DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

****

MAY 2012

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1 SALIENT FEATURES OF DELHI POWER SYSTEM

Sr. No.	Features	MAY 2012	MAY 2011
1	**Effective Generation Capacity within Delhi in MW**		
	Rajghat Power House	135	135
	Gas Turbine	270	270
	Pragati Power Corporation Ltd.	330	330
	Badapur Thermal Power Station	705	705
	Rithala GT	108	73
	Total	1548	1513
2	**Maximum Unrestricted Demand (MW)**	**5193**	**4845**
	Date	30.05.2012	18.05.2011
	Time	15.23.40	15.00.00
3	**Peak Demand met (MW)**	**5155**	**4823**
	Date	30.05.2012	18.05.2011
	Time	15.23.40	16.10.34
4	Peak Availability (MW)	5026	4492
5	Shortage (-) / Surplus (+) in MW	(+) 129	(-) 331
6	Percentage Shortage (-) / Surplus (+)	(+) 2.57	(-) 7.36
7	Maximum Energy Consume in a day (Mus)	99.239	95.453
8	Energy Consumed during the month	**2659.082**	**2609.419**
9	**Load Shedding in Mus**		
A)	Due to Grid Restrictions		
i)	Under Frequency Relay Operations	0.447	0.000
ii)	Manual Load shedding from DTL S/Stns.	0.000	0.000
iii)	Load Shedding due to low frequency / Low Voltage / TTC/ATC Violation		
	NDPL	1.646	0.191
	BRPL	0.920	0.183
	BYPL	0.548	0.104
	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	**3.561**	**0.478**
B)	Due to Constraints in System in Mus		
	DTL	3.950	1.656
	NDPL	1.135	0.475
	BRPL	1.775	0.653
	BYPL	0.497	0.140
	NDMC	0.000	0.000
	MES	0.000	0.000
	Other Agencies	0.368	0.032
	Total	**7.725**	**2.956**
11	**Grand Total in Mus**	**11.286**	**3.434**

2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING MAY 2012

A) For the month of MAY 2012

All Figures in MUs

S. No	Stations	Gross Generation	Aux. Consumption	Net Generation	Availability (%)	Backing Down
1.	**RPH**	68.548	9.016	59.532	66.67	--
2.	**GT**	158.533	4.728	153.805	81.38	5.84
3.	**PPCL**	214.310	5.718	208.592	88.29	1.526
4.	**BTPS**	406.789	36.106	370.683	85.90	31.619
5.	**Rithala**	21.655	1.109	20.546	--	--
6.	**Bawana**	137.638	4.610	133.028	71.33	52.710
	TOTAL	**1007.473**	**61.287**	**946.186**	--	**91.695**

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

Power Station	Effective Capacity (MW)	Net Generation in MUs For MAY 2012	Availability (%) For MAY. 2012	PLF (%) For MAY. 2012	Cumulative Generation in MUs upto MAY. 2012 for the year 2012-13	Cumulative Availability in % upto MAY 2012 for the year 2012-13	Cumulative PLF in % upto MAY 2012 for the year 2012-13
RPH	135	59.532	66.67	66.67	125.798	71.69	71.69
GT	270	153.805	81.38	78.38	267.835	78.85	69.27
PPCL	330	208.592	88.29	87.65	411.417	89.98	87.73
BTPS	705	370.683	85.90	79.24	721.912	88.78	77.36
Rithala	108	20.546	--	--	44.443	--	--
Bawana	**216**	133.028	71.33	50.02	235.860	77.49	43.52
TOTAL	**1764**	**946.186**	--	--	**1807.265**	--	--

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

(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.
2	30	08.04.12	17.00	08.04.12	18.06	Machine tripped due to jerk observed in C/R.160MVA Trf. No.2 tripped.
		12.04.12	00.02	12.04.12	06.10	Stopped due to low demand and high frequency.
		12.04.12	09.31	12.04.12	18.32	
		12.04.12	19.45	12.04.12	20.31	Tripped on -ve phase sequence elect. Trouble normal shut down.
		29.04.12	00.01	29.04.12	20.45	Stopped due to low demand and high frequency.
		30.04.12	13.52	30.04.12	21.35	

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.
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	
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.
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.

