245
14	09.47.28	105	87	314	0	288	425	1219	2095	2251	-156	3314	0	3314
15	10.03.24	102	87	305	0	214	377	1085	2183	2237	-54	3268	0	3268
16	10.11.40	97	86	312	0	-4	356	847	2298	2122	176	3145	28	3173
17	10.50.42	101	169	316	0	0	365	951	2245	2129	116	3196	2	3198
18	09.46.50	105	170	317	0	114	327	1033	2268	2217	51	3301	0	3301
19	10.02.56	99	108	315	0	260	356	1138	2097	2184	-87	3235	0	3235
20	10.02.56	103	169	313	0	224	293	1102	2129	2278	-149	3231	8	3239
21	08.26.47	100	85	309	0	227	354	1075	2065	2068	-3	3140	0	3140
22	09.58.06	109	87	306	0	268	364	1134	2183	2263	-80	3317	7	3324
23	10.04.16	60	87	267	0	229	301	944	2226	2114	112	3170	0	3170
24	10.00.33	51	86	265	0	264	172	838	2390	2383	7	3228	0	3228
25	10.03.13	104	87	309	0	303	334	1137	2044	2254	-210	3181	0	3181
26	10.00.46	106	168	307	21	303	492	1397	1787	1697	90	3184	0	3184
27	09.42.48	105	169	307	0	302	594	1477	1685	1784	-99	3162	0	3162
28	09.47.28	52	169	267	0	300	587	1375	1700	1818	-118	3075	0	3075

7 POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF MAXIMUM UNRESTRICTED DEMAND DURING FEBRUARY 2013

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	Bawana	Total						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)= (3) to (8)	(10)	(11)	(12)= (11) - (10)	(13)= (11)+ (12)	(14)	(15)= (13)+ (14)
1	09.59.52	104	126	319	21	218	592	1380	2210	2286	-76	3590	0	3590
2	09.59.50	105	123	308	0	292	626	1454	1858	2055	-197	3312	0	3312
3	10.44.14	106	126	308	0	212	492	1244	2136	2151	-15	3380	0	3380
4	09.41.37	104	126	307	0	203	507	1247	1987	2213	-226	3234	0	3234
5	10.06.30	103	122	310	0	44	359	938	2264	2200	64	3202	0	3202
6	09.41.45	86	123	314	0	216	344	1083	2245	2213	32	3328	0	3328
7	09.48.20	102	127	318	14	293	394	1248	2033	2182	-149	3281	20	3301
8	10.22.34	99	129	316	0	302	439	1285	2182	2263	-81	3467	0	3467
9	10.00.22	106	130	317	0	209	356	1118	2241	2237	4	3359	2	3361
10	09.52.41	102	128	313	0	210	363	1116	2157	2113	44	3273	0	3273
11	09.58.55	103	129	313	0	274	363	1182	2138	2280	-142	3320	0	3320
12	08.43.54	109	86	316	0	291	461	1263	1968	1990	-22	3231	0	3231
13	09.52.46	107	88	313	0	289	459	1256	1971	2023	-52	3227	18	3245
14	09.47.28	105	87	314	0	288	425	1219	2095	2251	-156	3314	0	3314
15	10.03.24	102	87	305	0	214	377	1085	2183	2237	-54	3268	0	3268
16	10.11.40	97	86	312	0	-4	356	847	2298	2122	176	3145	28	3173
17	10.50.42	101	169	316	0	0	365	951	2245	2129	116	3196	2	3198
18	09.46.50	105	170	317	0	114	327	1033	2268	2217	51	3301	0	3301
19	10.02.56	99	108	315	0	260	356	1138	2097	2184	-87	3235	0	3235
20	10.02.56	103	169	313	0	224	293	1102	2129	2278	-149	3231	8	3239
21	08.26.47	100	85	309	0	227	354	1075	2065	2068	-3	3140	0	3140
22	09.58.06	109	87	306	0	268	364	1134	2183	2263	-80	3317	7	3324
23	10.04.16	60	87	267	0	229	301	944	2226	2114	112	3170	0	3170
24	10.00.33	51	86	265	0	264	172	838	2390	2383	7	3228	0	3228
25	10.03.13	104	87	309	0	303	334	1137	2044	2254	-210	3181	0	3181
26	10.00.46	106	168	307	21	303	492	1397	1787	1697	90	3184	0	3184
27	09.42.48	105	169	307	0	302	594	1477	1685	1784	-99	3162	0	3162
28	09.47.28	52	169	267	0	300	587	1375	1700	1818	-118	3075	0	3075

8 SOURCEWISE SCHEDULED DRAWL FROM NORTHERN GRID AS WELL AS AVAILABILITY WITHIN DELHI FOR FEBRUARY 2013

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

A (i) RPH	72.531
(ii) GT+STG	78.672
(iii) PRAGATI	202.008
(iv) RITHALA	1.534
(v) BAWANA CCGT	144.745
TOTAL	499.490
B) AVAILABILITY FROM BTPS	267.903
C) AUXILIARY CONSUMPTION OF GENERATING STNs. EXCLUDING BTPS	20.705
D) NET GENERATION AVAILABLE WITHIN DELHI(A+B-C)	**746.688**

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	3.071	2.959	1.732	1.670
SALAL	16.359	15.767	9.230	8.895
TANKAPUR	2.048	1.973	1.155	1.113
CHAMERA	5.496	5.295	2.886	2.780
CHAMERA -II	5.179	4.990	2.730	2.630
CHAMERA -III	2.721	2.622	2.501	2.410
DHAULIGANGA	3.568	3.437	2.013	1.939
SEWA -2	6.671	6.428	3.764	3.627
URI	19.903	19.178	11.230	10.820
KOTESHWAR	7.400	7.125	7.400	7.125
MUNDRA_UMPP	0.000	0.000	0.000	0.000
ANTA (GAS)	17.439	16.805	10.840	10.441
ANTA (RLNG)	9.078	8.740	0.000	0.000
ANTA (LIQUID)	3.218	3.091	0.000	0.000
DADRI (GAS)	28.760	27.704	23.216	22.365
DADRI (RLNG)	32.462	31.255	0.000	0.000
DADRI (LIQUID)	0.115	0.111	0.000	0.000
AURAIYA (GAS)	21.748	20.944	17.656	17.005
AURAIYA (RLNG)	26.552	25.569	0.000	0.000
AURAIYA (LIQUID)	0.341	0.329	0.000	0.000
SINGRAULI	93.692	90.221	80.858	77.846
RIHAND -I	57.991	55.848	51.551	49.639
RIHAND -II	82.599	79.546	71.177	68.535
RIHAND -III	35.156	33.843	31.980	30.785
UNCHAHAR-I	15.609	15.032	13.190	12.702
UNCHAHAR-II	30.873	29.732	26.685	25.701
UNCHAHAR-III	18.745	18.053	16.798	16.177
DADRI (TH)	487.562	469.542	414.607	399.265
DADRI (TH) STAGE-II	488.753	470.688	427.705	411.874
NAPP	19.184	18.481	19.184	18.481
RAPP 'B'	0.000	0.000	0.000	0.000
RAPP 'C'	36.669	35.314	36.669	35.314
NATHPA JHAKRI	15.950	15.361	15.950	15.361
DULASTI	0.000	0.000	0.000	0.000
TEHRI	19.738	19.006	19.738	19.006
JHAJJAR	65.852	63.418	2.428	2.339
KHELGAON	28.712	27.650	26.106	25.140
KHELGAON-II	82.937	79.876	80.568	77.592
FARAKA	11.339	10.920	10.678	10.282
TALA	0.942	0.908	0.942	0.908
TALCHER	0.000	0.000	0.000	0.000
DVC	177.280	174.061	174.061	167.650
CHATTISHGARH	0.000	0.000	0.000	0.000
GUJRAT	0.000	0.000	0.000	0.000
DVC TATA STEEL	0.000	0.000	0.000	0.000
DVC CTPS (BRPL)	7.268	7.135	7.135	6.872
DVC CTPS (BYPL)	8.485	8.330	8.330	8.021
DVC CTPS (NDPL)	0.000	0.000	0.000	0.000

