DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

****

AUGUST 2012

1 **SALIENT FEATURES OF DELHI POWER SYSTEM**

Sr. No.	Features	AUGUST 2012	AUGUST 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)**	**4661**	**5031**
	Date	03.08.2012	02.08.2011
	Time	15.20.35	15.07.47
3	**Peak Demand met (MW)**	**4652**	**5028**
	Date	03.08.2012	02.08.2011
	Time	15.20.35	15.07.47
4	Peak Availability (MW)	4200	4638
5	Shortage (-) / Surplus (+) in MW	(-) 452	(-)99
6	Percentage Shortage (-) / Surplus (+)	(-) 9.72	(-)1.97
7	Maximum Energy Consume in a day (Mus)	92.784	100.742
8	Energy Consumed during the month	**2540.839**	**2670.622**
9	**Load Shedding in Mus**		
A)	Due to Grid Restrictions		
i)	Under Frequency Relay Operations	0.007	0.026
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	0.641	0.024
	BRPL	0.407	0.000
	BYPL	0.385	0.000
	NDMC	0.000	0.000
	MES	0.000	0.000
iv)	Due to transmission Constraints in Central Sector	0.796	0.000
	Total due to Grid Restriction	**2.236**	**0.050**
B)	Due to Constraints in System in Mus		
	DTL	0.696	2.094
	NDPL	0.774	0.386
	BRPL	0.803	0.764
	BYPL	0.438	0.618
	NDMC	0.000	0.001
	MES	0.000	0.000
	Other Agencies	0.002	0.000
	Total	**2.703**	**3.863**
11	**Grand Total in Mus**	**4.939**	**3.913**

2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING AUGUST 2012

A) For the month of AUGUST 2012

All Figures in MUs

S. No	Stations	Gross Generation	Aux. Consumption	Net Generation	Availability (%)	Backing Down
1.	**RPH**	39.356	5.425	33.931	38.24	--
2.	**GT**	115.848	3.761	112.087	77.28	38.067
3.	**PPCL**	148.862	4.235	144.627	61.07	7.108
4.	**BTPS**	397.747	37.997	359.750	90.76	62.021
5.	**Rithala**	15.347	0.950	14.397	--	--
6.	**Bawana**	147.079	5.098	141.981	91.78	223.625
	TOTAL	**864.239**	**57.466**	**806.773**	--	**330.821**

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

Power Station	Effective Capacity (MW)	Net Generation in MUs For Aug. 2012	Availability (%) For Aug. 2012	PLF (%) For Aug. 2012	Cumulative Generation in MUs upto Aug. 2012 for the year 2012-13	Cumulative Availability in % upto Aug. 2012 for the year 2012-13	Cumulative PLF in % upto Aug. 2012 for the year 2012-13
RPH	135	33.931	38.24	38.24	257.211	59.82	58.61
GT	270	112.087	77.28	57.75	655.422	80.23	67.96
PPCL	330	144.627	61.07	60.61	955.311	82.95	81.46
BTPS	705	359.750	90.76	79.01	1752.431	84.46	75.98
Rithala	108	14.397	--	--	91.541	--	--
Bawana	**677**	141.981	91.78	36.32	594.446	78.57	39.50
TOTAL	**1764**	**806.773**	--	--	**4306.362**	--	--

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	Contd.		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.

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.

(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
2	**30**	08.04.12	17.00	08.04.12	18.06	Machine tripped due to jerk observed in C/R.160MVA Trf. No.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.

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

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	

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	31.08.12	23.59	
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	

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	

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
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.

(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

(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
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	contd.		Reserve shutdown
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

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
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	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
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

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 AUGUST 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	19.29.04	51	206	282	58	276	525	1398	2688	2482	206	4086	22	4108
2	22.27.18	48	183	285	0	222	488	1226	2985	3010	-25	4211	0	4211
3	15.20.35	47	176	277	39	-8	509	1040	3612	3160	452	4652	9	4661
4	15.21.50	49	216	279	38	274	537	1393	2918	3188	-270	4311	14	4325
5	22.53.03	49	33	283	38	274	518	1195	3205	3103	102	4400	10	4410
6	22.14.27	49	164	285	0	276	555	1329	3301	3298	3	4630	0	4630
7	16.01.53	39	187	284	14	279	500	1303	3087	3584	-497	4390	0	4390
8	12.06.47	47	186	279	28	271	554	1365	3013	3045	-32	4378	0	4378
9	15.14.59	48	191	184	76	273	527	1299	2948	2912	36	4247	6	4253
10	23.29.13	51	187	137	39	280	359	1053	3066	3026	40	4119	0	4119
11	12.45.38	50	186	135	0	270	370	1011	3140	2870	270	4151	9	4160
12	22.50.59	47	152	137	0	224	477	1037	3245	3205	40	4282	0	4282
13	15.49.56	49	171	135	37	222	488	1102	3136	3305	-169	4238	5	4243
14	14.56.21	48	188	133	80	213	442	1104	3115	3219	-104	4219	3	4222
15	22.48.43	47	170	120	0	0	407	744	3152	3175	-23	3896	0	3896
16	22.43.04	48	147	216	21	278	494	1204	3084	3387	-303	4288	0	4288
17	15.12.46	49	139	276	38	231	498	1231	3326	3202	124	4557	7	4564
18	22.46.29	47	171	97	38	258	498	1109	3440	3358	82	4549	4	4553
19	22.44.28	51	147	99	0	239	548	1084	3367	3490	-123	4451	1	4452
20	00.00.53	49	143	98	0	284	548	1122	3077	3226	-149	4199	0	4199
21	15.44.27	48	151	99	37	216	478	1029	2948	2982	-34	3977	7	3984
22	15.04.20	50	147	97	37	204	497	1032	3048	2888	160	4080	7	4087
23	14.15.53	49	141	143	37	280	435	1085	2981	3015	-34	4066	3	4069
24	14.48.05	49	146	141	37	223	441	1037	2999	3047	-48	4036	0	4036
25	19.49.58	46	72	146	0	0	424	688	2939	2788	151	3627	0	3627
26	19.48.17	45	73	146	0	0	423	687	2959	2876	83	3646	2	3648
27	15.29.43	50	140	140	32	0	430	792	3287	3388	-101	4079	6	4085
28	16.00.11	44	147	144	37	0	451	823	3270	3115	155	4093	7	4100
29	19.33.15	40	74	293	21	-3	379	804	3076	2964	112	3880	144	4024
30	19.22.55	42	179	294	37	-4	394	942	2996	2961	35	3938	3	3941
31	22.59.18	48	181	196	37	-1	473	934	3180	2901	279	4114	0	4114

7 POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF MAXIMUM UNRESTRICTED DEMAND DURING AUGUST 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	19.29.04	51	206	282	58	276	525	1398	2688	2482	206	4086	22	4108
2	22.27.18	48	183	285	0	222	488	1226	2985	3010	-25	4211	0	4211
3	15.20.35	47	176	277	39	-8	509	1040	3612	3160	452	4652	9	4661
4	15.21.50	49	216	279	38	274	537	1393	2918	3188	-270	4311	14	4325
5	22.53.03	49	33	283	38	274	518	1195	3205	3103	102	4400	10	4410
6	22.14.27	49	164	285	0	276	555	1329	3301	3298	3	4630	0	4630
7	16.01.53	39	187	284	14	279	500	1303	3087	3584	-497	4390	0	4390
8	12.06.47	47	186	279	28	271	554	1365	3013	3045	-32	4378	0	4378
9	15.14.59	48	191	184	76	273	527	1299	2948	2912	36	4247	6	4253
10	23.29.13	51	187	137	39	280	359	1053	3066	3026	40	4119	0	4119
11	12.45.38	50	186	135	0	270	370	1011	3140	2870	270	4151	9	4160
12	22.50.59	47	152	137	0	224	477	1037	3245	3205	40	4282	0	4282
13	15.49.56	49	171	135	37	222	488	1102	3136	3305	-169	4238	5	4243
14	14.56.21	48	188	133	80	213	442	1104	3115	3219	-104	4219	3	4222
15	22.48.43	47	170	120	0	0	407	744	3152	3175	-23	3896	0	3896
16	22.43.04	48	147	216	21	278	494	1204	3084	3387	-303	4288	0	4288
17	15.12.46	49	139	276	38	231	498	1231	3326	3202	124	4557	7	4564
18	22.46.29	47	171	97	38	258	498	1109	3440	3358	82	4549	4	4553
19	22.44.28	51	147	99	0	239	548	1084	3367	3490	-123	4451	1	4452
20	00.00.53	49	143	98	0	284	548	1122	3077	3226	-149	4199	0	4199
21	15.44.27	48	151	99	37	216	478	1029	2948	2982	-34	3977	7	3984
22	15.04.20	50	147	97	37	204	497	1032	3048	2888	160	4080	7	4087
23	14.15.53	49	141	143	37	280	435	1085	2981	3015	-34	4066	3	4069
24	14.48.05	49	146	141	37	223	441	1037	2999	3047	-48	4036	0	4036
25	19.49.58	46	72	146	0	0	424	688	2939	2788	151	3627	0	3627
26	19.48.17	45	73	146	0	0	423	687	2959	2876	83	3646	2	3648
27	15.29.43	50	140	140	32	0	430	792	3287	3388	-101	4079	6	4085
28	16.00.11	44	147	144	37	0	451	823	3270	3115	155	4093	7	4100
29	20.00.00	41	75	295	20	-3	375	804	3065	2964	86	3871	183	4054
30	19.22.55	42	179	294	37	-4	394	942	2996	2961	35	3938	3	3941
31	22.29.18	48	181	196	37	-1	473	934	3180	2901	279	4114	0	4114

