DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

****

DECEMBER 2012

1 **SALIENT FEATURES OF DELHI POWER SYSTEM**

Sr. No.	Features	DECEMBER 2012	DECEMBER 2011
1	**Effective Generation Capacity within Delhi in MW**		
	Rajghat Power House	135	135
	Gas Turbine	270	270
	Pragati Power Corporation Ltd.	330	330
	Badapur Thermal Power Station	705	705
	Rithala GT	108	108
	Total	1548	1548
2	**Maximum Unrestricted Demand (MW)**	**3836**	**3731**
	Date	28.12.2012	26.12.2011
	Time	10.33.03	10.00
3	**Peak Demand met (MW)**	**3643**	**3619**
	Date	31.12.2012	29.12.2011
	Time	10.59.32	10.18.47
4	Peak Availability (MW)	3552	3428
5	Shortage (-) / Surplus (+) in MW	(-)91	(-) 191
6	Percentage Shortage (-) / Surplus (+)	(-)2.5	(-) 5.28
7	Maximum Energy Consume in a day (Mus)	61.162	66.505
8	Energy Consumed during the month	**1726.339**	**1770.152**
9	**Load Shedding in Mus**		
A)	Due to Grid Restrictions		
i)	Under Frequency Relay Operations	0.000	0.047
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	4.134	1.802
	BRPL	1.939	2.843
	BYPL	4.687	4.913
	NDMC	0.000	0.000
	MES	0.000	0.000
iv)	Due to transmission Constraints in Central Sector	0.000	0.000
	Total due to Grid Restriction	**10.760**	**9.605**
B)	Due to Constraints in System in Mus		
	DTL	0.188	0.607
	NDPL	0.422	0.221
	BRPL	0.146	0.092
	BYPL	0.438	0.159
	NDMC	0.000	0.000
	MES	0.000	0.000
	Other Agencies	0.008	2.184
	Total	**1.202**	**3.301**
11	**Grand Total in Mus**	**11.962**	**12.906**

2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING DECEMBER 2012

A) For the month of DECEMBER 2012

All Figures in MUs

S. No	Stations	Gross Generation	Aux. Consumption	Net Generation	Availability (%)	Backing Down
1.	**RPH**	77.276	9.670	67.606	76.86	0
2.	**GT**	89.487	2.418	87.069	83.84	72.746
3.	**PPCL**	235.879	5.445	230.434	98.25	4.4687
4.	**BTPS**	330.417	27.978	302.439	81.32	74.4037
5.	**Rithala**	5.209	0.430	4.779	**89.17**	56.191
6.	**Bawana**	142.441	4.867	137.574	95.37	297.3787
	TOTAL	**880.709**	**50.808**	**829.901**	--	**505.1881**

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

Power Station	Effective Capacity (MW)	Net Generation in MUs For Dec 2012	Availability (%) For Dec 2012	PLF (%) For Dec 2012	Cumulative Generation in MUs upto Dec 2012 for the year 2012-13	Cumulative Availability in % upto Dec 2012 for the year 2012-13	Cumulative PLF in % upto Dec 2012 for the year 2012-13
RPH	135	67.606	76.86	76.86	514.739	66.36	65.46
GT	270	87.069	83.84	46.50	994.812	82.05	57.59
PPCL	330	230.434	98.25	96.38	1821.389	88.73	86.18
BTPS	705	302.439	81.32	66.75	3094.409	86.62	75.36
Rithala	108	4.779	**89.17**	7.15	124.212	--	--
Bawana	677	137.574	95.37	30.49	1044.215	85.68	33.32
TOTAL	**2225**	**829.901**	--	--	**7593.776**	--	--

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

(A) RPH STATION

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	67.5	03.04.12	19.10	03.04.12	21.05	Unit tripped due to grid disturbance.
		10.04.12	17.00	10.04.12	18.05	Unit tripped due to grid disturbance.
		11.04.12	5.50	11.04.12	6.30	Flame failure.
		11.04.12	6.55	11.04.12	7.40	Flame failure.
		11.04.12	7.55	11.04.12	11.45	Turbine trip.
		27.04.12	11.05	29.04.12	5.20	Unit desynchronised due to Boiler Tube Leakage.
		29.04.12	8.40	29.04.12	9.40	Unit tripped with heavy jerk, when AOP-1A started, emergency boerd incomer No. A tripped on earth fault.
		03.05.12	17.40	05.05.12	8.40	Unit desynchronized to attend the Condensor tube leakage.
		12.05.12	17.30	16.05.12	6.45	Unit tripped on system disturbance, later on there is found Boiler tube leakage.
		16.05.12	11.30	15.05.12	13.40	Unit tripped on system disturbance, total dark out.
		20.05.12	12.05	20.05.12	12.35	Unit tripped due to electrical problem.
		23.05.12	10.30	23.05.12	11.55	Unit tripped due to furnace pr. high.
		25.05.12	17.10	25.05.12	21.55	Unit tripped due to electrical problem.
		26.05.12	11.10	26.05.12	12.15	Unit tripped due to drum level very low.
		26.05.12	17.05	27.05.12	3.25	Unit tripped due to electrical problem.
		27.05.12	3.40	27.05.12	4.10	Unit tripped due to master fuel trip.
		28.05.12	7.30	28.05.12	9.35	Unit tripped due to electrical problem.
		03.06.12	17.35	03.06.12	19.20	Unit tripped due to flame failure.
		07.06.12	3.05	07.06.12	5.50	Unit trpped on aux. supply failure due to Stn.-1 tripped.
		07.06.12	10.40	07.06.12	11.10	Unit trpped on aux. supply failure due to Stn.-1 tripped.
		19.06.12	10.40	22.06.12	15.10	Unit tripped due to Boiler tube leakage.
		30.06.12	0.45	30.06.12	1.25	Unit tripped due to 33KV supply failure.
		06.07.12	18.35	09.07.12	15.00	Unit tripped on turbine trip, later on the unit still stopped as per system operation.
		10.07.12	8.10	01.09.12	20.40	Unit tripped on flame failure, later on the unit taken on Plenned Outage as capital O/H w.e.f. 18/07/2012 at zero hrs.
		10.09.12	23.10	10.09.12	23.40	Unit tripped due to loss of oil fuel.
		11.09.12	14.55	13.09.12	11.20	Unit desynchronised to attend the IBD-59 & 60.
		23.09.12	14.20	25.09.12	10.30	Unit desynchronised to attend the boier tube leakage.
		08.10.12	1.15	10.10.12	7.30	Unit desynchronised to attend the boier tube leakage.
		27.10.12	10.20	27.10.12	12.20	Unit tripped due to grid disterbance, total dark out.
		27.10.12	14.00	27.10.12	14.50	Unit tripped due to grid disterbance, total dark out.
		30.10.12	7.40	30.10.12	10.10	Unit tripped due to Monkey jumped in yard, Bay No. 10 to 22 tripped.
		30.10.12	11.00	30.10.12	13.05	Turbine trip.
		30.10.12	13.45	30.10.12	14.35	Turbine trip.
		15.11.12	0.30	16.11.12	2.30	Unit desynchronised to attend the boier tube leakage.
		08.12.12	7.40	09.12.12	22.55	Unit desynchronised to attend the boier tube leakage.
		15.12.12	13.00	15.12.12	13.35	Unit tripped due to drum level low.
		21.12.12	1.20	24.12.12	12.30	Unit desynchronised to attend the boier tube leakage.

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

(B) Gas Turbine

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

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

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

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

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
4	30	05.11.12	20.05	06.11.12	17.23	Stopped due to low demand and high frequency.
		19.11.12	11.45	21.11.12	21.28	
		24.11.12	20.32	25.11.12	15.58	
		01.12.12	20.05	04.12.12	08.40	
		06.12.12	12.50	14.12.12	08.20	
		16.12.12	17.40	16.12.12	19.10	Tripped due to Grid disturbance.
		23.12.12	00.08	24.12.12	10.10	Stopped due to low demand and high frequency
		25.12.12	01.30	25.12.12	15.35	Stopped due to high TAD.

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

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
6	**30**	01.04.12	00.00	02.04.12	15.50	Stopped due to low demand and high frequency
		04.04.12	05.01	04.04.12	19.42	
		06.04.12	00.18	09.04.12	15.35	
		10.04.12	00.07	10.04.12	11.50	
		12.04.12	17.05	12.04.12	21.25	Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. tripped at both end. Over current & earth fault relay operated at GT end on 160MVA Tx-I. Buch-Holtz relay operated on 160MVA Tx-II at IP Ext.end.
		25.04.12	01.45	25.05.12	20.25	Stopped due to low demand and high frequency
		30.04.12	09.45	02.05.12	14.25	
		22.05.12	12.52	22.05.12	22.20	Tripped due to failure of MOV,due to which battery voltage fluctuated at computer screen from 103V to 118V.The following alarms appeared:- -ve phase sequence & Condensate level high temp.
		03.06.12	02.16	03.06.12	07.55	Tripped due to failure of controllers.
		19.06.12	21.02	20.06.12	10.32	Stopped due to low demand and high frequency.
		28.06.12	17.20	28.06.12	19.20	Tripped manually due to sudden fire in window A/C of GT#6 which was installed in GAC(module side)
		13.07.12	12.38	13.07.12	13.43	GT#6 tripped on reverse power as the 66 KV bus became dead due tripping of 160 MVA ICT I & II due to Grid disturbance
		26.07.12	22.03	27.07.12	11.00	Machine stopped due to leakage of lube oil observed in the TAC.
		26.07.12	22.03	27.07.12	10.55	Machine stopped due to oil leakages.
		30.07.12	00.15	30.07.12	05.40	Stopped due to low demand and high frequency.
		31.07.12	13.09	31.07.12	14.14	Tripped on under voltage
		05.08.12	06.14	05.08.12	21.15	Machine stopped to attend CW line leakages.
		15.08.12	09.18	15.08.12	21.28	Stopped due to low demand and high frequency.
		16.08.12	02.15	16.08.12	11.00	
		16.08.12	14.46	18.08.12	14.50	
		19.08.12	03.04	22.08.12	07.59	
		24.08.12	02.05	24.08.12	09.50	
		25.08.12	14.32	29.08.12	20.40	
		03.09.12	02.05	03.09.12	10.45	
		05.09.12	04.01	10.09.12	10.40	
		15.09.12	05.10	01.10.12	01.10	
		02.10.12	12.45	03.10.12	12.50	
		03.10.12	19.20	05.10.12	20.38	
		05.10.12	22.15	04.11.12	18.00	
		04.11.12	18.00	11.05.12	20.15	Not available due to problem in diesel engine.
		05.11.12	20.15	25.12.12	13.45	Stopped due to low demand and high frequency.
		26.12.12	00.15	31.12.12	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	03.10.12	16.55	Stopped due to low demand and high frequency
		12.10.12	17.44	12.10.12	19.43	Tripped due to C & I Problem
		22.10.12	19.00	25.10.12	12.45	Stopped due to low demand and high frequency
		25.10.12	12.45	25.10.12	22.00	Boiler #2 not available due to problem in AC AOP of G.T. -2
		14.11.12	14.26	16.11.12	23.00	Stopped due to low demand and high frequency
		13.12.12	12.05	13.12.12	15.00	Tripped at high vibration
		16.12.12	05.22	16.12.12	09.15	Tripped due to Grid disturbance.
		16.12.12	13.08	16.12.12	14.32	Tripped on class- A trip.
		16.12.12	15.22	16.12.12	17.20	Tripped due to Grid disturbance. .
		16.12.12	17.40	16.12.12	18.00	
		17.12.12	00.00	17.12.12	18.00	Due to disturbance of grid connectivity,STG#1 has developed problem. It is out of service.
		17.12.12	18.00	19.12.12	19.35	Stopped due to low demand and high frequency

