DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

****

NOVEMBER 2012

1 **SALIENT FEATURES OF DELHI POWER SYSTEM**

Sr. No.	Features	NOVEMBER 2012	NOVEMBER 2011
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)**	**3234**	**3294**
	Date	23.11.2012	04.11.2011
	Time	18.25.48	18.15.23
3	**Peak Demand met (MW)**	**3234**	**3294**
	Date	23.11.2012	04.11.2011
	Time	18.25.48	18.15.23
4	Peak Availability (MW)	3229	3434
5	Shortage (-) / Surplus (+) in MW	(-) 5	(+) 140
6	Percentage Shortage (-) / Surplus (+)	(-) 0.15	(+) 4.08
7	Maximum Energy Consume in a day (Mus)	57.094	58.271
8	Energy Consumed during the month	**1599.933**	**1648.330**
9	**Load Shedding in Mus**		
A)	Due to Grid Restrictions		
i)	Under Frequency Relay Operations	0.000	0.001
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	1.282	2.151
	BRPL	1.052	0.585
	BYPL	0.552	0.443
	NDMC	0.000	0.000
	MES	0.000	0.000
iv)	Due to transmission Constraints in Central Sector	0.030	0.000
	Total due to Grid Restriction	**2.916**	3.180
B)	Due to Constraints in System in Mus		
	DTL	0.262	0.270
	NDPL	0.907	0.177
	BRPL	0.161	0.190
	BYPL	0.888	0.184
	NDMC	0.000	0.000
	MES	0.000	0.000
	Other Agencies	0.015	0.644
	Total	**1.612**	**1.465**
11	**Grand Total in Mus**	**4.528**	**4.645**

2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING NOVEMBER 2012

A) For the month of NOVEMBER 2012

All Figures in MUs

S. No	Stations	Gross Generation	Aux. Consumption	Net Generation	Availability (%)	Backing Down
1.	**RPH**	77.782	9.752	68.030	79.24	--
2.	**GT**	94.858	2.559	92.299	83.94	66.274
3.	**PPCL**	224.408	5.333	219.075	97.52	6.73875
4.	**BTPS**	367.854	29.990	337.864	91.92	75.125
5.	**Rithala**	7.016	0.535	6.481	**81.79**	52.009
6.	**Bawana**	181.258	5.116	176.142	98.30	204.577
	TOTAL	**953.176**	**53.285**	**899.891**	**--**	**404.72375**

B) For the Year 2011-12 (Upto NOVEMBER 2012)

Power Station	Effective Capacity (MW)	Net Generation in MUs For Nov 2012	Availability (%) For Nov 2012	PLF (%) For Nov 2012	Cumulative Generation in MUs upto Nov 2012 for the year 2012-13	Cumulative Availability in % upto Nov 2012 for the year 2012-13	Cumulative PLF in % upto Nov 2012 for the year 2012-13
RPH	135	68.030	79.24	79.24	447.133	65.03	64.01
GT	270	92.299	83.94	48.80	907.743	81.82	59.00
PPCL	330	219.075	97.52	94.59	1590.955	87.52	84.88
BTPS	705	337.864	91.92	76.84	2791.97	87.30	76.46
Rithala	108	6.481	**81.79**	10.39	119.433	--	--
Bawana	**677**	176.142	98.30	45.88	906.641	82.84	33.81
TOTAL	**2225**	**899.891**	--	--	**6763.875**	--	--

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	Unit tripped due to grid disturbance.
		11.04.12	5.50	11.04.12	6.30	Flame failure.
		11.04.12	6.55	11.04.12	7.40	Flame failure.
		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 trpped on aux. supply failure due to Stn.-1 tripped.
		07.06.12	10.40	07.06.12	11.10	Unit trpped on aux. supply failure due to Stn.-1 tripped.
		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 Plenned Outage as capital O/H w.e.f. 18/07/2012 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 boier tube leakage.
		08.10.12	1.15	10.10.12	7.30	Unit desynchronised to attend the boier tube leakage.
		27.10.12	10.20	27.10.12	12.20	Unit tripped due to grid disterbance, total dark out.
		27.10.12	14.00	27.10.12	14.50	Unit tripped due to grid disterbance, total dark out.
		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	Turbine trip.
		15.11.12	0.30	16.11.12	2.30	Unit desynchronised to attend the boier 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.
		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	Unit tripped due to grid disturbance.
		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 trpped 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	Furnace pr. very high.
		20.07.12	4.45	20.07.12	5.45	Furnace pr. high.
		22.07.12	10.10	22.07.12	11.05	Turbine vibration high.
		22.07.12	12.00	22.07.12	12.35	Turbine vibration high.
		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	Grid failure, Total dark out.
		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	Furnace pr. very high.
		30.08.12	15.35	30.08.12	16.25	Furnace pr. very high.
		30.08.12	20.35	30.08.12	21.30	Furnace pr. very high.
		04.09.12	13.40	09.09.12	12.00	Unit desynchronised to attend the boier 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 boier 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 disterbance, total dark out.
		27.10.12	14.00	27.10.12	15.00	Unit tripped due to grid disterbance, total dark out.
		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 bkr. 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	Unit tripped due to turbine vibration high.
		29.11.12	2.05	29.11.12	11.50	Unit tripped due to turbine trip.
		29.11.12	12.00	Contd.	.	Unit tripped due to boier tube leakage

(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	

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

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
		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	
3	**30**	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	

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 measurment 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	

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 trouable normal shut down. Machine inspected and Alternate DC supply provided but Diesel engine did not started.M-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 Temperaure 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	30.11.12	23.59	

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 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.
		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	30.11.12	23.59	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

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 Generater transformer standby earth fault 64SGT relay. It is expected that this relay operated due to atmoshpheric 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	

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. Buch-Holtz 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 Generater transformer standby earth fault 64SGT relay. It is expected that this relay operated due to atmoshpheric 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 ejecter 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	30.11.12	23.59	Shutdown for majour overhauling

(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	
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	

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.

(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	Grid Disturbance
		10-08-12	12:08	10-08-12	13:25	Control Supply Cable fault
		12-08-12	11:57	12-08-12	14:20	Control Supply Cable fault
		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	Furnace Disturbance
		14-10-12	6:32	14-10-12	7:12	Furnace Disturbance
		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	Furnace Disturbance
		24-11-12	7:28	contd.		Reserve shutdown
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	Grid Disturbance
		31-07-12	13:01	31-07-12	17:05	Grid Disturbance
		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	Reserve shutdown
		16-10-12	23:05	16-10-12	23:54	Furnace Disturbance
		23-11-12	10:24	23-11-12	11:05	Furnace Disturbance
		27-11-12	23:59	contd.		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	Furnace Disturbance
		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	Grid Disturbance
		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	Furnace Disturbance
		10-08-12	7:15	10-08-12	8:15	Furnace Disturbance
		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	Furnace Disturbance
		20-10-12	9:36	20-10-12	10:15	Furnace Disturbance
		21-10-12	8:27	29-10-12	6:43	Reserve shutdown
		14-11-12	8:56	24-11-12	5:08	Reserve shutdown
		29-11-12	5:05	29-11-12	6:06	Furnace Disturbance
4	210	21.05.12	7:12	21.05.12	15:35	CW Shortage
		26.05.12	8:32	26.05.12	11:28	Grid Disturbance
		06.04.12	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	Grid Disturbance
		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	Furnace Disturbance
		23.08.12	9:37	23.08.12	13:45	Furnace Disturbance
		25.08.12	23:18	26.08.12	0:48	Furnace Disturbance
		18.09.12	2:05	18.09.12	4:05	Furnace Disturbance
		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

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	Grid Disturbance
		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	Water wall Tube Leakage
		06-11-12	16:12	06-11-12	17:06	Furnace 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 eath 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 toLT 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

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%)

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 onCustomer 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

(E) RITHALA POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1		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 temprature 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 themocouple
		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	CONTD.		

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2		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	CONTD.		