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

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

A (i) RPH	39.356
(ii) GT+STG	115.848
(iii) PRAGATI	148.862
(iv) RITHALA	15.347
(v) BAWANA CCGT	147.079
TOTAL	466.492
B) AVAILABILITY FROM BTPS	359.750
C) AUXILIARY CONSUMPTION OF GENERATING STNs. EXCLUDING BTPS	19.469
D) NET GENERATION AVAILABLE WITHIN DELHI(A+B-C)	**806.773**

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	9.788	9.505	5.524	5.365
SALAL	53.985	52.408	30.458	29.568
TANKAPUR	8.575	8.326	4.839	4.698
CHAMERA	30.662	29.767	17.298	16.793
CHAMERA -II	26.380	25.605	14.883	14.446
CHAMERA -III	18.670	18.120	18.670	18.120
DHAULIGANGA	24.978	24.245	14.092	13.679
SEWA -2	5.586	5.424	3.152	3.060
URI	30.431	29.543	17.170	16.669
KOTESHWAR	15.005	14.582	14.847	14.427
MUNDRA_UMPP	0.000	0.000	0.000	0.000
ANTA (GAS)	16.694	16.212	13.314	12.928
ANTA (RLNG)	5.094	4.944	0.138	0.134
ANTA (LIQUID)	0.000	0.000	0.000	0.000
DADRI (GAS)	41.131	39.926	30.649	29.744
DADRI (RLNG)	18.318	17.784	0.424	0.411
DADRI (LIQUID)	0.000	0.000	0.000	0.000
AURAIYA (GAS)	18.961	18.418	12.901	12.527
AURAIYA (RLNG)	23.090	22.412	0.648	0.628
AURAIYA (LIQUID)	0.000	0.000	0.000	0.000
SINGRAULI	96.623	93.808	86.590	84.054
RIHAND -I	27.522	26.719	24.248	23.536
RIHAND -II	78.337	76.055	69.779	67.735
UNCHAHAR-I	13.855	13.449	12.260	11.899
UNCHAHAR-II	30.534	29.646	26.935	26.147
UNCHAHAR-III	17.169	16.666	15.372	14.919
DADRI (TH)	371.934	361.009	354.707	344.282
DADRI (TH) STAGE-II	395.360	383.804	358.885	348.335
NAPP	20.616	20.015	20.616	20.015
RAPP 'B'	0.000	0.000	0.000	0.000
RAPP 'C'	36.797	35.719	36.797	35.719
NATHPA JHAKRI	98.411	95.512	98.411	95.512
DULASTI	34.077	33.086	19.226	18.667
TEHRI	47.254	45.916	47.254	45.916
JHAJJAR	78.841	76.557	27.094	26.294
KHELGAON	23.377	22.698	21.445	20.822
KHELGAON-II	75.030	72.861	71.658	69.583
FARAKA	7.497	7.279	6.539	6.350
TALA	22.686	22.024	22.686	22.024
TALCHER	0.000	0.000	0.000	0.000
DVC	167.248	164.792	164.792	159.987
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)	37.626	37.074	37.074	36.000
DVC CTPS (BYPL)	21.795	21.474	21.474	20.849
DVC CTPS (NDPL)	0.000	0.000	0.000	0.000

NAME OF THE STATION	AVAILABILITY AT POWER PLANT	AVAILABILITY AT DELHI PERIPHERY	ALLOCATION MADE BY NRLDC AT POWER PLANT	ALLOCATION MADE BY NRLDC AT DELHI PERIPHERY
METHON POWER(NDPL)LT-06	179.433	176.793	176.793	171.615
DVC MEJIA (LT-08)(BYPL)	50.388	49.652	49.652	48.233
ORISSA	0.000	0.000	0.000	0.000
SIKKIM	0.000	0.000	0.000	0.000
HIMACHAL PRADESH	71.047	70.170	70.170	68.120
WEST BENGAL	0.000	0.000	0.000	0.000
MADHYA PRADESH(WR)	142.579	139.994	139.994	135.964
JAMMU & KASHMIR	66.705	65.481	65.481	63.575
DVC (FOR NDPL) LT-09	26.104	25.720	25.720	24.976
HARYANA (LT-05)	26.605	26.212	26.212	25.452
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	1.394	1.371	1.371	1.328
TO CHHATISHGARH	0.000	0.000	0.000	0.000
TO WEST BENGAL	-5.914	-5.984	-5.984	-6.163
TO MADHYA PRADESH	0.000	0.000	0.000	0.000
TO JAMMU & KASHMIR	0.000	0.000	0.000	0.000
TO JHARKHAND	0.000	0.000	0.000	0.000
TO RAJASTHAN	0.000	0.000	0.000	0.000
TO HIMACHAL PRADESH	0.000	0.000	0.000	0.000
TO ASSAM	0.000	0.000	0.000	0.000
TO UTTAR PRADESH	-8.323	-8.444	-8.444	-8.678
POWER EXCHANGE(IEX)	8.147	7.908	8.147	7.908
TO POWER EXCHANGE (IEX)	-117.203	-120.742	-117.203	-120.742
POWRER EXCHANGE(PX)	0.000	0.000	0.000	0.000
TO POWER EXCHANGE (PX)	-0.066	-0.068	-0.066	-0.068
TO SHARE PROJECT (HARYANA)	-12.636	-13.025	-12.636	-13.025
TO SHARE PROJECT (PUNJAB)	-12.906	-13.304	-12.906	-13.304
TOTAL	**2465.291**	**2395.121**	**2149.152**	**2077.032**

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	1154.622	1120.852	1006.852	977.279
NTPC - ER	105.904	102.838	99.643	96.755
NHPC	243.133	236.031	145.311	141.064
NPC	57.413	55.734	57.413	55.734
KOTESHWAR	15.005	14.582	14.847	14.427
MUNDRA_UMPP	0.000	0.000	0.000	0.000
NATHPA JHAKRI	98.411	95.512	98.411	95.512
TEHRI	47.254	45.916	47.254	45.916
TALA	22.686	22.024	22.686	22.024
JHAJJAR	78.841	76.557	27.094	26.294
TALCHER	0.000	0.000	0.000	0.000
DVC	167.248	164.792	164.792	159.987
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)	37.626	37.074	37.074	36.000
DVC CTPS (BYPL)	21.795	21.474	21.474	20.849
DVC CTPS (NDPL)	0.000	0.000	0.000	0.000
METHON POWER (NDPL)-LT-06	179.433	176.793	176.793	171.615
DVC MEJIA (LT-08)(BYPL)	50.388	49.652	49.652	48.233
HIMACHAL PRADESH	71.047	70.170	70.170	68.120
MADHYA PRADESH(WR)	142.579	139.994	139.994	135.964
JAMMU & KASHMIR	66.705	65.481	65.481	63.575
DVC (FOR NDPL) LT-09	26.104	25.720	25.720	24.976
HARYANA (LT -05)	26.605	26.212	26.212	25.452
RAJASTHAN	1.394	1.371	1.371	1.328
POWER EXCHANGE(IEX)	8.147	7.908	8.147	7.908
POWER EXCHANGE(PX)	0.000	0.000	0.000	0.000
TOTAL	**2622.338**	**2556.687**	**2306.390**	**2239.011**