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

STG-3	**30**	01.04.12	00.00	02.04.12	21.25	Stopped due to low demand and high frequency
		04.04.12	09.28	04.04.12	22.20	Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. Tripped on relay 86X.
		06.04.12	00.18	09.04.12	18.15	Machine stopped due to non availability of DC EOP.
		12.04.12	17.05	12.04.12	19.48	Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. tripped at both end. Over current & earth fault relay operated at GT end on 160MVA Tx-I. Buch-Holtz relay operated on 160MVA Tx-II at IP Ext.end.
		20.04.12	14.00	20.04.12	15.50	Machine stopped to attend oil leakages in Governing system.
		30.04.12	09.45	02.05.12	18.35	Stopped due to low demand and high frequency
		26.05.12	14.05	26.05.12	17.35	Machine stopped to attend oil leakage from glass of bearing no.1 drain line(return line)
		07.06.12	12.40	09.06.12	08.15	Stopped due to low demand and high frequency
		06.07.12	18.35	06.07.12	19.50	Tripped due to operation of Generater transformer standby earth fault 64SGT relay. It is expected that this relay operated due to atmoshpheric lightening.
		13.07.12	12.38	13.07.12	15.58	Machine tripped as the 66 KV bus became dead due tripping of 160 MVA ICT I & II due to Grid disturbance
		30.07.12	02.35	30.07.12	08.35	Machine tripped as the 66 KV bus became dead due tripping of 160 MVA ICT I & II due to Grid disturbance
		31.07.12	13.02	31.07.12	16.22	Machine tripped on low vaccum the load on GTs reduced due to tripping of 160 MVA ICT I& II on under frequency relay operated.
		05.08.12	06.12	07.08.12	02.35	Machine stopped to attend CW line leakages.
		13.08.12	14.27	13.08.12	17.43	Machine tripped on high exhaust temperature. The vaccum reduced due to malfunctioning of MS-13. Other line was not available for operation.
		15.08.12	09.16	16.08.12	00.10	Machine stopped as per SLDC message to maintain SG .
		16.08.12	00.48	22.08.12	11.20	Machine tripped due to axial shift high alarm.
		25.08.12	14.32	30.08.12	00.10	Machine stopped as per SLDC message to maintain SG .
		30.08.12	14.05	30.08.12	16.25	Machine stopped to attend ejecter leakages.
		07.09.12	13.05	10.09.12	12.40	Machine stopped as per SLDC message to maintain SG .
		15.09.12	05.10	01.10.12	03.35	Stopped as per SLDC message
		03.10.12	22.48	31.12.12	23.59	Shutdown for majour overhauling

(C) PRAGATI STATION

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

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

(D) BADARPUR THERMAL POWER STATION

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

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
3	95	01-04-12	23:45	22-04-12	17:12	Planned shutdown
		22-04-12	18:21	22-04-12	21:46	Generator Over Fluxing
		12-05-12	6:04	13-05-12	5:17	Economiser Tube leakage
		13-05-12	20:22	13-05-12	21:25	Furnace Disturbance
		26-05-12	8:32	26-05-12	15:20	Grid Disturbance
		27-05-12	7:20	27-05-12	8:05	Furnace Disturbance
		30-05-12	15:05	30-05-12	15:40	Furnace Disturbance
		02-06-12	11:46	03-06-12	16:15	CW Shortage
		09-06-12	23:50	10-06-12	10:43	Fuurnace plate red hot near burner
		15-06-12	7:40	15-06-12	8:50	Furnace Disturbance
		28-06-12	6:15	28-06-12	12:55	Furnace Disturbance
		30-07-12	6:58	30-07-12	10:25	Grid Disturbance
		31-07-12	13:08	31-07-12	16:18	Grid Disturbance
		31-07-12	18:35	31-07-12	19:17	Low Condenser Vacuum
		31-07-12	20:05	01-08-12	0:40	Excitation System Problem
		04-08-12	1:32	04-08-12	5:40	Furnace Disturbance
		04-08-12	19:34	04-08-12	20:25	Furnace Disturbance
		10-08-12	7:15	10-08-12	8:15	Furnace Disturbance
		14-08-12	12:44	16-08-12	11:25	Reserve shutdown
		16-08-12	15:44	16-08-12	16:36	Furnace Disturbance
		18-08-12	6:15	19-08-12	1:05	Economiser Tube leakage
		21-08-12	22:28	21-08-12	23:18	Furnace Disturbance
		23-08-12	4:42	30-08-12	20:32	Reserve shutdown
		30-08-12	20:37	31-08-12	20:25	Generator Stator Earth Fault
		13-10-12	14:57	13-10-12	15:42	Furnace Disturbance
		14-10-12	6:52	14-10-12	7:50	Furnace Disturbance
		20-10-12	9:36	20-10-12	10:15	Furnace Disturbance
		21-10-12	8:27	29-10-12	6:43	Reserve shutdown
		14-11-12	8:56	24-11-12	5:08	Reserve shutdown
		29-11-12	5:05	29-11-12	6:06	Furnace Disturbance
		16-12-12	0:07	20-12-12	11:50	Reserve shutdown
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
		18-09-12	2:05	18-09-12	4:05	Furnace Disturbance
		18-09-12	4:05	18-09-12	14:35	Control Supply Cable fault
		26-11-12	9:22	26-11-12	21:18	Relay Malfunction
		07-12-12	21:47	10-12-12	16:30	Reserve shutdown
		10-12-12	16:30	10-12-12	17:00	Seal Oil system
		10-12-12	17:00	26-12-12	16:42	Plann shutdown
		31-12-12	13:32	contd.		Steam Cooled screen tube leakage

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

(E) BAWANA CCGT POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	216	20.04.12	15:41	20.04.12	19:25	Excessive Fuel Trip
		12.05.12	13:29	12.05.12	16:03	Auxiliary Failure due to bay 403 trip
		18.05.12	00:48	18.05.12	4:08	Lub Oil pressure low on GT#1 due to LT trippings
		27.05.12	18:13	27.05.12	20:18	High GT exhaust spread temperature
		31.05.12	19:00	01.06.12	0:26	GT#1 TRIP due to Combustion trouble and high exhaust temperature spread trip at frequency of 50.3Hz
		12.06.12	09:44	14.06.12	18:26	Rotor eath fault
		23.06.12	12:19	23.06.12	17:45	Fire protection trip
		25.06.12	06:01	26.06.12	8:29	High exhaust temperature trip
		18.07.12	2:23	18.07.12	4:20	High GT exhaust spread temperature
		31.07.12	13:00	31.07.12	16:05	Grid Failure
		03.08.12	14:56	03.08.12	16:20	Lub oil pressure low due to LT failure
		28.09.12	03:38	28.09.12	6:35	High GT exhaust temperature
		06.10.12	9:30	06.10.12	17:18	RST diagnostic alarm , 125V DC ground on GT,STG tripped on Customer Trip (GT trip)
		06.10.12	19:13	07.10.12	0:01	GT trip due to lub oil pr low
		15.10.12	14:49	15.10.12	18:08	Gas fuel inter valve press(P2) low
		15.10.12	19:24	15.10.12	21:35	Lub oil Pr low trip
		15.10.12	22:20	16.10.12	2:39	Rotor eath fault
		17.10.12	10:43	17.10.12	14:23	GT tripped on customer trip
		18.10.12	21:59	19.10.12	16:19	Generator Protection due to rotor earth fault
		8.11.12	13:16	08.11.12	18:06	Auxiliary Failure due toLT failure
		19.11.12	22:36	20.11.12	4:00	Loss of Flame
		30.11.12	18:50	30.11.12	20:24	Purge valve fault
		06.12.12	22.08	07.12.12	09.12	To replace gas valve
		23.12.12	10:35	29.12.12	10:55	Tripped on high DP, After this GT#2 was taken into service,

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	216	19.07.12	11:34	19.07.12	15.45	Customer trip(IP drum level low, D/D position>2%)