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG		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		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	CONTD.		No schedule have been given by SLDC on Spot gas

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**

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 NOVEMBER 2012

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	Rithala	Bawana	BTPS	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	18.48.06	115	119	308	21	277	502	1342	1838	1906	-68	3180	0	3180
2	18.12.08	115	118	306	0	281	458	1278	1860	2018	-158	3138	0	3138
3	18.18.55	115	119	303	0	303	443	1283	1754	1899	-145	3037	5	3042
4	18.47.36	111	120	309	0	226	418	1184	1739	1674	65	2923	0	2923
5	18.34.25	111	159	306	37	278	491	1382	1719	1883	-164	3101	6	3107
6	18.31.00	109	119	309	37	271	507	1352	1764	2068	-304	3116	0	3116
7	18.30.06	103	156	306	31	300	452	1348	1741	1804	-63	3089	0	3089
8	18.24.25	95	156	305	21	10	467	1054	2093	2111	-18	3147	0	3147
9	18.19.36	108	157	289	0	310	452	1316	1835	1846	-11	3151	0	3151
10	10.29.26	114	153	308	21	309	513	1418	1457	1461	-4	2875	2	2877
11	18.45.48	103	114	299	0	278	420	1214	1771	1734	37	2985	0	2985
12	18.36.34	91	156	307	0	266	511	1331	1771	1798	-27	3102	0	3102
13	18.19.04	103	158	308	21	272	444	1306	1604	1885	-281	2910	0	2910
14	19.05.30	96	84	306	0	224	365	1075	1641	1965	-324	2716	0	2716
15	18.33.36	45	83	309	0	219	363	1019	1891	1980	-89	2910	0	2910
16	18.48.04	99	84	310	0	285	435	1213	1861	1904	-43	3074	0	3074
17	18.44.56	103	119	307	0	292	445	1266	1617	1870	-253	2883	0	2883
18	18.15.26	102	119	307	0	279	425	1232	1609	1760	-151	2841	0	2841
19	18.00.06	103	73	309	20	283	408	1196	1695	1765	-70	2891	0	2891
20	18.18.35	103	73	310	0	273	456	1215	1744	1717	27	2959	3	2962
21	18.31.06	105	75	307	0	260	498	1245	1917	1751	166	3162	0	3162
22	18.37.15	105	161	311	20	256	508	1361	1668	1768	-100	3029	0	3029
23	18.25.48	102	159	321	20	258	506	1366	1868	1863	5	3234	0	3234
24	18.27.58	102	159	321	20	258	506	1366	1530	1749	-219	2896	0	2896
25	10.00.00	101	77	317	0	288	512	1295	1457	1443	14	2752	0	2752
26	19.12.32	95	160	315	21	298	282	1171	1826	1558	268	2997	1	2998
27	18.33.10	101	76	314	21	231	517	1260	1742	1814	-72	3002	6	3008
28	10.57.47	104	77	314	0	284	444	1223	1691	1743	-52	2914	12	2926
29	18.05.41	53	160	313	21	276	435	1258	1766	1740	26	3024	4	3028
30	18.41.11	56	162	207	22	183	439	1069	1977	2091	-114	3046	0	3046

7 POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF MAXIMUM UNRESTRICTED DEMAND DURING NOVEMBER 2012

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	Rithala	Bawana	BTPS	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	18.48.06	115	119	308	21	277	502	1342	1838	1906	-68	3180	0	3180
2	18.12.08	115	118	306	0	281	458	1278	1860	2018	-158	3138	0	3138
3	18.18.55	115	119	303	0	303	443	1283	1754	1899	-145	3037	5	3042
4	18.47.36	111	120	309	0	226	418	1184	1739	1674	65	2923	0	2923
5	18.34.25	111	159	306	37	278	491	1382	1719	1883	-164	3101	6	3107
6	18.31.00	109	119	309	37	271	507	1352	1764	2068	-304	3116	0	3116
7	18.30.06	103	156	306	31	300	452	1348	1741	1804	-63	3089	0	3089
8	18.24.25	95	156	305	21	10	467	1054	2093	2111	-18	3147	0	3147
9	18.19.36	108	157	289	0	310	452	1316	1835	1846	-11	3151	0	3151
10	10.29.26	114	153	308	21	309	513	1418	1457	1461	-4	2875	2	2877
11	18.45.48	103	114	299	0	278	420	1214	1771	1734	37	2985	0	2985
12	18.36.34	91	156	307	0	266	511	1331	1771	1798	-27	3102	0	3102
13	18.19.04	103	158	308	21	272	444	1306	1604	1885	-281	2910	0	2910
14	19.05.30	96	84	306	0	224	365	1075	1641	1965	-324	2716	0	2716
15	18.33.36	45	83	309	0	219	363	1019	1891	1980	-89	2910	0	2910
16	18.48.04	99	84	310	0	285	435	1213	1861	1904	-43	3074	0	3074
17	18.44.56	103	119	307	0	292	445	1266	1617	1870	-253	2883	0	2883
18	18.15.26	102	119	307	0	279	425	1232	1609	1760	-151	2841	0	2841
19	18.00.06	103	73	309	20	283	408	1196	1695	1765	-70	2891	0	2891
20	18.18.35	103	73	310	0	273	456	1215	1744	1717	27	2959	3	2962
21	18.31.06	105	75	307	0	260	498	1245	1917	1751	166	3162	0	3162
22	18.37.15	105	161	311	20	256	508	1361	1668	1768	-100	3029	0	3029
23	18.25.48	102	159	321	20	258	506	1366	1868	1863	5	3234	0	3234
24	18.27.58	102	159	321	20	258	506	1366	1530	1749	-219	2896	0	2896
25	10.00.00	101	77	317	0	288	512	1295	1457	1443	14	2752	0	2752
26	19.12.32	95	160	315	21	298	282	1171	1826	1558	268	2997	1	2998
27	18.33.10	101	76	314	21	231	517	1260	1742	1814	-72	3002	6	3008
28	10.57.47	104	77	314	0	284	444	1223	1691	1743	-52	2914	12	2926
29	18.05.41	53	160	313	21	276	435	1258	1766	1740	26	3024	4	3028
30	18.00.00	55	160	206	22	78	440	961	1928	1846	83	2889	166	3055

8 SOURCEWISE SCHEDULED DRAWL FROM NORTHERN GRID AS WELL AS AVAILABILITY WITHIN DELHI FOR NOVEMBER 2012

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

A (i) RPH	77.782
(ii) GT+STG	94.858
(iii) PRAGATI	224.408
(iv) RITHALA	7.019
(v) BAWANA CCGT	181.322
TOTAL	585.322
B) AVAILABILITY FROM BTPS	337.866
C) AUXILIARY CONSUMPTION OF GENERATING STNs. EXCLUDING BTPS	23.295
D) NET GENERATION AVAILABLE WITHIN DELHI(A+B-C)	**899.893**

B) SOURCE WISE SCHEDULED DRAWL FROM THE NORTHERN GRID

NAME OF THE STATION	AVAILABILITY AT POWER PLANT	AVAILABILITY AT DELHI PERIPHERY	ALLOCATION MADE BY NRLDC AT POWER PLANT	ALLOCATION MADE BY NRLDC AT DELHI PERIPHERY
B/SUIL	2.264	2.185	0.661	0.638
SALAL	12.229	11.799	3.568	3.443
TANKAPUR	3.713	3.583	1.084	1.046
CHAMERA	5.592	5.396	1.632	1.575
CHAMERA -II	6.812	6.573	1.988	1.918
CHAMERA -III	3.958	3.819	2.880	2.779
DHAULIGANGA	5.969	5.760	1.742	1.681
SEWA -2	1.084	1.046	0.316	0.305
URI	9.276	8.951	2.706	2.611
KOTESHWAR	4.527	4.366	4.527	4.366
MUNDRA_UMPP	0.000	0.000	0.000	0.000
ANTA (GAS)	18.234	17.593	15.287	14.742
ANTA (RLNG)	8.694	8.394	0.301	0.290
ANTA (LIQUID)	0.000	0.000	0.000	0.000
DADRI (GAS)	33.030	31.869	26.590	25.643
DADRI (RLNG)	32.903	31.733	0.704	0.679
DADRI (LIQUID)	0.000	0.000	0.000	0.000
AURAIYA (GAS)	13.652	13.161	11.881	11.451
AURAIYA (RLNG)	37.735	36.407	0.840	0.811
AURAIYA (LIQUID)	0.000	0.000	0.000	0.000
SINGRAULI	100.741	97.169	100.525	96.962
RIHAND -I	33.688	32.500	33.585	32.400
RIHAND -II	84.369	81.390	83.615	80.665
RIHAND -III	5.390	5.185	5.390	5.185
UNCHAHAR-I	15.680	15.123	15.101	14.564
UNCHAHAR-II	32.290	31.148	31.137	30.035
UNCHAHAR-III	20.071	19.361	19.356	18.672
DADRI (TH)	524.534	505.984	499.497	481.842
DADRI (TH) STAGE-II	526.500	507.879	521.510	503.077
NAPP	21.393	20.636	21.393	20.636
RAPP 'B'	0.000	0.000	0.000	0.000
RAPP 'C'	40.018	38.603	40.018	38.603
NATHPA JHAKRI	25.545	24.647	25.545	24.647
DULASTI	13.864	13.377	4.045	3.903
TEHRI	17.819	17.183	17.819	17.183
JHAJJAR	113.987	110.009	22.211	21.421
KHELGAON	31.725	30.602	31.505	30.390
KHELGAON-II	64.682	62.402	64.292	62.026
FARAKA	11.328	10.922	10.814	10.426
TALA	4.267	4.119	4.267	4.119
TALCHER	0.000	0.000	0.000	0.000
DVC	161.067	158.992	158.992	153.366
CHATTISHGARH	0.000	0.000	0.000	0.000
ANDHRA	0.000	0.000	0.000	0.000
DVC TATA STEEL	0.000	0.000	0.000	0.000