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 CHHATISHGARH	0.000	0.000	0.000	0.000
TO MADHYA PRADESH	0.000	0.000	0.000	0.000
TO WEST BENGAL	-5.914	-5.984	-5.984	-6.163
TO JAMMU & KASHMIR	0.000	0.000	0.000	0.000
TO JHARKHAND	0.000	0.000	0.000	0.000
TO RAJASTHAN	0.000	0.000	0.000	0.000
TO HIMACHAL PRADESH	0.000	0.000	0.000	0.000
TO ASSAM	0.000	0.000	0.000	0.000
TO UTTAR PRADESH	-8.323	-8.444	-8.444	-8.678
TO POWER EXCHANGE (IEX)	-117.203	-120.742	-117.203	-120.742
TO POWER EXCHANGE (PX)	-0.066	-0.068	-0.066	-0.068
TO SHARE PROJECT (HARYANA)	-12.636	-13.025	-12.636	-13.025
TO SHARE PROJECT (PUNJAB)	-12.906	-13.304	-12.906	-13.304
TOTAL	**-157.047**	**-161.566**	**-157.238**	**-161.979**
TOTAL SCHEDULED DRAWAL FROM THE GRID	**2465.291**	**2395.121**	**2149.152**	**2077.032**
TOTAL CONSUMPTION INCLUDING AUX. OF GENERATING STNs. EXCLUDING BTPS				2560.308
NET CONSUMPTION				2540.839
AVAILABILITY WITHIN DELHI				806.773
ACTUAL DRAWAL FROM THE GRID				1734.066
OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID ON THE BASIS OF SCHEDULED ALLOCATION MADE BY NRLDC TO DELHI AT PERIPHERY				-342.966
LOAD SHEDDING				**4.939**
UNRESTRICTED DEMAND (GROSS)				**2565.247**
UNRESTRICTED DEMAND (NET)				**2545.778**
MAX. NET CONSUMPTION				92.784Mus. ON 06.08.2012
MAX. LOAD SHEDDING				417MW ON 01.08.2012 AT 17.30HRS.
PEAK LOAD	Peak Demand during the month			SHEDDING AT PEAK TIME
DAY PEAK	4652MW AT 15.20.35HRS ON 03.08.2012			9MW
EVENING PEAK	4630MW AT 22.14.27HRS ON 06.08.2012			NIL
P.L.F. OF GENCO AND PRAGATI STNs.	RPH			39.18%
	GT			57.67%
	PRAGATI			60.63%
	RITHALA			19.10%
	BAWANA			29.86%

9 SHEDDING DETAILS DURING THE MONTH OF AUGUST 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-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
2-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
3-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.003	0.073	0.025	0.000
4-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
5-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
6-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.113	0.082	0.000	0.000
7-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
8-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
9-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.074	0.006	0.188	0.000
10-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
11-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.033	0.038	0.000	0.000
12-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
13-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
14-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
15-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.111	0.000
16-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
17-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
18-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.051	0.103	0.024	0.000
19-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.026	0.000	0.000
20-Aug-12	1	0.007	0.000	0.000	0.000	**0.007**	0.000	0.000	0.000	0.000
21-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
22-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
23-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.005	0.000
24-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
25-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
26-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
27-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
28-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
29-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.052	0.117	0.000
30-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000
31-Aug-12	0	0.000	0.000	0.000	0.000	**0.000**	0.111	0.027	0.171	0.000
TOTAL	**1**	**0.007**	**0.000**	**0.000**	**0.000**	0.007	**0.385**	**0.407**	**0.641**	**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-Aug-12	0.098	0.248	0.144	0.000	**0.490**	**0.490**	0.000	0.000	0.001	0.000	0.000
2-Aug-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.003	0.000	0.000
3-Aug-12	0.000	0.000	0.000	0.000	**0.101**	**0.101**	0.000	0.000	0.001	0.000	0.000
4-Aug-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.027	0.007	0.000	0.000
5-Aug-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.017	0.000	0.008	0.000	0.000
6-Aug-12	0.000	0.000	0.000	0.000	**0.195**	**0.195**	0.000	0.000	0.000	0.000	0.000
7-Aug-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.040	0.000	0.000	0.000
8-Aug-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
9-Aug-12	0.000	0.000	0.000	0.000	**0.268**	**0.268**	0.000	0.000	0.000	0.000	0.000
10-Aug-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
11-Aug-12	0.000	0.000	0.000	0.000	**0.071**	**0.071**	0.023	0.000	0.008	0.000	0.000
12-Aug-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
13-Aug-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.020	0.000	0.000	0.000
14-Aug-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.012	0.011	0.009	0.000	0.000
15-Aug-12	0.000	0.000	0.000	0.000	**0.111**	**0.111**	0.000	0.000	0.001	0.000	0.000
16-Aug-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.014	0.000	0.000
17-Aug-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.012	0.003	0.035	0.000	0.000
18-Aug-12	0.000	0.000	0.000	0.000	**0.178**	**0.178**	0.021	0.057	0.022	0.000	0.000
19-Aug-12	0.000	0.000	0.000	0.000	**0.026**	**0.026**	0.000	0.004	0.009	0.000	0.000
20-Aug-12	0.079	0.091	0.136	0.000	**0.306**	**0.313**	0.000	0.201	0.000	0.000	0.000
21-Aug-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.002	0.005	0.000	0.000	0.000
22-Aug-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
23-Aug-12	0.000	0.000	0.000	0.000	**0.005**	**0.005**	0.011	0.000	0.000	0.000	0.000
24-Aug-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.011	0.012	0.000	0.000	0.000
25-Aug-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
26-Aug-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.002	0.000	0.000	0.000
27-Aug-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
28-Aug-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.018	0.000	0.000	0.000	0.000
29-Aug-12	0.000	0.000	0.000	0.000	**0.169**	**0.169**	0.000	0.050	0.000	0.000	0.000
30-Aug-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
31-Aug-12	0.000	0.000	0.000	0.000	**0.309**	**0.309**	0.019	0.000	0.000	0.000	0.000
	0.177	**0.339**	**0.280**	**0.000**	**2.229**	**2.236**	**0.146**	**0.432**	**0.118**	**0.000**	**0.000**

ALL FIGURES IN MUs

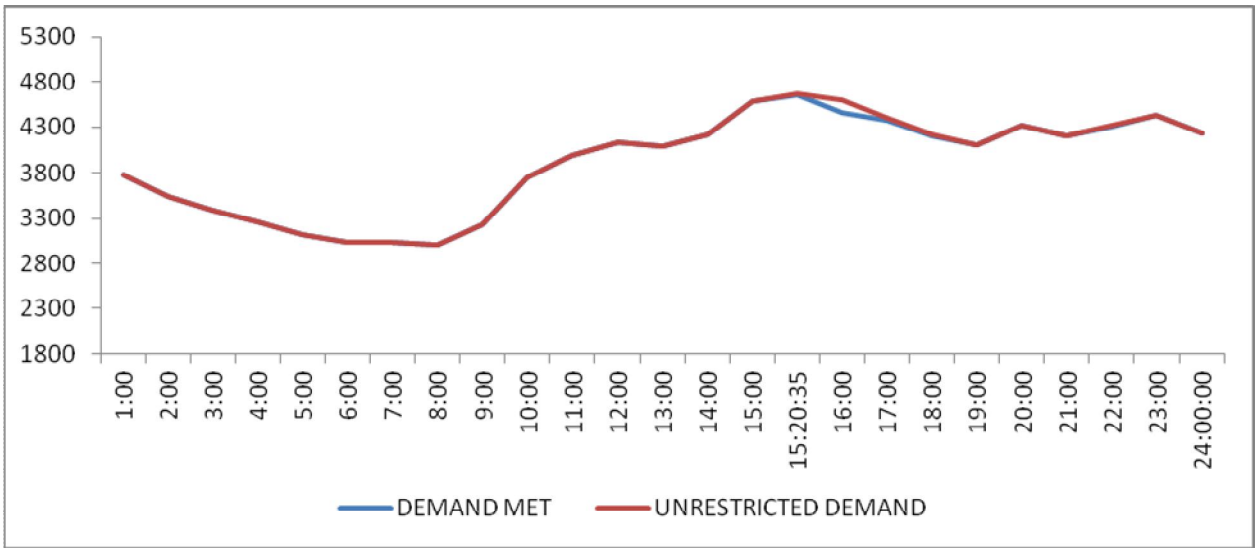
DATE	DUE TO T&D CONTRAINTS				OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.	THEFT PRONE SHEDDING			TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE	GRAND TOTAL
	DISCOMS									
	BSES		NDPL	NDMC		BSES		NDPL		
	BYPL	BRPL				BYPL	BRPL			
1	23	24	25		26	27	28	29	30=18 to29	31=30+17
1-Aug-12	0.004	0.052	0.016	0.000	0.000	0.000	0.000	0.012	0.085	0.575
2-Aug-12	0.025	0.016	0.000	0.000	0.000	0.000	0.000	0.003	0.047	0.047
3-Aug-12	0.000	0.000	0.029	0.000	0.000	0.000	0.000	0.017	0.047	0.148
4-Aug-12	0.005	0.006	0.003	0.000	0.000	0.000	0.000	0.034	0.082	0.082
5-Aug-12	0.012	0.014	0.000	0.000	0.000	0.000	0.000	0.037	0.088	0.088
6-Aug-12	0.006	0.033	0.005	0.000	0.000	0.000	0.000	0.030	0.074	0.269
7-Aug-12	0.016	0.056	0.001	0.000	0.000	0.000	0.000	0.024	0.137	0.137
8-Aug-12	0.020	0.006	0.001	0.000	0.000	0.000	0.000	0.019	0.046	0.046
9-Aug-12	0.073	0.000	0.003	0.000	0.000	0.000	0.000	0.006	0.082	0.350
10-Aug-12	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000	0.020	0.020
11-Aug-12	0.033	0.000	0.004	0.000	0.000	0.000	0.000	0.006	0.074	0.145
12-Aug-12	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.023	0.033	0.033
13-Aug-12	0.002	0.010	0.019	0.000	0.002	0.000	0.000	0.013	0.066	0.066
14-Aug-12	0.006	0.008	0.002	0.000	0.000	0.000	0.000	0.015	0.063	0.063
15-Aug-12	0.012	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.022	0.133
16-Aug-12	0.000	0.041	0.003	0.000	0.000	0.000	0.000	0.024	0.082	0.082
17-Aug-12	0.003	0.030	0.000	0.000	0.000	0.000	0.000	0.021	0.104	0.104
18-Aug-12	0.013	0.193	0.000	0.000	0.000	0.000	0.000	0.021	0.327	0.505
19-Aug-12	0.000	0.008	0.019	0.000	0.000	0.000	0.000	0.028	0.068	0.094
20-Aug-12	0.059	0.020	0.005	0.000	0.000	0.000	0.000	0.010	0.295	0.608
21-Aug-12	0.006	0.026	0.000	0.000	0.000	0.000	0.000	0.018	0.057	0.057
22-Aug-12	0.007	0.045	0.005	0.000	0.000	0.000	0.000	0.023	0.080	0.080
23-Aug-12	0.018	0.025	0.005	0.000	0.000	0.000	0.000	0.019	0.078	0.083
24-Aug-12	0.009	0.016	0.000	0.000	0.000	0.000	0.000	0.021	0.069	0.069
25-Aug-12	0.006	0.023	0.018	0.000	0.000	0.000	0.000	0.014	0.061	0.061
26-Aug-12	0.003	0.011	0.000	0.000	0.000	0.000	0.000	0.021	0.037	0.037
27-Aug-12	0.008	0.000	0.001	0.000	0.000	0.000	0.000	0.012	0.021	0.021
28-Aug-12	0.058	0.017	0.036	0.000	0.000	0.000	0.000	0.012	0.141	0.141
29-Aug-12	0.017	0.013	0.000	0.000	0.000	0.000	0.000	0.016	0.096	0.265
30-Aug-12	0.000	0.128	0.025	0.000	0.000	0.000	0.000	0.015	0.168	0.168
31-Aug-12	0.012	0.001	0.008	0.000	0.000	0.000	0.000	0.013	0.053	0.362
TOTAL	**0.438**	**0.803**	**0.237**	**0.000**	**0.002**	**0.000**	**0.000**	**0.527**	**2.705**	**4.939**

