DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

****

SEPTEMBER 2012

1 **SALIENT FEATURES OF DELHI POWER SYSTEM**

Sr. No.	Features	SEPTEMBER 2012	SEPTEMBER 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	73
	Total	1548	1513
2	**Maximum Unrestricted Demand (MW)**	**4636**	**4713**
	Date	13.09.12	01.09.11
	Time	15.02.12	21.55.16
3	**Peak Demand met (MW)**	**4621**	**4713**
	Date	13.09.12	01.09.11
	Time	15.02.12	21.55.16
4	Peak Availability (MW)	4594	4262
5	Shortage (-) / Surplus (+) in MW	(-)27	(-)451
6	Percentage Shortage (-) / Surplus (+)	(-)0.58	(-)9.57
7	Maximum Energy Consume in a day (Mus)	92.023	94.485
8	Energy Consumed during the month	**2408.793**	**2448.876**
9	**Load Shedding in Mus**		
A)	Due to Grid Restrictions		
i)	Under Frequency Relay Operations	0.004	0.033
ii)	Manual Load shedding from DTL S/Stns.	0.000	0.000
iii)	Load Shedding due to low frequency / Low Voltage / TTC/ATC Violation		
	NDPL	0.182	0.086
	BRPL	0.414	0.698
	BYPL	0.118	0.225
	NDMC	0.000	0.000
	MES	0.000	0.000
iv)	Due to transmission Constraints in Central Sector	0.324	0.000
	Total due to Grid Restriction	**1.042**	**1.042**
B)	Due to Constraints in System in Mus		
	DTL	0.439	1.345
	NDPL	1.008	0.337
	BRPL	0.650	0.643
	BYPL	0.151	0.255
	NDMC	0.000	0.000
	MES	0.000	0.000
	Other Agencies	0.027	0.509
	Total	**2.275**	**3.089**
11	**Grand Total in Mus**	**3.317**	**4.131**

2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING SEPTEMBER 2012

A) For the month of SEPTEMBER 2012

All Figures in MUs

S. No	Stations	Gross Generation	Aux. Consumption	Net Generation	Availability (%)	Backing Down
1.	**RPH**	60.921	8.762	52.159	60.82	--
2.	**GT**	76.270	2.519	73.751	89.27	94.852
3.	**PPCL**	208.148	5.289	202.859	92.99	11.749
4.	**BTPS**	366.954	34.752	331.902	87.57	65.065
5.	**Rithala**	12.094	0.743	11.351	--	--
6.	**Bawana**	17.913	1.987	15.926	81.82	302.333
	TOTAL	**742.300**	**54.0520**	**687.948**	--	**473.999**

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

Power Station	Effective Capacity (MW)	Net Generation in MUs For Sept 2012	Availability (%) For Sept 2012	PLF (%) For Sept 2012	Cumulative Generation in MUs upto Sept 2012 for the year 2012-13	Cumulative Availability in % upto Sept 2012 for the year 2012-13	Cumulative PLF in % upto Sept 2012 for the year 2012-13
RPH	135	52.159	60.82	60.082	309.370	59.98	58.97
GT	270	73.751	89.27	38.97	729.173	81.71	63.20
PPCL	330	202.859	92.99	87.90	1158.170	84.60	82.52
BTPS	705	331.902	87.57	74.64	2084.333	84.97	75.76
Rithala	108	11.351	--	--	102.892	--	--
Bawana	**677**	15.926	81.82	4.35	610.372	79.10	32.08
TOTAL	**2225**	**687.948**	--	--	**4994.31**	--	--

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.

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.

(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
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	30.09.12	23.59	

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
3	**30**	01.04.12	00.00	04.02.12	13.50	Stopped due to low demand and high frequency.
		03.04.12	12.27	03.04.12	17.44	Machine tripped on loss of flame.
		04.04.12	09.28	04.04.12	12.15	Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. Tripped on relay 86X.
		05.04.12	10.05	30.04.12	06.15	Machine stopped due to HGPI .
		30.04.12	22.15	02.05.12	15.25	Stopped due to low demand and high frequency.
		04.05.12	04.58	04.05.12	07.54	Machine tripped on loss of Exciatation
		06.05.12	17.06	06.05.12	17.50	Machine stopped to attend the leakages.
		20.05.12	10.02	20.05.12	21.55	Stopped due to low demand and high frequency.
		29.05.12	22.05	29.05.12	23.32	Stopped to attend hot gas leakage from compressor.
		30.05.12	03.45	30.05.12	13.16	Stopped due to low demand and high frequency.
		03.06.12	18.15	04.06.12	16.15	
		07.06.12	06.04	07.06.12	13.15	
		18.06.12	20.32	19.06.12	10.53	
		20.06.12	14.58	20.06.12	16.02	Machine stopped due to diverter damper problem.
		25.06.12	11.50	25.06.12	12.05	Hunting observed in load & Machine came on FSNL on turbine under speed alarm appeared.
		28.06.12	02.42	28.06.12	05.35	Tripped due to combined cycle tripped alarm.
		06.07.12	19.02	13.07.12	14.55	Stopped due to low demand and high frequency.
		14.07.12	01.35	16.07.12	07.40	
		27.07.12	14.45	27.07.12	17.55	
		30.07.12	02.35	30.07.12	06.40	Tripped due to grid disturbance as both 160 MVA ICT tripped .
		31.07.12	13.02	31.07.12	14.17	came on FSNL due to Grid disturbance as both 160 MVA ICT-I&II tripped on under frequency relay operated at 220 KV end.
		05.08.12	06.10	05.08.12	23.04	Machine stopped to attend CW line leakages.
		09.08.12	20.02	09.08.12	21.16	Machine tripped on exhaust temp. high,exhaust over temp.trip
		18.08.12	04.54	18.08.12	07.05	Machine tripped due to Grid disturbance
		23.08.12	05.16	27.08.12	10.20	Stopped due to low demand and high frequency
		13.09.12	00.30	25.09.12	11.30	
		25.09.12	14.40	28.09.12	20.00	
		30.09.12	10.40	30.09.12	11.30	Tripped

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	

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	30.09.12	23.59	Stopped due to low demand and high frequency

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
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	30.09.12	23.59	

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	30.09.12	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-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
		28.09.12	20.55	30.09.12	23.59	Stopped due to low demand and high frequency

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	30.09.12	23.59	Stopped as per SLDC message

(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
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
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	

(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	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	contd.	10:24	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
4	210	21-05-12	7:12	23-05-12	15:35	CW Shortage
		26-05-12	8:32	26-05-12	11:28	Grid Disturbance
		06-07-12	7:35	06-07-12	9:33	Excitation System Problem
		30-07-12	2:35	30-07-12	18:00	Grid Disturbance
		31-07-12	13:01	31-07-12	17:25	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	
		23-08-12	9:37	23-08-12	13:45	
		25-08-12	23:18	26-08-12	0:48	
		18.09.12	02.05	18.09.12	04.05	
		18.09.12	04.05	18.09.12	14.35	Control supply cable fault

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

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 SEPTEMBER 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	22.43.57	66	180	289	0	0	465	1000	3233	3282	-49	4233	1	4234
2	00.00.51	67	182	290	0	0	463	1002	3067	3119	-52	4069	0	4069
3	22.44.55	87	177	294	37	-5	460	1050	3237	3000	237	4287	5	4292
4	15.04.37	42	157	292	21	46	422	980	3177	3025	152	4157	8	4165
5	22.51.33	52	79	290	23	0	522	966	3197	3167	30	4163	0	4163
6	15.11.00	51	78	294	36	-5	430	884	3268	3038	230	4152	9	4161
7	19.03.06	41	76	295	20	0	430	862	3226	3140	86	4088	0	4088
8	19.36.46	41	79	296	0	-2	438	852	3147	3163	-16	3999	0	3999
9	22.57.54	96	79	296	0	-2	415	884	3249	3275	-26	4133	3	4136
10	22.30.00	77	186	294	31	-2	473	1059	3450	3477	-27	4509	7	4516
11	15.20.12	46	184	289	36	-2	438	991	3515	3520	-5	4506	10	4516
12	19.11.17	48	213	295	20	-1	460	1035	3420	3421	-1	4455	0	4455
13	15.02.12	79	145	289	20	-1	511	1043	3578	3551	27	4621	15	4636
14	15.15.25	94	150	294	36	0	437	1011	3358	3177	181	4369	4	4373
15	19.20.09	96	73	288	0	0	405	862	3216	3121	95	4078	12	4090
16	22.39.36	93	74	279	0	0	244	690	3213	3359	-146	3903	3	3906
17	15.02.38	97	73	295	25	0	385	875	3114	3266	-152	3989	7	3996
18	19.17.24	69	74	301	19	0	455	918	3005	2938	67	3923	17	3940
19	19.33.56	93	77	297	21	-1	456	943	3125	3074	51	4068	0	4068
20	19.03.49	99	74	295	20	0	506	994	2998	3222	-224	3992	6	3998
21	19.07.06	100	73	295	20	-1	548	1035	3044	3225	-181	4079	13	4092
22	19.06.48	104	74	294	0	-1	438	909	3047	3180	-133	3956	9	3965
23	19.49.58	51	76	265	0	-1	431	822	2803	2568	235	3625	0	3625
24	19.02.36	40	72	295	37	0	532	976	2951	3164	-213	3927	11	3938
25	18.45.29	53	73	295	21	-1	544	985	2994	3280	-286	3979	0	3979
26	18.48.41	55	73	296	21	0	544	989	2992	3384	-392	3981	0	3981
27	18.46.55	105	74	295	21	28	504	1027	2934	3193	-259	3961	1	3962
28	19.24.06	107	104	297	21	209	507	1245	2814	3088	-274	4059	6	4065
29	19.25.46	111	79	295	21	221	364	1091	2721	2894	-173	3812	6	3818
30	19.55.34	109	79	265	21	222	349	1045	2516	2718	-202	3561	0	3561