DVC CTPS (BRPL)	21.919	21.642	21.642	20.897
DVC CTPS (BYPL)	12.656	12.495	12.495	12.060
DVC CTPS (NDPL)	0.000	0.000	0.000	0.000
METHON POWER(NDPL)LT-06	153.827	151.856	151.856	146.530
DVC MEJIA (LT-08)(BYPL)	70.346	69.441	69.441	66.993
DVC (FOR NDPL) LT-09	23.831	23.524	23.524	22.693
HARYANA (LT-05)	27.974	28.428	28.428	27.415
KARNATAKA	0.000	0.000	0.000	0.000
URS	0.000	0.000	0.000	0.000
UTTRANCHAL	0.000	0.000	0.000	0.000
TO UTTRANCHAL	-17.364	-17.643	-17.643	-18.290
TO UTTAR PRADESH	-40.783	-41.585	-41.585	-43.148
TO GUJRAT	-0.422	-0.430	-0.430	-0.448
TO WEST BENGAL	-0.291	-0.294	-0.294	-0.305
TO MADHYA PRADESH	-147.798	-150.184	-150.184	-155.694
TO JAMMU & KASHMIR	-169.082	-171.803	-171.803	-178.105
TO MAHARASHTRA	-150.625	-153.523	-153.523	-159.148
TO RAJASTHAN	-34.828	-35.389	-35.389	-36.686
TO TAMILNADU	-2.175	-2.217	-2.217	-2.299
TO JHARKHAND	-28.545	-28.829	-28.829	-29.886
TO HIMACHAL PRADESH	-45.133	-45.865	-45.865	-47.560
POWER EXCHANGE(IEX)	0.142	0.136	0.142	0.136
TO POWER EXCHANGE (IEX)	-464.909	-481.894	-464.909	-481.894
POWRER EXCHANGE(PX)	0.000	0.000	0.000	0.000
TO POWER EXCHANGE (PX)	-3.748	-3.888	-3.748	-3.888
TO SHARE PROJECT (HARYANA)	-17.747	-18.391	-17.747	-18.391
TO SHARE PROJECT (PUNJAB)	-0.336	-0.347	-0.336	-0.347
TOTAL	**1235.542**	**1135.108**	**960.350**	**844.736**

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	1487.512	1434.897	1365.321	1317.017
NTPC - ER	107.734	103.926	106.611	102.842
NHPC	64.762	62.491	20.622	19.899
NPC	61.411	59.239	61.411	59.239
KOTESHWAR	4.527	4.366	4.527	4.366
MUNDRA_UMPP	0.000	0.000	0.000	0.000
NATHPA JHAKRI	25.545	24.647	25.545	24.647
TEHRI	17.819	17.183	17.819	17.183
TALA	4.267	4.119	4.267	4.119
JHAJJAR	113.987	110.009	22.211	21.421
TALCHER	0.000	0.000	0.000	0.000
DVC	161.067	158.992	158.992	153.366
CHATTISHGARH	0.000	0.000	0.000	0.000
ANDHRA	0.000	0.000	0.000	0.000
DVC TATA STEEL	0.000	0.000	0.000	0.000
DVC CTPS (BRPL)	21.919	21.642	21.642	20.897
DVC CTPS (BYPL)	12.656	12.495	12.495	12.060
DVC CTPS (NDPL)	0.000	0.000	0.000	0.000
METHON POWER (NDPL)-LT-06	153.827	151.856	151.856	146.530
DVC MEJIA (LT-08)(BYPL)	70.346	69.441	69.441	66.993
ORISSA	0.000	0.000	0.000	0.000
SIKKIM	0.000	0.000	0.000	0.000
DVC (FOR NDPL) LT-09	23.831	23.524	23.524	22.693
HARYANA (LT -05)	27.974	28.428	28.428	27.415
KARNATAKA	0.000	0.000	0.000	0.000
URS	0.000	0.000	0.000	0.000
UTTRANCHAL	0.000	0.000	0.000	0.000
POWER EXCHANGE(IEX)	0.142	0.136	0.142	0.136
POWER EXCHANGE(PX)	0.000	0.000	0.000	0.000
TOTAL	**2359.326**	**2287.391**	**2084.853**	**2020.825**

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 UTTRANCHAL	-17.364	-17.643	-17.643	-18.290
TO UTTAR PRADESH	-40.783	-41.585	-41.585	-43.148
TO GUJRAT	-0.422	-0.430	-0.430	-0.448
TO MADHYA PRADESH	-147.798	-150.184	-150.184	-155.694
TO WEST BENGAL	-0.291	-0.294	-0.294	-0.305
TO JAMMU & KASHMIR	-169.082	-171.803	-171.803	-178.105
TO MAHARASHTRA	-150.625	-153.523	-153.523	-159.148
TO RAJASTHAN	-34.828	-35.389	-35.389	-36.686
TO TAMILNADU	-2.175	-2.217	-2.217	-2.299
TO JHARKHAND	-28.545	-28.829	-28.829	-29.886
TO HIMACHAL PRADESH	-45.133	-45.865	-45.865	-47.560
TO POWER EXCHANGE (IEX)	-464.909	-481.894	-464.909	-481.894
TO POWER EXCHANGE (PX)	-3.748	-3.888	-3.748	-3.888
TO SHARE PROJECT (HARYANA)	-17.747	-18.391	-17.747	-18.391
TO SHARE PROJECT (PUNJAB)	-0.336	-0.347	-0.336	-0.347
TOTAL	**-1123.785**	**-1152.283**	**-1134.503**	**-1176.089**
TOTAL SCHEDULED DRAWAL FROM THE GRID	**1235.542**	**1135.108**	**960.350**	**844.736**
TOTAL CONSUMPTION INCLUDING AUX. OF GENERATING STNs. EXCLUDING BTPS				1623.228
NET CONSUMPTION				1599.933
AVAILABILITY WITHIN DELHI				899.893
ACTUAL DRAWAL FROM THE GRID				700.040
OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID ON THE BASIS OF SCHEDULED ALLOCATION MADE BY NRLDC TO DELHI AT PERIPHERY				-144.696
LOAD SHEDDING				**4.528**
UNRESTRICTED DEMAND (GROSS)				**1627.756**
UNRESTRICTED DEMAND (NET)				**1604.461**
MAX. NET CONSUMPTION				57.094Mus. ON 12.11.2012
MAX. LOAD SHEDDING				380MW ON 30.11.2012 AT 12.30HRS.
PEAK LOAD	Peak Demand during the month			SHEDDING AT PEAK TIME
DAY PEAK	3057MW AT 11.30.00HRS ON 02.11.2012			74MW
EVENING PEAK	3234MW AT 18.25.48HRS ON 23.11.2012			NIL
P.L.F. OF GENCO AND PRAGATI STNs.	RPH			80.02%
	GT			48.80%
	PRAGATI			94.45%
	RITHALA			9.02%
	BAWANA			36.81%

9 SHEDDING DETAILS DURING THE MONTH OF NOVEMBER 2012.

ALL FIGURES IN MUs

DATE	No. of Under Freq. Relay Operated	Shedding due to under frequency relay operation in MUs					Shedding due to Grid Restrictions (Over drawal / low freq.)			
		BSES		NDPL	NDMC	TOTAL	BSES		NDPL	NDMC
		BYPL	BRPL				BYPL	BRPL		
1	2	3	4	5	6	7=3 to 6	8	9	10	11
1-Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2- Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.151	0.066	0.065	0.000
3- Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4-Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5- Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.018	0.015	0.000
6- Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.021	0.003	0.000
7- Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.032	0.000
8-Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.130	0.188	0.233	0.000
9- Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.014	0.000
10-Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.018	0.000
13-Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14-Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15-Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16-Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.004	0.015	0.002	0.000
17-Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18-Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.067	0.000	0.000
19-Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20-Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21-Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.024	0.010	0.017	0.000
22-Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.064	0.000
23-Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.000
24-Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25-Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.000
26-Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.006	0.029	0.098	0.000
27-Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28-Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.116	0.112	0.000
29-Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.037	0.000
30-Nov-12	0	0.000	0.000	0.000	0.000	0.000	0.237	0.488	0.541	0.000
TOTAL	0	0.000	0.000	0.000	0.000	0.000	0.552	1.052	1.282	0.000