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
METHON POWER(NDPL)LT-06	162.323	159.378	159.378	153.503
DVC MEJIA (LT-08)(BYPL)	61.424	60.308	60.308	58.084
ORISSA	0.000	0.000	0.000	0.000
SIKKIM	0.000	0.000	0.000	0.000
HIMACHAL PRADESH	0.000	0.000	0.000	0.000
WEST BENGAL	0.000	0.000	0.000	0.000
MADHYA PRADESH(WR)	0.000	0.000	0.000	0.000
JAMMU & KASHMIR	0.000	0.000	0.000	0.000
DVC (FOR NDPL) LT-09	14.213	13.953	13.953	13.436
HARYANA (LT-05)	32.485	31.947	31.947	30.768
KARNATAKA	0.000	0.000	0.000	0.000
URS	0.000	0.000	0.000	0.000
TO ASSAM	-6.232	-6.388	-6.388	-6.623
TO UTTRANCHAL	-70.826	-72.469	-72.469	-75.263
TO UTTAR PRADESH	-53.189	-54.419	-54.419	-56.509
TO GUJRAT	-42.709	-43.415	-43.415	-45.073
TO WEST BENGAL	-5.972	-6.063	-6.063	-6.291
TO MADHYA PRADESH	-63.127	-64.166	-64.166	-66.629
TO JAMMU & KASHMIR	-111.254	-113.475	-113.475	-117.823
TO MAHARASHTRA	-1.251	-1.279	-1.279	-1.327
TO RAJASTHAN	-73.905	-75.396	-75.396	-78.319
TO TRIPURA	-1.504	-1.532	-1.532	-1.592
TO MEGHALAYA	-23.432	-24.065	-24.065	-24.989
TO HIMACHAL PRADESH	-50.162	-51.008	-51.008	-52.966
POWER EXCHANGE(IEX)	3.980	3.834	3.980	3.834
TO POWER EXCHANGE (IEX)	-319.596	-331.916	-319.596	-331.916
POWRER EXCHANGE(PX)	0.000	0.000	0.000	0.000
TO POWER EXCHANGE (PX)	-6.568	-6.816	-6.568	-6.816
TO SHARE PROJECT (HARYANA)	-6.772	-7.030	-6.772	-7.030
TO SHARE PROJECT (PUNJAB)	-15.360	-15.948	-15.360	-15.948
TOTAL	**1420.032**	**1321.319**	**1040.288**	**936.822**

C) AGENCY WISE BREAKUP OF ENERGY SCHEDULED DRAWL FROM THE 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
NTPC - NR	1450.694	1397.052	1186.263	1142.337
NTPC - ER	122.988	118.446	117.352	113.014
NHPC	65.016	62.649	37.242	35.885
NPC	55.853	53.794	55.853	53.794
KOTESHWAR	7.400	7.125	7.400	7.125
MUNDRA_UMPP	0.000	0.000	0.000	0.000
NATHPA JHAKRI	15.950	15.361	15.950	15.361
TEHRI	19.738	19.006	19.738	19.006
TALA	0.942	0.908	0.942	0.908
JHAJJAR	65.852	63.418	2.428	2.339
TALCHER	0.000	0.000	0.000	0.000
DVC	177.280	174.061	174.061	167.650
CHATTISHGARH	0.000	0.000	0.000	0.000
GUJRAT	0.000	0.000	0.000	0.000
DVC TATA STEEL	0.000	0.000	0.000	0.000
DVC CTPS (BRPL)	7.268	7.135	7.135	6.872
DVC CTPS (BYPL)	8.485	8.330	8.330	8.021
DVC CTPS (NDPL)	0.000	0.000	0.000	0.000
METHON POWER (NDPL)-LT-06	162.323	159.378	159.378	153.503
DVC MEJIA (LT-08)(BYPL)	61.424	60.308	60.308	58.084
DVC (FOR NDPL) LT-09	14.213	13.953	13.953	13.436
HARYANA (LT -05)	32.485	31.947	31.947	30.768
KARNATAKA	0.000	0.000	0.000	0.000
URS	0.000	0.000	0.000	0.000
POWER EXCHANGE(IEX)	3.980	3.834	3.980	3.834
POWER EXCHANGE(PX)	0.000	0.000	0.000	0.000
TOTAL	**2271.892**	**2196.704**	**1902.260**	**1831.937**

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 ASSAM	-6.232	-6.388	-6.388	-6.623
TO UTTRANCHAL	-70.826	-72.469	-72.469	-75.263
TO UTTAR PRADESH	-53.189	-54.419	-54.419	-56.509
TO GUJRAT	-42.709	-43.415	-43.415	-45.073
TO MADHYA PRADESH	-63.127	-64.166	-64.166	-66.629
TO WEST BENGAL	-5.972	-6.063	-6.063	-6.291
TO JAMMU & KASHMIR	-111.254	-113.475	-113.475	-117.823
TO MAHARASHTRA	-1.251	-1.279	-1.279	-1.327
TO RAJASTHAN	-73.905	-75.396	-75.396	-78.319
TO TRIPURA	-1.504	-1.532	-1.532	-1.592
TO MEGHALAYA	-23.432	-24.065	-24.065	-24.989
TO HIMACHAL PRADESH	-50.162	-51.008	-51.008	-52.966
TO POWER EXCHANGE (IEX)	-319.596	-331.916	-319.596	-331.916
TO POWER EXCHANGE (PX)	-6.568	-6.816	-6.568	-6.816
TO SHARE PROJECT (HARYANA)	-6.772	-7.030	-6.772	-7.030
TO SHARE PROJECT (PUNJAB)	-15.360	-15.948	-15.360	-15.948
TOTAL	**-851.860**	**-875.385**	**-861.972**	**-895.115**
TOTAL SCHEDULED DRAWAL FROM THE GRID	**1420.032**	**1321.319**	**1040.288**	**936.822**
TOTAL CONSUMPTION INCLUDING AUX. OF GENERATING STNs. EXCLUDING BTPS				1557.203
NET CONSUMPTION				**1536.498**
AVAILABILITY WITHIN DELHI				746.688
ACTUAL DRAWAL FROM THE GRID				789.810
OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID ON THE BASIS OF SCHEDULED ALLOCATION MADE BY NRLDC TO DELHI AT PERIPHERY				-147.012
LOAD SHEDDING				1.699
UNRESTRICTED DEMAND (GROSS)				1558.902
UNRESTRICTED DEMAND (NET)				1538.197
MAX. NET CONSUMPTION				59.532
MAX. LOAD SHEDDING				278MW ON 07.02.2013 AT 19.00HRS.
PEAK LOAD	Peak Demand during the month			SHEDDING AT PEAK TIME
DAY PEAK	3590MW AT 09.59.52HRS ON 01.02.2013			0 MW
EVENING PEAK	3244MW AT 19.00.00HRS ON 01.02.2013			0 MW
P.L.F. OF GENCO AND PRAGATI STNs.	RPH			79.95%
	GT			43.36%
	PRAGATI			91.09%
	RITHALA			2.11%
	BAWANA			31.49%

9 SHEDDING DETAILS DURING THE MONTH OF FEBRUARY 2013.

ALL FIGURES IN MUs

DATE	No. of Under Freq. Relay Operated	Shedding due to under frequency relay operation in MUs					Shedding due to Grid Restrictions (Over drawal / low freq.)			
		BSES		NDPL	NDMC	**TOTAL**	BSES		NDPL	NDMC
		BYPL	BRPL				BYPL	BRPL		
1	**2**	**3**	**4**	**5**	**6**	**7=3 to 6**	8	9	10	11
01-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
02-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
03-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
04-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
05-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
06-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
07-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
08-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
09-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
10-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
11-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
12-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
13-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
14-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
15-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
16-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.021	0.000	0.000
17-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
18-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
19-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.009	0.000
20-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
21-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
22-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.012	0.000
23-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
24-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
25-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
26-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.085	0.140	0.000	0.000
27-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
28-Feb-13	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
TOTAL	**0**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.085**	**0.161**	**0.021**	**0.000**