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-Aug-12	82.068	4086	19:29:04	22	4108	4108	19:29:04	4086	22
2-Aug-12	79.976	4211	22:27:18	0	4211	4211	22:27:18	4211	0
3-Aug-12	87.622	4652	15:20:35	9	4661	4661	15:20:35	4652	9
4-Aug-12	87.641	4311	15:21:50	14	4325	4325	15:21:50	4311	14
5-Aug-12	86.632	4400	22:53:03	10	4410	4410	22:53:03	4400	10
6-Aug-12	92.784	4630	22:14:27	0	4630	4630	22:14:27	4630	0
7-Aug-12	90.189	4390	16:01:53	0	4390	4390	16:01:53	4390	0
8-Aug-12	86.274	4378	12:06:47	0	4378	4378	12:06:47	4378	0
9-Aug-12	85.127	4247	15:14:59	6	4253	4253	15:14:59	4247	6
10-Aug-12	79.742	4119	23:29:13	0	4119	4119	23:29:13	4119	0
11-Aug-12	81.248	4151	12:45:38	9	4160	4160	12:45:38	4151	9
12-Aug-12	78.598	4282	22:50:59	0	4282	4282	22:50:59	4282	0
13-Aug-12	85.415	4238	15:49:56	5	4243	4243	15:49:56	4238	5
14-Aug-12	82.973	4219	14:56:21	3	4222	4222	14:56:21	4219	3
15-Aug-12	70.488	3896	22:48:43	0	3896	3896	22:48:43	3896	0
16-Aug-12	83.243	4288	22:43:04	0	4288	4288	22:43:04	4288	0
17-Aug-12	87.402	4557	15:12:46	7	4564	4564	15:12:46	4557	7
18-Aug-12	88.344	4549	22:46:29	4	4553	4553	22:46:29	4549	4
19-Aug-12	85.491	4451	22:44:28	1	4452	4452	22:44:28	4451	1
20-Aug-12	85.186	4199	00:00:53	0	4199	4199	00:00:53	4199	0
21-Aug-12	81.573	3977	15:44:27	7	3984	3984	15:44:27	3977	7
22-Aug-12	77.954	4080	15:04:20	7	4087	4087	15:04:20	4080	7
23-Aug-12	80.149	4066	14:15:53	3	4069	4069	14:15:53	4066	3
24-Aug-12	78.362	4036	14:48:05	0	4036	4036	14:48:05	4036	0
25-Aug-12	74.816	3627	19:49:58	0	3627	3627	19:49:58	3627	0
26-Aug-12	71.517	3646	19:48:17	2	3648	3648	19:48:17	3646	2
27-Aug-12	78.493	4079	15:29:43	6	4085	4085	15:29:43	4079	6
28-Aug-12	78.475	4093	16:00:11	7	4100	4100	16:00:11	4093	7
29-Aug-12	75.917	3880	19:33:15	144	4024	4054	20:00	3871	183
30-Aug-12	78.868	3938	19:22:55	3	3941	3941	19:22:55	3938	3
31-Aug-12	78.272	4114	22:59:18	0	4114	4114	22:59:18	4114	0
Total	**2540.839**	**4652** **03.08.2012**	15.20.35	9	**4661** 03.08.2012	**4661**	15.20.35	4652	9

10 LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING AUGUST 2012 ON 03.08.2012- 4652MW at 15.20.35HRS.

All figures in MW

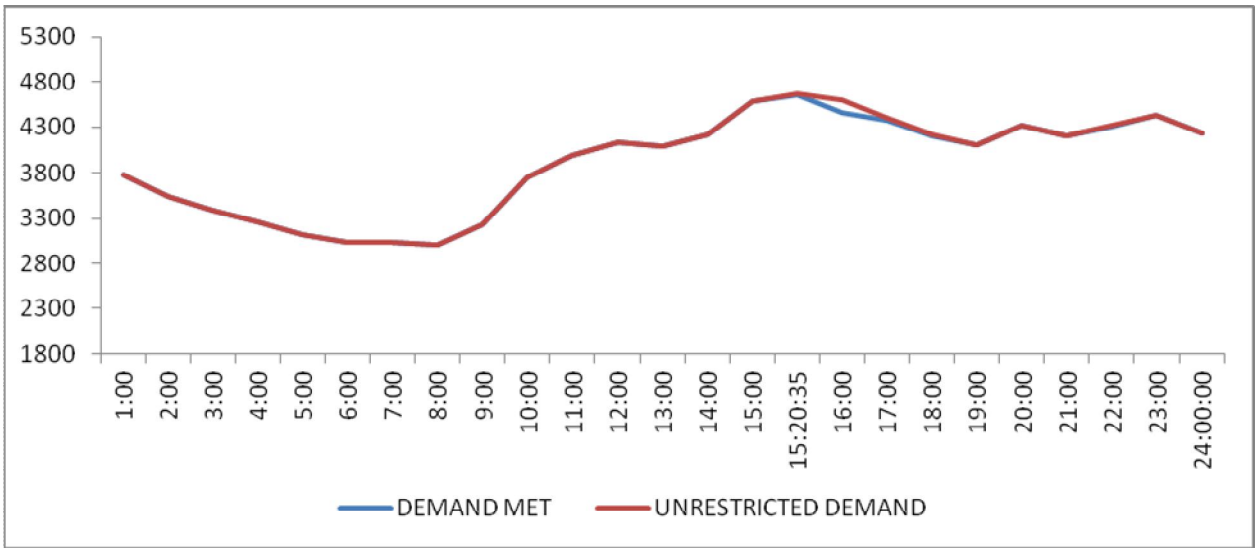
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	3773	0	3773
2.00	3546	0	3546
3.00	3381	0	3381
4.00	3265	0	3265
5.00	3120	0	3120
6.00	3028	0	3028
7.00	3029	0	3029
8.00	3007	0	3007
9.00	3237	0	3237
10.00	3749	0	3749
11.00	3985	0	3985
12.00	4135	0	4135
13.00	4095	0	4095
14.00	4215	0	4215
15.00	4580	9	4589
15.20.35	4652	9	4661
16.00	4459	136	4595
17.00	4373	22	4395
18.00	4205	8	4213
19.00	4100	0	4100
20.00	4310	0	4310
21.00	4208	0	4208
22.00	4307	9	4316
23.00	4425	0	4425
24.00	4229	0	4229
ENERGY IN MUS	**87.622**	**0.148**	**87.770**



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING AUGUST 2012 ON 03.08.2012 4661MW at 15.20.35HRS.