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG	245	20.04.12	15:41	20.04.12	19:25	HRSG #1 tripped due to GT#1 trip
		24.04.12	08:03	24.04.12	19:08	STG#1 tripped on very high transformer oil temperature
		12.05.12	13:29	13.05.12	3:27	HRSG tripped on GT#1 trip
		18.05.12	00:48	21.05.12	23:50	HRSG tripped on GT#1 trip
		27.05.12	18:13	27.05.12	23:21	ST trip due to GT Trip
		30.05.12	11:39	30.05.12	14:35	Generator cold gas temperature high due to PHE choking
		30.05.12	11:18	31.05.12	1:32	IP Drum level high
		31.05.12	19:00	31.05.12	1:32	ST trip due to GT trip
		12.06.12	9:44	14.06.12	18:26	GT Tripped
		23.06.12	12:19	23-01-00	17:45	ST trip due to GT trip
		02.07.12	19:45	03.07.12	1:39	Generator breaker tripped
		17.07.12	09:28	17.07.12	15:26	ST trip due to GT trip
		18.07.12	2:23	18.07.12	23:21	ST trip due to GT trip
		24.07.12	19:18	00-01-00	20:03	HMI emergency trip
		31.07.12	13:00	31.07.12	17:25	Grid Failure
		03.08.12	14:56	03.08.12	20:25	Lub oil pressure low
		28.09.12	03:38	29.09.12	14:18	ST trip due to GT trip
		06.10.12	09:30	07.10.12	1:46	RST diagnostic alarm , 125V DC ground on GT,STG tripped onCustomer Trip (GT trip)
		15.10.12	14:49	16.10.12	4:10	ST trip due to GT trip
		17.10.12	10:43	17.10.12	16:19	GT tripped on customer trip
		18.10.12	21:59	29.10.12	11:44	STG trip on GT trip, under backing down also.
		08.11.12	13:16	08.11.12	20:13	LT breakers 1 DA, 2DA, 1KA tripped
		29.11.12	22:27	30.11.12	6:53	Rotor earth fault
		30.11.12	18:50	30.11.12	21:52	ST trip due to GT trip
		02.12.12	13:21	02.12.12	17:13	STG#1 tripped on low forward power relay(TMR became faulty & load jumped from 60MW to 90MW)
		06.12.12	22.08	07.12.12	09.12	To replace gas valve
		08.12.12	17:08	08.12.12	19:28	STG#1 was running in stable condition It tripped due to HVCB opening
		18.12.12	03:25	18.12.12	10:43	Under Excitation fault
		23.12.12	10:31	24.12.12	0:44	STG #1 tripped on GT#1 trip
		26.12.12	21:35	27.12.12	6:40	Tripped due to speed pick up problem
		27.12.12	09:32	27.12.12	13:46	Tripped due to speed pick up problem
		29.12.12	18:02	29.12.12	18:58	24 Volt supply failure

(E) RITHALA POWER STATION

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

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

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

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG		26.10.12	23:20	29.10.12	1:43	No schedule have been given by SLDC on Spot gas
		30.10.12	17:01	29.10.12	5:42	
		02.11.12	00:01	05.11.12	12:38	
		08.11.12	21:56	10.11.12	9:45	
		10.11.12	01:55	13.11.12	17:50	
		14.11.12	01:15	18.11.12	6:25	
		18.11.12	16:06	22.11.12	13:59	
		24.11.12	21:01	26.11.12	16:57	
		28.11.12	00:01	29.11.12	17:44	
		30.11.12	04:31	30.11.12	6:35	STG electronic governor failure trip
		30.11.12	19:58	04.12.12	14:04	No schedule have been given by SLDC on Spot gas
		06.12.12	20:59	10.12.12	13:55	
		10.12.12	16:21	10.12.12	19:29	load gear bearing -1 temp high shut down(GT-1)
		12.12.12	17:59	17.12.12	14:05	No schedule have been given by SLDC on Spot gas
		19.12.12	20:00	24.12.12	13:26	
		26-12-12	19:00	31.12.12	11:54	

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 DECEMBER 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	08.53.35	54	160	325	0	122	441	1102	1842	1789	53	2944	0	2944
2	10.53.37	101	75	317	0	126	377	996	1926	1692	234	2922	0	2922
3	18.36.23	99	76	314	0	126	442	1057	1982	1948	34	3039	5	3044
4	08.17.41	104	75	327	0	121	437	1064	2004	1799	205	3068	7	3075
5	18.30.10	97	159	315	21	216	443	1251	1846	1938	-92	3097	0	3097
6	18.54.00	102	78	315	21	215	370	1101	2088	2116	-28	3189	0	3189
7	10.02.03	105	78	317	0	47	431	978	2184	2279	-95	3162	0	3162
8	10.02.43	49	78	317	0	214	411	1069	1996	1999	-3	3065	2	3067
9	10.19.05	52	77	315	0	167	416	1027	1930	2017	-87	2957	0	2957
10	18.31.13	105	75	309	20	186	305	1000	1987	2233	-246	2987	5	2992
11	10.01.50	101	76	319	20	209	288	1013	2006	2110	-104	3019	0	3019
12	09.47.11	102	81	316	20	124	330	973	2148	2247	-99	3121	0	3121
13	18.34.34	106	79	312	0	210	378	1085	2030	2138	-108	3115	0	3115
14	10.35.46	108	160	153	0	118	224	763	2390	2395	-5	3153	0	3153
15	10.08.24	104	158	150	0	214	236	862	2241	2047	194	3103	1	3104
16	10.32.59	106	123	321	0	214	346	1110	1948	1858	90	3058	0	3058
17	10.04.34	103	86	320	0	217	345	1071	2051	2115	-64	3122	0	3122
18	10.03.52	105	86	320	0	56	338	905	2222	2359	-137	3127	0	3127
19	09.43.12	105	85	322	21	229	340	1102	2108	2047	61	3210	0	3210
20	18.43.33	83	159	319	0	215	225	1001	2219	1999	220	3220	0	3220
21	09.35.47	50	160	323	0	223	223	979	2301	2269	32	3280	10	3290
22	10.25.11	51	161	320	0	222	383	1137	2132	2154	-22	3269	0	3269
23	10.14.09	47	73	328	0	112	434	994	2282	2206	76	3276	0	3276
24	10.10.11	51	44	325	15	221	419	1075	2327	2203	124	3402	5	3407
25	18.58.02	108	188	322	21	216	435	1290	1968	2082	-114	3258	0	3258
26	09.48.50	107	159	320	21	227	420	1254	2195	2170	25	3449	60	3509
27	10.48.51	106	155	317	0	148	616	1342	2207	2193	14	3549	33	3582
28	10.33.03	105	119	319	0	222	615	1380	2225	2217	8	3605	389	3994
29	10.03.40	107	154	313	0	223	596	1393	2117	2190	-73	3510	0	3510
30	10.57.54	105	155	315	0	221	617	1413	2013	2034	-21	3426	0	3426
31	10.59.32	103	160	322	0	222	609	1416	2227	2136	91	3643	23	3666

7 POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF MAXIMUM UNRESTRICTED DEMAND DURING DECEMBER 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	08.53.35	54	160	325	0	122	441	1102	1842	1789	53	2944	0	2944
2	10.53.37	101	75	317	0	126	377	996	1926	1692	234	2922	0	2922
3	18.36.23	99	76	314	0	126	442	1057	1982	1948	34	3039	5	3044
4	08.17.41	104	75	327	0	121	437	1064	2004	1799	205	3068	7	3075
5	18.30.10	97	159	315	21	216	443	1251	1846	1938	-92	3097	0	3097
6	18.54.00	102	78	315	21	215	370	1101	2088	2116	-28	3189	0	3189
7	10.02.03	105	78	317	0	47	431	978	2184	2279	-95	3162	0	3162
8	10.02.43	49	78	317	0	214	411	1069	1996	1999	-3	3065	2	3067
9	10.19.05	52	77	315	0	167	416	1027	1930	2017	-87	2957	0	2957
10	18.31.13	105	75	309	20	186	305	1000	1987	2233	-246	2987	5	2992
11	10.01.50	101	76	319	20	209	288	1013	2006	2110	-104	3019	0	3019
12	09.47.11	102	81	316	20	124	330	973	2148	2247	-99	3121	0	3121
13	18.34.34	106	79	312	0	210	378	1085	2030	2138	-108	3115	0	3115
14	10.35.46	108	160	153	0	118	224	763	2390	2395	-5	3153	0	3153
15	10.08.24	104	158	150	0	214	236	862	2241	2047	194	3103	1	3104
16	10.32.59	106	123	321	0	214	346	1110	1948	1858	90	3058	0	3058
17	10.04.34	103	86	320	0	217	345	1071	2051	2115	-64	3122	0	3122
18	10.03.52	105	86	320	0	56	338	905	2222	2359	-137	3127	0	3127
19	09.43.12	105	85	322	21	229	340	1102	2108	2047	61	3210	0	3210
20	18.43.33	83	159	319	0	215	225	1001	2219	1999	220	3220	0	3220
21	09.35.47	50	160	323	0	223	223	979	2301	2269	32	3280	10	3290
22	10.25.11	51	161	320	0	222	383	1137	2132	2154	-22	3269	0	3269
23	10.14.09	47	73	328	0	112	434	994	2282	2206	76	3276	0	3276
24	10.10.11	51	44	325	15	221	419	1075	2327	2203	124	3402	5	3407
25	10.30.00	102	117	323	21	223	441	1226	1792	1800	-8	3018	500	3518
26	10.30.00	107	158	320	21	223	422	1252	1898	1970	-72	3150	508	3658
27	10.48.51	106	155	317	0	148	616	1342	2207	2193	14	3549	33	3582
28	10.33.03	105	119	319	0	222	615	1380	2225	2217	8	3605	389	3994
29	10.03.40	107	154	313	0	223	596	1393	2117	2190	-73	3510	0	3510
30	10.57.54	105	155	315	0	221	617	1413	2013	2034	-21	3426	0	3426
31	10.59.32	103	160	322	0	222	609	1416	2227	2136	91	3643	23	3666

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

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

A (i) RPH	77.276
(ii) GT+STG	89.487
(iii) PRAGATI	235.879
(iv) RITHALA	5.209
(v) BAWANA CCGT	142.441
TOTAL	550.292
B) AVAILABILITY FROM BTPS	302.439
C) AUXILIARY CONSUMPTION OF GENERATING STNs. EXCLUDING BTPS	22.830
D) NET GENERATION AVAILABLE WITHIN DELHI(A+B-C)	**829.901**