7 POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF MAXIMUM UNRESTRICTED DEMAND DURING SEPTEMBER 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	22.43.57	66	180	289	0	0	465	1000	3233	3282	-49	4233	1	4234
2	00.00.51	67	182	290	0	0	463	1002	3067	3119	-52	4069	0	4069
3	22.44.55	87	177	294	37	-5	460	1050	3237	3000	237	4287	5	4292
4	15.04.37	42	157	292	21	46	422	980	3177	3025	152	4157	8	4165
5	22.51.33	52	79	290	23	0	522	966	3197	3167	30	4163	0	4163
6	15.11.00	51	78	294	36	-5	430	884	3268	3038	230	4152	9	4161
7	19.03.06	41	76	295	20	0	430	862	3226	3140	86	4088	0	4088
8	19.36.46	41	79	296	0	-2	438	852	3147	3163	-16	3999	0	3999
9	22.57.54	96	79	296	0	-2	415	884	3249	3275	-26	4133	3	4136
10	22.30.00	77	186	294	31	-2	473	1059	3450	3477	-27	4509	7	4516
11	15.20.12	46	184	289	36	-2	438	991	3515	3520	-5	4506	10	4516
12	19.11.17	48	213	295	20	-1	460	1035	3420	3421	-1	4455	0	4455
13	15.02.12	79	145	289	20	-1	511	1043	3578	3551	27	4621	15	4636
14	15.15.25	94	150	294	36	0	437	1011	3358	3177	181	4369	4	4373
15	19.20.09	96	73	288	0	0	405	862	3216	3121	95	4078	12	4090
16	22.39.36	93	74	279	0	0	244	690	3213	3359	-146	3903	3	3906
17	15.02.38	97	73	295	25	0	385	875	3114	3266	-152	3989	7	3996
18	19.17.24	69	74	301	19	0	455	918	3005	2938	67	3923	17	3940
19	19.33.56	93	77	297	21	-1	456	943	3125	3074	51	4068	0	4068
20	19.03.49	99	74	295	20	0	506	994	2998	3222	-224	3992	6	3998
21	19.07.06	100	73	295	20	-1	548	1035	3044	3225	-181	4079	13	4092
22	19.06.48	104	74	294	0	-1	438	909	3047	3180	-133	3956	9	3965
23	19.49.58	51	76	265	0	-1	431	822	2803	2568	235	3625	0	3625
24	19.02.36	40	72	295	37	0	532	976	2951	3164	-213	3927	11	3938
25	18.45.29	53	73	295	21	-1	544	985	2994	3280	-286	3979	0	3979
26	18.48.41	55	73	296	21	0	544	989	2992	3384	-392	3981	0	3981
27	18.46.55	105	74	295	21	28	504	1027	2934	3193	-259	3961	1	3962
28	19.24.06	107	104	297	21	209	507	1245	2814	3088	-274	4059	6	4065
29	19.25.46	111	79	295	21	221	364	1091	2721	2894	-173	3812	6	3818
30	19.55.34	109	79	265	21	222	349	1045	2516	2718	-202	3561	0	3561

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

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

A (i) RPH	60.921
(ii) GT+STG	76.270
(iii) PRAGATI	208.148
(iv) RITHALA	12.094
(v) BAWANA CCGT	17.913
TOTAL	375.346
B) AVAILABILITY FROM BTPS	331.922
C) AUXILIARY CONSUMPTION OF GENERATING STNs. EXCLUDING BTPS	19.300
D) NET GENERATION AVAILABLE WITHIN DELHI(A+B-C)	**687.968**

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	8.367	8.150	4.722	4.599
SALAL	47.479	46.251	26.788	26.095
TANKAPUR	7.926	7.719	4.472	4.356
CHAMERA	27.550	26.835	15.542	15.139
CHAMERA -II	25.805	25.136	14.558	14.181
CHAMERA -III	18.083	17.615	18.083	17.615
DHAULIGANGA	23.274	22.671	13.131	12.791
SEWA -2	6.948	6.767	3.920	3.818
URI	33.609	32.737	18.963	18.471
KOTESHWAR	19.024	18.531	19.024	18.531
MUNDRA_UMPP	0.000	0.000	0.000	0.000
ANTA (GAS)	20.137	19.614	7.775	7.571
ANTA (RLNG)	9.559	9.310	0.000	0.000
ANTA (LIQUID)	0.000	0.000	0.000	0.000
DADRI (GAS)	35.935	35.003	9.594	9.346
DADRI (RLNG)	21.223	20.675	0.000	0.000
DADRI (LIQUID)	0.000	0.000	0.000	0.000
AURAIYA (GAS)	21.619	21.059	5.195	5.061
AURAIYA (RLNG)	19.642	19.128	0.000	0.000
AURAIYA (LIQUID)	0.000	0.000	0.000	0.000
SINGRAULI	83.520	81.340	68.404	66.616
RIHAND -I	50.383	49.081	42.187	41.094
RIHAND -II	80.220	78.134	67.943	66.179
UNCHAHAR-I	10.669	10.390	8.084	7.872
UNCHAHAR-II	32.202	31.364	24.324	23.690
UNCHAHAR-III	18.514	18.032	13.950	13.586
DADRI (TH)	407.566	396.950	317.795	309.510
DADRI (TH) STAGE-II	496.932	484.032	430.372	419.192
NAPP	20.077	19.555	20.077	19.555
RAPP 'B'	0.000	0.000	0.000	0.000
RAPP 'C'	38.969	37.956	38.969	37.956
NATHPA JHAKRI	86.526	84.282	86.526	84.282
DULASTI	33.766	32.888	19.051	18.556
TEHRI	58.850	57.328	58.850	57.328
JHAJJAR	156.615	152.543	4.372	4.258
KHELGAON	28.991	28.239	18.342	17.865
KHELGAON-II	73.104	71.200	60.586	59.005
FARAKA	7.811	7.608	6.778	6.602
TALA	20.552	20.019	20.552	20.019
TALCHER	0.000	0.000	0.000	0.000
DVC	157.307	155.172	155.172	151.131
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)	22.707	22.396	22.396	21.813
DVC CTPS (BYPL)	13.282	13.100	13.100	12.760
DVC CTPS (NDPL)	0.000	0.000	0.000	0.000
METHON POWER(NDPL)LT-06	178.645	176.226	176.226	171.651

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
DVC MEJIA (LT-08)(BYPL)	84.169	83.027	83.027	80.868
ORISSA	0.000	0.000	0.000	0.000
SIKKIM	0.000	0.000	0.000	0.000
HIMACHAL PRADESH	3.427	3.390	3.390	3.301
WEST BENGAL	0.000	0.000	0.000	0.000
MADHYA PRADESH(WR)	64.297	63.233	63.233	61.598
JAMMU & KASHMIR	73.701	72.903	72.903	71.008
DVC (FOR NDPL) LT-09	16.694	16.466	16.466	16.037
HARYANA (LT-05)	30.583	30.166	30.166	29.378
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
NAGALAND	0.000	0.000	0.000	0.000
RAJASTHAN	66.526	65.610	65.610	63.911
TO GUJRAT	-1.394	-1.417	-1.417	-1.457
TO WEST BENGAL	-15.473	-15.633	-15.633	-16.049
TO MADHYA PRADESH	-0.527	-0.534	-0.534	-0.548
TO JAMMU & KASHMIR	-2.214	-2.239	-2.239	-2.301
TO MAHARASHTRA	-0.006	-0.006	-0.006	-0.006
TO RAJASTHAN	-0.378	-0.382	-0.382	-0.392
TO HIMACHAL PRADESH	-0.924	-0.935	-0.935	-0.961
TO ANDHRA	-0.352	-0.359	-0.359	-0.368
TO HARYANA	-0.107	-0.108	-0.108	-0.111
POWER EXCHANGE(IEX)	1.645	1.603	1.645	1.603
TO POWER EXCHANGE (IEX)	-101.081	-103.807	-101.081	-103.807
POWRER EXCHANGE(PX)	0.000	0.000	0.000	0.000
TO POWER EXCHANGE (PX)	-2.391	-2.452	-2.391	-2.452
TO SHARE PROJECT (HARYANA)	-1.711	-1.758	-1.711	-1.758
TO SHARE PROJECT (PUNJAB)	-0.094	-0.097	-0.094	-0.097
TOTAL	**2637.779**	**2571.702**	**2045.375**	**1985.486**