ALL FIGURES IN MUs

Date	Shedding due to Transmission/Grid Constraints in Central Sector Stations / TTC / ATC VOILATION				TOTAL	TOTAL SHEDDING DUE TO GRID RESTRICTIONS	Due to T&D Constraints				
							DTL				
	BSES		NDPL	NDMC			BSES		NDPL	NDMC	MES
	BYPL	BRPL					BYPL	BRPL			
1	12	13	14	15	**16=8to15**	**17=16+7**	18	19	20	21	22
01-Feb-13	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
02-Feb-13	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
03-Feb-13	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
04-Feb-13	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
05-Feb-13	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.002	0.012	0.216	0.000	0.000
06-Feb-13	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.003	0.000	0.000	0.000	0.000
07-Feb-13	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.050	0.000	0.000
08-Feb-13	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
09-Feb-13	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.001	0.000	0.003	0.000	0.000
10-Feb-13	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
11-Feb-13	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
12-Feb-13	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
13-Feb-13	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
14-Feb-13	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
15-Feb-13	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.001	0.006	0.000	0.000	0.000
16-Feb-13	0.000	0.000	0.000	0.000	**0.021**	**0.021**	0.000	0.000	0.061	0.000	0.000
17-Feb-13	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
18-Feb-13	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
19-Feb-13	0.000	0.000	0.000	0.000	**0.009**	**0.009**	0.000	0.000	0.000	0.000	0.000
20-Feb-13	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
21-Feb-13	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.008	0.000	0.000	0.000	0.000
22-Feb-13	0.000	0.000	0.000	0.000	**0.012**	**0.012**	0.000	0.000	0.000	0.000	0.000
23-Feb-13	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
24-Feb-13	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
25-Feb-13	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
26-Feb-13	0.000	0.000	0.000	0.000	**0.225**	**0.225**	0.000	0.000	0.000	0.000	0.000
27-Feb-13	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
28-Feb-13	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**	**0.267**	**0.267**	**0.015**	**0.018**	**0.330**	**0.000**	**0.000**

ALL FIGURES IN MUs

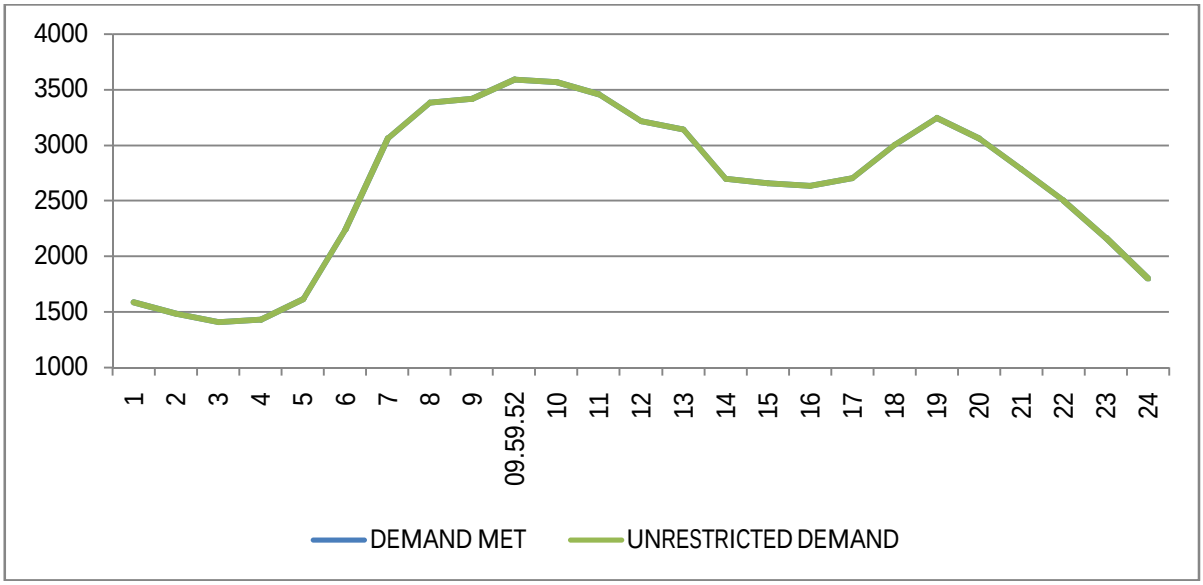
DATE	DUE TO T&D CONTRAINTS				OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.	THEFT PRONE SHEDDING			TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE	GRAND TOTAL
	DISCOMS									
	BSES		NDPL	NDMC		BSES		NDPL		
	BYPL	BRPL				BYPL	BRPL			
1	23	24	25		26	27	28	29	30=18 to29	31=30+17
01-Feb-13	0.000	0.001	0.005	0.000	0.000	0.000	0.000	0.000	**0.006**	**0.006**
02-Feb-13	0.001	0.003	0.000	0.000	0.000	0.000	0.000	0.000	**0.004**	**0.004**
03-Feb-13	0.068	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.068**	**0.068**
04-Feb-13	0.009	0.000	0.013	0.000	0.000	0.000	0.000	0.000	**0.022**	**0.022**
05-Feb-13	0.005	0.024	0.016	0.000	0.000	0.000	0.000	0.000	**0.275**	**0.275**
06-Feb-13	0.000	0.131	0.000	0.000	0.000	0.000	0.000	0.000	**0.134**	**0.134**
07-Feb-13	0.004	0.003	0.032	0.000	0.000	0.000	0.000	0.000	**0.089**	**0.089**
08-Feb-13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.000**
09-Feb-13	0.007	0.008	0.023	0.000	0.000	0.000	0.000	0.000	**0.042**	**0.042**
10-Feb-13	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.004**	**0.004**
11-Feb-13	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	**0.003**	**0.003**
12-Feb-13	0.005	0.000	0.000	0.000	0.015	0.000	0.000	0.000	**0.020**	**0.020**
13-Feb-13	0.000	0.000	0.133	0.000	0.000	0.000	0.000	0.000	**0.133**	**0.133**
14-Feb-13	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	**0.002**	**0.002**
15-Feb-13	0.001	0.028	0.005	0.000	0.000	0.000	0.000	0.000	**0.041**	**0.041**
16-Feb-13	0.021	0.093	0.031	0.000	0.000	0.000	0.000	0.000	**0.206**	**0.227**
17-Feb-13	0.022	0.013	0.000	0.000	0.000	0.000	0.000	0.000	**0.035**	**0.035**
18-Feb-13	0.012	0.004	0.000	0.000	0.002	0.000	0.000	0.000	**0.018**	**0.018**
19-Feb-13	0.012	0.000	0.010	0.000	0.000	0.000	0.000	0.000	**0.022**	**0.031**
20-Feb-13	0.038	0.006	0.000	0.000	0.000	0.000	0.000	0.000	**0.044**	**0.044**
21-Feb-13	0.005	0.007	0.000	0.000	0.000	0.000	0.000	0.000	**0.020**	**0.020**
22-Feb-13	0.003	0.059	0.002	0.000	0.000	0.000	0.000	0.000	**0.064**	**0.076**
23-Feb-13	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.003**	**0.003**
24-Feb-13	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.021**	**0.021**
25-Feb-13	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	**0.002**	**0.002**
26-Feb-13	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	**0.001**	**0.226**
27-Feb-13	0.038	0.070	0.000	0.000	0.000	0.000	0.000	0.000	**0.108**	**0.108**
28-Feb-13	0.000	0.007	0.038	0.000	0.000	0.000	0.000	0.000	**0.045**	**0.045**
TOTAL	**0.280**	**0.458**	**0.312**	**0.000**	**0.019**	**0.000**	**0.000**	**0.000**	**1.432**	**1.699**