ALL FIGURES IN MUs

Date	Shedding due to Transmission/Grid Constraints in Central Sector Stations / TTC / ATC VOILATION				TOTAL	TOTAL SHEDDING DUE TO GRID RESTRICTIONS	Due to T&D Constraints				
							DTL				
	BSES		NDPL	NDMC			BSES		NDPL	NDMC	MES
	BYPL	BRPL					BYPL	BRPL			
1	12	13	14	15	**16=8to15**	**17=16+7**	18	19	20	21	22
1-Nov-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2- Nov-12	0.000	0.000	0.000	0.000	0.282	0.282	0.000	0.000	0.039	0.000	0.000
3- Nov-12	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.005	0.000	0.000
4-Nov-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.000	0.000
5- Nov-12	0.000	0.000	0.000	0.000	0.033	0.033	0.020	0.004	0.000	0.000	0.000
6- Nov-12	0.000	0.000	0.000	0.000	0.024	0.024	0.000	0.000	0.000	0.000	0.000
7- Nov-12	0.000	0.000	0.000	0.000	0.032	0.032	0.000	0.083	0.000	0.000	0.000
8-Nov-12	0.000	0.000	0.000	0.000	0.551	0.551	0.000	0.000	0.000	0.000	0.000
9- Nov-12	0.000	0.000	0.000	0.000	0.014	0.014	0.000	0.000	0.000	0.000	0.000
10-Nov-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-Nov-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-Nov-12	0.000	0.000	0.000	0.000	0.022	0.022	0.000	0.000	0.000	0.000	0.000
13-Nov-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14-Nov-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15-Nov-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16-Nov-12	0.000	0.000	0.000	0.000	0.021	0.021	0.000	0.000	0.000	0.000	0.000
17-Nov-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18-Nov-12	0.000	0.000	0.000	0.000	0.067	0.067	0.000	0.000	0.000	0.000	0.000
19-Nov-12	0.000	0.000	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000
20-Nov-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21-Nov-12	0.000	0.000	0.000	0.000	0.051	0.051	0.000	0.000	0.000	0.000	0.000
22-Nov-12	0.000	0.000	0.000	0.000	0.074	0.074	0.000	0.000	0.000	0.000	0.000
23-Nov-12	0.000	0.000	0.000	0.000	0.011	0.011	0.000	0.000	0.000	0.000	0.000
24-Nov-12	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.036	0.001	0.003	0.000
25-Nov-12	0.000	0.000	0.000	0.000	0.020	0.020	0.000	0.000	0.000	0.000	0.000
26-Nov-12	0.000	0.000	0.000	0.000	0.133	0.133	0.000	0.000	0.000	0.000	0.000
27-Nov-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.000	0.000	0.000
28-Nov-12	0.000	0.000	0.000	0.000	0.228	0.228	0.000	0.000	0.000	0.000	0.000
29-Nov-12	0.000	0.000	0.000	0.000	0.057	0.057	0.000	0.000	0.010	0.000	0.000
30-Nov-12	0.005	0.025	0.000	0.000	1.296	1.296	0.003	0.000	0.000	0.000	0.000
TOTAL	0.005	0.025	0.000	0.000	2.916	2.916	0.053	0.140	0.066	0.003	0.000

ALL FIGURES IN MUs

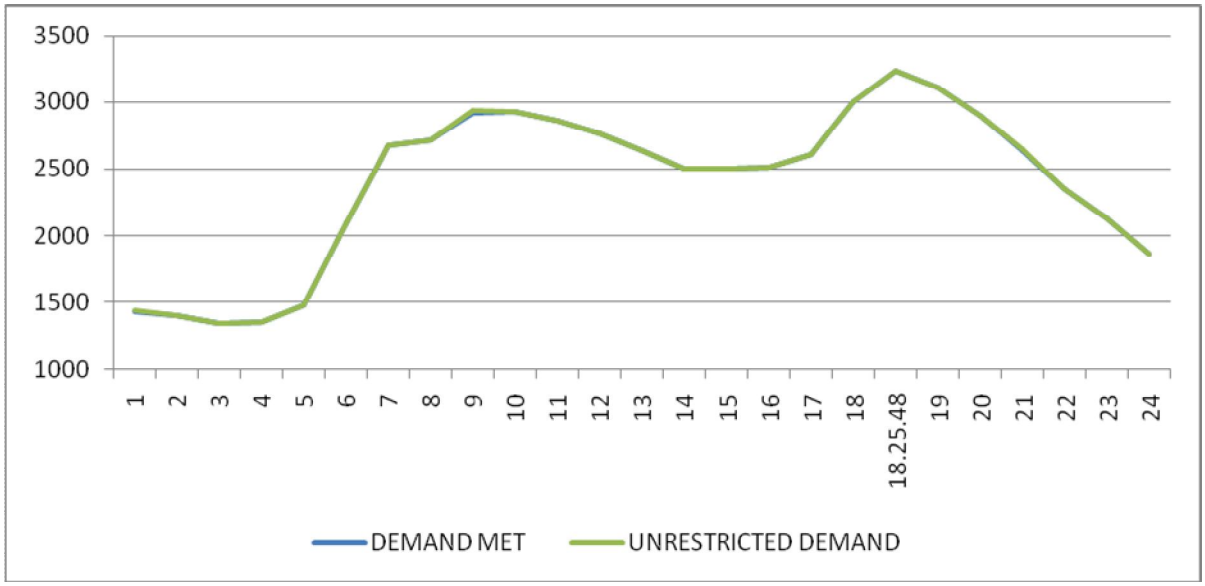
DATE	DUE TO T&D CONTRAINTS				OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.	THEFT PRONE SHEDDING			TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE	GRAND TOTAL
	DISCOMS									
	BSES		NDPL	NDMC		BSES		NDPL		
	BYPL	BRPL				BYPL	BRPL			
1	23	24	25		26	27	28	29	30=18 to29	31=30+17
1-Nov-12	0.001	0.013	0.000	0.000	0.000	0.021	0.000	0.018	0.053	0.053
2- Nov-12	0.000	0.000	0.000	0.000	0.000	0.022	0.000	0.007	0.068	0.350
3- Nov-12	0.000	0.000	0.041	0.000	0.000	0.000	0.000	0.019	0.070	0.070
4-Nov-12	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.025	0.040	0.040
5- Nov-12	0.000	0.000	0.000	0.000	0.000	0.017	0.000	0.044	0.085	0.118
6- Nov-12	0.014	0.014	0.008	0.000	0.000	0.020	0.000	0.046	0.102	0.126
7- Nov-12	0.000	0.000	0.007	0.000	0.000	0.015	0.000	0.073	0.178	0.210
8-Nov-12	0.000	0.025	0.000	0.000	0.000	0.015	0.000	0.055	0.095	0.646
9- Nov-12	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.079	0.088	0.102
10-Nov-12	0.003	0.000	0.012	0.000	0.000	0.000	0.000	0.025	0.040	0.040
11-Nov-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-Nov-12	0.000	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.038
13-Nov-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14-Nov-12	0.000	0.000	0.0003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15-Nov-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013	0.013	0.013
16-Nov-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.018	0.018	0.039
17-Nov-12	0.000	0.000	0.026	0.000	0.000	0.000	0.000	0.012	0.038	0.038
18-Nov-12	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.018	0.028	0.095
19-Nov-12	0.000	0.000	0.003	0.000	0.000	0.024	0.000	0.011	0.046	0.046
20-Nov-12	0.020	0.008	0.000	0.000	0.000	0.020	0.000	0.003	0.051	0.051
21-Nov-12	0.000	0.000	0.001	0.000	0.000	0.009	0.000	0.035	0.045	0.096
22-Nov-12	0.000	0.005	0.001	0.000	0.000	0.012	0.000	0.018	0.036	0.110
23-Nov-12	0.004	0.006	0.000	0.000	0.006	0.005	0.000	0.038	0.059	0.070
24-Nov-12	0.002	0.034	0.001	0.000	0.000	0.000	0.000	0.019	0.113	0.1130
25-Nov-12	0.000	0.000	0.025	0.000	0.000	0.000	0.000	0.000	0.025	0.045
26-Nov-12	0.006	0.001	0.000	0.000	0.000	0.005	0.000	0.037	0.049	0.182
27-Nov-12	0.006	0.000	0.003	0.000	0.002	0.006	0.000	0.051	0.085	0.085
28-Nov-12	0.000	0.035	0.000	0.000	0.000	0.007	0.000	0.077	0.119	0.347
29-Nov-12	0.000	0.004	0.000	0.000	0.007	0.000	0.000	0.016	0.037	0.094
30-Nov-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.014	1.310
TOTAL	**0.069**	**0.161**	**0.139**	**0.000**	**0.015**	**0.198**	**0.000**	**0.768**	**1.612**	**4.528**