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	1308.122	1274.111	995.623	969.716
NTPC - ER	109.906	107.047	85.707	83.473
NHPC	232.807	226.769	139.231	135.620
NPC	59.046	57.510	59.046	57.510
KOTESHWAR	19.024	18.531	19.024	18.531
MUNDRA_UMPP	0.000	0.000	0.000	0.000
NATHPA JHAKRI	86.526	84.282	86.526	84.282
TEHRI	58.850	57.328	58.850	57.328
TALA	20.552	20.019	20.552	20.019
JHAJJAR	156.615	152.543	4.372	4.258
TALCHER	0.000	0.000	0.000	0.000
DVC	157.307	155.172	155.172	151.131
DVC CTPS (BRPL)	22.707	22.396	22.396	21.813
DVC CTPS (BYPL)	13.282	13.100	13.100	12.760
DVC CTPS (NDPL)	0.000	0.000	0.000	0.000
METHON POWER (NDPL)-LT-06	178.645	176.226	176.226	171.651
DVC MEJIA (LT-08)(BYPL)	84.169	83.027	83.027	80.868
HIMACHAL PRADESH	3.427	3.390	3.390	3.301
WEST BENGAL	0.000	0.000	0.000	0.000
MADHYA PRADESH(WR)	64.297	63.233	63.233	61.598
JAMMU & KASHMIR	73.701	72.903	72.903	71.008
DVC (FOR NDPL) LT-09	16.694	16.466	16.466	16.037
HARYANA (LT -05)	30.583	30.166	30.166	29.378
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
NAGALAND	0.000	0.000	0.000	0.000
RAJASTHAN	66.526	65.610	65.610	63.911
POWER EXCHANGE(IEX)	1.645	1.603	1.645	1.603
POWER EXCHANGE(PX)	0.000	0.000	0.000	0.000
TOTAL	**2764.430**	**2701.431**	**2172.265**	**2115.795**

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 GUJRAT	-1.394	-1.417	-1.417	-1.457
TO MADHYA PRADESH	-0.527	-0.534	-0.534	-0.548
TO WEST BENGAL	-15.473	-15.633	-15.633	-16.049
TO JAMMU & KASHMIR	-2.214	-2.239	-2.239	-2.301
TO MAHARASHTRA	-0.006	-0.006	-0.006	-0.006
TO RAJASTHAN	-0.378	-0.382	-0.382	-0.392
TO HIMACHAL PRADESH	-0.924	-0.935	-0.935	-0.961
TO ANDHRA	-0.352	-0.359	-0.359	-0.368
TO HARYANA	-0.107	-0.108	-0.108	-0.111
TO POWER EXCHANGE (IEX)	-101.081	-103.807	-101.081	-103.807
TO POWER EXCHANGE (PX)	-2.391	-2.452	-2.391	-2.452
TO SHARE PROJECT (HARYANA)	-1.711	-1.758	-1.711	-1.758
TO SHARE PROJECT (PUNJAB)	-0.094	-0.097	-0.094	-0.097
TOTAL	**-126.652**	**-129.729**	**-126.891**	**-130.309**
TOTAL SCHEDULED DRAWAL FROM THE GRID	**2637.779**	**2571.702**	**2045.374**	**1985.486**
TOTAL CONSUMPTION INCLUDING AUX. OF GENERATING STNs. EXCLUDING BTPS				2428.093
NET CONSUMPTION				2408.793
AVAILABILITY WITHIN DELHI				687.968
ACTUAL DRAWAL FROM THE GRID				1720.825
OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID ON THE BASIS OF SCHEDULED ALLOCATION MADE BY NRLDC TO DELHI AT PERIPHERY				-264.661
LOAD SHEDDING				**3.317**
UNRESTRICTED DEMAND (GROSS)				**2431.410**
UNRESTRICTED DEMAND (NET)				**2412.110**
MAX. NET CONSUMPTION				92.023Mus. ON 13.09.2012
MAX. LOAD SHEDDING				355MW ON 15.09.2012 AT 23.00HRS.
PEAK LOAD	Peak Demand during the month			SHEDDING AT PEAK TIME
DAY PEAK	4621MW AT 15.02.12HRS ON 13.09.2012			15MW
EVENING PEAK	4509MW AT 22.30.00HRS ON 10.09.2012			7MW
P.L.F. OF GENCO AND PRAGATI STNs.	RPH GT PRAGATI RITHALA BAWANA			62.68% 39.23% 87.60% 15.55% 3.64%

9 SHEDDING DETAILS DURING THE MONTH OF SEPTEMBER 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-Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.030	0.137	0.040	0.000
2- Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.064	0.010	0.000
3- Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
4-Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.024	0.000	0.000
5- Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
6- Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
7- Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.035	0.000
8-Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
9- Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
10-Sep-12	2	0.000	0.003	0.001	0.000	**0.004**	0.000	0.000	0.020	0.000
11-Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
12-Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
13-Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
14-Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.009	0.059	0.041	0.000
15-Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.036	0.110	0.036	0.000
16-Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
17-Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
18-Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
19-Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
20-Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
21-Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
22-Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
23-Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
24-Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
25-Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.012	0.010	0.000	0.000
26-Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
27-sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.031	0.010	0.000	0.000
28-Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
29-Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
30-Sep-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
TOTAL	**2**	**0.000**	**0.003**	**0.001**	**0.000**	**0.004**	**0.118**	**0.414**	**0.182**	**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-Sep-12	0.000	0.000	0.000	0.000	**0.207**	**0.207**	0.000	0.000	0.007	0.000	0.000
2- Sep-12	0.000	0.000	0.000	0.000	**0.074**	**0.074**	0.000	0.000	0.000	0.000	0.000
3- Sep-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
4-Sep-12	0.000	0.000	0.000	0.000	**0.024**	**0.024**	0.000	0.002	0.000	0.001	0.000
5- Sep-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.016	0.073	0.000	0.000	0.000
6- Sep-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.004	0.009	0.000	0.000	0.000
7- Sep-12	0.000	0.000	0.000	0.000	**0.035**	**0.035**	0.000	0.000	0.000	0.000	0.000
8-Sep-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.008	0.001	0.000	0.000
9- Sep-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.001	0.027	0.001	0.000	0.000
10-Sep-12	0.020	0.221	0.083	0.000	**0.344**	**0.348**	0.003	0.005	0.000	0.000	0.000
11-Sep-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
12-Sep-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.011	0.001	0.000
13-Sep-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.020	0.054	0.002	0.000	0.000
14-Sep-12	0.000	0.000	0.000	0.000	**0.109**	**0.109**	0.000	0.000	0.000	0.000	0.000
15-Sep-12	0.000	0.000	0.000	0.000	**0.182**	**0.182**	0.000	0.000	0.004	0.000	0.000
16-Sep-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
17-Sep-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.022	0.000	0.000	0.000
18-Sep-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.056	0.000	0.000
19-Sep-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
20-Sep-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
21-Sep-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.006	0.000	0.000	0.000	0.000
22-Sep-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.035	0.000	0.000	0.000
23-Sep-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.058	0.000	0.000	0.000	0.000
24-Sep-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
25-Sep-12	0.000	0.000	0.000	0.000	**0.022**	**0.022**	0.000	0.000	0.007	0.000	0.000
26-Sep-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
27-sep-12	0.000	0.000	0.000	0.000	**0.041**	**0.041**	0.000	0.000	0.005	0.000	0.000
28-Sep-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
29-Sep-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
30-Sep-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
TOTAL	**0.020**	**0.221**	**0.083**	**0.000**	**1.038**	**1.042**	**0.108**	**0.235**	**0.094**	**0.002**	**0.000**