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	1.874	1.800	0.547	0.525
SALAL	11.192	10.747	3.265	3.136
TANKAPUR	2.133	2.049	0.622	0.597
CHAMERA	5.028	4.827	1.467	1.408
CHAMERA -II	5.405	5.191	1.577	1.515
CHAMERA -III	2.996	2.877	2.180	2.094
DHAULIGANGA	4.707	4.521	1.374	1.319
SEWA -2	1.554	1.494	0.453	0.436
URI	9.762	9.374	2.848	2.734
KOTESHWAR	8.825	8.469	8.825	8.469
MUNDRA_UMPP	0.000	0.000	0.000	0.000
ANTA (GAS)	16.906	16.237	16.331	15.684
ANTA (RLNG)	12.630	12.112	0.129	0.124
ANTA (LIQUID)	0.000	0.000	0.000	0.000
DADRI (GAS)	24.701	23.727	23.552	22.623
DADRI (RLNG)	44.099	42.337	0.348	0.336
DADRI (LIQUID)	0.000	0.000	0.000	0.000
AURAIYA (GAS)	18.038	17.325	17.202	16.523
AURAIYA (RLNG)	35.837	34.405	0.295	0.285
AURAIYA (LIQUID)	0.000	0.000	0.000	0.000
SINGRAULI	108.673	104.350	108.263	103.959
RIHAND -I	61.944	59.461	61.736	59.263
RIHAND -II	90.803	87.197	90.401	86.814
RIHAND -III	25.930	24.893	25.766	24.736
UNCHAHAR-I	17.223	16.538	16.872	16.202
UNCHAHAR-II	33.558	32.222	32.857	31.550
UNCHAHAR-III	17.678	16.960	17.346	16.643
DADRI (TH)	517.773	497.393	483.597	464.496
DADRI (TH) STAGE-II	504.718	484.917	491.142	471.842
NAPP	20.848	20.009	20.848	20.009
RAPP 'B'	0.000	0.000	0.000	0.000
RAPP 'C'	36.031	34.644	36.031	34.644
NATHPA JHAKRI	21.829	20.965	21.829	20.965
DULASTI	11.256	10.811	3.285	3.155
TEHRI	26.591	25.515	26.591	25.515
JHAJJAR	145.889	140.072	33.892	32.547
KHELGAON	32.775	31.481	32.356	31.078
KHELGAON-II	91.930	88.254	91.232	87.583
FARAKA	15.057	14.458	14.914	14.320
TALA	2.263	2.176	2.263	2.176
TALCHER	0.000	0.000	0.000	0.000
DVC	172.419	169.520	169.520	162.768
CHATTISHGARH	0.000	0.000	0.000	0.000
GUJRAT	0.155	0.152	0.152	0.146
DVC TATA STEEL	0.000	0.000	0.000	0.000
DVC CTPS (BRPL)	12.867	12.660	12.660	12.192

DVC CTPS (BYPL)	9.520	9.367	9.367	9.019
DVC CTPS (NDPL)	0.000	0.000	0.000	0.000
METHON POWER(NDPL)LT-06	202.510	199.083	199.083	191.117
DVC MEJIA (LT-08)(BYPL)	70.101	68.925	68.925	66.189
ORISSA	0.000	0.000	0.000	0.000
SIKKIM	0.000	0.000	0.000	0.000
HIMACHAL PRADESH	0.000	0.000	0.000	0.000
WEST BENGAL	0.000	0.000	0.000	0.000
MADHYA PRADESH(WR)	0.000	0.000	0.000	0.000
JAMMU & KASHMIR	0.000	0.000	0.000	0.000
DVC (FOR NDPL) LT-09	27.774	27.306	27.306	26.210
HARYANA (LT-05)	37.756	38.437	38.437	37.083
KARNATAKA	0.000	0.000	0.000	0.000
URS	0.000	0.000	0.000	0.000
TO ASSAM	-4.993	-4.909	-4.909	-4.735
TO UTTRANCHAL	-41.428	-42.445	-42.445	-44.003
TO UTTAR PRADESH	-28.420	-29.104	-29.104	-30.159
TO GUJRAT	-5.392	-5.482	-5.482	-5.696
TO NEPAL	-2.157	-2.217	-2.217	-2.304
TO MADHYA PRADESH	-199.407	-202.744	-202.744	-210.232
TO JAMMU & KASHMIR	-130.075	-132.810	-132.810	-137.652
TO MAHARASHTRA	-102.941	-105.250	-105.250	-109.088
TO RAJASTHAN	-35.878	-36.646	-36.646	-37.992
TO TAMILNADU	-6.459	-6.625	-6.625	-6.869
TO MEGHALAYA	-14.978	-15.319	-15.319	-15.920
TO HIMACHAL PRADESH	-56.063	-57.086	-57.086	-59.182
POWER EXCHANGE(IEX)	2.305	2.195	2.305	2.195
TO POWER EXCHANGE (IEX)	-396.827	-412.942	-396.827	-412.942
POWRER EXCHANGE(PX)	0.000	0.000	0.000	0.000
TO POWER EXCHANGE (PX)	-3.145	-3.265	-3.145	-3.265
TO SHARE PROJECT (HARYANA)	-11.548	-12.033	-11.548	-12.033
TO SHARE PROJECT (PUNJAB)	-5.679	-5.926	-5.679	-5.926
TOTAL	**1478.470**	**1362.652**	**1162.155**	**1034.225**

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	1530.510	1470.075	1385.836	1331.076
NTPC - ER	139.761	134.192	138.502	132.981
NHPC	55.906	53.692	17.617	16.919
NPC	56.879	54.652	56.879	54.652
KOTESHWAR	8.825	8.469	8.825	8.469
MUNDRA_UMPP	0.000	0.000	0.000	0.000
NATHPA JHAKRI	21.829	20.965	21.829	20.965
TEHRI	26.591	25.515	26.591	25.515
TALA	2.263	2.176	2.263	2.176
JHAJJAR	145.889	140.072	33.892	32.547
TALCHER	0.000	0.000	0.000	0.000
DVC	172.419	169.520	169.520	162.768
CHATTISHGARH	0.000	0.000	0.000	0.000
GUJRAT	0.155	0.152	0.152	0.146
DVC TATA STEEL	0.000	0.000	0.000	0.000
DVC CTPS (BRPL)	12.867	12.660	12.660	12.192
DVC CTPS (BYPL)	9.520	9.367	9.367	9.019
DVC CTPS (NDPL)	0.000	0.000	0.000	0.000
METHON POWER (NDPL)-LT-06	202.510	199.083	199.083	191.117
DVC MEJIA (LT-08)(BYPL)	70.101	68.925	68.925	66.189
DVC (FOR NDPL) LT-09	27.774	27.306	27.306	26.210
HARYANA (LT -05)	37.756	38.437	38.437	37.083
KARNATAKA	0.000	0.000	0.000	0.000
URS	0.000	0.000	0.000	0.000
POWER EXCHANGE(IEX)	2.305	2.195	2.305	2.195
POWER EXCHANGE(PX)	0.000	0.000	0.000	0.000
TOTAL	**2523.860**	**2437.453**	**2219.990**	**2132.220**

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 UTTAR PRADESH	-28.420	-29.104	-29.104	-30.159
TO GUJRAT	-5.392	-5.482	-5.482	-5.696
TO MADHYA PRADESH	-199.407	-202.744	-202.744	-210.232
TO NEPAL	-2.157	-2.217	-2.217	-2.304
TO JAMMU & KASHMIR	-130.075	-132.810	-132.810	-137.652
TO MAHARASHTRA	-102.941	-105.250	-105.250	-109.088
TO RAJASTHAN	-35.878	-36.646	-36.646	-37.992
TO TAMILNADU	-6.459	-6.625	-6.625	-6.869
TO MEGHALAYA	-14.978	-15.319	-15.319	-15.920
TO HIMACHAL PRADESH	-56.063	-57.086	-57.086	-59.182
TO POWER EXCHANGE (IEX)	-396.827	-412.942	-396.827	-412.942
TO POWER EXCHANGE (PX)	-3.145	-3.265	-3.145	-3.265
TO SHARE PROJECT (HARYANA)	-11.548	-12.033	-11.548	-12.033
TO SHARE PROJECT (PUNJAB)	-5.679	-5.926	-5.679	-5.926
TOTAL	**-1045.390**	**-1074.800**	**-1057.834**	**-1097.995**
TOTAL SCHEDULED DRAWAL FROM THE GRID	**1478.470**	**1362.652**	**1162.155**	**1034.225**
TOTAL CONSUMPTION INCLUDING AUX. OF GENERATING STNs. EXCLUDING BTPS				1749.339
NET CONSUMPTION				1726.339
AVAILABILITY WITHIN DELHI				829.901
ACTUAL DRAWAL FROM THE GRID				896.438
OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID ON THE BASIS OF SCHEDULED ALLOCATION MADE BY NRLDC TO DELHI AT PERIPHERY				-137.787
LOAD SHEDDING				**11.962**
UNRESTRICTED DEMAND (GROSS)				**1761.131**
UNRESTRICTED DEMAND (NET)				**1738.301**
MAX. NET CONSUMPTION				61.162Mus. ON 27.12.2012
MAX. LOAD SHEDDING				508MW ON 26.12.2012 AT 10.30HRS.
PEAK LOAD	Peak Demand during the month			SHEDDING AT PEAK TIME
DAY PEAK	3643MW AT 10.59.32HRS ON 31.12.2012			23MW
EVENING PEAK	3370MW AT 18.30.20HRS ON 27.12.2012			NIL
P.L.F. OF GENCO AND PRAGATI STNs.	RPH			76.94%
	GT			44.55%
	PRAGATI			96.07%
	RITHALA			6.48%
	BAWANA			27.99%