DATE	(NET CONS.)	MAXI. DEMAND MET DURING THE DAY	TIME OF OCCUR-RENCE OF MAX DEMAND	SHEDDING AT THIS TIME	UN-REST-RICTED DEMAND	MAXIMUM UN-REST-RICTED DEMAND DURING THE DAY	TIME OF MAX. UN-REST. DEMAND	DEMAND AT THAT TIME	SHEDDING AT THAT TIME
	In Mus.	IN MW	IN HRS.	IN MW	IN MW	IN MW	HRS.	IN MW	IN MW
1	32	33	34	35	36=33+35	37=39+40	38	39	40
01-Feb-13	59.532	**3590**	09:59:52	0	**3590**	**3590**	09:59:52	**3590**	0
02-Feb-13	55.862	**3312**	09:59:50	0	**3312**	**3312**	09:59:50	**3312**	0
03-Feb-13	52.564	**3380**	10:44:14	0	**3380**	**3380**	10:44:14	**3380**	0
04-Feb-13	56.120	**3234**	09:41:37	0	**3234**	**3234**	09:41:37	**3234**	0
05-Feb-13	55.760	**3202**	10:06:30	0	**3202**	**3202**	10:06:30	**3202**	0
06-Feb-13	57.264	**3328**	09:41:45	0	**3328**	**3328**	09:41:45	**3328**	0
07-Feb-13	55.229	**3281**	09:48:20	20	**3301**	**3301**	09:48:20	**3281**	20
08-Feb-13	57.103	**3467**	10:22:34	0	**3467**	**3467**	10:22:34	**3467**	0
09-Feb-13	54.953	**3359**	10:00:22	2	**3361**	**3361**	10:00:22	**3359**	2
10-Feb-13	52.672	**3273**	09:52:41	0	**3273**	**3273**	09:52:41	**3273**	0
11-Feb-13	52.620	**3320**	09:58:55	0	**3320**	**3320**	09:58:55	**3320**	0
12-Feb-13	54.875	**3231**	08:43:54	0	**3231**	**3231**	08:43:54	**3231**	0
13-Feb-13	55.981	**3227**	09:52:46	18	**3245**	**3245**	09:52:46	**3227**	18
14-Feb-13	55.072	**3314**	09:47:28	0	**3314**	**3314**	09:47:28	**3314**	0
15-Feb-13	54.546	**3268**	10:03:24	0	**3268**	**3268**	10:03:24	**3268**	0
16-Feb-13	54.339	**3145**	10:11:40	28	**3173**	**3173**	10:11:40	**3145**	28
17-Feb-13	52.976	**3196**	10:50:42	2	**3198**	**3198**	10:50:42	**3196**	2
18-Feb-13	55.092	**3301**	09:46:50	0	**3301**	**3301**	09:46:50	**3301**	0
19-Feb-13	56.767	**3235**	10:02:56	0	**3235**	**3235**	10:02:56	**3235**	0
20-Feb-13	55.195	**3231**	10:02:56	8	**3239**	**3239**	10:02:56	**3231**	8
21-Feb-13	54.559	**3140**	08:26:47	0	**3140**	**3140**	08:26:47	**3140**	0
22-Feb-13	55.008	**3317**	09:58:06	7	**3324**	**3324**	09:58:06	**3317**	7
23-Feb-13	53.257	**3170**	10:04:16	0	**3170**	**3170**	10:04:16	**3170**	0
24-Feb-13	51.721	**3228**	10:00:33	0	**3228**	**3228**	10:00:33	**3228**	0
25-Feb-13	53.993	**3181**	10:03:13	0	**3181**	**3181**	10:03:13	**3181**	0
26-Feb-13	54.701	**3184**	10:00:46	0	**3184**	**3184**	10:00:46	**3184**	0
27-Feb-13	54.089	**3162**	09:42:48	0	**3162**	**3162**	09:42:48	**3162**	0
28-Feb-13	54.648	**3075**	09:47:28	0	**3075**	**3075**	09:47:28	**3075**	0
TOTAL	**1536.498**	**3590** **01.02.2013**	09:59:52	0	**3590** 01.02.2013	**3590**	09:59:52	**3590**	0

10 LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING FEBRUARY 2013 ON 01.02.2013- 3590MW at 09.59.52HRS.

All figures in MW

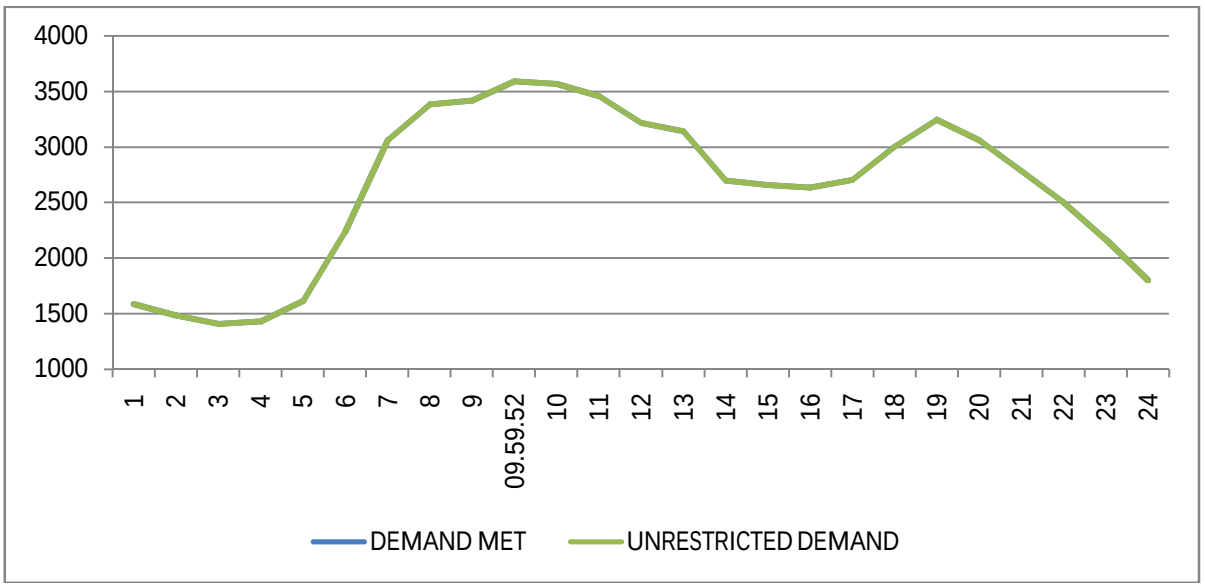
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1	1587	0	1587
2	1485	0	1485
3	1409	0	1409
4	1433	0	1433
5	1613	0	1613
6	2240	0	2240
7	3059	0	3059
8	3384	0	3384
9	3417	0	3417
09.59.52	3590	0	3590
10	3568	0	3568
11	3456	0	3456
12	3217	0	3217
13	3142	0	3142
14	2697	3	2700
15	2660	0	2660
16	2634	0	2634
17	2705	0	2705
18	3000	0	3000
19	3244	0	3244
20	3062	0	3062
21	2782	0	2782
22	2504	0	2504
23	2170	0	2170
24	1799	0	1799
TOTAL	**59.532**	**0.006**	**59.538**



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING FEBRUARY 2013 ON 01.02.2013- 3590MW at 09.59.52HRS.

All figures in MW

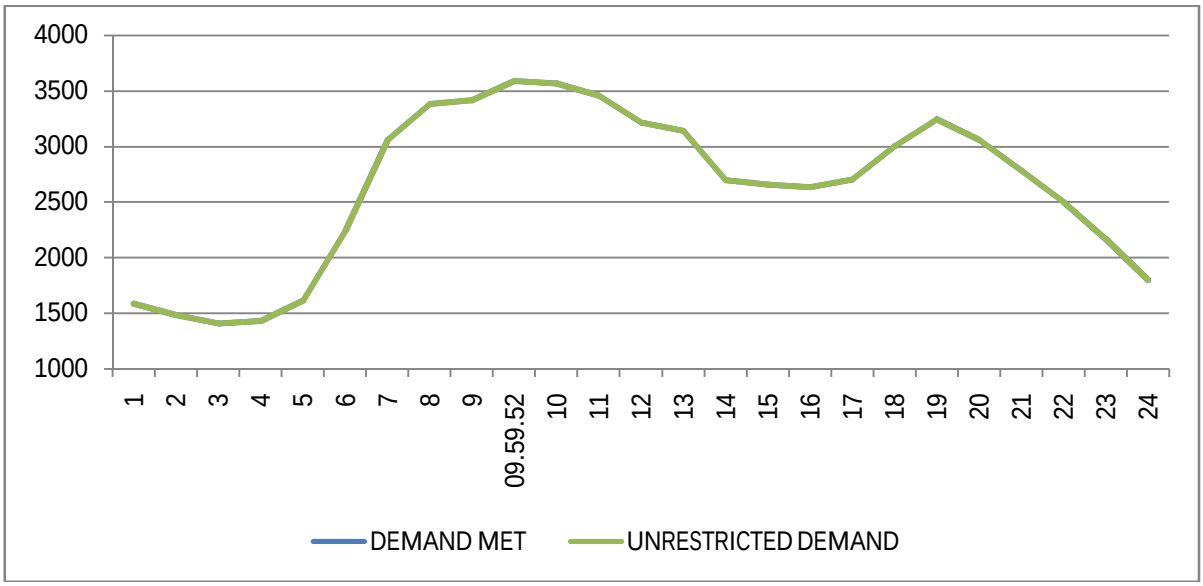
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1	1587	0	1587
2	1485	0	1485
3	1409	0	1409
4	1433	0	1433
5	1613	0	1613
6	2240	0	2240
7	3059	0	3059
8	3384	0	3384
9	3417	0	3417
09.59.52	3590	0	3590
10	3568	0	3568
11	3456	0	3456
12	3217	0	3217
13	3142	0	3142
14	2697	3	2700
15	2660	0	2660
16	2634	0	2634
17	2705	0	2705
18	3000	0	3000
19	3244	0	3244
20	3062	0	3062
21	2782	0	2782
22	2504	0	2504
23	2170	0	2170
24	1799	0	1799
TOTAL	**59.532**	**0.006**	**59.538**