ALL FIGURES IN MUs

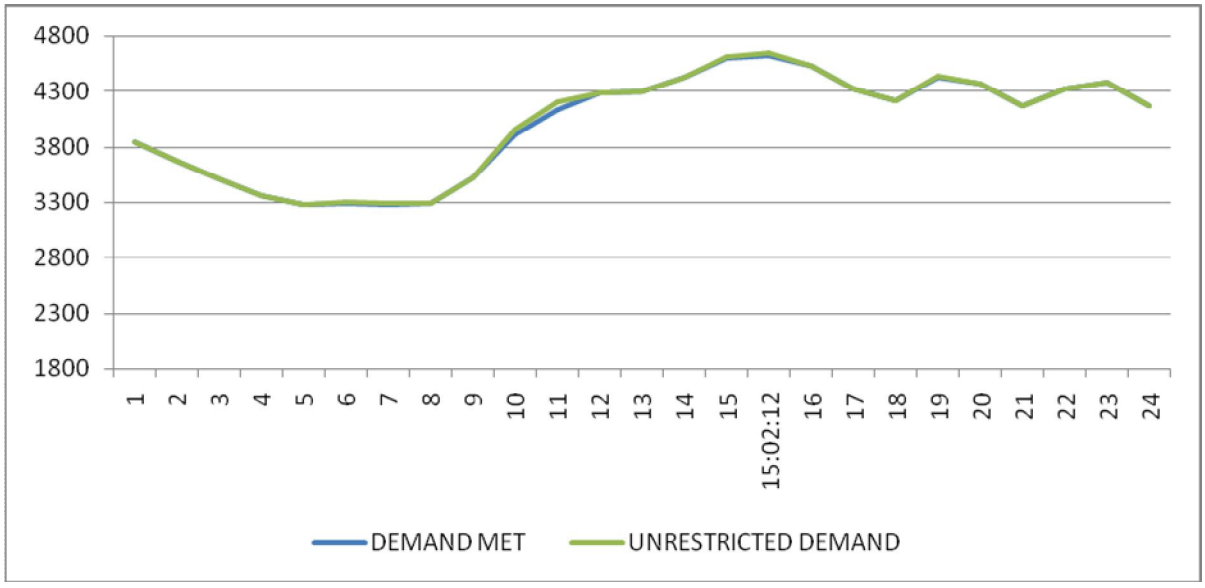
DATE	DUE TO T&D CONTRAINTS				OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.	THEFT PRONE SHEDDING			TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE	GRAND TOTAL
	DISCOMS									
	BSES		NDPL	NDMC		BSES		NDPL		
	BYPL	BRPL				BYPL	BRPL			
1	23	24	25		26	27	28	29	30=18 to29	31=30+17
1-Sep-12	0.011	0.011	0.000	0.000	0.000	0.000	0.000	0.020	**0.049**	**0.256**
2- Sep-12	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.030	**0.049**	**0.123**
3- Sep-12	0.000	0.024	0.000	0.000	0.000	0.000	0.000	0.028	**0.052**	**0.052**
4-Sep-12	0.006	0.005	0.002	0.000	0.000	0.000	0.000	0.027	**0.043**	**0.067**
5- Sep-12	0.000	0.157	0.020	0.000	0.027	0.000	0.000	0.029	**0.322**	**0.322**
6- Sep-12	0.000	0.019	0.000	0.000	0.000	0.000	0.000	0.014	**0.046**	**0.046**
7- Sep-12	0.000	0.010	0.001	0.000	0.000	0.000	0.000	0.022	**0.033**	**0.068**
8-Sep-12	0.004	0.000	0.001	0.000	0.000	0.000	0.000	0.018	**0.032**	**0.032**
9- Sep-12	0.004	0.025	0.023	0.000	0.000	0.000	0.000	0.017	**0.098**	**0.098**
10-Sep-12	0.000	0.018	0.000	0.000	0.000	0.000	0.000	0.025	**0.051**	**0.399**
11-Sep-12	0.029	0.062	0.000	0.000	0.000	0.000	0.000	0.029	**0.120**	**0.120**
12-Sep-12	0.001	0.012	0.002	0.000	0.000	0.000	0.000	0.023	**0.050**	**0.050**
13-Sep-12	0.000	0.016	0.002	0.000	0.000	0.000	0.000	0.028	**0.122**	**0.122**
14-Sep-12	0.003	0.011	0.000	0.000	0.000	0.000	0.000	0.027	**0.041**	**0.150**
15-Sep-12	0.004	0.026	0.004	0.000	0.000	0.000	0.000	0.027	**0.065**	**0.247**
16-Sep-12	0.000	0.021	0.000	0.000	0.000	0.000	0.000	0.029	**0.050**	**0.050**
17-Sep-12	0.005	0.000	0.006	0.000	0.000	0.000	0.000	0.021	**0.054**	**0.054**
18-Sep-12	0.016	0.002	0.020	0.000	0.000	0.000	0.000	0.026	**0.120**	**0.120**
19-Sep-12	0.000	0.040	0.001	0.000	0.000	0.000	0.000	0.013	**0.054**	**0.054**
20-Sep-12	0.000	0.026	0.000	0.000	0.000	0.000	0.000	0.021	**0.047**	**0.047**
21-Sep-12	0.002	0.000	0.184	0.000	0.000	0.000	0.000	0.025	**0.217**	**0.217**
22-Sep-12	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.027	**0.067**	**0.067**
23-Sep-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.026	**0.084**	**0.084**
24-Sep-12	0.035	0.009	0.000	0.000	0.000	0.000	0.000	0.027	**0.071**	**0.071**
25-Sep-12	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.029	**0.042**	**0.064**
26-Sep-12	0.001	0.000	0.003	0.000	0.000	0.000	0.000	0.027	**0.031**	**0.031**
27-sep-12	0.006	0.023	0.019	0.000	0.000	0.000	0.000	0.024	**0.077**	**0.118**
28-Sep-12	0.000	0.125	0.001	0.000	0.000	0.000	0.000	0.017	**0.143**	**0.143**
29-Sep-12	0.000	0.008	0.001	0.000	0.000	0.000	0.000	0.017	**0.026**	**0.026**
30-Sep-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.019	**0.019**	**0.019**
Total	**0.151**	**0.650**	**0.296**	**0.000**	**0.027**	**0.000**	**0.000**	**0.712**	**2.275**	**3.317**

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-Sep-12	84.247	**4233**	22:43:57	1	**4234**	**4234**	22:43:57	**4233**	1
2- Sep-12	78.247	**4069**	00:00:51	0	**4069**	**4069**	00:00:51	**4069**	0
3- Sep-12	83.931	**4287**	22:44:55	5	**4292**	**4292**	22:44:55	**4287**	5
4-Sep-12	83.950	**4157**	15:04:37	8	**4165**	**4165**	15:04:37	**4157**	8
5- Sep-12	83.975	**4163**	22:51:33	0	**4163**	**4163**	22:51:33	**4163**	0
6- Sep-12	84.692	**4152**	15:11:00	9	**4161**	**4161**	15:11:00	**4152**	9
7- Sep-12	82.715	**4088**	19:03:06	0	**4088**	**4088**	19:03:06	**4088**	0
8-Sep-12	76.949	**3999**	19:36:46	0	**3999**	**3999**	19:36:46	**3999**	0
9- Sep-12	80.485	**4133**	22:57:54	3	**4136**	**4136**	22:57:54	**4133**	3
10-Sep-12	86.701	**4509**	22:30	7	**4516**	**4516**	22:30	**4509**	7
11-Sep-12	91.030	**4506**	15:20:12	10	**4516**	**4516**	15:20:12	**4506**	10
12-Sep-12	88.101	**4455**	19:11:17	0	**4455**	**4455**	19:11:17	**4455**	0
13-Sep-12	92.023	**4621**	15:02:12	15	**4636**	**4636**	15:02:12	**4621**	15
14-Sep-12	87.812	**4369**	15:15:25	4	**4373**	**4373**	15:15:25	**4369**	4
15-Sep-12	77.919	**4078**	19:20:09	12	**4090**	**4090**	19:20:09	**4078**	12
16-Sep-12	77.272	**3903**	22:39:36	3	**3906**	**3906**	22:39:36	**3903**	3
17-Sep-12	78.406	**3989**	15:02:38	3	**3992**	**3992**	15:02:38	**3989**	3
18-Sep-12	77.642	**3923**	19:17:24	17	**3940**	**3940**	19:17:24	**3923**	17
19-Sep-12	78.811	**4068**	19:33:56	0	**4068**	**4068**	19:33:56	**4068**	0
20-Sep-12	76.877	**3992**	19:03:49	6	**3998**	**3998**	19:03:49	**3992**	6
21-Sep-12	79.187	**4079**	19:07:06	13	**4092**	**4092**	19:07:06	**4079**	13
22-Sep-12	76.624	**3956**	19:06:48	9	**3965**	**3965**	19:06:48	**3956**	9
23-Sep-12	72.454	**3625**	19:49:58	0	**3625**	**3625**	19:49:58	**3625**	0
24-Sep-12	77.103	**3927**	19:02:36	11	**3938**	**3938**	19:02:36	**3927**	11
25-Sep-12	76.644	**3979**	18:45:29	0	**3979**	**3979**	18:45:29	**3979**	0
26-Sep-12	74.293	**3981**	18:48:41	0	**3981**	**3981**	18:48:41	**3981**	0
27-sep-12	77.611	**3961**	18:46:55	1	**3962**	**3962**	18:46:55	**3961**	1
28-Sep-12	78.125	**4059**	19:24:06	6	**4065**	**4065**	19:24:06	**4059**	6
29-Sep-12	74.282	**3812**	19:25:46	6	**3818**	**3818**	19:25:46	**3812**	6
30-Sep-12	70.685	**3561**	19:55:34	0	**3561**	**3561**	19:55:34	**3561**	0
Total	**2408.793**	**4621** **13.09.2012**	15:02:12	15	**4636** 13.09.2012	**4636**	15:02:12	**4621**	15