9 SHEDDING DETAILS DURING THE MONTH OF DECEMBER 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-Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2- Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3- Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.057	0.000
4-Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.090	0.000	0.181	0.000
5- Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6- Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7- Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.039	0.000
8-Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.035	0.000
9- Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.002	0.030	0.057	0.000
12-Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.000	0.000
13-Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.042	0.000
14-Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15-Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.044	0.025	0.000	0.000
16-Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000
17-Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18-Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.000
19-Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.253	0.113	0.177	0.000
20-Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.439	0.416	0.223	0.000
21-Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.250	0.009	0.080	0.000
22-Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23-Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.031	0.031	0.026	0.000
24-Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.021	0.014	0.022	0.000
25-Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.707	0.577	1.392	0.000
26-Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.547	0.283	0.219	0.000
27-Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.137	0.000	0.142	0.000
28-Dec-12	0	0.000	0.000	0.000	0.000	0.000	1.184	0.429	0.828	0.000
29-Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.040	0.000	0.025	0.000
30-Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.032	0.000
31-Dec-12	0	0.000	0.000	0.000	0.000	0.000	0.940	0.000	0.546	0.000
TOTAL	**0**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**4.687**	**1.939**	**4.134**	**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-Dec-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2- Dec-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3- Dec-12	0.000	0.000	0.000	0.000	0.057	0.057	0.000	0.009	0.000	0.000	0.000
4-Dec-12	0.000	0.000	0.000	0.000	0.271	0.271	0.000	0.000	0.000	0.000	0.000
5- Dec-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6- Dec-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7- Dec-12	0.000	0.000	0.000	0.000	0.039	0.039	0.000	0.000	0.000	0.000	0.000
8-Dec-12	0.000	0.000	0.000	0.000	0.035	0.035	0.000	0.000	0.000	0.000	0.000
9- Dec-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-Dec-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-Dec-12	0.000	0.000	0.000	0.000	0.089	0.089	0.029	0.034	0.002	0.000	0.000
12-Dec-12	0.000	0.000	0.000	0.000	0.012	0.012	0.000	0.000	0.000	0.000	0.000
13-Dec-12	0.000	0.000	0.000	0.000	0.042	0.042	0.002	0.000	0.013	0.000	0.000
14-Dec-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.000	0.000
15-Dec-12	0.000	0.000	0.000	0.000	0.069	0.069	0.000	0.000	0.000	0.000	0.000
16-Dec-12	0.000	0.000	0.000	0.000	0.002	0.002	0.033	0.008	0.003	0.014	0.000
17-Dec-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18-Dec-12	0.000	0.000	0.000	0.000	0.011	0.011	0.000	0.016	0.000	0.000	0.000
19-Dec-12	0.000	0.000	0.000	0.000	0.543	0.543	0.000	0.000	0.006	0.000	0.000
20-Dec-12	0.000	0.000	0.000	0.000	1.078	1.078	0.000	0.000	0.000	0.000	0.000
21-Dec-12	0.000	0.000	0.000	0.000	0.339	0.339	0.000	0.000	0.000	0.000	0.000
22-Dec-12	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.001	0.000	0.000
23-Dec-12	0.000	0.000	0.000	0.000	0.088	0.088	0.000	0.000	0.000	0.000	0.000
24-Dec-12	0.000	0.000	0.000	0.000	0.057	0.057	0.000	0.000	0.000	0.000	0.000
25-Dec-12	0.000	0.000	0.000	0.000	2.676	2.676	0.000	0.005	0.000	0.000	0.000
26-Dec-12	0.000	0.000	0.000	0.000	1.049	1.049	0.000	0.000	0.002	0.000	0.000
27-Dec-12	0.000	0.000	0.000	0.000	0.279	0.279	0.000	0.000	0.000	0.000	0.000
28-Dec-12	0.000	0.000	0.000	0.000	2.441	2.441	0.000	0.000	0.000	0.000	0.000
29-Dec-12	0.000	0.000	0.000	0.000	0.065	0.065	0.000	0.000	0.000	0.000	0.000
30-Dec-12	0.000	0.000	0.000	0.000	0.032	0.032	0.000	0.000	0.000	0.000	0.000
31-Dec-12	0.000	0.000	0.000	0.000	1.486	1.486	0.000	0.000	0.000	0.000	0.000
TOTAL	**0.000**	**0.000**	**0.000**	**0.000**	**10.760**	**10.760**	**0.071**	**0.072**	**0.031**	**0.014**	**0.000**

ALL FIGURES IN MUs

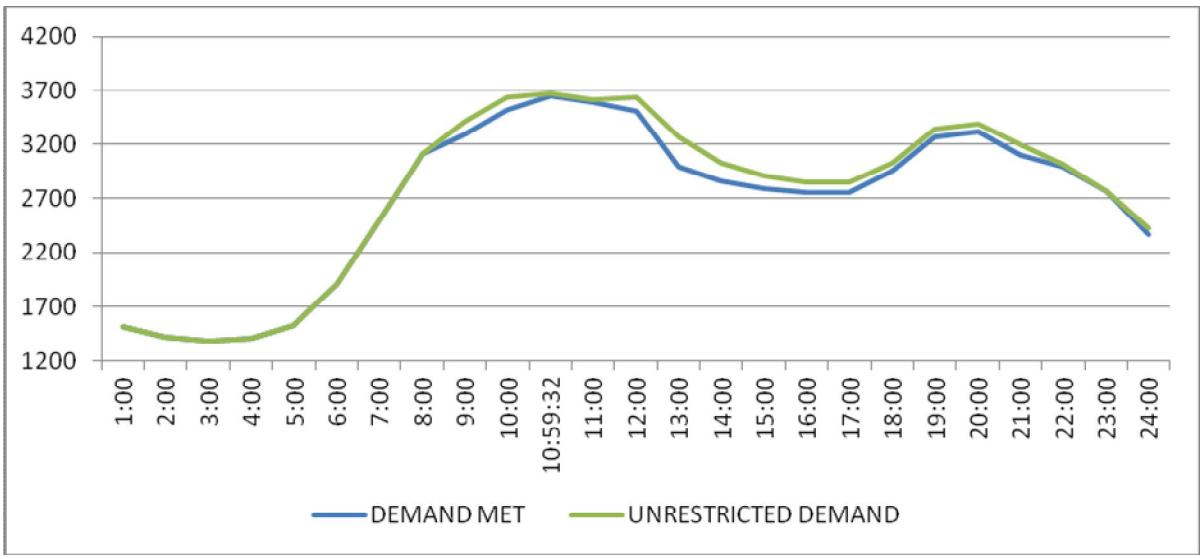
DATE	DUE TO T&D CONTRAINTS				OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.	THEFT PRONE SHEDDING			TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE	GRAND TOTAL
	DISCOMS									
	BSES		NDPL	NDMC		BSES		NDPL		
	BYPL	BRPL				BYPL	BRPL			
1	23	24	25		26	27	28	29	30=18 to29	31=30+17
1-Dec-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.022	0.022	0.022
2- Dec-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.024	0.024	0.024
3- Dec-12	0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.020	0.034	0.091
4-Dec-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.121	0.121	0.392
5- Dec-12	0.001	0.006	0.001	0.000	0.000	0.003	0.000	0.035	0.046	0.046
6- Dec-12	0.016	0.000	0.001	0.000	0.001	0.005	0.000	0.000	0.023	0.023
7- Dec-12	0.000	0.000	0.000	0.000	0.001	0.007	0.000	0.019	0.027	0.066
8-Dec-12	0.102	0.000	0.015	0.000	0.001	0.008	0.000	0.054	0.180	0.215
9- Dec-12	0.014	0.000	0.001	0.000	0.001	0.008	0.000	0.008	0.032	0.032
10-Dec-12	0.003	0.000	0.000	0.000	0.001	0.012	0.000	0.000	0.016	0.016
11-Dec-12	0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.070	0.159
12-Dec-12	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.004	0.016
13-Dec-12	0.017	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.034	0.076
14-Dec-12	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.005	0.005
15-Dec-12	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.074
16-Dec-12	0.006	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.070	0.072
17-Dec-12	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.003
18-Dec-12	0.000	0.047	0.001	0.000	0.000	0.000	0.000	0.000	0.064	0.075
19-Dec-12	0.060	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.069	0.612
20-Dec-12	0.071	0.000	0.000	0.000	0.000	0.000	0.000	0.013	0.084	1.162
21-Dec-12	0.000	0.006	0.000	0.000	0.000	0.003	0.000	0.000	0.009	0.348
22-Dec-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.008	0.008
23-Dec-12	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.017	0.022	0.110
24-Dec-12	0.000	0.011	0.018	0.000	0.003	0.007	0.000	0.000	0.039	0.096
25-Dec-12	0.006	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.016	2.692
26-Dec-12	0.017	0.000	0.000	0.000	0.000	0.005	0.000	0.042	0.066	1.115
27-Dec-12	0.009	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.014	0.293
28-Dec-12	0.021	0.049	0.000	0.000	0.000	0.000	0.000	0.000	0.070	2.511
29-Dec-12	0.000	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.006	0.071
30-Dec-12	0.000	0.011	0.000	0.000	0.000	0.008	0.000	0.000	0.019	0.051
31-Dec-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.486
TOTAL	0.351	0.146	0.047	0.000	0.008	0.087	0.000	0.375	1.202	11.962

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-Dec-12	53.830	2944	08:53:35	0	2944	2944	08:53:35	2944	0
2- Dec-12	48.950	2922	10:53:37	0	2922	2922	10:53:37	2922	0
3- Dec-12	55.110	3039	18:36:23	5	3044	3044	18:36:23	3039	5
4-Dec-12	54.658	3068	08:17:41	7	3075	3075	08:17:41	3068	7
5- Dec-12	55.290	3097	18:30:10	0	3097	3097	18:30:10	3097	0
6- Dec-12	55.967	3189	18:54:00	0	3189	3189	18:54:00	3189	0
7- Dec-12	55.741	3162	10:02:03	0	3162	3162	10:02:03	3162	0
8-Dec-12	55.264	3065	10:02:43	2	3067	3067	10:02:43	3065	2
9- Dec-12	52.388	2957	10:19:05	0	2957	2957	10:19:05	2957	0
10-Dec-12	54.493	2987	18:31:13	5	2992	2992	18:31:13	2987	5
11-Dec-12	54.592	3019	10:01:50	0	3019	3019	10:01:50	3019	0
12-Dec-12	55.252	3121	9:47:11	0	3121	3121	9:47:11	3121	0
13-Dec-12	55.898	3115	18:34:34	0	3115	3115	18:34:34	3115	0
14-Dec-12	56.196	3153	10:35:46	0	3153	3153	10:35:46	3153	0
15-Dec-12	53.961	3103	10:08:24	1	3104	3104	10:08:24	3103	1
16-Dec-12	51.838	3058	10:32:59	0	3058	3058	10:32:59	3058	0
17-Dec-12	55.093	3122	10:04:34	0	3122	3122	10:04:34	3122	0
18-Dec-12	53.478	3127	10:03:52	0	3127	3127	10:03:52	3127	0
19-Dec-12	56.025	3210	09:43:12	0	3210	3210	09:43:12	3210	0
20-Dec-12	57.139	3220	18:43:33	0	3220	3220	18:43:33	3220	0
21-Dec-12	56.522	3280	09:35:47	10	3290	3290	09:35:47	3280	10
22-Dec-12	52.700	3269	10:25:11	0	3269	3269	10:25:11	3269	0
23-Dec-12	53.147	3276	10:14:09	0	3276	3276	10:14:09	3276	0
24-Dec-12	57.385	3402	10:10:11	5	3407	3407	10:10:11	3402	5
25-Dec-12	57.027	3258	18:58:02	0	3258	3518	10:30	3018	500
26-Dec-12	58.701	3449	09:48:50	60	3509	3658	10:30	3150	508
27-Dec-12	61.162	3549	10:48:51	33	3582	3582	10:48:51	3549	33
28-Dec-12	60.114	3605	10:33:03	231	3836	3836	10:33:03	3605	231
29-Dec-12	59.394	3510	10:03:40	0	3510	3510	10:03:40	3510	0
30-Dec-12	58.509	3426	10:57:54	0	3426	3426	10:57:54	3426	0
31-Dec-12	60.515	3643	10:59:32	23	3666	3666	10:59:32	3643	23
Total	1726.339	3643 31.12.2012	10:59:32	23	3666 28.12.2012	3836	10:33:03	3605	231