All figures in MW

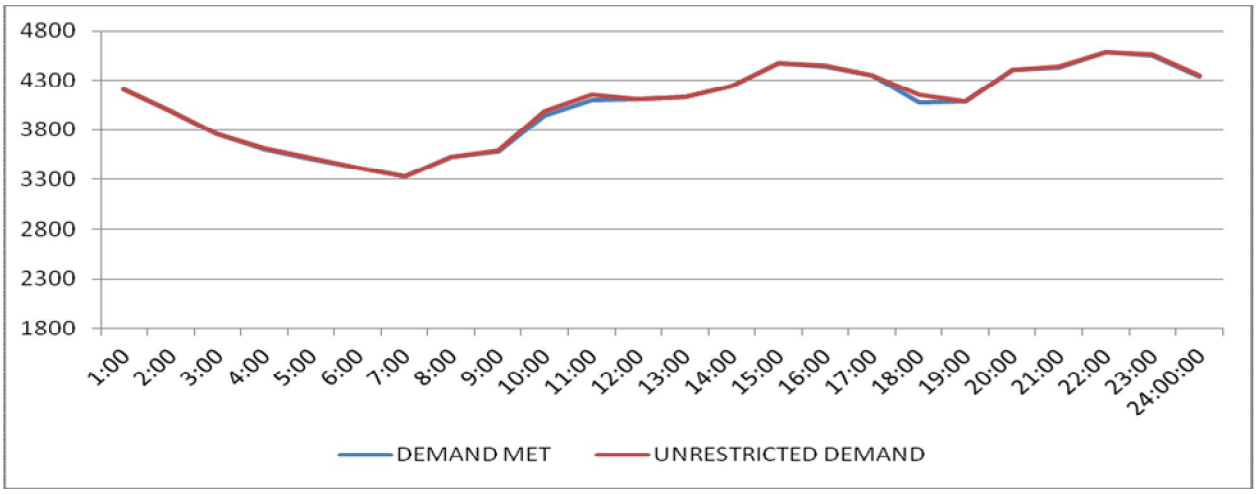
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	3773	0	3773
2.00	3546	0	3546
3.00	3381	0	3381
4.00	3265	0	3265
5.00	3120	0	3120
6.00	3028	0	3028
7.00	3029	0	3029
8.00	3007	0	3007
9.00	3237	0	3237
10.00	3749	0	3749
11.00	3985	0	3985
12.00	4135	0	4135
13.00	4095	0	4095
14.00	4215	0	4215
15.00	4580	9	4589
15.20.35	4652	9	4661
16.00	4459	136	4595
17.00	4373	22	4395
18.00	4205	8	4213
19.00	4100	0	4100
20.00	4310	0	4310
21.00	4208	0	4208
22.00	4307	9	4316
23.00	4425	0	4425
24.00	4229	0	4229
ENERGY IN MUS	**87.622**	**0.148**	**87.770**



12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING AUGUST 2012 – 06.08.2012 – 92.784 Mus

All figures in MW

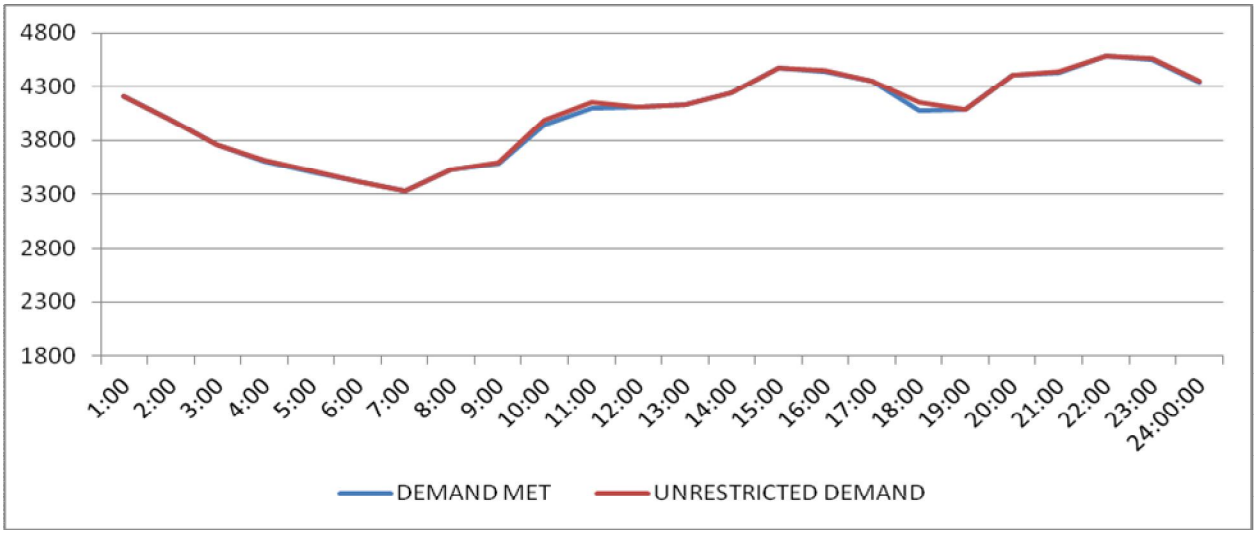
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	4208	4	4212
2.00	3995	0	3995
3.00	3760	0	3760
4.00	3609	5	3614
5.00	3510	5	3515
6.00	3423	1	3424
7.00	3330	0	3330
8.00	3528	0	3528
9.00	3589	3	3592
10.00	3947	47	3994
11.00	4102	53	4155
12.00	4112	2	4114
13.00	4132	0	4132
14.00	4243	0	4243
15.00	4476	0	4476
16.00	4440	8	4448
17.00	4351	0	4351
18.00	4074	84	4158
19.00	4087	0	4087
20.00	4407	0	4407
21.00	4426	14	4440
22.00	4581	0	4581
23.00	4544	16	4560
24.00	4342	5	4347
ENERGY IN MUS	**92.784**	**0.269**	**93.053**



13 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING AUGUST 2012 – 06.08.2012 – 93.053 Mus

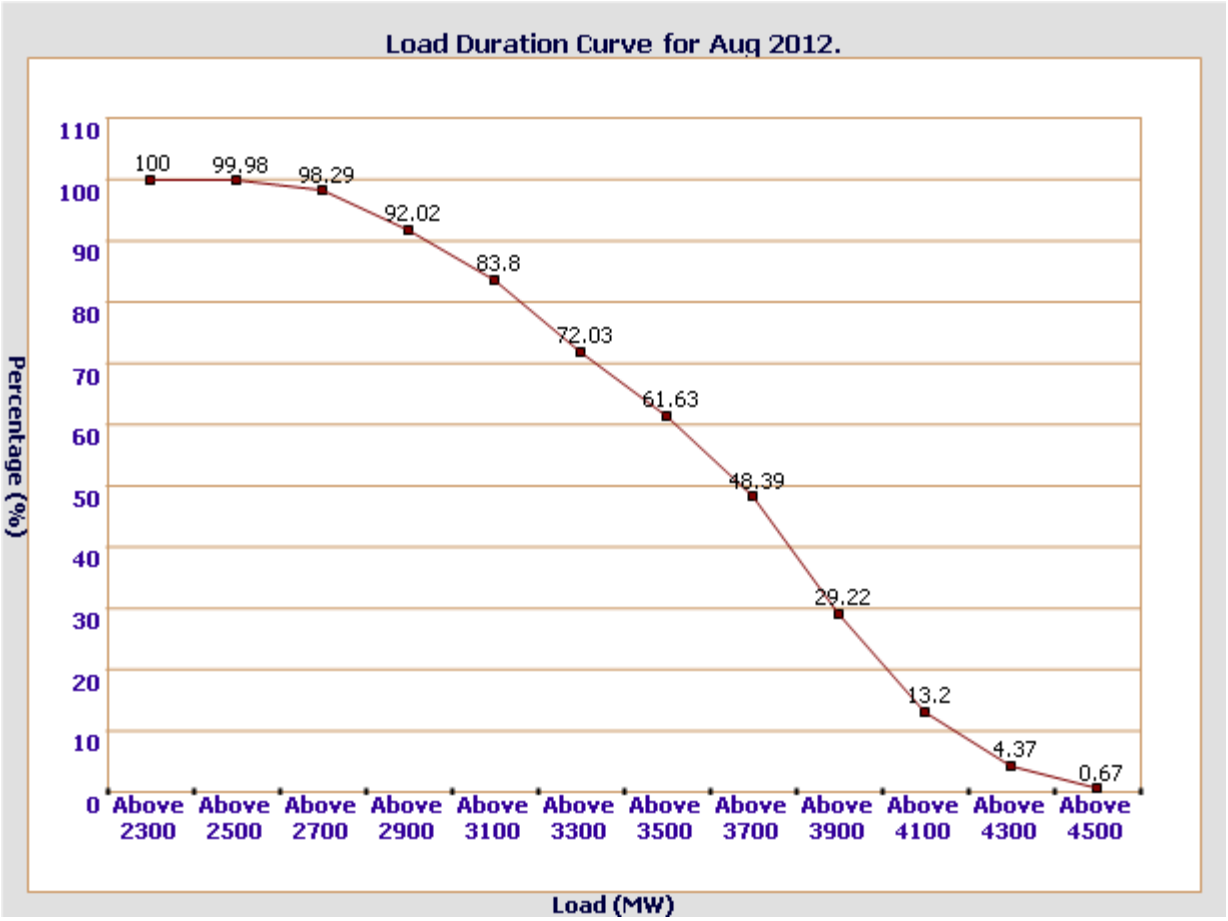
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	4208	4	4212
2.00	3995	0	3995
3.00	3760	0	3760
4.00	3609	5	3614
5.00	3510	5	3515
6.00	3423	1	3424
7.00	3330	0	3330
8.00	3528	0	3528
9.00	3589	3	3592
10.00	3947	47	3994
11.00	4102	53	4155
12.00	4112	2	4114
13.00	4132	0	4132
14.00	4243	0	4243
15.00	4476	0	4476
16.00	4440	8	4448
17.00	4351	0	4351
18.00	4074	84	4158
19.00	4087	0	4087
20.00	4407	0	4407
21.00	4426	14	4440
22.00	4581	0	4581
23.00	4544	16	4560
24.00	4342	5	4347
ENERGY IN MUS	**92.784**	**0.269**	**93.053**