10 LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING SEPTEMBER 2012 ON 13.09.2012- 4621MW at 15.02.12HRS.

All figures in MW

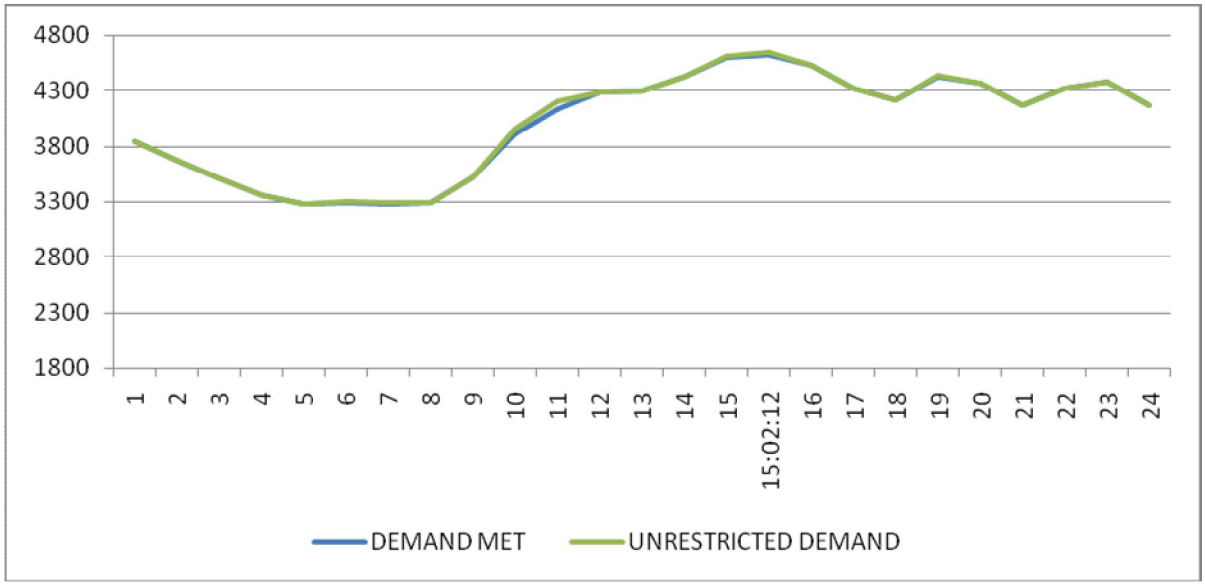
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1	3848	0	3848
2	3669	0	3669
3	3514	0	3514
4	3355	0	3355
5	3282	0	3282
6	3292	8	3300
7	3281	3	3284
8	3294	0	3294
9	3525	0	3525
10	3915	44	3959
11	4134	63	4197
12	4287	0	4287
13	4289	0	4289
14	4417	0	4417
15	4589	15	4604
15:02:12	4621	15	4636
16	4519	2	4521
17	4314	0	4314
18	4215	0	4215
19	4422	14	4436
20	4365	0	4365
21	4170	0	4170
22	4313	0	4313
23	4373	0	4373
24	4171	0	4171
ENERGY IN MUS	**92.023**	**0.122**	**92.145**



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING SEPTEMBER 2012 ON 13.09.2012- 4636MW at 15.02.12HRS.

All figures in MW

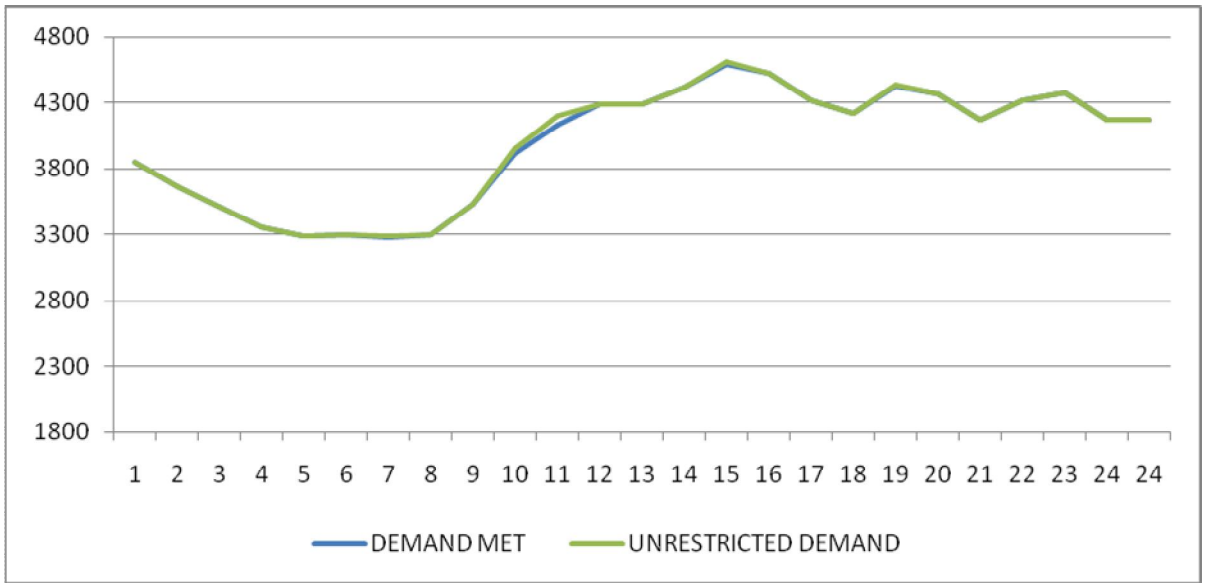
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1	3848	0	3848
2	3669	0	3669
3	3514	0	3514
4	3355	0	3355
5	3282	0	3282
6	3292	8	3300
7	3281	3	3284
8	3294	0	3294
9	3525	0	3525
10	3915	44	3959
11	4134	63	4197
12	4287	0	4287
13	4289	0	4289
14	4417	0	4417
15	4589	15	4604
15:02:12	4621	15	4636
16	4519	2	4521
17	4314	0	4314
18	4215	0	4215
19	4422	14	4436
20	4365	0	4365
21	4170	0	4170
22	4313	0	4313
23	4373	0	4373
24	4171	0	4171
ENERGY IN MUS	**92.023**	**0.122**	**92.145**



12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING SEPTEMBER 2012 – 13.09.2012 – 92.023 Mus

All figures in MW

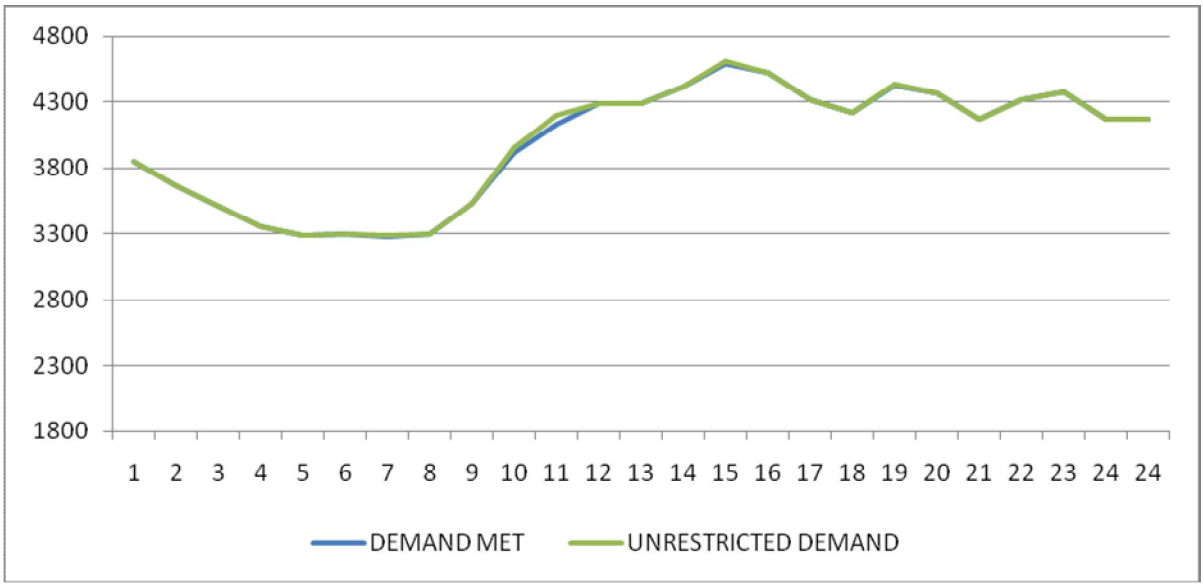
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1	3848	0	3848
2	3669	0	3669
3	3514	0	3514
4	3355	0	3355
5	3282	0	3282
6	3292	8	3300
7	3281	3	3284
8	3294	0	3294
9	3525	0	3525
10	3915	44	3959
11	4134	63	4197
12	4287	0	4287
13	4289	0	4289
14	4417	0	4417
15	4589	15	4604
16	4519	2	4521
17	4314	0	4314
18	4215	0	4215
19	4422	14	4436
20	4365	0	4365
21	4170	0	4170
22	4313	0	4313
23	4373	0	4373
24	4171	0	4171
ENERGY IN MUS	**92.023**	**0.122**	**92.145**