12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING FEBRUARY 2013 – 01.02.2013 – 59.532 Mus

All figures in MW

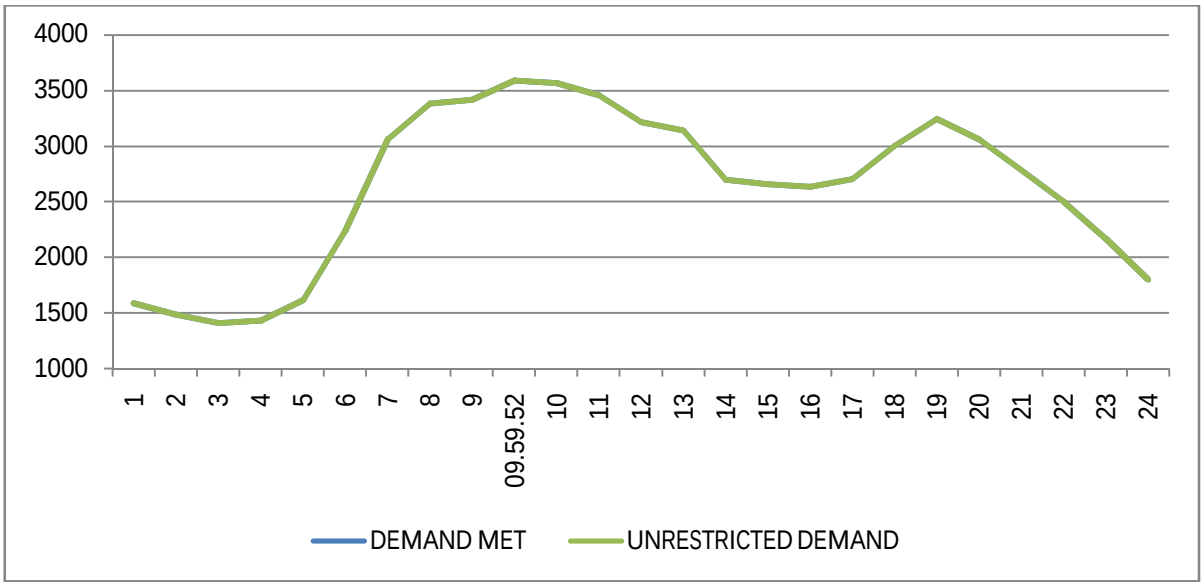
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1	1587	0	1587
2	1485	0	1485
3	1409	0	1409
4	1433	0	1433
5	1613	0	1613
6	2240	0	2240
7	3059	0	3059
8	3384	0	3384
9	3417	0	3417
09.59.52	3590	0	3590
10	3568	0	3568
11	3456	0	3456
12	3217	0	3217
13	3142	0	3142
14	2697	3	2700
15	2660	0	2660
16	2634	0	2634
17	2705	0	2705
18	3000	0	3000
19	3244	0	3244
20	3062	0	3062
21	2782	0	2782
22	2504	0	2504
23	2170	0	2170
24	1799	0	1799
TOTAL	**59.532**	**0.006**	**59.538**



13 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING FEBRUARY 2013 – 01.02.2013 – 59.538 Mus

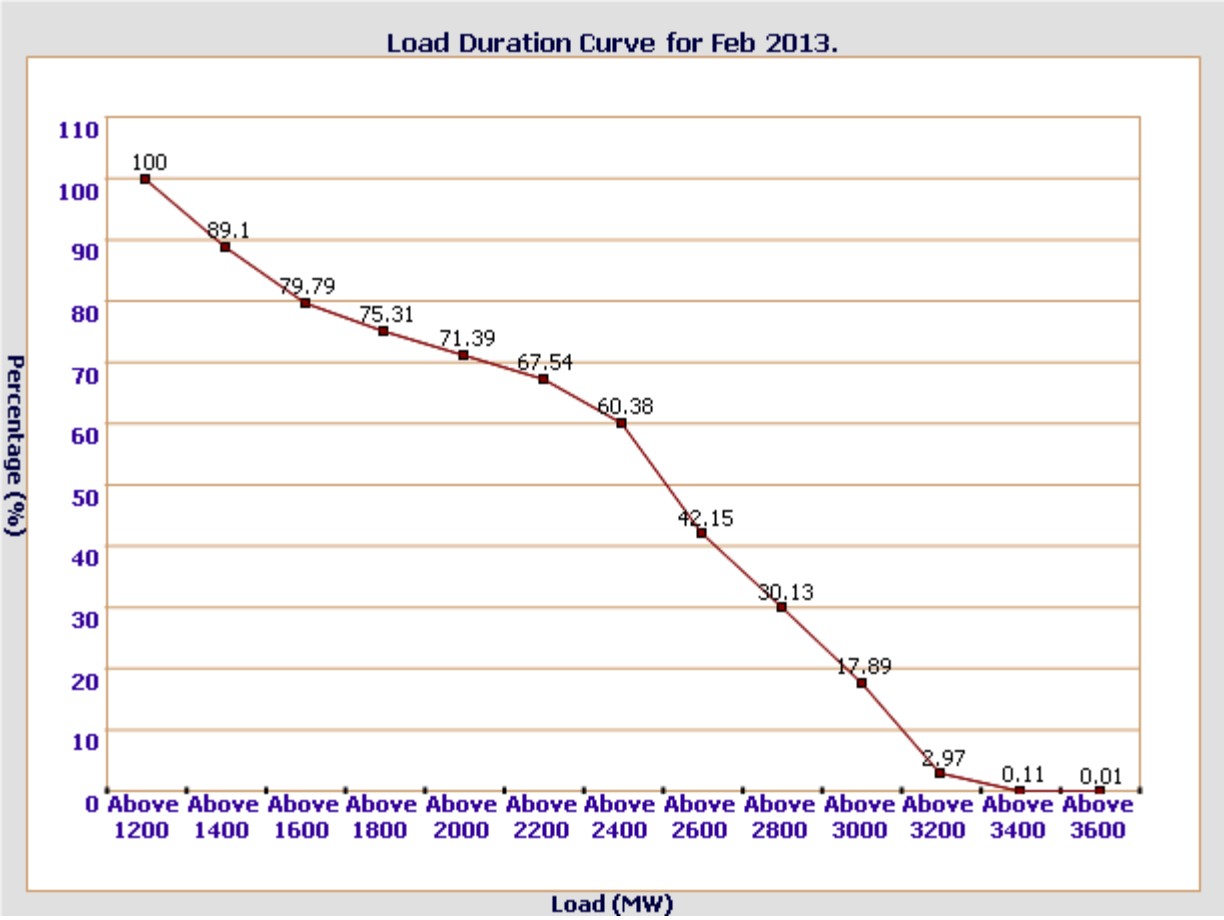
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
1	1587	0	1587
2	1485	0	1485
3	1409	0	1409
4	1433	0	1433
5	1613	0	1613
6	2240	0	2240
7	3059	0	3059
8	3384	0	3384
9	3417	0	3417
09.59.52	3590	0	3590
10	3568	0	3568
11	3456	0	3456
12	3217	0	3217
13	3142	0	3142
14	2697	3	2700
15	2660	0	2660
16	2634	0	2634
17	2705	0	2705
18	3000	0	3000
19	3244	0	3244
20	3062	0	3062
21	2782	0	2782
22	2504	0	2504
23	2170	0	2170
24	1799	0	1799
TOTAL	**59.532**	**0.006**	**59.538**