DATE	(NET CONS.)	MAXI. DEMAND MET DURING THE DAY	TIME OF OCCUR-RENCE OF MAX DEMAND	SHEDDING AT THIS TIME	UN-REST-RICTED DEMAND	MAXIMUM UN-REST-RICTED DEMAND DURING THE DAY	TIME OF MAX. UN-REST. DEMAND	DEMAND AT THAT TIME	SHEDDING AT THAT TIME
	In Mus.	IN MW	IN HRS.	IN MW	IN MW	IN MW	HRS.	IN MW	IN MW
1	32	33	34	35	36=33+35	37=39+40	38	39	40
1-Nov-12	56.500	3180	18:48:06	0	3180	3180	18:48:06	3180	0
2- Nov-12	56.515	3138	18:12:08	0	3138	3138	18:12:08	3138	0
3- Nov-12	54.893	3037	18:18:55	5	3042	3042	18:18:55	3037	5
4-Nov-12	52.227	2923	18:47:36	0	2923	2923	18:47:36	2923	0
5- Nov-12	54.648	3101	18:34:25	6	3107	3107	18:34:25	3101	6
6- Nov-12	55.770	3116	18:31:00	0	3116	3116	18:31:00	3116	0
7- Nov-12	55.287	3089	18:30:06	0	3089	3089	18:30:06	3089	0
8-Nov-12	54.966	3147	18:24:25	0	3147	3147	18:24:25	3147	0
9- Nov-12	56.290	3151	18:19:36	0	3151	3151	18:19:36	3151	0
10-Nov-12	55.378	2875	10:29:26	2	2877	2877	10:29:26	2875	2
11-Nov-12	53.370	2985	18:45:48	0	2985	2985	18:45:48	2985	0
12-Nov-12	57.094	3102	18:36:34	0	3102	3102	18:36:34	3102	0
13-Nov-12	51.377	2910	18:19:04	0	2910	2910	18:19:04	2910	0
14-Nov-12	49.130	2716	19:05:30	0	2716	2716	19:05:30	2716	0
15-Nov-12	51.507	2910	18:33:36	0	2910	2910	18:33:36	2910	0
16-Nov-12	54.845	3074	18:48:04	0	3074	3074	18:48:04	3074	0
17-Nov-12	53.481	2883	18:44:56	0	2883	2883	18:44:56	2883	0
18-Nov-12	50.617	2841	18:15:26	0	2841	2841	18:15:26	2841	0
19-Nov-12	52.199	2891	18:00:06	0	2891	2891	18:00:06	2891	0
20-Nov-12	52.754	2959	18:18:35	3	2962	2962	18:18:35	2959	3
21-Nov-12	51.740	3162	18:31:06	0	3162	3162	18:31:06	3162	0
22-Nov-12	53.107	3029	18:37:15	0	3029	3029	18:37:15	3029	0
23-Nov-12	53.511	3234	18:25:48	0	3234	3234	18:25:48	3234	0
24-Nov-12	51.686	2896	18:27:58	0	2896	2896	18:27:58	2896	0
25-Nov-12	49.388	2752	10:00	0	2752	2752	10:00	2752	0
26-Nov-12	51.288	2997	19:12:32	1	2998	2998	19:12:32	2997	1
27-Nov-12	53.709	3002	18:33:10	6	3008	3008	18:33:10	3002	6
28-Nov-12	50.304	2914	10:57:47	12	2926	2926	10:57:47	2914	12
29-Nov-12	53.010	3024	18:05:41	4	3028	3028	18:05:41	3024	4
30-Nov-12	53.342	3046	18:41:11	0	3046	3046	18:41:11	3046	0
Total	**1599.933**	**3234** 23.11.12	**18:25:48**	**0**	**3234** 23.11.12	**3234**	**18:25:48**	**3234**	**0**

10 LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING NOVEMBER 2012 ON 23.11.2012- 3234MW at 18.25.48HRS.

All figures in MW

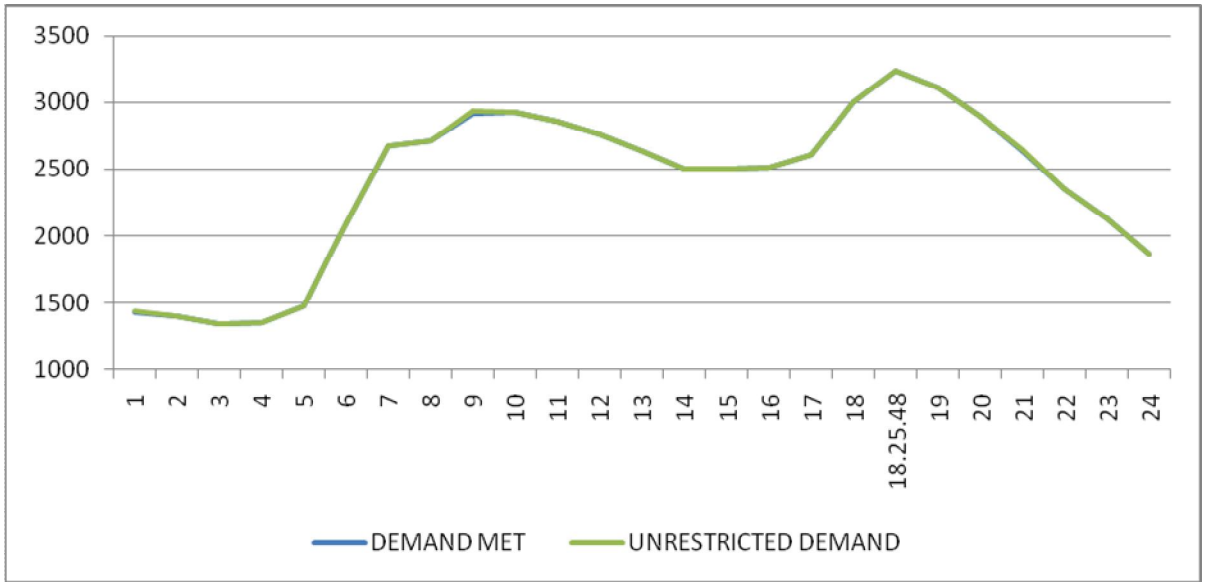
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1	1429	5	1434
2	1403	0	1403
3	1339	0	1339
4	1353	0	1353
5	1479	0	1479
6	2095	0	2095
7	2674	0	2674
8	2714	0	2714
9	2914	21	2935
10	2923	0	2923
11	2857	0	2857
12	2758	5	2763
13	2636	0	2636
14	2508	0	2508
15	2503	0	2503
16	2512	5	2517
17	2609	0	2609
18	3002	0	3002
18.25.48	3234	0	3234
19	3111	0	3111
20	2897	0	2897
21	2636	14	2650
22	2353	0	2353
23	2127	0	2127
24	1861	0	1861
ENERGY IN MUS	**53.511**	**0.070**	**53.581**



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING NOVEMBER 2012 ON 23.11.2012- 3234MW at 18.25.48HRS.

All figures in MW

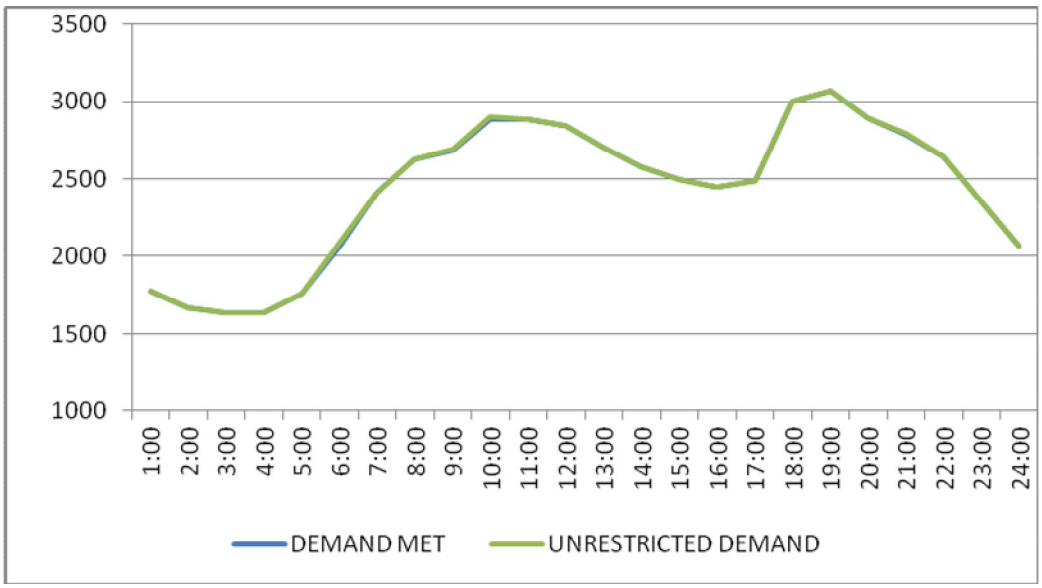
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1	1429	5	1434
2	1403	0	1403
3	1339	0	1339
4	1353	0	1353
5	1479	0	1479
6	2095	0	2095
7	2674	0	2674
8	2714	0	2714
9	2914	21	2935
10	2923	0	2923
11	2857	0	2857
12	2758	5	2763
13	2636	0	2636
14	2508	0	2508
15	2503	0	2503
16	2512	5	2517
17	2609	0	2609
18	3002	0	3002
18.25.48	3234	0	3234
19	3111	0	3111
20	2897	0	2897
21	2636	14	2650
22	2353	0	2353
23	2127	0	2127
24	1861	0	1861
ENERGY IN MUS	**53.511**	**0.070**	**53.581**