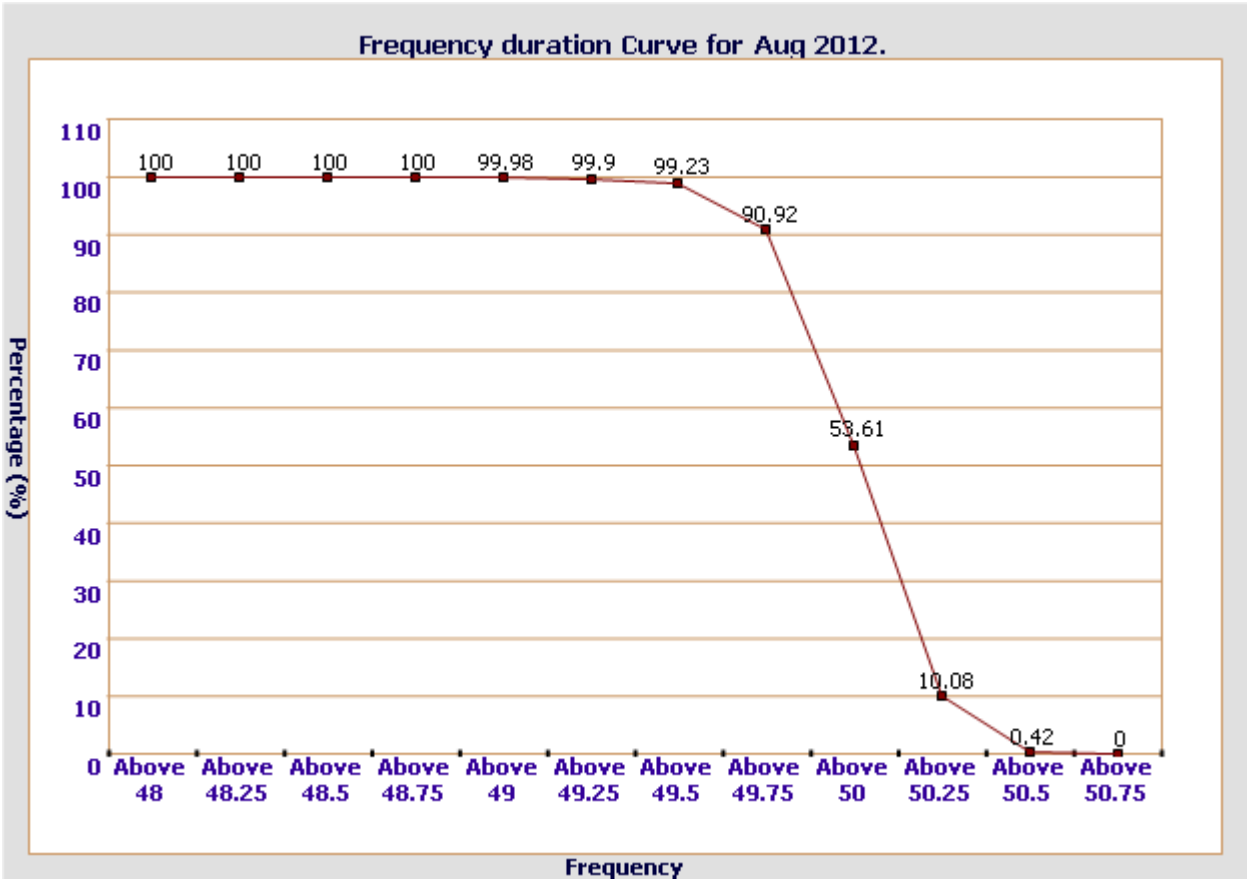
14 LOAD DURATION CURVE FOR AUGUST 2012

Load in MW	Percentage of Time
Above 2300	100 %
Above 2500	99.98 %
Above 2700	98.29 %
Above 2900	92.02 %
Above 3100	83.8 %
Above 3300	72.03 %
Above 3500	61.63 %
Above 3700	48.39 %
Above 3900	29.22 %
Above 4100	13.2 %
Above 4300	4.37 %
Above 4500	0.67 %



15 FREQUENCY ANALYSIS FOR THE MONTH OF AUGUST 2012

Frequency Range in Hz.	Percentage of time
Above 48.75	100 %
Above 49	99.98 %
Above 49.25	99.9 %
Above 49.5	99.23 %
Above 49.75	90.92 %
Above 50	53.61 %
Above 50.25	10.08 %
Above 50.5	0.42 %
Above 50.75	0 %



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

All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
1-Aug-12	224.92	213.44	228.66	219.25
2-Aug-12	225.57	215.25	230.73	218.35
3-Aug-12	225.57	209.32	228.28	214.99
4-Aug-12	223.38	214.35	225.05	213.19
5-Aug-12	222.47	217.96	226.21	212.03
6-Aug-12	221.44	212.15	224.28	215.25
7-Aug-12	224.79	215.77	226.21	216.54
8-Aug-12	225.31	214.61	229.18	217.17
9-Aug-12	225.44	213.83	228.28	216.93
10-Aug-12	226.08	217.70	228.53	218.47
11-Aug-12	225.44	218.22	228.79	218.86
12-Aug-12	221.83	221.83	228.28	216.28
13-Aug-12	222.21	214.99	227.89	215.38
14-Aug-12	221.83	209.83	228.92	217.18
15-Aug-12	226.34	216.54	230.08	--
16-Aug-12	225.44	213.19	228.66	213.06
17-Aug-12	224.79	212.41	228.92	215.25
18-Aug-12	224.66	--	226.60	213.32
19-Aug-12	223.76	213.19	226.60	213.32
20-Aug-12	223.12	211.51	226.99	213.83
21-Aug-12	224.92	216.67	227.37	217.83
22-Aug-12	225.57	217.18	230.08	220.41
23-Aug-12	230.21	219.64	228.79	219.64
24-Aug-12	229.44	214.99	228.79	219.51
25-Aug-12	234.34	219.25	229.82	219.25
26-Aug-12	234.34	221.05	229.95	220.41
27-Aug-12	233.31	222.21	229.31	220.92
28-Aug-12	233.43	218.35	226.86	219.51
29-Aug-12	233.18	218.60	224.79	214.48
30-Aug-12	231.76	217.31	224.41	216.28
31-Aug-12	231.37	217.18	225.31	212.41

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

All figures in kV

Date	400kV Bamnauli Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
1-Aug-12	412.47	00.00.05	396.05	10.04.37	404.93
2-Aug-12	414.58	08.01.08	392.30	20.05.59	405.57
3-Aug-12	410.12	06.05.21	386.67	14.13.31	405.61
4-Aug-12	406.84	18.01.50	393.24	14.12.16	400.58
5-Aug-12	410.83	03.45.03	390.43	22.30.41	401.24
6-Aug-12	408.01	18.47.43	392.07	10.52.24	398.87
7-Aug-12	411.30	03.04.05	399.81	19.43.26	407.68
8-Aug-12	412.70	18.07.29	393.71	10.55.13	402.58
9-Aug-12	411.06	04.04.08	391.60	14.42.27	402.68
10-Aug-12	413.87	04.03.31	397.23	22.17.3	405.28
11-Aug-12	410.83	13.19.10	397.23	15.42.17	404.44
12-Aug-12	412.47	04.58.52	394.88	22.22.17	404.93
13-Aug-12	411.53	08.07.00	394.88	14.37.52	402.58
14-Aug-12	412.70	04.07.14	392.07	19.31.26	402.30
15-Aug-12	414.34	06.02.53	393.24	19.48.43	405.55
16-Aug-12	412.23	06.02.09	389.72	22.08.12	400.06
17-Aug-12	411.06	13.07.22	387.38	10.52.24	400.44
18-Aug-12	410.12	07.02.30	389.25	23.05.00	400.36
19-Aug-12	410.12	17.32.17	390.43	22.36.28	400.71
20-Aug-12	408.72	13.56.42	386.20	10.50.01	400.76
21-Aug-12	411.53	03.11.35	396.29	12.20.25	404.30
22-Aug-12	415.05	05.06.52	397.52	19.25.25	405.14
23-Aug-12	--	--	--	--	--
24-Aug-12	414.34	05.06.02	393.94	11.49.04	403.06
25-Aug-12	413.17	04.03.00	394.88	19.40.08	405.30
26-Aug-12	413.64	05.09.21	396.99	19.34.57	407.08
27-Aug-12	415.05	03.27.06	396.29	19.39.26	405.14
28-Aug-12	414.58	03.50.34	395.82	10.50.49	407.16
29-Aug-12	415.52	04.31.04	398.40	19.11.12	406.49
30-Aug-12	414.58	04.10.15	401.92	12.02.37	407.72
31-Aug-12	415.75	03.52.58	397.46	14.27.09	406.85