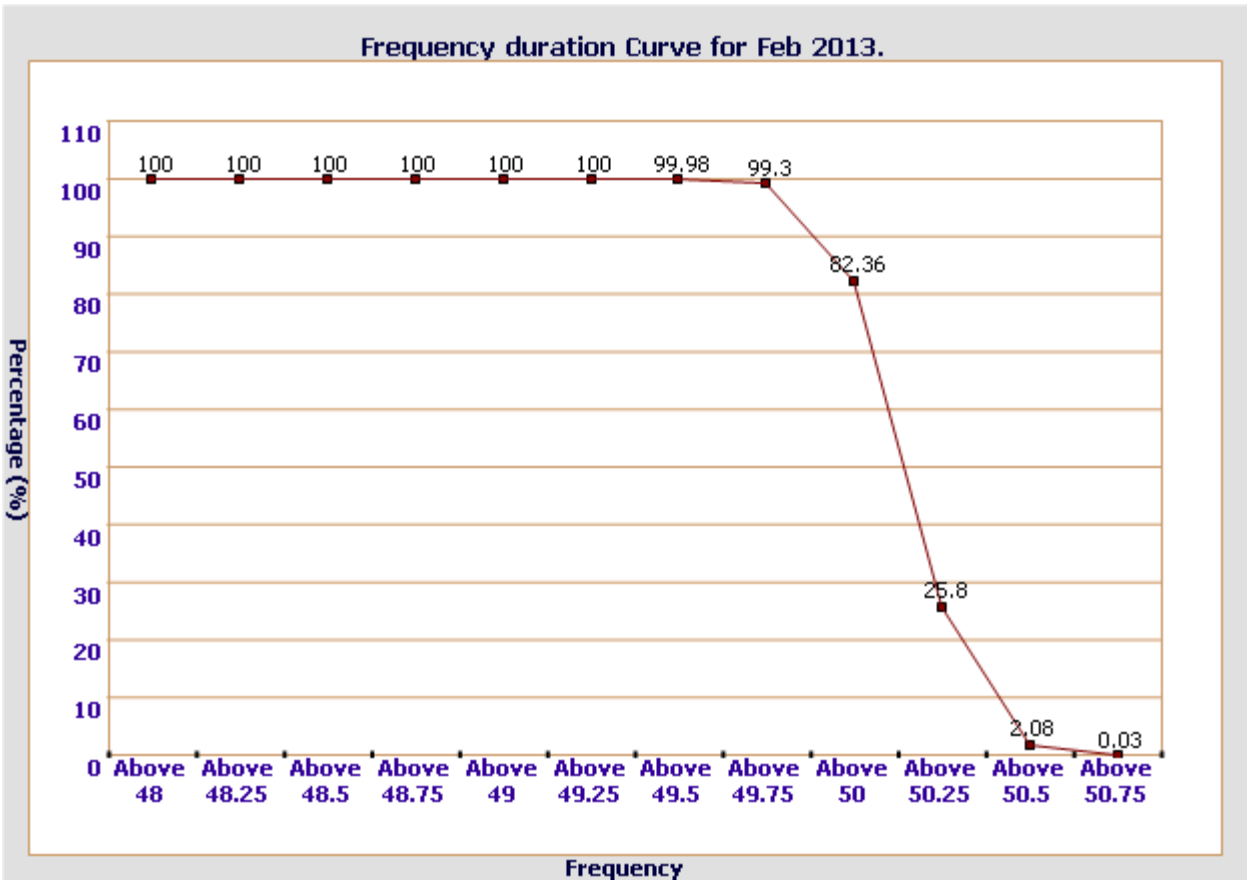
14 LOAD DURATION CURVE FOR FEBRUARY 2013

Load in MW	Percentage of Time
Above 1200	100 %
Above 1400	89.1 %
Above 1600	79.79 %
Above 1800	75.31 %
Above 2000	71.39 %
Above 2200	67.54 %
Above 2400	60.38 %
Above 2600	42.15 %
Above 2800	30.13 %
Above 3000	17.89 %
Above 3200	2.97 %
Above 3400	0.11 %
Above 3600	0.01 %



15 FREQUENCY ANALYSIS FOR THE MONTH OF FEBRUARY 2013

Frequency Range in Hz.	Percentage of time
Above 49.25	100 %
Above 49.5	99.98 %
Above 49.75	99.3 %
Above 50	82.36 %
Above 50.25	25.8 %
Above 50.5	2.08 %
Above 50.75	0.03 %



16 VOLTAGE PROFILE OF 220 KV SUB-STATIONS IN DELHI DURING FEBRUARY 2013

All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
01-Feb-13	232.15	218.86	229.44	216.02
02-Feb-13	232.15	218.86	229.44	216.02
03-Feb-13	230.73	218.60	230.60	218.35
04-Feb-13	233.95	220.54	233.05	218.86
05-Feb-13	237.17	217.70	234.98	218.35
06-Feb-13	--	--	--	--
07-Feb-13	229.95	--	233.05	216.54
08-Feb-13	230.73	--	232.79	216.41
09-Feb-13	233.18	220.28	231.24	215.64
10-Feb-13	234.47	222.99	231.89	218.99
11-Feb-13	234.08	216.54	233.31	214.61
12-Feb-13	--	--	--	--
13-Feb-13	232.79	219.76	231.76	213.70
14-Feb-13	233.18	217.70	232.40	213.83
15-Feb-13	232.40	217.83	233.05	--
16-Feb-13	235.76	--	235.63	218.99
17-Feb-13	236.92	222.21	234.34	221.05
18-Feb-13	236.27	220.41	233.95	--
19-Feb-13	234.72	218.47	231.50	208.54
20-Feb-13	233.31	219.76	230.73	206.35
21-Feb-13	232.79	219.51	225.05	208.03
22-Feb-13	236.66	218.47	226.34	205.88
23-Feb-13	236.01	220.28	232.02	205.45
24-Feb-13	235.11	220.41	229.31	204.80
25-Feb-13	234.60	219.64	230.86	203.00
26-Feb-13	234.34	218.22	231.37	217.83
27-Feb-13	234.98	219.25	231.50	220.54
28-Feb-13	233.82	218.35	230.47	205.71

17 VOLTAGE PROFILE OF 400 KV SUB-STATIONS IN DELHI DURING JANUARY 2013

All figures in kV

Date	400kV Bamnauli Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01-Feb-13	416.22	04.04.50	395.82	11.18.28	402.78
02-Feb-13	416.22	04.04.50	395.82	11.18.28	402.78
03-Feb-13	415.75	04.01.27	395.58	11.13.36	405.20
04-Feb-13	420.44	04.02.54	398.40	11.43.55	409.34
05-Feb-13	425.13	01.05.26	395.12	18.48.03	408.40
06-Feb-13	--	--	--	--	--
07-Feb-13	419.74	04.06.41	393.94	18.45.31	404.81
08-Feb-13	417.86	04.05.22	392.30	11.19.38	403.48
09-Feb-13	416.22	04.00.47	392.07	09.09.19	404.00
10-Feb-13	418.33	04.03.22	397.46	10.14.13	406.16
11-Feb-13	418.10	04.04.03	391.60	06.51.44	402.08
12-Feb-13	--	--	--	--	--
13-Feb-13	415.98	04.06.44	390.43	08.39.10	398.34
14-Feb-13	416.16	04.05.16	391.60	11.39.15	400.44
15-Feb-13	420.44	23.51.51	395.58	09.27.51	405.02
16-Feb-13	423.72	03.09.13	397.46	18.37.31	410.98
17-Feb-13	423.25	02.22.00	399.57	19.11.44	412.03
18-Feb-13	423.02	04.05.09	396.99	18.37.45	408.19
19-Feb-13	421.38	02.05.04	397.23	18.59.42	409.29
20-Feb-13	420.91	02.05.04	397.46	10.09.07	408.76
21-Feb-13	421.85	23.54.19	400.98	--	409.09
22-Feb-13	426.77	03.00.30	395.58	17.48.03	410.23
23-Feb-13	424.19	02.48.33	401.92	18.48.54	412.58
24-Feb-13	422.08	02.57.19	399.34	18.52.44	411.95
25-Feb-13	422.08	04.03.14	397.93	19.03.53	409.12
26-Feb-13	421.61	04.04.05	391.13	12.08.53	407.71
27-Feb-13	424.43	04.04.08	399.81	18.56.10	410.92
28-Feb-13	421.85	--	397.23	---	408.37