12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING NOVEMBER 2012 – 12.11.2012 – 57.094 Mus

All figures in MW

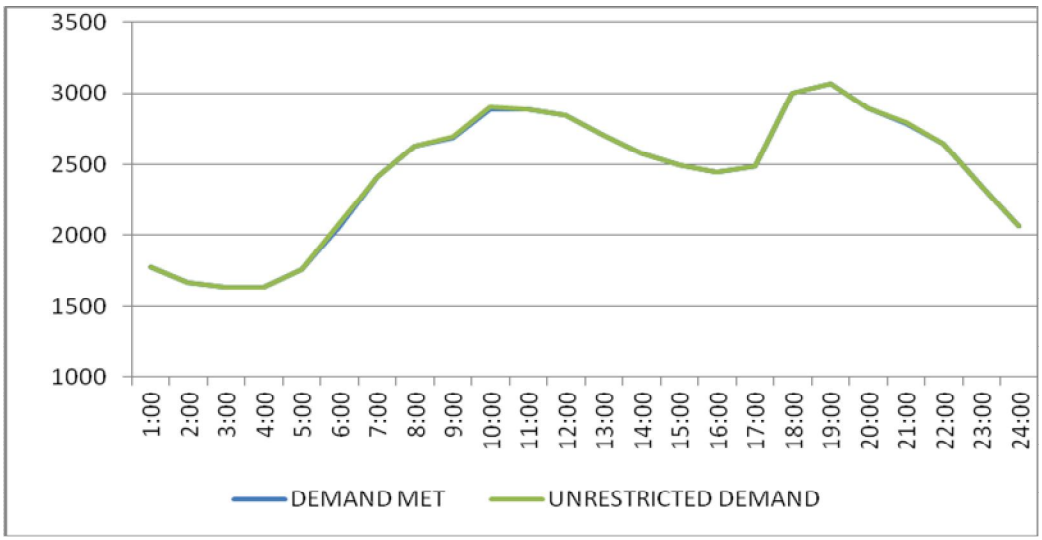
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1:00	1776	0	1776
2:00	1668	0	1668
3:00	1639	0	1639
4:00	1634	0	1634
5:00	1763	0	1763
6:00	2054	28	2082
7:00	2416	0	2416
8:00	2626	0	2626
9:00	2685	8	2693
10:00	2884	20	2904
11:00	2882	0	2882
12:00	2848	0	2848
13:00	2705	0	2705
14:00	2576	0	2576
15:00	2497	0	2497
16:00	2450	0	2450
17:00	2484	0	2484
18:00	2997	0	2997
19:00	3064	0	3064
20:00	2895	0	2895
21:00	2788	6	2794
22:00	2648	0	2648
23:00	2350	0	2350
24:00	2063	0	2063
ENERGY IN MUS	**57.094**	**0.038**	**57.132**



13 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING NOVEMBER 2012 – 12.11.2012 – 57.132 Mus

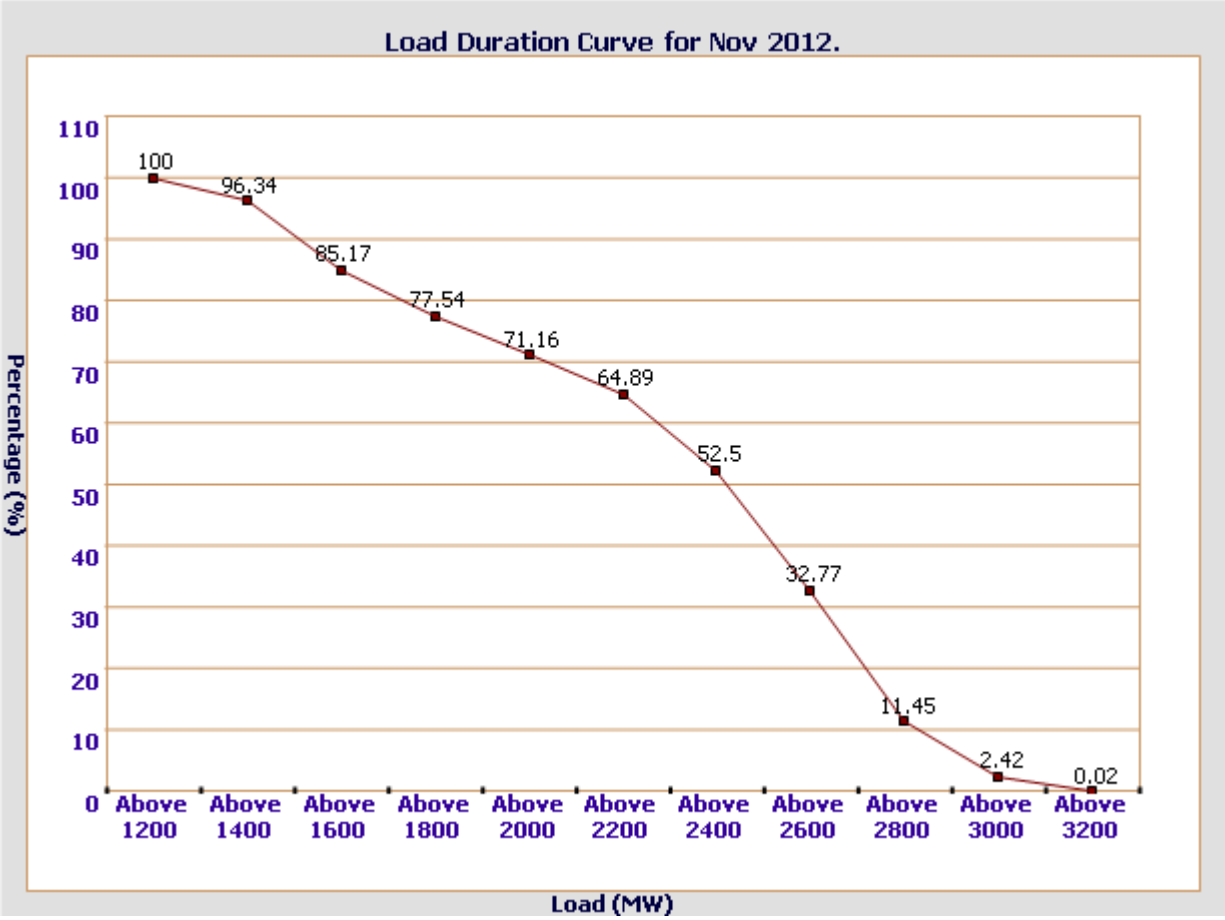
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
1:00	1776	0	1776
2:00	1668	0	1668
3:00	1639	0	1639
4:00	1634	0	1634
5:00	1763	0	1763
6:00	2054	28	2082
7:00	2416	0	2416
8:00	2626	0	2626
9:00	2685	8	2693
10:00	2884	20	2904
11:00	2882	0	2882
12:00	2848	0	2848
13:00	2705	0	2705
14:00	2576	0	2576
15:00	2497	0	2497
16:00	2450	0	2450
17:00	2484	0	2484
18:00	2997	0	2997
19:00	3064	0	3064
20:00	2895	0	2895
21:00	2788	6	2794
22:00	2648	0	2648
23:00	2350	0	2350
24:00	2063	0	2063
ENERGY IN MUS	**57.094**	**0.038**	**57.132**