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
1-Aug-12	417.86	00.00.05	401.92	15.51.21	410.13
2-Aug-12	419.27	08.01.08	398.16	20.06.09	410.45
3-Aug-12	413.64	06.04.01	392.77	14.13.31	405.61
4-Aug-12	410.83	03.41.50	398.40	14.11.46	405.24
5-Aug-12	413.64	03.47.32	396.24	22.30.21	405.13
6-Aug-12	412.23	18.47.53	395.82	06.39.30	403.36
7-Aug-12	414.81	03.04.05	399.81	19.43.26	407.68
8-Aug-12	415.98	18.15.19	399.81	10.57.43	406.78
9-Aug-12	414.58	04.02.58	397.23	14.43.07	407.23
10-Aug-12	416.69	04.03.31	401.92	22.17.30	409.59
11-Aug-12	415.52	13.19.20	403.32	00.16.07	408.93
12-Aug-12	415.52	04.59.12	399.34	22.22.27	409.04
13-Aug-12	414.81	08.02.09	400.27	14.35.52	406.87
14-Aug-12	415.75	04.07.04	397.23	19.38.37	406.62
15-Aug-12	418.33	06.13.24	399.10	19.46.53	409.92
16-Aug-12	417.16	04.19.02	296.05	22.06.32	405.26
17-Aug-12	415.05	13.08.12	394.41	06.39.30	405.82
18-Aug-12	413.64	08.57.37	395.82	23.04.20	404.94
19-Aug-12	414.58	17.32.27	396.76	22.32.08	405.49
20-Aug-12	413.41	13.57.12	393.71	10.51.11	406.09
21-Aug-12	416.22	03.11.55	402.85	12.19.25	409.54
22-Aug-12	418.56	05.05.52	403.09	09.41.26	409.96
23-Aug-12	--	--	--	--	--
24-Aug-12	416.92	05.05.52	399.34	11.48.54	407.56
25-Aug-12	416.22	04.03.00	400.98	19.39.28	409.69
26-Aug-12	416.92	05.09.21	401.92	19.34.57	410.79
27-Aug-12	418.56	03.30.56	401.68	19.37.36	409.79
28-Aug-12	418.10	03.10.52	400.74	10.45.19	411.15
29-Aug-12	419.03	07.22.33	403.09	11.54.54	411.23
30-Aug-12	417.86	04.10.35	406.84	10.51.32	411.80
31-Aug-12	419.03	04.05.19	402.85	14.27.39	411.71

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 AUGUST 2012

SL NO.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
01	01.08.12	11.49	400KV BAWANA – BAHADURGARH CKT.	01.08.12	14.34	CB-552 OF THE CKT. TRIPPED ON 186A&B, 30CH, POLE DISCREPANCY
02	02.08.12	17.48	400KV CB-41652 AT MUNDKA	02.08.12	18.52	CB-41652 CONTROLLING ICT-IV TRIPPED ON BUS BAR PROTECTION CONTROL RELAY.
03	02.08.12	18.01	400KV BAWANA – BAHADURGARH CKT.	09.08.12	16.30	CB-552 OF THE CKT. TRIPPED ON 186A&B, 30CH-2, POLE DISCREPANCY, 96Y
04	03.08.12	04.33	33/11KV 16MVA PR. TR.-I AT SUBZI MANDI	03.08.12	06.52	TR. TRIPPED ON DIFFERENTIAL ALONG WITH ITS 11KV I/C WHICH TRIPPED WITHOUT INDICATION.
05	03.08.12	15.37	400KV BAWANA – BAHADURGARH CKT.	03.08.12	15.40	CB-652 OF THE CKT. TRIPPED WHILE TESTING AT BAWANA END ONLY. CB-552 WAS ALREADY ON SHUT-DOWN.
06	04.08.12	14.46	220KV MANDOLA – WAZIRABAD CKT-I	04.08.12	17.20	CKT. TRIPPED DIST PROT `Y&B' PHASE ZONE-I AT MANDOLA AND ON DIST PROT `RYB' PHASE ZONE-I AT WAZIRABAD
07	05.08.12	07.57	220/33KV 100MVA PR. TR-II AT SUBZI MANDI	05.08.12	15.18	TR. TRIPPED ON 87 ALONG WITH ITS 33KV I/C-II WHICH TRIPPEDO N 95ABC, 86
08	06.08.12	10.58	220/66KV 100MVA PR. TR.-I AT KANJHAWALA	06.08.12	13.42	TR. TRIPPED ON PRV
09	07.08.12	20.12	220/33KV 100MVA PR. TR.-IV AT OKHLA	07.08.12	20.36	TR. TRIPPED ON 86, ALONG WITH 33KV I/C-III & IV. 33KV I/C-III TRIPPED ON 86, 51C AND 33KV I/C-IV TRIPPED ON 86. 33KV I/C-III & IV CHARGED AT 20.32HRS. AND 20.36HRS RESPECTIVELY.
10	11.08.12	14.07	220K BTPS – NOIDA – GAZIPUR CKT.	11.08.12	14.18	CKT. TRIPPED ON DIST PROT ZONE-III AT GAZIPUR. NO TRIPPING AT NOIDA AND BTPS.
11	11.08.12	14.10	220/66KV 100MVA PR.TR.-I & II AT DSIDC	11.08.12	15.29	TR.-I & II TRIPPED ON 86 ALONG WITH 66KV I/C-I & II. 66KV I/C-I TRIPPED ON O/C, E/F, LBB PROTECTION AND 66KV I/C-II TRIPPED WITHOUT INDICATION. 66KV I/C-I & II CHARGED AT 14.38HRS. AND 15.29HRS. RESPECTIVELY.
12	13.08.12	19.02	220KV MEHRAULI – DIAL CKT-I & II	14.08.12	08.24	THE FOLLOWOING TRIPPINGS OCCURRED : AT MEHRAULI 220KV DIAL CKT-I : NO TRIPPING 220KV DIAL CKT-II : 186, DIST PROT `A' PHASE, ZONE-I AT DIAL 220KV MEHRAULI CKT-I : DIST PROT `R' PHASE ZONE-I 220KV MEHRAULI CKT-II : DIST PROT `R' PHASE ZONE-I CKT-I CHARGED AT 19.50HRS. AND CKT-II COULD BE CHARGED AT 08.24HRS. ON 14.08.2012.
13	14.08.12	04.28	220/33KV 100MVA PR. TR.-III AT SUBZI MANDI	14.08.12	08.40	TR. TRIPPED ON 87X, 86 ALONG WITH 33KV I/C-III WHICH TRIPPED ON 67RLV, LV REF.
14	14.08.12	11.30	220/33KV 100MVA PR. TR.-III AT PATPARGANJ	14.08.12	12.30	TR. TRIPPED ON 64RLV 86.
15	14.08.12	17.00	220KV MAHARANI BAGH – MASJID MOTH CKT-I	14.08.12	17.15	CKT TRIPPED ON A/C PROTECTION DIVISION
16	15.08.12	0725	220KV MANDOLA – WAZIRABAD CKT-I	15.08.12	10.13	CKT. TRIPPED ON DIST PROT `B&C' PHASE ZONE-I AT MANDOLA AND ON DIST PROT RYB' PHASE ZONE-I AT WAZIRABAD.