10 LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING DECEMBER 2012 ON 31.12.2012 - 3643MW at 10.59.32HRS.

All figures in MW

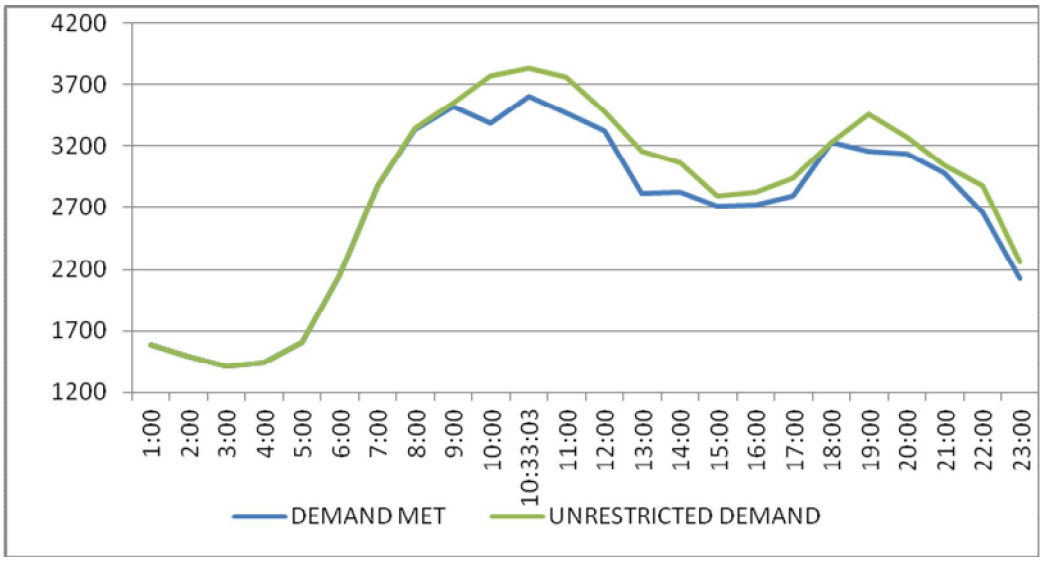
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1:00	1518	0	1518
2:00	1424	0	1424
3:00	1387	0	1387
4:00	1405	0	1405
5:00	1526	0	1526
6:00	1901	0	1901
7:00	2503	0	2503
8:00	3110	0	3110
9:00	3293	118	3411
10:00	3510	119	3629
10:59:32	3643	23	3666
11:00	3591	23	3614
12:00	3498	141	3639
13:00	3000	271	3271
14:00	2862	168	3030
15:00	2797	118	2915
16:00	2763	91	2854
17:00	2763	91	2854
18:00	2956	74	3030
19:00	3270	65	3335
20:00	3312	71	3383
21:00	3101	97	3198
22:00	2992	26	3018
23:00	2775	0	2775
24:00	2365	60	2425
ENERGY IN MUS	**60.515**	**1.486**	**62.001**



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING DECEMBER 2012 ON 28.12.2012- 3836MW at 10.33.03HRS.

All figures in MW

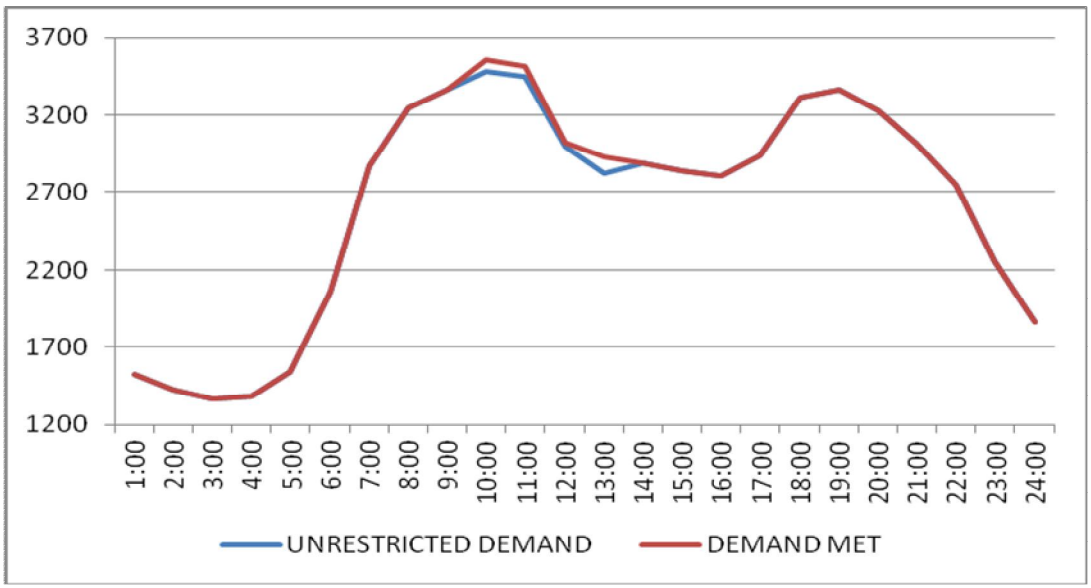
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1:00	1582	3	1585
2:00	1492	5	1497
3:00	1408	2	1410
4:00	1439	2	1441
5:00	1603	0	1603
6:00	2147	0	2147
7:00	2873	0	2873
8:00	3337	6	3343
9:00	3526	31	3557
10:00	3382	389	3771
10:33:03	3605	231	3836
11:00	3465	294	3759
12:00	3325	153	3478
13:00	2819	341	3160
14:00	2824	236	3060
15:00	2715	73	2788
16:00	2719	107	2826
17:00	2794	144	2938
18:00	3229	0	3229
19:00	3158	302	3460
20:00	3132	136	3268
21:00	2980	66	3046
22:00	2663	213	2876
23:00	2128	133	2261
24:00	1883	0	1883
ENERGY IN MUS	**60.114**	**2.511**	**62.625**



12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING DECEMBER 2012 – 27.12.2012 – 61.162 Mus

All figures in MW

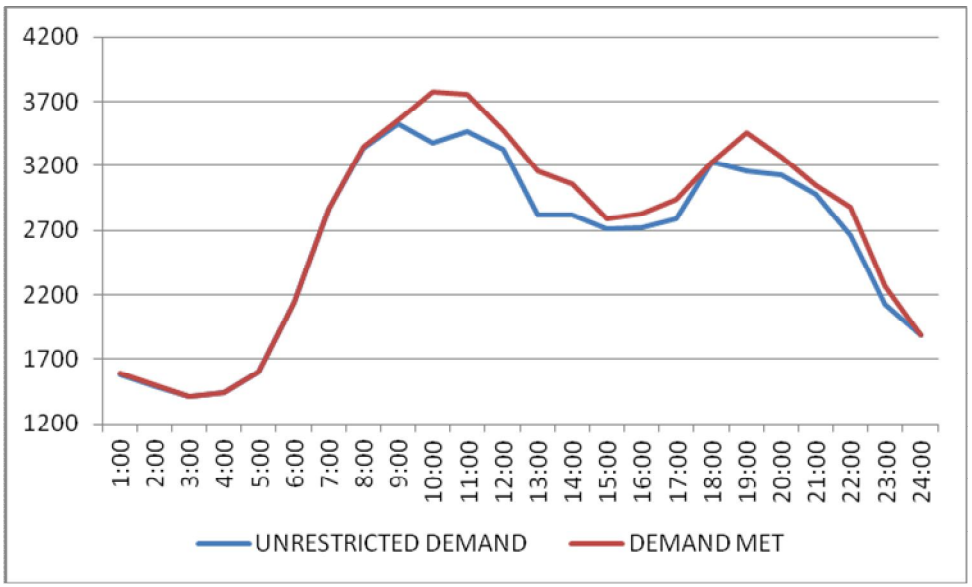
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1:00	1527	0	1527
2:00	1423	0	1423
3:00	1369	0	1369
4:00	1380	0	1380
5:00	1538	0	1538
6:00	2064	0	2064
7:00	2871	0	2871
8:00	3244	0	3244
9:00	3363	0	3363
10:00	3475	73	3548
11:00	3446	65	3511
12:00	2998	21	3019
13:00	2825	110	2935
14:00	2891	0	2891
15:00	2837	0	2837
16:00	2810	0	2810
17:00	2936	0	2936
18:00	3309	0	3309
19:00	3358	0	3358
20:00	3233	0	3233
21:00	3014	0	3014
22:00	2747	5	2752
23:00	2256	0	2256
24:00	1868	0	1868
ENERGY IN MUS	**61.162**	**0.293**	**61.455**



13 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING DECEMBER 2012 – 28.12.2012 – 62.625 Mus