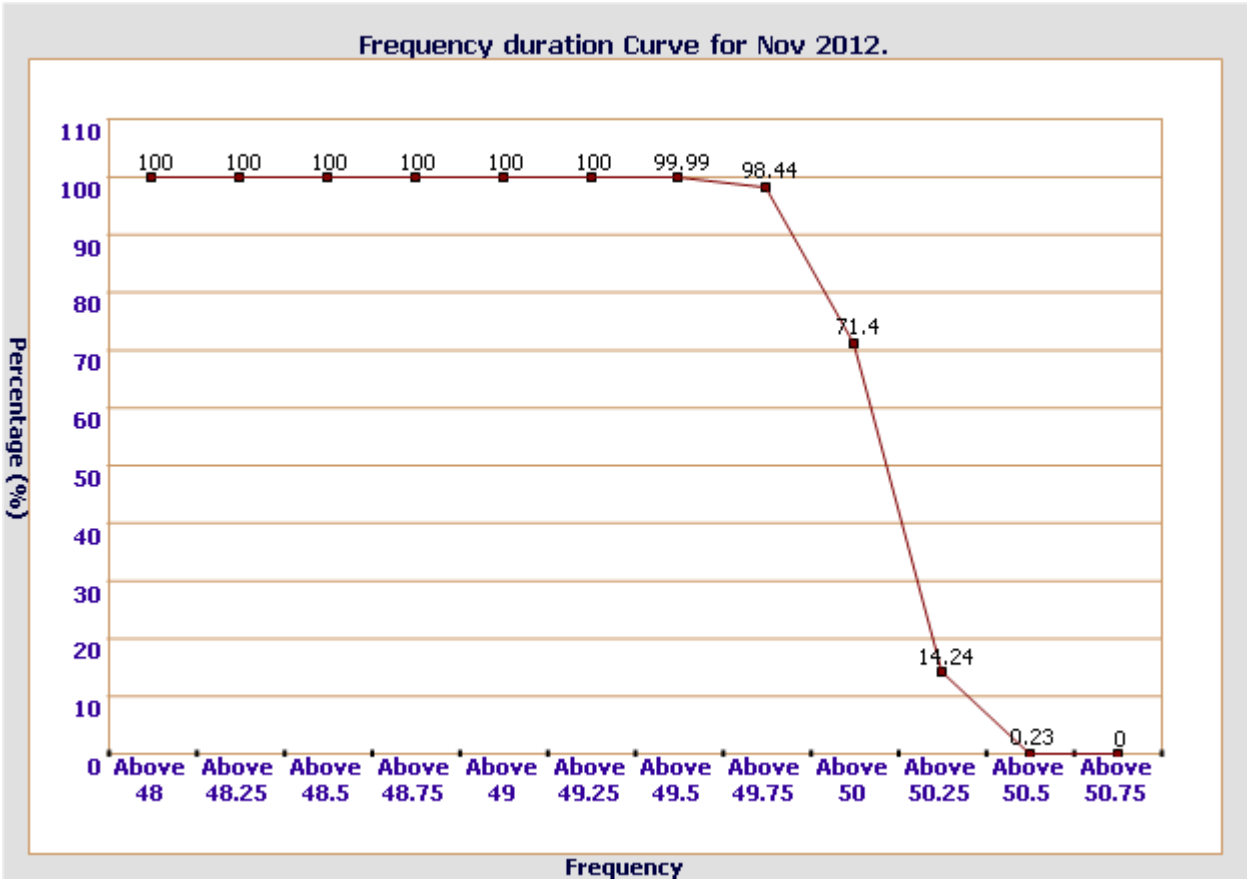
14 LOAD DURATION CURVE FOR NOVEMBER 2012

Load in MW	Percentage of Time
Above 1200	100 %
Above 1400	96.34 %
Above 1600	85.17 %
Above 1800	77.54 %
Above 2000	71.16 %
Above 2200	64.89 %
Above 2400	52.5 %
Above 2600	32.77 %
Above 2800	11.45 %
Above 3000	2.42 %
Above 3200	0.02 %



15 FREQUENCY ANALYSIS FOR THE MONTH OF NOVEMBER 2012

Frequency Range in Hz.	Percentage of time
Above 49.25	100 %
Above 49.5	99.99 %
Above 49.75	98.44 %
Above 50	71.4 %
Above 50.25	14.24 %
Above 50.5	0.23 %
Above 50.75	0 %



16 VOLTAGE PROFILE OF 220 KV SUB-STATIONS IN DELHI DURING NOVEMBER 2012

All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
1-Nov-12	233.31	219.64	230.21	218.22
2- Nov-12	231.24	219.89	230.08	217.70
3- Nov-12	227.50	216.93	230.08	--
4-Nov-12	229.82	220.28	229.95	213.44
5- Nov-12	231.50	217.70	231.24	210.87
6- Nov-12	230.08	220.28	229.95	207.38
7- Nov-12	231.76	219.51	228.66	206.74
8-Nov-12	238.85	220.28	224.02	207.51
9- Nov-12	240.53	226.86	226.73	205.06
10-Nov-12	242.72	227.50	228.28	202.87
11-Nov-12	240.53	230.60	227.63	204.67
12-Nov-12	244.27	229.44	228.66	204.80
13-Nov-12	244.27	231.89	227.89	206.87
14-Nov-12	244.14	234.72	230.47	207.64
15-Nov-12	245.04	231.76	231.50	205.96
16-Nov-12	245.04	229.18	230.73	204.67
17-Nov-12	242.20	227.50	228.66	204.67
18-Nov-12	243.11	232.40	230.21	207.51
19-Nov-12	244.66	231.24	229.95	--
20-Nov-12	243.49	228.28	232.53	202.48
21-Nov-12	242.20	229.95	230.47	203.00
22-Nov-12	244.66	229.18	232.66	203.13
23-Nov-12	243.49	228.79	231.50	202.74
24-Nov-12	242.85	229.18	231.76	207.64
25-Nov-12	244.62	232.02	231.76	212.41
26-Nov-12	244.91	231.50	232.02	203.00
27-Nov-12	244.78	230.73	232.02	204.29
28-Nov-12	243.11	229.31	232.40	219.76
29-Nov-12	244.14	227.63	231.50	--
30-Nov-12	245.69	228.18	234.47	--

17 VOLTAGE PROFILE OF 400 KV SUB-STATIONS IN DELHI DURING NOVEMBER 2012

All figures in kV

Date	400kV Bamnauli Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
1-Nov-12	420.91	03.03.43	400.51	11.19.18	411.78
2- Nov-12	418.56	03.40.17	402.15	11.05.44	411.03
3- Nov-12	418.56	03.03.00	402.62	11.12.49	413.02
4-Nov-12	418.33	20.58.04	406.84	12.14.22	412.01
5- Nov-12	418.56	03.29.09	403.79	11.14.38	410.92
6- Nov-12	418.56	20.48.49	402.15	09.19.00	410.10
7- Nov-12	419.50	03.04.10	402.85	09.43.04	410.32
8-Nov-12	415.05	23.28.52	--	--	--
9- Nov-12	416.69	03.05.06	402.85	10.51.18	409.27
10-Nov-12	416.92	02.04.24	400.27	18.25.34	408.39
11-Nov-12	418.56	03.03.07	401.92	10.44.25	409.51
12-Nov-12	418.56	03.04.51	397.93	11.18.28	409.13
13-Nov-12	415.52	15.05.21	400.51	18.34.45	409.08
14-Nov-12	418.33	03.40.21	405.20	18.08.37	412.92
15-Nov-12	420.91	04.05.28	401.92	17.54.14	411.65
16-Nov-12	420.21	01.58.28	400.27	11.10.46	409.26
17-Nov-12	417.86	03.02.53	396.76	10.17.29	407.69
18-Nov-12	418.33	04.51.01	402.35	11.10.38	410.90
19-Nov-12	418.56	03.25.43	400.98	10.22.07	409.55
20-Nov-12	419.27	03.09.32	398.40	18.20.46	408.02
21-Nov-12	418.56	03.12.38	397.23	10.18.26	407.76
22-Nov-12	420.67	04.03.08	399.34	17.53.32	409.09
23-Nov-12	420.21	04.04.36	398.40	10.11.42	408.82
24-Nov-12	419.77	04.02.22	398.40	10.27.18	408.38
25-Nov-12	420.21	23.53.16	401.45	11.13.04	412.64
26-Nov-12	423.25	03.03.09	401.68	10.12.08	411.79
27-Nov-12	424.19	03.08.32	403.32	17.45.07	412.16
28-Nov-12	421.85	03.24.23	400.27	11.12.28	411.28
29-Nov-12	422.79	03.14.57	400.27	10.41.05	410.05
30-Nov-12	425.36	03.05.44	399.10	17.40.47	411.02

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
1-Nov-12	426.54	03.04.23	379.64	12.12.51	419.45
2- Nov-12	427.47	21.44.30	410.83	11.05.54	419.28
3- Nov-12	426.30	21.53.58	411.30	11.11.19	421.86
4-Nov-12	426.77	20.54.04	415.05	11.38.00	420.71
5- Nov-12	426.07	20.59.35	411.53	11.18.59	418.59
6- Nov-12	427.24	20.48.39	412.00	11.38.42	418.67
7- Nov-12	426.54	03.05.10	412.00	11.03.00	418.99
8-Nov-12	425.60	21.59.17	--	---	--
9- Nov-12	426.30	21.01.36	414.58	12.27.04	420.84
10-Nov-12	426.30	02.04.34	411.53	18.24.04	418.80
11-Nov-12	427.94	03.15.57	412.47	11.37.09	419.83
12-Nov-12	428.41	03.04.41	407.31	11.18.38	419.99
13-Nov-12	426.54	00.26.13	411.30	18.34.45	420.19
14-Nov-12	428.41	03.40.01	415.98	18.10.47	423.65
15-Nov-12	431.23	04.35.00	413.64	17.54.14	422.58
16-Nov-12	429.82	01.59.38	411.06	11.27.57	420.38
17-Nov-12	427.47	03.02.53	408.48	11.07.48	416.64
18-Nov-12	428.65	20.52.38	413.17	11.10.18	421.81
19-Nov-12	428.65	03.04.21	412.00	10.21.47	420.12
20-Nov-12	428.65	03.09.53	410.12	18.21.56	418.42
21-Nov-12	426.54	02.05.04	407.31	17.55.24	415.84
22-Nov-12	422.79	21.01.24	408.72	14.17.28	414.98
23-Nov-12	427.47	04.03.36	407.78	10.15.22	417.51
24-Nov-12	426.30	04.02.22	406.84	10.27.08	416.77
25-Nov-12	427.47	03.15.53	409.89	11.12.24	420.14
26-Nov-12	429.82	03.03.59	409.65	10.08.57	419.12
27-Nov-12	430.29	03.08.42	411.30	10.08.50	419.03
28-Nov-12	427.94	03.24.03	408.48	11.11.58	418.36
29-Nov-12	428.88	03.15.47	408.01	10.42.55	417.79
30-Nov-12	432.16	03.06.04	407.54	17.38.57	418.28