All figures in kV

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01-Feb-13	425.13	04.05.41	405.20	11.17.08	411.90
02-Feb-13	425.13	04.05.41	405.20	11.17.08	411.90
03-Feb-13	423.72	04.01.37	405.43	09.40.40	414.32
04-Feb-13	428.88	04.03.34	407.54	10.26.49	418.74
05-Feb-13	454.68	03.16.03	--	--	417.88
06-Feb-13	--	--	--	--	--
07-Feb-13	427.47	04.05.31	399.57	06.20.19	413.87
08-Feb-13	425.60	04.06.03	402.15	11.18.08	412.90
09-Feb-13	424.90	04.00.57	403.09	09.07.49	413.49
10-Feb-13	427.77	04.04.32	408.48	18.44.14	415.73
11-Feb-13	426.54	04.06.03	401.92	06.12.11	411.55
12-Feb-13	--	--	--	--	--
13-Feb-13	424.43	04.06.44	401.45	08.39.40	408.54
14-Feb-13	425.13	04.06.06	401.68	11.20.53	409.91
15-Feb-13	427.47	23.51.41	403.79	11.43.10	413.23
16-Feb-13	430.99	03.18.53	405.67	18.37.31	418.41
17-Feb-13	431.23	02.19.40	407.54	19.11.44	419.56
18-Feb-13	430.29	04.02.49	405.20	19.19.37	415.90
19-Feb-13	428.41	02.04.54	409.49	18.57.22	416.75
20-Feb-13	427.94	02.04.54	406.37	10.09.17	416.30
21-Feb-13	426.77	22.56.45	407.54	--	416.94
22-Feb-13	425.13	00.00.09	406.84	18.40.26	413.47
23-Feb-13	430.99	00.58.47	409.18	19.17.15	419.02
24-Feb-13	428.41	01.41.56	408.48	18.52.44	418.88
25-Feb-13	429.59	03.03.01	406.84	19.03.43	418.24
26-Feb-13	424.90	00.00.12	403.79	10.16.47	412.46
27-Feb-13	428.45	03.10.05	407.54	18.55.20	415.60
28-Feb-13	426.07	--	405.43	--	413.04

18 DETAILS OF LUMPED CAPACITORS AT NEAREST 220 KV SUBSTATION

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

Sl. No	SUB-STATION	INSTALLED CAPACITY IN MVAR			
		66KV	33kV	11kV	**TOTAL**
5	**Naraina S/stn**		20	5.04	**25.04**
1	DMS			10.85	**10.85**
2	Mayapuri		10.87	5	**15.87**
3	Inderpuri		13.26	5.04	**18.3**
4	Rewari line			7.2	**7.2**
5	Khyber Lane			5.04	**5.04**
6	Kirbi Place	10		5.97	**15.97**
7	Payal			14.4	**14.4**
	Total				**112.7**
6	**Mehrauli S/stn**	80		5.04	**85.04**
1	Adchini			15.12	**15.12**
2	Andheria Bagh			10.85	**10.85**
3	IIT			10.9	**10.9**
4	JNU		10.03	10.08	**20.11**
5	Bijwasan			10.08	**10.08**
6	DC Saket		10.08	4.54	**14.62**
7	Malviya Nagar				
8	C Dot			5.4	**5.4**
9	Vasant kunj B-Blk	21.79		10.9	**32.69**
10	Vasant kunj C-Blk	20.16		10.49	**30.65**
11	Palam				
12	IGNOU				
13	R. K. Puram-I			10.08	**10.08**
14	Vasant Vihar			15.12	**15.12**
15	Pusp Vihar			9.6	**9.6**
16	Bhikaji Cama Place		10	10.08	**20.08**
	Total				**290.3**
7	**Vasantkunj S/stn**	40		5.04	**45.04**
1	R. K. Puram-II			7.2	**7.2**
2	Vasant kunj C-Blk				
3	Vasant kunj D-Blk	20.16		10.25	**30.41**
4	Race Course			5.04	**5.04**
5	Bapu Dham			10.08	**10.08**
6	Nehru Park			10	**10**
7	Ridge Valley				
	Total				**107.8**
8	**Okhla S/stn**	60	10	5.04	**75.04**
1	Balaji			7.2	**7.2**
2	East of Kailash			10	**10**
3	Alaknanda			16.25	**16.25**
4	Malviya Nagar	21.79	20.16	10.49	**52.44**
5	Masjid Moth			15.94	**15.94**
6	Nehru Place			21.35	**21.35**
7	Okhla Ph-I	21.79		10.9	**32.69**
8	Okhla Ph-II		20.93	15.53	**36.46**
9	Shivalik			10.9	**10.9**
10	Batra			15.8	**15.8**
11	VSNL			10.8	**10.8**
12	Siri Fort			10.49	**10.49**
13	Tuglakabad			10.8	**10.8**
	Total				**326.2**

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

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

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

Sl. No	SUB-STATION	INSTALLED CAPACITY IN MVAR			
		66KV	33kV	11kV	**TOTAL**
23	**Kanjhawala S/stn**	20		5.04	**25.04**
1	Bawana Clear Water			14.4	**14.4**
2	Pooth Khoord			7.2	**7.2**
3	Ghevra			14.4	**14.4**
	Total				**61.04**
24	**BAWANA S/stn**				
1	Bawana S/stn No. 6				**0**
2	Bawana S/stn No. 7				**0**
	Total				**0**
25	**Kashmeregate S/stn**			5.04	**5.04**
1	Civil lines			6	**6**
2	Town Hall			8.64	**8.64**
3	Fountain			5.45	**5.45**
	Total				**25.13**
26	**Pappankalan-II**				
1	DMRC-I				
2	DMRC-II				
	Total				
	TOTAL CAPACITY				**3636**