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
17	15.08.12	10.48	220KV BAWANA – ROHINI CKT-II	15.08.12	11.11	CKT. TRIPPED ON DIST PROT `A&B' PHASE AT BAWANA. NO TRIPPING AT ROHINI.
18	15.08.12	13.15	400KV MUNDKA – JHAJJAR CKT-II	15.08.12	14.54	CKT. TRIPPED ON DIST PROT `Y' PHASE ZONE-I, 86A&B AT MUNDKA.
19	15.08.12	13.24	400KV MUNDK A– BAWANA CKT-I	15.08.12	14.06	CKT. TRIPPED ON DIST PROT `Y' PHASE ZONE-I, 186A&B AT MUNDKA AND ON DIST PROT `A&B' PHASE ZONE-I AT BAWANA.
20	15.08.12	13.24	400KV MANDOLA – BAWAA CKT-I	15.08.12	13.43	CKT. TRIPPED ON DIST PROT `R&B' PHASE ZONE-III AT MANDOLA. NO TRIPPING AT BAWANA.
21	15.08.12	16.03	220KV MAHARANI BAGH – LODHI ROAD CKT-II	15.08.12	16.38	CKT. TRIPPED ON FAULT LOOP L2-L3 AT MAHARANI BAGH. NO TRIPPING AT LODHI ROAD
22	15.08.12	17.38	220KV MAHARANI BAGH – LODHI ROAD CKT-II	15.08.12	17.49	CKT. TRIPPED ON FAULT LOOP L1-L3 AT MAHARANI BAGH. NO TRIPPING AT LODHI ROAD
23	16.08.12	16.40	220KV MAHARANI BAGH – ELECTRIC LANE CKT-II	17.08.12	12.08	CKT. TRIPPED ON 186A&B AT MAHARANI BAGH.
24	16.08.12	22.52	66/11KV 20MVA PR. TR.-I AT KANJHAWALA	17.08.12	15.23	TR. TRIPPED ON 87ABC, 64LV REF, 86 ALONG WITH ITS 11KV I/C-II WHICH TRIPPED ON O/C `B' PHASE E/F
25	17.08.12	07.40	220KV PATPARGANJ – IP CKT-I	17.08.12	11.12	CKT. TRIPPED ON 86, 186. DIRECTIONAL E/F AT IP AND ON 186, 186X, ACTIVE GROUP-I, DIST PROT `ABC' PHASE ZONE-III AT PATPARGANJ. 220KV BUS COUPLER TRIPPED ON E/F AT IP
26	17.08.12	07.36	220KV IP – PRAGATI CKT-I	17.08.12	08.10	CKT. TRIPPED ON 86, GROUP-I, DIST PROT `ABC' PHASE AT PRAGATI.
27	18.08.12	00.25	220KV BAMNAULI – NAJAFGARH CKT-I & II	18.08.12	19.00	BOTH CKTS TRIPPED ON 186 AT NAJAFGARH.
28	18.08.12	04.55	220KV IP – PATPARGANJ CKT-I	18.08.12	05.00	CKT. TRIPPED ON DIRECTIONAL E/F, 186 AT IP AND ON E/F AT PATPARGANJ
29	18.08.12	04.55	220KV IP – PRAGATI CKT-I & II	18.08.12	11.34	THE FOLLOWOING TRIPPINGS OCCURRED : AT IP 220KV PRAGATI CKT-I : CKT DID NOT TRIP 220KV PRAGATI CKT-II: DIST PROT `ABC' PHASE ZONE-II, 86 AT PRAGATI 220KV IP CKT-I : DIST PROT `X&Y' PHASE ZONE-III 220KV IP CKT-II : NO TRIPPING
30	18.08.12	14.42	220KV BAWANA – DSIDC CKT-I	18.08.12	18.43	CKT. TRIPPED ON AUX RELAY, 21XR-I, 21XR-2, B-II AUX RELAY AT BAWANA. NO TRIPPING AT DSIDC. `Y' PHASE LA OF 220KV DSIDC CKT-I DAMAGED AT BAWANA.
31	18.08.12	14.42	400/220KV 315MVA ICT-V & VI AT BAWANA	18.08.12	15.57	BOTH ICTS TRIPPED ON 86, E/F ALONG WITH 220KV I/C-V & VI. BOTH I/CS TRIPPED ON DIRECT TRIP, 86
32	19.08.12	11.18	220KV MANDOLA – WAZIRABAD CKT-I	19.08.12	15.04	CKT. TRIPPED ON DIST PROT `R' PHASE ZONE-I AT MANDOLA AND ON DIST PROT `R' PHASE ZONE-I AT WAZIRABAD. CONDUCTOR BETWEEN TOWER NO. 37-38 FOUND SNAPPED.
33	19.08.12	17.28	220KV PRAGATI – SARITA VIHAR CKT.	19.08.12	18.12	CKT. TRIPPED ON DIST PROT `B' PHASE ZONE-I, 186A&B AT SARITA VIHAR AND ON DIST PROT `ABC' PHASE ZONE-II, 186A&B, 86X AT PRAGATI.
34	19.08.12	18.47	220KV GOPALPUR – SUBZI MANDI CKT-II	19.08.12	20.50	CKT. TRIPPED ON DIST PROT `R&B' PHASE ZONE-II AT GOPALPUR. KITE THREAD FOUND ON 220KV GOPALPUR CKT-II AT SUBZI MANDI.

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
35	20.08.12	13.04	220KV IP – RPH CKT-II	20.08.12	17.05	CKT. TRIPPED ON 86, 186X, 195AC, 195BC ZONE-I AT IP AND ON DIST PROT ZONE-III AT RPH. `B' PHASE COMMON JUMPER FOUND SPARKING AT IP STATION.
36	20.08.12	13.00	220KV BTPS – OKHLA CKT-I	20.08.12	14.50	CKT. TRIPPED ON 86 AT BTPS. NO TRIPPING AT OKHLA CKT TRIED TO CLOSE AT 14.20HRS BUT AGAIN TRIPPED ON POLE DISCREPANCY.
37	21.08.12	01.49	66/11KV 20MVA PR. TR.-III AT WAZIRABAD	21.08.12	12.10	TR. TRIPPED ON E/F ALONG WITH ITS 11KV I/C-II WHICH ALSO TRIPPED ON E/F.
38	21.08.12	22.25	400KV BAWANA – BAHADURGARH CKT.	23.08.12	19.49	400KV CB-552 OF THE CKT. TRIPPED ON POLE DISCREPANCY, 186 AT BAWANA.
39	23.08.12	17.10	400KV BAWANA – BAHADURGARH CKT.	23.08.12	17.18	CB-652 OF THE CKT. TRIPPED ON CB AUTO RECLOSE, 2AA TIMER AT BAWANA. NO TRIPPING AT BAHADURGARH.
40	24.08.12	11.38	220/33KV 100MVA PR. TR.-I AT PARK STREET	24.08.12	13.13	TR. TRIPPED ON 30D, 86B ALONG WITH ITS 33KV I/C-I WHICH TRIPPED WITHOUT INDICATION.
41	25.08.12	14.51	400KV BAWANA – HISSAR CKT.	26.08.12	18.17	CB-852 OF THE CKT. TRIPPED ON 2/AA AT BAWANA.
42	27.08.12	18.08	220KV PATPARGANJ – GEETA COLONY CKT-I	28.08.12	09.26	CKT. TRIPPED ON DIST PROT `BC' PHASE, ACTIVE GROUP-I AT GEETA COLONY AND ON 186, ABC AT PATPARGANJ.
43	28.08.12	10.56	220/33KV 100MVA PR. TR-II AT GEETA COLONY	28.08.12	13.14	TR. TRIPPED ON SPR, 86, 30EG
44	28.08.12	13.06	220/33KV 100MVA PR. TR.-IV AT PATPARGANJ	28.08.12	15.45	TR. TRIPPED ON REF
45	29.08.12	06.24	400KV MUNDKA – JHAJJAR CKT-I	29.08.12	06.51	BOTH CB OF THE CKT. TRIPPEDON DISTANCE PROTECTION, 21, 86 AT MUNDKA. NO TRIPPING AT JHAJJAR.
46	29.08.12	13.35	220/66KV 100MVA PR. TR.-IV AT PAPPANKALAN-I	29.08.12	17.05	TR. TRIPPED ON 195ABC, 295ABC, FACIA TRIP CKT FAULTY.
47	29.08.12	18.09	220/66KV 100MVA PR. TR.-I & II AT VASANT KUNJ	29.08.12	23.54	BOTH TRANSFORMERS TRIPPED ON 96. 220KV BBUS BAR PROTECTION OPERATED ON 220KV BUS.-I.
48	29.08.12	20.34	220/66KV 160MVA PR. TR. AT VASANT KUNJ	29.08.12	23.04	TR. TRIPPED ON INTER TRIPPING ALONG WITH 66KV I/C-III WHICH ALSO TRIPPED ON INTER TRIPPING.
49	30.08.12	12.56	400KV MANDOLA – BAWANA CKT-I	30.08.12	13.28	CB-1652 OF THE CKT. TRIPPED ON 186A&B AT BAWANA END ONLY
50	31.08.12	04.20	220KV SARITA VIHAR – MAHARANI BAGH CKT.	31.08.12	09.28	CKT TRIPPEDON 186A&B, AUTO RECLOSE, BUS BAR PROTECTION AT SARITA VIHAR
51	31.08.12	04.20	220KV SARITA VIHAR – PRAGATI CKT.	31.08.12	06.10	CKT TRIPPEDON 186A&B, AUTO RECLOSE, BUS BAR PROTECTION AT SARITA VIHAR. NO TRIPPING AT PRAGATI

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

DATE	S. N.	TIME		Name of Grid	NAME OF AFFECTED FEEDERS	LOAD RELIEF IN MW
		OUT	IN			
20.08.12	1	10.43	10.59	220kV KASHMIRI GATE	33kV LAHORI GATE CKT. 33kV FOUNTAIN CKT.	28