13 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING SEPTEMBER 2012 – 13.09.2012 – 92.145 Mus

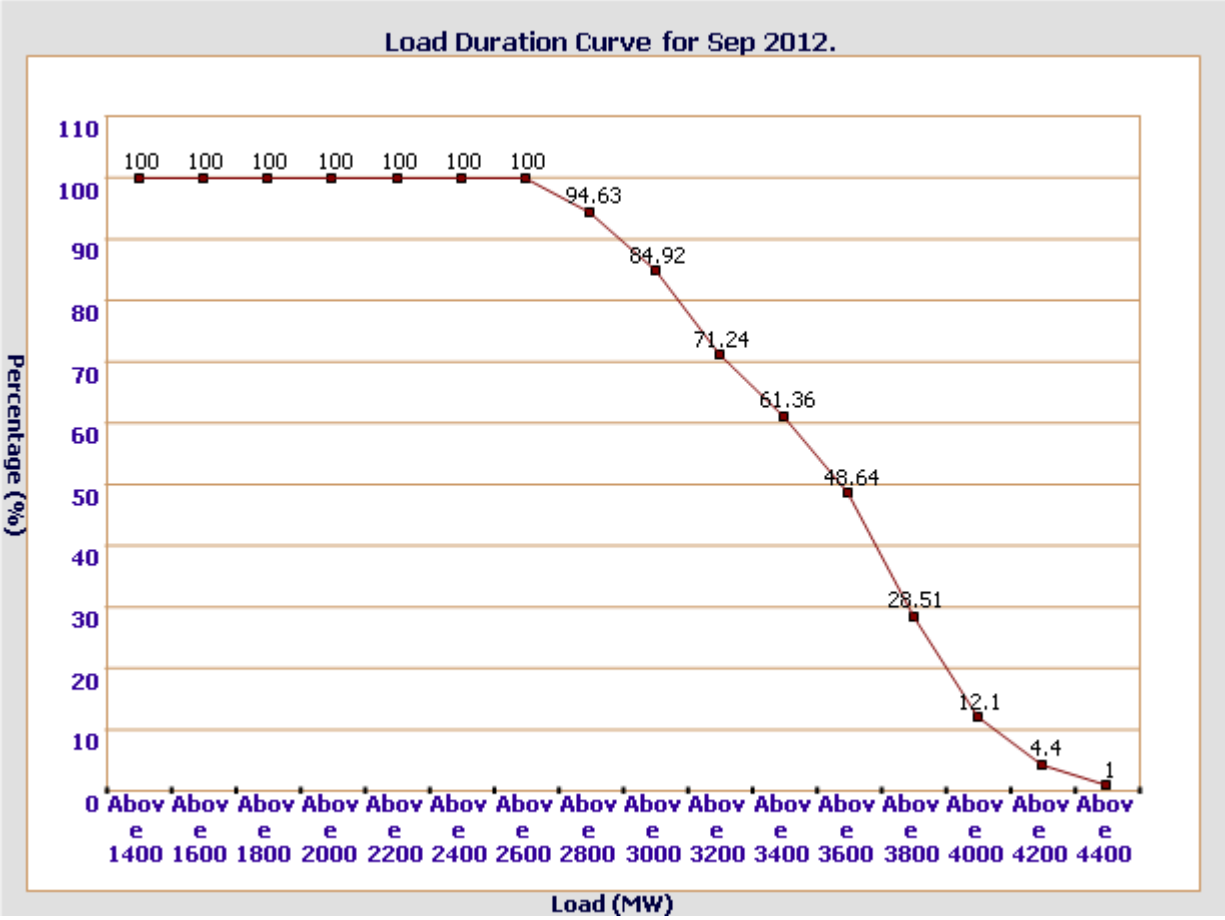
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
1	3848	0	3848
2	3669	0	3669
3	3514	0	3514
4	3355	0	3355
5	3282	0	3282
6	3292	8	3300
7	3281	3	3284
8	3294	0	3294
9	3525	0	3525
10	3915	44	3959
11	4134	63	4197
12	4287	0	4287
13	4289	0	4289
14	4417	0	4417
15	4589	15	4604
16	4519	2	4521
17	4314	0	4314
18	4215	0	4215
19	4422	14	4436
20	4365	0	4365
21	4170	0	4170
22	4313	0	4313
23	4373	0	4373
24	4171	0	4171
ENERGY IN MUS	**92.023**	**0.122**	**92.145**



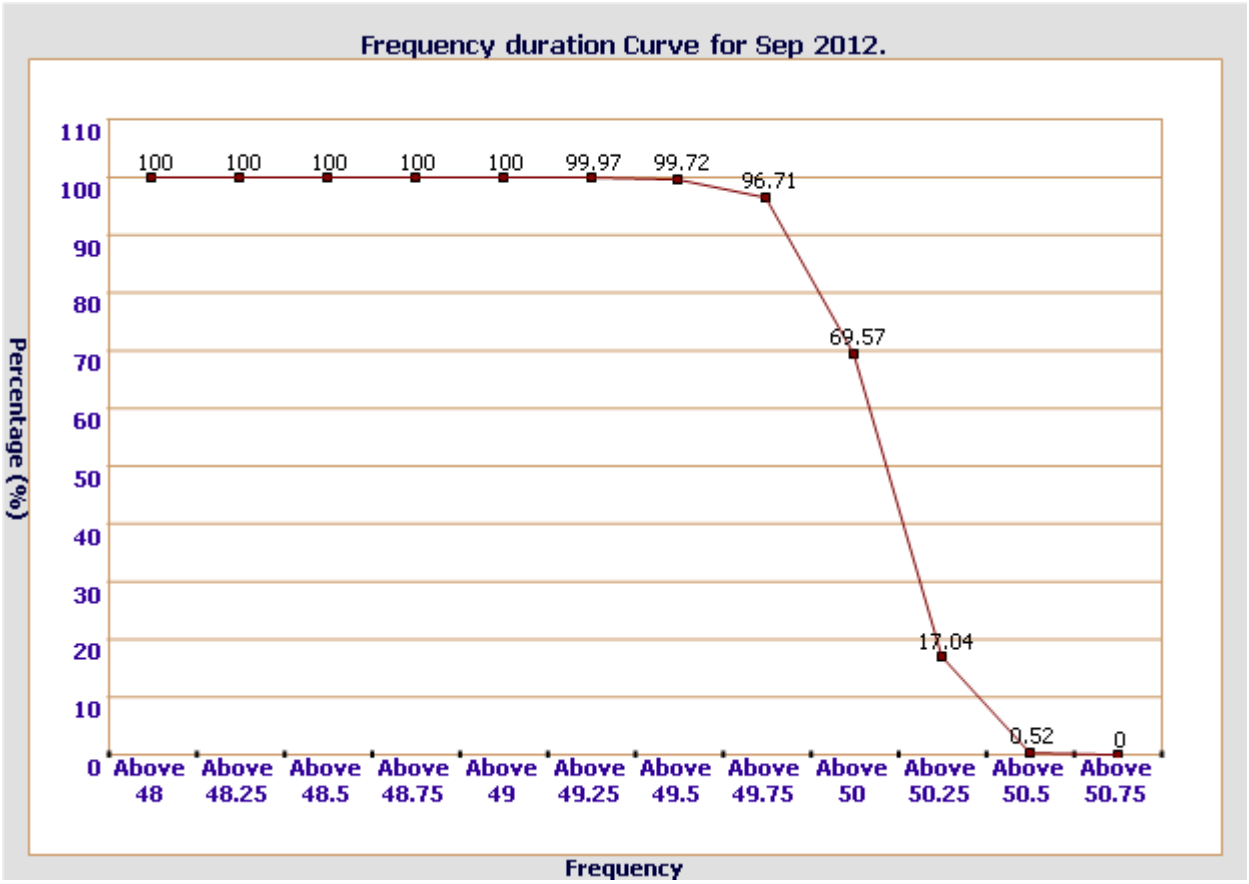
14 LOAD DURATION CURVE FOR SEPTEMBER 2012

Load in MW	Percentage of Time
Above 2600	100 %
Above 2800	94.63 %
Above 3000	84.92 %
Above 3200	71.24 %
Above 3400	61.36 %
Above 3600	48.64 %
Above 3800	28.51 %
Above 4000	12.1 %
Above 4200	4.4 %
Above 4400	1 %



15 FREQUENCY ANALYSIS FOR THE MONTH OF SEPTEMBER 2012

Frequency Range in Hz.	Percentage of time
Above 49	100 %
Above 49.25	99.97 %
Above 49.5	99.72 %
Above 49.75	96.71 %
Above 50	69.57 %
Above 50.25	17.04 %
Above 50.5	0.52 %
Above 50.75	0 %