20 DETAILS OF BREAK-DOWNS DURING THE MONTH OF FEBRUARY 2013

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
1	01.02.13	14:00	WAZIRABAD 66/11kV, 20MVA Tx-IV	01.02.13	18:45	TX TRIPPED ON 87, LVREF ALONG WITH 11KV I/C WHICH TRIPPED ON E/F
2	01.02.13	18:35	GAZIPUR 220/66kV 100MVA Tx-I	01.02.13	18:50	TX TRIPPED ON TRIP CKT FAULTY
3	02.02.13	22:50	OKHLA 220/33kV 100MVA Tx-IV	03.02.13	1:40	TX. TRIPPED ON 30A, 86
4	02.02.13	23:40	PATPARGANJ 33/11kV, 20MVA Tx	03.02.13	9:20	TX. TRIPPED ON 30, 86
5	05.02.13	0:36	220kV GOPALPUR-SUBZI MANDI CKT-II	05.02.13	15:48	AT GOPALPUR CKT TRIPPED ON DIST. PROT. ZONE-I. 220KV LA DAMAGED DURING TRIPPING. NO TRIPPING AT SUBZIMANDI
6	05.02.13	3:13	400kV Bawana-Mundka Ckt-II	05.02.13	4:25	AT BAWANA CKT TRIPPED ON 186A&B, 30F, 30C. AT MUNDKA CKT TRIPPED ON DIST. PROT, 186A&B
7	05.02.13	3:13	220kV BAWANA - KANJHAWALA CKT	05.02.13	8:00	AT KANJHAWALA CKT TRIPPED ON DIST. PROT. 3-PAHSE TRIP. NO TRIPPING AT BAWANA
8	05.02.13	3:14	ROHINI 220/66kV 100MVA Tx-IV	05.02.13	5:45	TX. TRIPPED ON OVER VOLTAGE, 86A, 87
9	05.02.13	3:15	400kV Bawana-Mundka Ckt-I	05.02.13	4:32	AT BAWANA CKT TRIPPED ON 186A&B, 30F, 30C. AT BAWANA CKT TRIPPED ON CHANNEL1&2, INTER TRIP
10	05.02.13	3:15	DSIIDC Bawana 220/66kV 100MVA Tx-II	05.02.13	3:40	TX TRIPPED ON O/C, 86
11	05.02.13	3:15	DSIIDC Bawana 220/66kV 100MVA Tx-III	05.02.13	3:40	TX TRIPPED ON O/C, 86
12	05.02.13	3:16	400kV Mandola-Bawana Ckt-I	05.02.13	4:52	AT BAWANA CKT TRIPPED ON CB NO. 1552 ON 186A&B, 30F, 295A1 C1 AND CB NO. 1652 ON 130F, 186A&B, 59A, 59C
13	05.02.13	3:16	400kV Mandola-Bawana Ckt-II	05.02.13	5:45	AT BAWANA CKT TRIPPED ON CB NO. 1752 ON 186A&B AND CB NO. 1852 ON 186A&B, 130F
14	05.02.13	4:40	220KV BAWANA-SHALIMARBAGH CKT-II	05.02.13	6:06	AT SMB CKT TRIPPED ON CB AIR PRESSURE LOW. NO TRIPPING AT BAWANA
15	05.02.13	4:50	220kV BAMNAULI-PAPPANKALAN-II CKT-I	05.02.13	7:40	AT BAMNAULI CKT TRIPPED ON DIST. PROT. A-PHASE. AT PPK-2 CKT TRIPPED ON DIST. PROT. ZONE-I, A-PHASE,186
16	05.02.13	6:52	220KV BAWANA-SHALIMARBAGH CKT-II	05.02.13	14:15	AT SMB CKT TRIPPED ON CB AIR PRESSURE LOW. NO TRIPPING AT BAWANA FOLLOWED BY S/D TO ATTEND CB AT SMB.
17	06.02.13	7:30	220kV SARITA VIHAR - BTPS CKT.-I	06.02.13	11:25	CKT. TRIPPED ON 95 SUPERVISION RELAY
18	06.02.13	23:18	WAZIRABAD 66/11kV, 20MVA Tx-III	07.02.13	0:25	TX TRIPPED ON E/F R AND B PH. 11KV I/C TRIPPED ON O/C.
19	07.02.13	18:53	220kV NARELA - MANDOLA CKT-I	07.02.13	20:07	OPERATION OF SPECIAL PROTECTION SCHEME(SPS) AT 400KV MANDOLA.
20	07.02.13	18:53	220kV GOPALPUR-MANDOLACKT-II	07.02.13	20:07	OPERATION OF SPECIAL PROTECTION SCHEME(SPS) AT 400KV MANDOLA.
21	07.02.13	18:53	220kV NARELA - MANDOLA CKT-II	07.02.13	20:07	OPERATION OF SPECIAL PROTECTION SCHEME(SPS) AT 400KV MANDOLA.
22	07.02.13	18:53	220kV GOPALPUR-SUBZI MANDI CKT-I	07.02.13	20:07	OPERATION OF SPECIAL PROTECTION SCHEME(SPS) AT 400KV MANDOLA.
23	07.02.13	18:53	220kV GOPALPUR-SUBZI MANDI CKT-II	07.02.13	20:07	OPERATION OF SPECIAL PROTECTION SCHEME(SPS) AT 400KV MANDOLA.
24	07.02.13	18:53	220kV GOPALPUR-MANDOLACKT-I	07.02.13	20:07	OPERATION OF SPECIAL PROTECTION SCHEME(SPS) AT 400KV MANDOLA.
25	13.02.13	12:29	BAMNAULI 400/220kV 315MVA ICT-III	13.02.13	13:38	ICT TRIPPED ON L V WINDING HIGH TEMP.,186 A & B
26	13.02.13	19:24	INDRAPRASTHA POWER 220/33kV 100MVA Tx-I	13.02.13	20:05	33 KV I/C NO-1 TRIPPED ON 86.
27	14.02.13	6:58	GOPALPUR 33/11kV, 16MVA Tx-I	14.02.13	7:00	11KV I/C-I TRIPPED ON O/C ALONG WITH 11KV RAINY WELL FEEDER.
28	15.02.13	17:50	INDRAPRASTHA POWER 220/33kV 100MVA Tx-II	15.02.13	18:37	TX. TRIPPED ON E/F.CAT FOUND DEAD ON 33KV BUS.
29	16.02.13	1:58	PAPPANKALAN-I 220/66kV 100MVA Tx-I	16.02.13	3:26	66KV I/C-I TRIPPED ON E/F
30	16.02.13	1:58	PAPPANKALAN-I 220/66kV 100MVA Tx-II	16.02.13	3:26	66KV I/C-II TRIPPED ON E/F
31	16.02.13	1:58	220kV BAMNAULI-PAPPANKALAN-I CKT-I	16.02.13	3:28	AT PPK-I CKT. TRIPPED ON E/F,AUTO RE-CLOSE LOCKOUT.AT BAMNAULI CKT. TRIPPED ON D/P,C-PH,AUTO RE-CLOSE,186 A&B
32	16.02.13	3:17	PARKSTREET 66/33kV, 30MVA Tx-I	16.02.13	13:52	TX. TRIPPED ON 80AB,86
33	16.02.13	6:40	220kV NARELA - MANDOLA CKT-I	16.02.13	7:05	SPS OPERATED AT 400KV MANDOLA DUE TO TRIPPING OF BOTH POLE OF RIHAND-DADRI CKT.
34	16.02.13	6:40	220kV GOPALPUR-MANDOLACKT-I	16.02.13	10:02	SPS OPERATED AT 400KV MANDOLA DUE TO TRIPPING OF BOTH POLE OF RIHAND-DADRI CKT.
35	16.02.13	6:40	220kV NARELA - MANDOLA CKT-II	16.02.13	7:05	SPS OPERATED AT 400KV MANDOLA DUE TO TRIPPING OF BOTH POLE OF RIHAND-DADRI CKT.

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
36	16.02.13	6:40	220kV GOPALPUR-MANDOLACKT-II	16.02.13	7:05	SPS OPERATED AT 400KV MANDOLA DUE TO TRIPPING OF BOTH POLE OF RIHAND-DADRI CKT.
37	16.02.13	7:18	PARKSTREET 220/66kV 100MVA Tx-I	16.02.13	8:27	66KV I/C-I OF 100 MVA TR-I TRIPPED ON O/C,51 A&C
38	16.02.13	7:26	PARKSTREET 220/66kV 100MVA Tx-II	16.02.13	7:28	TX. TRIPPED ON BUCHLOZ ALARM AND TX. TROUBLE ALARM.
39	16.02.13	8:48	NAJAFGARH 220/66kV 100MVA Tx-II	16.02.13	10:24	66KV I/C-II TRIPPED ON E/F ALONG WITH 66KV BODELA-II CKT-1 & 2
40	21.02.13	18:47	220kV GEETA COLONY-PATPARGANJ CKT-I	21.02.13	18:55	AT GEETA COLONY CKT TRIPPED ON DIST. PROT. 3-PHASE TRIP, ZONE-2. NO TRIPPING AT PATPARGANJ
41	22.02.13	0:45	NAJAFGARH 66/11kV, 20MVA Tx-I	22.02.13	1:15	11KV I/C NO-1 TRIPPED ON O/C,E/F
42	22.02.13	17:24	WAZIRABAD 66kV GHONDA CKT-I	22.02.13	19:35	CKT. TRIPPED ON D/P,ZONE-2,DIST-11.3 KM,Y-PH EARTH STRIP MELTED.
43	25.02.13	8:38	SARITA VIHAR 220/66kV 100MVA Tx-II	25.02.13	12:58	66 KV I/C NO-2 TRIPPED ON 95C,E/F,86

20 DETAILS OF UNDER FREQUENCY RELAY OPERATIONS IN DELHI POWER SYSTEM DURING THE MONTH OF FEBRUARY 2013

DATE	S. N.	TIME		Name of Grid	NAME OF AFFECTED FEEDERS	LOAD RELIEF IN MW
		OUT	IN			
				NIL		