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 NOVEMBER 2012

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
01	02.11.12	16.19	400KV BAWANA – BAHADURGARH CKT	02.11.12	16.30	CB-582 AND 682 OF THE CKT. TRIPPED ON 86 GRE, 186A&B AT BAWANA. NO TRIPPING AT BAHADURGARH.
02	02.11.12	19.10	66/11KV 20MVA PR. TR.-III AT DSIDC	03.11.12	18.10	TR. TRIPPED WHILE ENERGIZING.
03	03.11.12	11.03	220KV MANDOLA – GOPALPUR CKT-II	03.11.12	12.08	SUPPLY FAILED FROM MANDOLA DUE TO OPERATION OF SPECIAL PROTECTION SCHEME AT MANDOLA.
04	03.11.12	18.35	220/66KV 100MVA PR. TR.-I AT GAZIPUR	03.11.12	18.50	TR. TRIPPED ON TRIP CKT. FAULTY.
05	04.11.12	02.57	220KV DIAL – MEHRAULI CKT-II	04.11.12	03.15	CKT. TRIPPED ON REC, DR, PFR, RYB MAIN-II, RED MAIN-I TRIP, MAIN-I PROTECTION AT DIAL. NO TRIPPING AT MEHRAULI.
06	05.11.12	01.40	220/66KV 100MVA PR. TR.-I AT VASANT KUNJ	05.11.12	18.02	CKT. TRIPPED ON 30E (SUDDEN PRESSURE RELAY)
07	05.11.12	05.15	220/66KV 100MVA PR. TR.-I AT GAZIPUR	05.11.12	06.38	TR. TRIPPED ON TRIP CKT. FAULTY
08	07.11.12	22.31	400KV BAWANA – DIPALPUR CKT.	07.11.12	22.43	CB-1452 OF THE CKT. TRIPPED ON 86A, 85Y, RX-I, 186AB AT BAWANA. RELAY INDICATION AT DIPALPUR END ARE NOT AVAILABLE.
09	11.11.12	12.47	220KV BTPS – MEHRAULI CKT-I	11.11.12	16.35	CKT. TRIPPED ON DIST PROT `C' PHASE ZONE-I AT MEHRAULI AND ON E/F, O/C AT BTPS.
10	19.11.12	14.20	220KV BTPS – NOIDA – GAZIPUR CKT.	19.11.12	15.10	CKT. TRIPPED N 86ABC, 86AN AT BTPS AND ON DIST PROT ZONE-I AT GAZIPUR.
11	23.11.12	04.31	220KV BTPS – OKHLA CKT-I	23.11.12	05.22	CKT. TRIPPED ON 30A (E/F), 30G, 186 AT BTPS AND ON 96F AT OKHLA
12	23.11.12	04.31	220/33KV 100MVA PR. TR-III & IV AND 220/33KV 20MVA PR. TR. AT OKHLA	23.11.12	05.30	TR-III TRIPPED ON 96C AND TR.-IV TRIPPED ON 96T. 33KV I/C-III & IV DID NOT TRIPPED. 33KV I/C-III & IV TRIPPED MANUALLY. 50MVA PR. TR. TRIPPED ON 95C, 64RHV, 87, 86 ALONG WITH ITS 33KV I/C WHGICH TRIPPED ON 86, 95. 100MVA PR. TR.-III & IV CHARGED AT 05.05HRS AND 05.15HRS RESPECTIVELY. 50MVA PR. TR. TRIED TO CHARGED BUT DID NOT HOLD. TR. FINALLY CHARGED AT 15.40HRS ON 30.11.2012.
13	24.11.12	13.40	220KV BTPS – OKHLA CKT-I	24.11.12	14.23	CKT. TRIPPED ON 96F AT OKHLA.
14	24.11.12	13.40	220/33KV 100MVA PR. TR-III & IV AT OKHLA	24.11.12	14.23	TR.-III TRIPPED ON 96E, 96 AUTO TRIP AND TR. –IV TRIPPED ON 96.
15	24.11.12	16.17	220KV MAHARANI BAGH – PRAGATI CKT.	25.11.12	11.45	CKT. TRIPPED ON DIST PROT ZONE-I, 86 AT PRAGATI. NO TRIPPING AT MAHARANI BAGH.
16	24.11.12	16.17	220KV PRAGATI – SARITA VIHAR CKT.	25.11.12	17.15	CKT. TRIPPED ON DIST PROT `ABC' PHASE, 186A&B AT SARITA VIHAR NO TRIPPING AT PRAGATI
17	26.11.12	15.16	400KV BAMNAULI – MUNDKA CKT-I	26.11.12	15.48	CKT. TRIPPED ON 86, A/R AT MUNDKA.

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
18	27.11.12	17.15	220KV BAMNAULI – DIAL CKT-II	27.11.12	19.48	CB-252 OF THE CKT. TRIPPED ON POLE DISCREPANCY AT BAMNAULI.
19	29.11.12	16.13	220KV BTPS – NOIDA – GAZIPUR CKT.	29.11.12	16.37	CKT.TRIPPED ON O/C, E/F AT BTPS. NO TRIPPING AT GAZIPUR.
20	29.11.12	20.55	220/33KV 100MVA PR. TR.-III AT GOPALPUR	31.11.12	00.30	TR. TRIPPED ON 30GEF, AUX TR. TROUBLE.
21	29.11.12	07.30	220/66KV 100MVA PR. TR.-I AT WAZIRABAD	29.11.12	18.28	TR. TRIPPED ON REF HV 86.
22	30.11.12	03.03	220/33KV 100MVA PR. TR.-I & II AT MASJID MOTH	30.11.12	03.35	BOTH TR. TRIPPED ON 86, 24, DIFFERENTIAL,O/C, E/F, 50, 51R.
23	30.11.12	03.07	220KV PRAGATI – SARITA VIHAR CKT.	30.11.12	03.15	SUPPLY FAILED FROM PRAGATI. NO TRIPPING AT SARITA VIHAR.
24	30.11.12	03.07	220/66KV 100MVA PR. TR.-II AT SARITA VIHAR	30.11.12	03.59	TR. TRIPPED ON OVER FLUX PROTECTION, 86 ALONG WITH ITS 66KV I/C-II WHICH TRIPPED ON 95C, 86
25	30.11.12	03.08	220KV MAHARANI BAGH – LODHI ROAD CKT-I & II	30.11.12	03.15	SUPPLY FAILED FROM MAHARANI BAGH. NO TRIPING AT LODHI ROAD.
26	30.11.12	03.08	220/33KV 100MVA PR. TR.-I AT LODHI ROAD	30.11.12	03.15	TR. TRIPPED ON OVER FLUX RELAY
27	30.11.12	03.07	220/66KV 100MVA PR. TR.-I AT PARK STREET	30.11.12	03.26	TR. TRIPPED ON OVERFLUX, 99TT, 86
28	30.11.12	03.07	220/33KV 100MVA PR. TR.-II AT PARK STREET	30.11.12	03.27	TR. TRIPPED ON O/C, 97TT, 86A
29	30.11.12	03.38	220/33KV 100MVA PR. TR.-II AT PARK STREET	30.11.12	04.10	TR. TRIPPED ON OVER FLUX, 99TT, 86A ALONG WITH ITS 33KV I/C-II WHICH TRIPPED ON E/F, 51N, 86
30	30.11.12	13.22	220KV BTPS – NOIDA – GAZIPUR CKT.	30.11.12	13.32	CKT. TRIPPED ON HEAVY DUTY RELAY, FUSE FAILURE AT GAZIPUR.

20 DETAILS OF UNDER FREQUENCY RELAY OPERATIONS IN DELHI POWER SYSTEM DURING THE MONTH OF NOVEMBER 2012

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