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

All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
1-Sep-12	230.47	217.06	223.14	212.80
2- Sep-12	230.47	218.22	225.05	216.02
3- Sep-12	231.24	217.57	225.05	216.41
4-Sep-12	229.95	217.06	220.92	213.19
5- Sep-12	231.50	216.54	223.38	--
6- Sep-12	231.24	216.28	222.47	212.41
7- Sep-12	234.72	216.54	224.15	213.44
8-Sep-12	232.40	218.47	223.63	213.19
9- Sep-12	233.31	220.28	215.77	215.77
10-Sep-12	231.37	213.44	220.28	207.00
11-Sep-12	230.73	217.31	220.41	213.32
12-Sep-12	233.18	219.25	220.80	211.25
13-Sep-12	--	--	--	--
14-Sep-12	--	--	--	--
15-Sep-12	234.47	222.99	228.38	--
16-Sep-12	233.95	224.41	226.21	214.61
17-Sep-12	236.01	224.79	225.70	214.61
18-Sep-12	235.76	222.34	226.34	215.12
19-Sep-12	236.66	222.34	226.08	216.02
20-Sep-12	232.40	220.92	225.95	216.02
21-Sep-12	234.08	221.05	226.08	215.77
22-Sep-12	232.66	218.35	223.76	209.96
23-Sep-12	236.40	224.92	223.50	206.87
24-Sep-12	233.43	219.51	224.28	210.61
25-Sep-12	234.34	219.64	221.44	205.06
26-Sep-12	233.05	212.96	221.18	202.22
27-sep-12	232.15	216.93	220.80	202.74
28-Sep-12	233.69	217.70	221.70	212.03
29-Sep-12	232.40	214.73	222.09	212.15
30-Sep-12	232.79	220.15	223.76	213.32

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

All figures in kV

Date	400kV Bamnauli Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
1-Sep-12	412.70	04.37.16	392.07	11.41.31	404.92
2- Sep-12	413.64	08.09.51	399.34	19.42.12	406.39
3- Sep-12	413.41	04.07.50	393.24	19.08.22	404.04
4-Sep-12	412.47	07.40.55	393.44	18.58.30	402.70
5- Sep-12	410.83	07.40.55	392.30	19.22.02	402.12
6- Sep-12	410.83	04.08.31	392.07	14.46.58	401.58
7- Sep-12	413.17	04.02.52	391.36	19.31.38	401.44
8-Sep-12	412.33	06.02.52	393.71	11.08.49	402.88
9- Sep-12	411.06	04.03.14	395.58	19.06.30	404.52
10-Sep-12	408.01	06.02.58	381.98	14.17.41	398.58
11-Sep-12	408.48	08.04.22	391.13	12.24.10	399.80
12-Sep-12	409.18	06.02.35	394.41	10.23.31	402.37
13-Sep-12	--	--	--	--	--
14-Sep-12	--	--	--	--	--
15-Sep-12	418.33	04.01.53	399.34	18.54.57	408.55
16-Sep-12	420.21	04.01.51	400.27	19.28.18	411.05
17-Sep-12	420.21	03.09.54	401.68	16.47.05	409.34
18-Sep-12	420.44	03.46.24	398.63	11.58.27	410.55
19-Sep-12	421.38	02.54.02	402.15	10.19.43	409.90
20-Sep-12	418.10	04.01.43	400.51	19.15.30	409.01
21-Sep-12	418.10	03.09.31	399.81	10.19.36	409.57
22-Sep-12	417.16	04.04.05	401.68	11.22.19	409.84
23-Sep-12	419.74	18.03.21	405.20	22.06.46	412.34
24-Sep-12	415.98	04.59.28	396.29	15.33.23	407.18
25-Sep-12	415.75	02.57.15	395.82	14.15.22	405.98
26-Sep-12	426.07	16.51.55	--	--	--
27-Sep-12	403.79	22.55.48	--	--	--
28-Sep-12	414.14	21.06.02	392.07	11.06.18	405.86
29-Sep-12	418.33	04.01.35	396.29	18.40.24	408.09
30-Sep-12	417.86	07.52.13	401.68	19.09.52	409.37

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
1-Sep-12	415.75	04.36.26	403.32	12.23.13	409.68
2- Sep-12	417.86	08.03.11	406.61	11.30.03	411.65
3- Sep-12	418.33	04.30.42	400.98	19.08.32	410.19
4-Sep-12	418.10	07.40.25	401.68	14.25.24	409.17
5- Sep-12	415.98	07.40.25	399.57	11.32.07	408.17
6- Sep-12	415.75	04.15.11	399.57	14.46.48	408.09
7- Sep-12	418.10	04.03.12	399.34	14.28.21	407.80
8-Sep-12	416.92	06.02.32	400.74	11.35.20	408.79
9- Sep-12	415.52	04.01.54	402.15	19.06.40	410.22
10-Sep-12	412.70	06.02.58	389.96	14.17.31	404.94
11-Sep-12	413.64	08.06.02	399.10	12.09.18	406.09
12-Sep-12	414.34	06.02.35	399.10	10.19.50	406.97
13-Sep-12	--	--	--	--	--
14-Sep-12	--	--	--	--	--
15-Sep-12	421.38	04.31.14	406.14	18.53.27	412.90
16-Sep-12	423.02	04.02.01	406.14	19.25.38	415.53
17-Sep-12	420.21	07.00.27	407.78	19.31.35	412.22
18-Sep-12	423.72	03.42.44	403.79	11.58.37	414.95
19-Sep-12	424.43	02.54.02	407.54	10.19.43	414.58
20-Sep-12	420.19	04.02.13	406.37	19.15.30	413.25
21-Sep-12	421.85	03.09.11	399.10	11.00.50	414.29
22-Sep-12	421.38	02.59.52	406.37	11.22.19	414.11
23-Sep-12	424.43	18.03.31	409.89	22.06.56	416.63
24-Sep-12	419.74	04.58.38	406.61	14.32.29	412.95
25-Sep-12	419.50	02.59.45	402.62	19.50.13	413.02
26-Sep-12	418.10	04.21.54	405.43	11.28.08	411.88
27-sep-12	416.92	23.36.38	405.20	11.35.00	411.70
28-Sep-12	417.16	06.24.33	40.74	11.06.18	410.93
29-Sep-12	420.44	04.01.05	407.31	12.13.43	413.44
30-Sep-12	420.21	07.52.53	408.01	23.16.35	414.17

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 SEPTEMBER 2012

SL NO.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
01	01.09.12	10.51	400KV BAWANA – BAHADURGARH CKT.	01.09.12	11.24	BOTH CB TRIPPED ON 2/AA, CB TROUBLE AT BAWANA.
02	01.09.12	12.04	220KV SARITA VIHAR – MAHARANI BAGH CKT	01.09.12	12.25	CKT. TRIPPED ON 186A&B, AUTO RECLOSE LOCK OUT AT SARITA VIHAR AND ON DIST PROT AT MAHARANI BAGH
03	01.09.12	12.31	220KV BAWANA – SHALIMAR BAGH CKT-II	01.09.12	19.26	CKT. TRIPPED ON AUTO RECLOSE LOCK OUT, 186A&B AT BAWANA AND ON DIST PROT `B' PH, 186A&B AT SHALIMAR BAGH. `Y' PHASE LA DAMAGED AT SHALIMAR BAGH.
04	01.09.12	12.49	33/11KV 16MVA PR. TR.-I AT GOPALPUR	01.09.12	13.04	TR. TRIPPED ON O/C
05	03.09.12	14.55	400KV BAWANA – BAHADURGARH CKT.	03.09.12	15.21	BOTH CB TRIPPED ON 186, TIE CB AUTO TRIP, AUTO RECLOSE LOCK OUT, TIMER 2/AA AT BAWANA.
06	03.09.12	15.31	400KV BAWANA – BAHADURGARH CKT.	04.09.12	17.21	CB-552 OF THE CKT.TRIPPED ON POLE DISCREPANCY, 186AB, TRIP CKT SUPERVISION, 1952A, 1952B, 195CC AT BAWANA.
07	05.09.12	08.24	220KV WAZIRABAD – GEETA COLONY CKT-I	05.09.12	08.53	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-I AT WAZIRABAD AND ON ACTIVE GROUP-I, DIST PROT `ABC' PHASE ZONE-I, 27RYB, 30A, 86 AT GEETA COLONY
08	05.09.12	11.03	220KV BTPS – NOIDA – GAZIPUR CKT.	05.09.12	11.34	SUPPLY FAILED FROM BTPS. NO TRIPPING AT GAZIPUR.
09	05.09.12	13.16	220/33KV 100MVA PR. TR.-II AT PARK STREET	05.09.12	16.48	TR. TRIPPED ALONG WITH 33KV I/C-II ON 86, 51N, E/F
10	06.09.12	15.46	220/33KV 100MVA PR. TR.-II AT IP	06.09.12	16.20	TR. TRIPPED ON E/F. EARTH LINK FOUND BROKEN.
11	08.09.12	08.21	400KV MUNDKA – JHAJJAR CKT-II	08.09.12	09.55	NO TRIPPING AT MUNDKA. CKT. TRIPPED AT JHAJJAR. RELAY INDICATIONS ARE NOT AVAILABLE.
12	08.09.12	11.09	220KV SARITA VIHAR – MAHARANI BAGH CKT	08.09.12	14.13	CKT. TRIPPED ON DIST PROT `ABC' PHASE, AUTO RECLOSE LOCK OUT, 186X, 186A&B AT SARITA VIHAR
13	08.09.12	23.56	220KV MAHARANI BAGH – LODHI ROAD CKT-I & II	09.09.12	18.21	BOTH CKT. TRIPPED ON DIST PROT AT MAHARANI BAGH. NO TRIPPING AT LODHI ROAD. `B' PHASE CVT OF 220KV MAHARANI BAGH CKT-II. BURNT AT LODHI ROAD YARD. `B' PHASE JUMPER OF MAHARANI BAGH CKT-II BROKEN AT LODHI ROAD. CKT-I CHARGED AT 00.24HRS (09.09.2012) AND CKT-II CHARGED AT 18.21HRS ON 09.09.2012.
14	10.09.12	07.58	220KV MANDOLA – WAZIRABAD CKT-I	10.09.12	08.15	CKT. TRIPPED ON DIST PROT ZONE-I AT WAZIRABAD. NO TRIPPING AT MANDOLA.
15	12.09.12	11.06	400/315MVA ICT-V & VI AT BAWANA	12.09.12	13.06	CB-424 & 42652 OF 315MVA ICT-V & VI RESPECTIVELY TRIPPED ON 86A, 86B, O/C, E/F DM-II. TIE CB NO. 42552 ALSO TRIPPED ALONG WITH 220KV I/C-V & VI WHICH ALSO TRIPPED ON SAME INDICATION.
16	12.09.12	11.06	220KV BAWANA – DSIDC CKT-II	12.09.12	13.34	CKT. TRIPPED ON AUTO RECLOSE LOCK OUT, 21XRI, 21XRBI, 21XYI, NUMERICALDIST.RELAY PROT, 21, CG-I, ZONE-I, AUX RELAY 2.30ABC, TRIP AUX RELAY AT BAWANA. NO TRIPPING AT DSIDC.