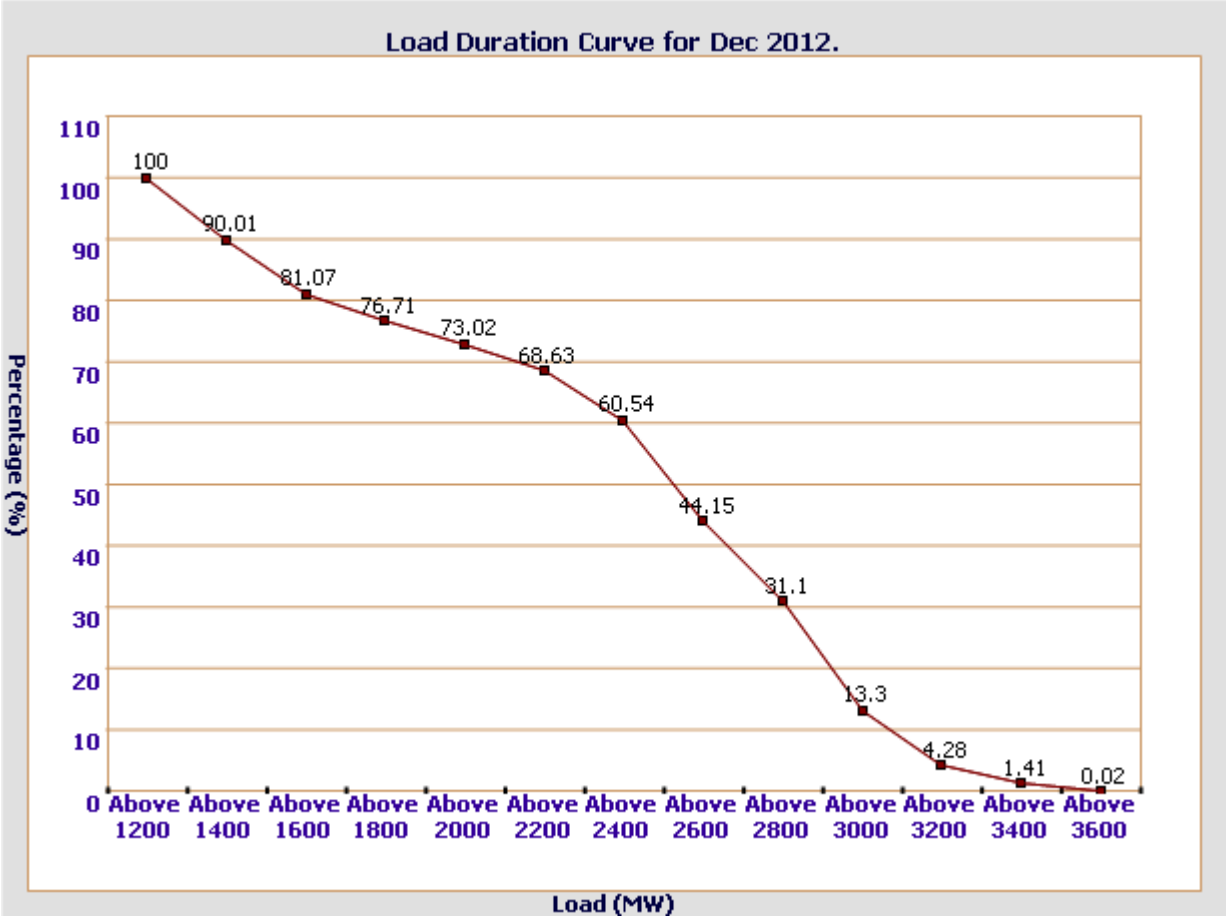
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
1:00	1582	3	1585
2:00	1492	5	1497
3:00	1408	2	1410
4:00	1439	2	1441
5:00	1603	0	1603
6:00	2147	0	2147
7:00	2873	0	2873
8:00	3337	6	3343
9:00	3526	31	3557
10:00	3382	389	3771
11:00	3465	294	3759
12:00	3325	153	3478
13:00	2819	341	3160
14:00	2824	236	3060
15:00	2715	73	2788
16:00	2719	107	2826
17:00	2794	144	2938
18:00	3229	0	3229
19:00	3158	302	3460
20:00	3132	136	3268
21:00	2980	66	3046
22:00	2663	213	2876
23:00	2128	133	2261
24:00	1883	0	1883
ENERGY IN MUS	**60.114**	**2.511**	**62.625**



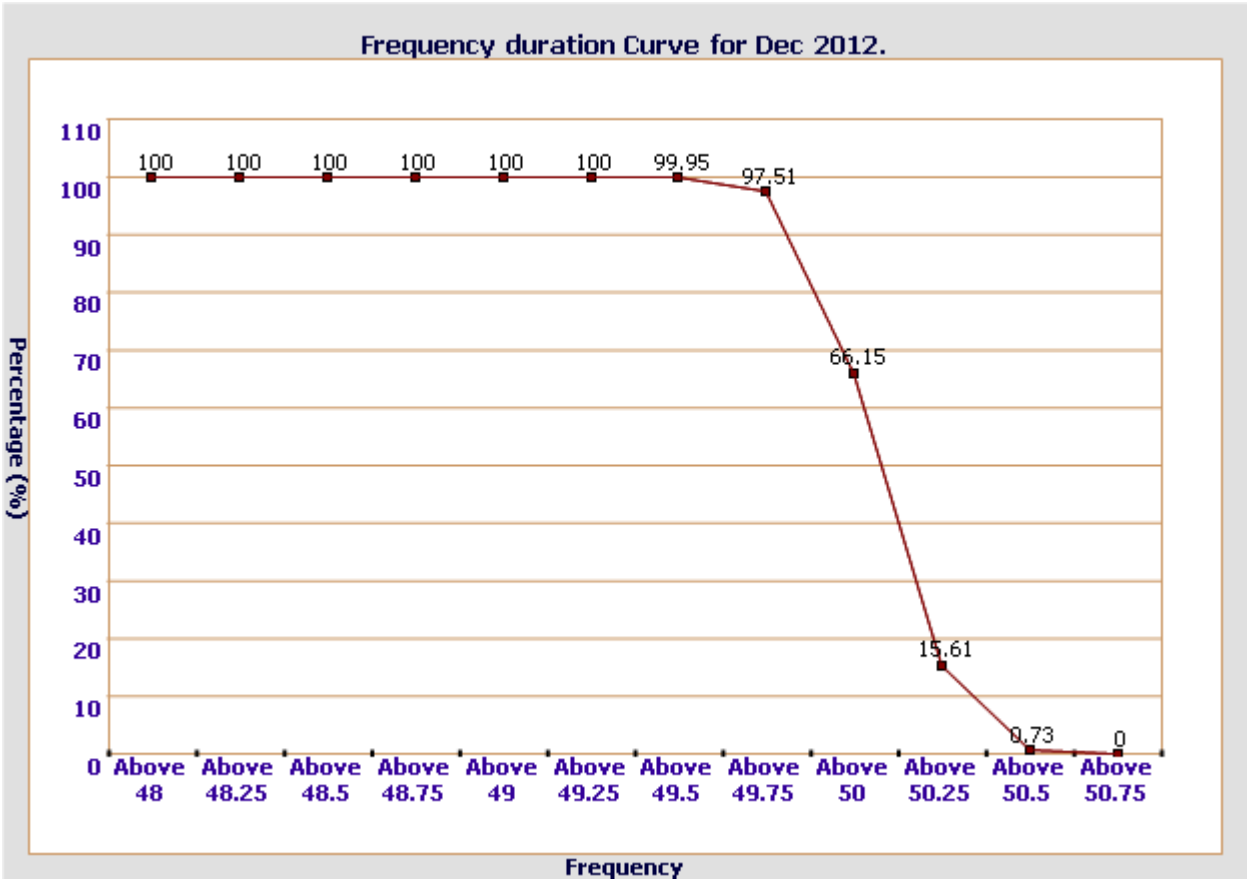
14 LOAD DURATION CURVE FOR DECEMBER 2012

Load in MW	Percentage of Time
Above 1200	100 %
Above 1400	90.01 %
Above 1600	81.07 %
Above 1800	76.71 %
Above 2000	73.02 %
Above 2200	68.63 %
Above 2400	60.54 %
Above 2600	44.15 %
Above 2800	31.1 %
Above 3000	13.3 %
Above 3200	4.28 %
Above 3400	1.41 %
Above 3600	0.02 %



15 FREQUENCY ANALYSIS FOR THE MONTH OF DECEMBER 2012

Frequency Range in Hz.	Percentage of time
Above 49.25	100 %
Above 49.5	99.95 %
Above 49.75	97.51 %
Above 50	66.15 %
Above 50.25	15.61 %
Above 50.5	0.73 %
Above 50.75	0 %



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

All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
1-Dec-12	243.75	225.31	232.02	--
2- Dec-12	244.01	229.82	232.66	205.71
3- Dec-12	244.66	223.63	232.79	202.22
4-Dec-12	240.14	222.99	230.21	209.32
5- Dec-12	241.56	226.60	233.31	217.70
6- Dec-12	239.24	223.76	229.82	205.06
7- Dec-12	236.92	217.18	228.92	203.51
8-Dec-12	236.66	219.12	226.34	201.06
9- Dec-12	240.53	224.41	230.60	203.00
10-Dec-12	241.82	223.50	230.60	205.71
11-Dec-12	242.08	226.60	230.47	212.41
12-Dec-12	242.20	225.44	231.50	214.35
13-Dec-12	242.08	225.44	231.11	215.12
14-Dec-12	249.43	225.70	232.15	214.61
15-Dec-12	242.20	224.66	232.02	215.12
16-Dec-12	243.49	229.95	229.44	217.18
17-Dec-12	244.27	225.44	230.60	213.70
18-Dec-12	240.53	225.31	228.28	213.96
19-Dec-12	242.72	227.24	230.21	217.06
20-Dec-12	240.27	224.66	228.79	213.70
21-Dec-12	241.17	224.92	228.28	213.19
22-Dec-12	--	--	--	--
23-Dec-12	241.17	222.47	228.79	218.86
24-Dec-12	241.69	224.02	230.21	216.67
25-Dec-12	--	--	--	--
26-Dec-12	241.04	223.63	229.44	210.22
27-Dec-12	238.85	223.63	230.47	206.74
28-Dec-12	237.30	222.34	231.50	218.22
29-Dec-12	240.53	224.28	230.86	217.18
30-Dec-12	238.98	226.86	230.60	218.35
31-Dec-12	240.92	224.41	230.86	215.25

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

All figures in kV

Date	400kV Bamnauli Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
1-Dec-12	420.91	03.03.02	397.23	12.17.06	409.54
2- Dec-12	420.44	04.07.00	399.10	09.20.11	409.24
3- Dec-12	420.91	03.14.47	396.76	10.48.24	407.40
4-Dec-12	415.52	03.05.24	395.58	10.15.01	405.78
5- Dec-12	418.56	04.08.31	394.88	10.13.16	403.81
6- Dec-12	415.05	04.45.20	393.47	17.55.07	403.74
7- Dec-12	412.00	03.06.19	391.60	08.32.18	402.03
8-Dec-12	414.58	04.04.52	390.89	08.38.19	402.76
9- Dec-12	414.58	04.04.00	392.07	11.35.01	403.12
10-Dec-12	413.87	04.04.36	391.86	11.07.34	401.66
11-Dec-12	413.41	04.02.08	394.65	10.11.11	404.26
12-Dec-12	415.52	03.07.15	389.96	10.48.55	402.95
13-Dec-12	416.22	04.04.10	392.77	09.42.01	404.25
14-Dec-12	420.44	03.07.07	393.94	12.19.13	405.55
15-Dec-12	416.69	04.01.19	394.41	09.07.10	405.17
16-Dec-12	415.98	03.35.53	395.58	09.42.36	406.01
17-Dec-12	418.10	03.03.20	393.47	18.11.25	403.92
18-Dec-12	413.41	04.03.11	390.43	10.15.33	403.23
19-Dec-12	416.22	04.07.19	393.94	07.42.44	402.87
20-Dec-12	413.41	04.05.36	391.60	10.04.42	402.47
21-Dec-12	412.47	03.06.34	389.96	12.05.37	401.13
22-Dec-12	--	--	--	--	--
23-Dec-12	412.47	03.18.33	391.13	11.32.24	400.53
24-Dec-12	414.81	04.00.47	390.89	11.12.45	401.74
25-Dec-12	--	--	--	--	--
26-Dec-12	415.52	04.04.07	388.55	11.13.25	402.37
27-Dec-12	412.23	03.29.39	391.13	09.39.06	403.16
28-Dec-12	413.87	04.02.36	391.36	12.03.48	403.33
29-Dec-12	415.05	04.08.18	393.47	15.48.40	403.01
30-Dec-12	413.64	03.06.34	396.29	09.55.59	404.54
31-Dec-12	416.69	03.15.54	394.88	09.20.06	403.34