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
17	13.09.12	10.48	220KV BAMNAULI – DISL CKT-I	13.09.12	11.28	CKT. TRIPPED ON 186A, 186B, DIFFERENTIAL TRIPPED `R' PHASE AT BAMNAULI AND ON DIST PROT ZONE-I AT DIAL.
18	13.09.12	11.40	220KV BAMNAULI – DIAL CKT-I & II	13.09.12	18.10	BOTH CKT. TRIPPED ON DIST PROT `A' PHASE, 186A&B AT DIAL AND ON AUTO RECLOSE LOCK OUT AT BAMNAULI. `R' PHASE CONDUCTOR BROKEN IN YARD AT BAMNAULI.
19	13.09.12	11.00	220/33KV 100MVA PR. TR.-I AT IP	13.09.12	11.35	TR. TRIPPED ON E/F, O/C AT IP
20	13.09.12	15.27	33/11KV 16MVA PR. TR.-II AT SUBZI MANDI	13.09.12	15.50	TR. TRIPPED ON O/C, E/F/
21	14.09.12	09.48	220KV BTPS – MEHRAULI CKT-II	14.09.12	17.53	CKT TRIPPED ON E/F, 186 AT BTPS AND ON DIST PROT `ABC' PHASE ZONE-I AT MEHRAULI.
22	15.09.12	14.06	220KV BAMNAULI – DIAL CKT-II	15.09.12	17.10	CKT. TRIPPED ON DIST PROT `C' PHASE, 186A&B AT BAMNAULI AND ON DIST PROT `B' PHASE ZONE-I AT DIAL.
23	17.09.12	15.45	220KV NARAINA – RIDGE VALLEY CKT	STILL	OUT	CKT TRIPPED ON TEF, TOC, TRIP COMMON FAIL AT NARAINA AND ON GENERAL TRIP, E/F, 86A, 86B, DIST PROT `B' PHASE ZONE-I AT RIDGE VALLEY. CABLE FAULTY.
24	17.09.12	15.45	220/66KV 160MVA PR.TR.-I & II AT RIDGE VALLEY	27.09.12	19.39	BOTH TRS. TRIPPED ON GENERAL TRIP, E/F ALONG WITH 66KV I/C-I & II. BOTH 66KV I/CS TRIPPED ON E/F. TRS BACK CHARGED THROUGH 66KV SUPPLY.
25	18.09.12	06.00	400/220KV 315MVA ICT-I AT BAWANA	18.09.12	07.14	CB-2152 TRIPPED ON CB LOCK OUT, 195BC, 30C, 30E, 30F
26	18.09.12	14.35	220KV NARELA – ROHTAK ROAD CKT-I	18.09.12	15.14	CKT. TRIPPED ON DIST PROT `ABC' PHASE AT NARELA.
27	18.09.12	15.10	220KV BAWANA – SHALIMAR BAGH CKT-II	18.09.12	15.41	CKT. TRIPPED ON DIST PROT `C' PHASE, 186A&B, CB AUTO TRIP AT BAWANA. NO TRIPPING AT SHALIMAR BAGH.
28	18.09.12	15.10	220/33KV 100MVA PR. TR-I AT SHALIMAR BAGH	18.09.12	15.25	TR. TRIPPED ON 51A, 86 ALLONG WITH 33KV I/C-I & II. 33KV I/C-I & II TRIPPED ON 51A, O/C, `R' PHASE, 51NX.
29	18.09.12	16.30	220/33KV 100MVA PR. TR.-I AT PATPARGANJ	18.09.12	17.20	TR. TRIPPED ON PRESSURE RELEASE VALVE PROBLEM.
30	19.09.12	14.05	220KV NAJAFGARH – KANJHAWALA CKT.	19.09.12	14.20	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-I AT NAJAFGARH. NO TRIPPING AT KANJHAWALA.
31	22.09.12	04.00	220KV BAMNAULI – NAJAFGARH CKT-I	22.09.12	11.51	CKT.T RIPPED ON 186 AT NAJAFGARH. NO TRIPPING AT BAMNAULI.
32	22.09.12	10.53	220KV MEHRAULI – DIAL CKT-I & II	22.09.12	15.50	BOTH CKT. TRIPPED ON O/C, DIST PROT ZONE-I AT DIAL AND ON DIST PROT ZONE-I AT MEHRAULI. SPARK OBSERVED IN CT AT MEHRAULI.
33	23.09.12	13.02	220/33KV 100MVA PR. TR.-IV AT IP	23.09.12	21.01	TR. TRIPPED ON DIFFERENTIAL, CTR, 86, 164E/F. `R' PHASE PT BURNT
34	23.09.12	14.42	200/33KV 100MVA PR. TR.-I & II AT GEETA COLONY	23.09.12	20.58	TR-I TRIPPED ON 30E, 30G, 86 AND TR.-II TRIPPED ON 30E, 86 ALONG WITH 33KV I/C-II WHICH TRIPPED. TR-I & II CHARGED AT 17.28HRS AND …….HRS RESPECTIVELY
35	25.09.12	07.36	220KV BAMNAULI – NARAINA CKT-II	25.09.12	08.07	CKT. TRIPPED ON DIST PROT `R' PHASE, 186 AT BAMNAULI AND ON DIST PROT `RYB' PHASE, 86 AT NARAINA.
36	25.09.12	14.12	400/220KV 315MVA ICT-II AT BAWANA	25.09.12	14.53	ICT-II TRIPPED ON 67A (O/C), 30F, 186A&B ALONG WITH 220KV I/C-II WHICH TRIPPED ON 30D.

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
37	25.09.12	14.12	220KV BAWANA – SHALIMAR BAGH CKT-I	25.09.12	15.05	CKT. TRIPPED ON 295C, TRIP CKT SUPERVISON, 186A&B AT BAWANA AND ON DIST PROT `R' PHASE, 186A&B AT SHALIMAR BAGH.
38	25.09.12	14.14	220KV BAWANA – NAJAFGARH CKT	25.09.12	15.33	CKT. TRIPPED ON DIST PROT ZONE-I, 186 AT NAJAFGRH
39	27.09.12	08.58	33/11KV 20MVA PR. TR. AT SHALIMAR BAGH	27.09.12	16.04	TR. TRIPPED ON DIFFERENTIAL
40	27.09.12	17.53	220/66KV 100MVA PR. TR.-I AT GAZIPUR	27.09.12	18.10	TR. TRIPPED WITHOUT INDICATION.
41	30.09.12	18.20	400KV BAMNAULI – JHATIKARA CKT-I	01.10.12	03.56	CKT. TRIPPED ON 295BC, 195BC, 186A&B

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

DATE	S. N.	TIME		Name of Grid	NAME OF AFFECTED FEEDERS	LOAD RELIEF IN MW
		OUT	IN			
10.09.12	1	11.20	11.22	220kV NAJAFGARH	66kV BODELA CKT. I & II 66kV G-5 PAPANKALAN CKT. I & II	86
	2	11.20	11.22	220kV SHALIMARBAGH	33kV S.G.T.NAGAR CKT. 33kV RANI BAGH CKT.	33