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
1-Dec-12	427.47	03.02.52	406.14	12.16.56	417.44
2- Dec-12	422.79	23.51.14	407.54	09.20.11	414.34
3- Dec-12	427.47	03.15.27	405.20	10.51.04	415.44
4-Dec-12	422.08	03.06.54	403.32	11.16.05	412.92
5- Dec-12	421.61	20.57.29	403.32	10.13.26	411.40
6- Dec-12	416.92	20.53.27	404.03	10.20.30	410.10
7- Dec-12	419.27	03.03.19	401.45	08.32.18	410.79
8-Dec-12	422.08	04.03.22	400.74	08.38.09	412.10
9- Dec-12	422.79	04.05.40	402.62	11.34.21	412.56
10-Dec-12	422.08	04.04.56	400.51	11.10.34	411.20
11-Dec-12	422.08	04.01.28	405.43	09.27.38	414.17
12-Dec-12	424.43	03.07.15	400.74	10.47.55	412.55
13-Dec-12	424.43	04.02.40	402.85	11.22.28	413.64
14-Dec-12	429.12	03.18.38	405.20	12.19.13	415.05
15-Dec-12	425.36	03.00.36	406.14	09.07.00	414.93
16-Dec-12	425.13	03.36.43	406.84	09.42.36	415.53
17-Dec-12	425.60	03.43.52	404.03	18.11.25	411.38
18-Dec-12	420.44	20.57.43	401.45	10.15.43	411.75
19-Dec-12	425.60	04.07.19	404.26	10.21.44	413.91
20-Dec-12	422.08	04.03.16	402.85	09.53.21	413.57
21-Dec-12	420.67	03.42.16	400.27	12.07.07	411.46
22-Dec-12	--	--	--	--	--
23-Dec-12	420.44	03.18.03	399.57	11.32.24	409.02
24-Dec-12	422.55	04.00.47	399.81	11.12.45	410.57
25-Dec-12	--	--	--	--	--
26-Dec-12	422.08	04.04.17	396.99	11.13.45	410.48
27-Dec-12	419.27	03.28.48	400.51	09.39.26	411.07
28-Dec-12	420.44	04.02.26	399.10	411.16	
29-Dec-12	421.61	04.07.18	401.68	12.07.07	410.54
30-Dec-12	420.67	03.08.44	403.09	10.37.22	411.74
31-Dec-12	423.02	03.09.14	401.92	10.42.01	410.67

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 DECEMBER 2012

SL NO.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
01	01.12.12	05.45	66/11KV 20MVA PR. TR.-I AT PAPPANKALAN-I	01.12.12	16.28	TR. TRIPPED ON BUCHHLOZ.
02	02.12.12	09.05	66/11KV 20MVA PR. TR.-I AT GAZIPUR	02.12.12	12.10	TR. TRIPPED ON OSR, 86, 95
03	08.12.12	00.25	220KV PATPARGANJ – IP CKT-I	08.12.12	03.55	CKT. TRIPPED ON 186 AT IP. NO TRIPPING AT PATPARGANJ
04	11.12.12	14.15	220KV MANDOLA – WAZIRABAD CKT-I & II	11.12.12	14.53	BOTH CKT. TRIPPED ON DIST PROT `R' PHASE ZONE-I AT WAZIRABAD. NO TRIPPING AT MANDOLA. CKT-I CHARGED AT 14.37HRS. AND CKT-II CHARGED AT 14.45HRS.
05	11.12.12	14.15	220KV WAZIRABAD – GEETA COLONY CKT-II	11.12.12	14.40	CKT. TRIPPED ON DIST PROT `RB' PHASE ZONE-I AT WAZIRABAD. NO TRIPPING AT GEETA COLONY.
06	11.12.12	14.15	220/66KV 100MVA PR. TR.-II AT WAZIRABAD	11.12.12	14.47	TR. TRIPPED WITHOUT INDICATION ALONG WITH 66KV I/C-I, II & III. ALL 66KV I/C TRIPPED ON E/F.
07	13.12.12	11.50	220KV MANDOLA – GOPALPUR CKT-II	13.12.12	16.14	CKT. TRIPPED ON DIST PROT `C' PHASE ZONE-I AT MANDOLA AND ON DIST PROT `RYB' PHASE ZONE-I AT GOPALPUR.
08	14.12.12	04.28	220KV BAWANA – DSIDC CKT-II	14.12.12	06.10	CKT TRIPPED ON DIST PROT, 86 AT BAWANA. NO TRIPPING AT DSIDC. NO TRIPPING AT BAWANA.
09	14.12.12	04.28	220KV DSIDC – NARELA CKT-II	14.12.12	06.10	CKT. TRIPPED ON DIST PROT `A' PHASE, 86 AT DSIDC. NO TRIPPING AT NARELA.
10	14.12.12	05.53	400KV MUNDKA – JHAJJAR CKT-II	14.12.12	13.00	CB-41352 OF THE CKT. TRIPPED AT MUNDKA ON POLE DISCREPANCY.
11	15.12.12	11.48	220KV WAZIRABAD – GOPALPUR CKT-I	15.12.12		CKT. TRIPPED ON VT FUSE FAIL AT WAZIRABAD. NO TRIPPING AT GOPALPUR.
12	16.12.12	05.25	220KV SARITA VIHAR – MAHARANI BAGH CKT.	16.12.12		CKT. TRIPPED ON DIST PROT `C' PHASE ZONE-I AT SARITA VIHAR AND ON DIST PROT ZONE-III AT MAHARANI BAGH.
13	16.12.12	05.25	220KV MAHARANI BAGH – PRAGATI CKT.	16.12.12	19.13	`B' PHASE CT BLAST AT PRAGATI END.
14	16.12.12	05.25	220KV PRAGATI – PARK STREET CKT-I & II	16.12.12	06.09	PARK STREET CKT-I TRIPPED ON 295CA, 96 AND CKT-II TRIPPED ON 96 AT PRAGATI.
15	16.12.12	05.25	220/66KV 160MVA PR. TR.-I & II AT PRAGATI	16.12.12	09.27	BOTH TRANSFORMERS TRIPPED ON OLTC BUCHHLOZ, 86. TR.-I CHARGED AT 09.27HRS. AND TR.-II CHARGED AT 08.06HRS.
16	16.12.12	05.25	220KV SARITA VIHAR – PRAGATI CKT.	16.12.12	05.53	CKT. TRIPPED ON DIST PROT `C' PHASE ZONE-I, 186B AT SARITA VIHAR AND ON 186, 986T AT PRAGATI.
17	16.12.12	15.25	220KV SARITA VIHAR – PRAGATI CKT.	16.12.12	15.33	CKT. TRIPPED ON 186, 96T AT PRAGATI. NO TRIPPING AT SARITA VIHAR.
18	16.12.12	15.25	220KV PRAGATI – PARKSTREET CKT.	16.12.12	15.52	CKT-I TRIPPED ON 295CA, 96 AND CKT-II TRIPPED ON 96 AT PRAGATI END ONLY. NO TRIPPING AT PARK STREET.
19	16.12.12	15.25	220KV PRAGATI – IP CKT-I	16.12.12	15.39	CKT. TRIPPED ON 96F AT PRAGATI. NO TRIPPING AT IP
20	16.12.12	15.25	220/66KV 160MVA PR. TR-I & II AT PRAGATI	16.12.12	15.45	TR-I TRIPPED ON 96ABC AND TR-II TRIPPED ON 96T.

SL NO.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
21	16.12.12	17.44	220KV PRAGATI – SARITA VIHAR CKT	16.12.12	17.59	CKT. TRIPPED ON 96T AT PRAGATI. NO TRIPPING AT SARITA VIHAR.
22	16.12.12	17.44	220/66KV 160MVA PR. TR-I & II AT PRAGATI	16.12.12	18.14	TR-I TRIPPED ON 96BC AND TR-II TRIPPED ON 96T.
23	16.12.12	17.44	220KV PRAGATI – PARK STREET CKT-I & II	16.12.12	18.00	BOTH CKT TRIPPED ON 96 AT PRAGATI.
24	17.12.12	15.24	220/66KV 160MVA PR. TR.-I AT PRAGATI	17.12.12	17.27	TR. TRIPPED ON 87, 64HV REF
25	17.12.12	15.24	220KV WAZIRABAD – GEETA COLONY CKT-I	17.12.12	15.30	CKT. TRIPPED N DIST PROT ZONE-I AT WAZIRABAD. NO TRIPPING AT GEETA COLONY
26	18.12.12	11.12	66/11KV 20MVA PR. TR.-II AT PAPPANKALAN-II	18.12.12	13.33	TR. TRIPPED ON O/C `R' PHASE
27	22.12.12	07.00	220KV BTPS – NOIDA – GAZIPUR CKT.	22.12.12	08.08	CKT. TRIPPED ON `B' PHASE E/F AT GAZIPUR AND AUXILIARY RELAY TRIPPING AT GAZIPUR.
28	25.12.12	03.55	220KV BTPS – OKHLA CKT-I	25.12.12	04.34	CKT. TRIPPED ON OVER VOLTAGE GENERAL TRIP AT OKHLA. NO TRIPPING AT BTPS.
29	25.12.12	04.13	220KV PANIPAT – NARELA CKT.-III	25.12.12	04.26	CKT. TRIPPED WITHOUT INDICATION AT NARELA. NO TRIPPING AT PANIPAT
30	26.12.12	17.20	220KV WAZIRABAD – GOPALPUR CKT-I	26.12.12	19.29	CKT. TRIPPED WITHOUT INDICATION AT WAZIRABAD.

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

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