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.
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	Machine not taken on load as there was no schedule from SLDC
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)

(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
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	
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	

(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
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
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	
		30-05-12	15:05	30-05-12	15:40	Furnace Disturbance
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
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

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 MAY 2012

All figures in MW

Date	Time of peak demand	Generation within Delhi							Import from the Grid	Schedule from the Grid	OD(-) / UD(+)	Demand met	Shedding	Un-Restricted Demand
		RPH	GT	PPCL	Rithala	Bawana	BTPS	Total						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)= (3) to (8)	(10)	(11)	(12)= (11) - (10)	(13)= (11)+ (12)	(14)	(15)= (13)+ (14)
1	19.26.32	94	110	288	32	297	510	1331	2111	2668	-557	3442	0	3442
2	15.27.47	90	186	280	21	-3	610	1184	2449	2743	-294	3633	5	3638
3	15.31.17	98	217	279	21	20	573	1208	2574	3022	-448	3782	5	3787
4	15.24.12	50	217	276	27	272	487	1329	2459	2933	-474	3788	5	3793
5	15.20.00	102	172	278	31	0	606	1189	2421	2649	-228	3610	5	3615
6	22.53.00	97	191	288	27	-4	557	1156	2583	2731	-148	3739	0	3739
7	14.58.33	101	182	276	-1	23	626	1207	2857	2876	-19	4064	0	4064
8	16.02.53	99	180	274	24	273	579	1429	2858	2695	163	4287	0	4287
9	15.41.10	99	178	273	20	249	587	1406	2984	3131	-147	4390	0	4390
10	15.28.46	95	190	269	31	236	623	1444	3189	3179	10	4633	7	4640
11	15.05.49	102	223	280	29	247	600	1481	2996	3322	-326	4477	5	4482
12	15.17.21	101	215	275	28	-4	457	1072	3025	3387	-362	4097	0	4097
13	23.09.09	55	229	291	28	238	534	1375	2404	2487	-83	3779	0	3779
14	19.48.13	55	226	285	29	274	495	1364	2337	2623	-286	3701	0	3701
15	15.12.28	56	218	273	30	279	404	1260	2771	2833	-62	4031	2	4033
16	16.05.36	94	215	264	20	276	403	1272	3158	2919	239	4430	0	4430
17	16.09.35	107	222	277	31	234	413	1284	3065	3067	-2	4349	0	4349
18	23.00.20	103	217	274	31	186	496	1307	3183	3039	144	4490	3	4493
19	00.00.04	103	217	274	31	186	496	1307	2971	2521	450	4278	210	4488
20	23.17.01	104	227	280	31	176	346	1164	3180	3120	60	4344	4	4348
21	15.31.32	104	215	270	33	22	383	1027	3592	3555	37	4619	0	4619
22	15.37.05	104	176	270	32	211	369	1162	3555	3510	45	4717	0	4717
23	16.06.04	94	193	272	32	211	402	1204	3484	3288	196	4688	22	4710
24	15.32.30	51	208	267	32	227	500	1285	3538	3363	175	4823	72	4895
25	15.44.55	49	205	266	32	231	501	1284	3748	3677	71	5032	22	5054
26	15.13.18	49	191	270	31	231	359	1131	3527	3623	-96	4658	4	4662
27	23.18.42	47	222	278	32	23	450	1052	3454	3563	-109	4506	40	4546
28	15.31.24	106	213	130	30	214	446	1139	3624	3793	-169	4763	75	4838
29	15.37.25	100	211	265	29	225	463	1293	3634	3896	-262	4927	12	4939
30	15.23.40	103	172	263	30	203	480	1251	3904	3775	129	5155	38	5193
31	15.28.03	104	201	260	29	229	480	1303	3657	3874	-217	**4960**	110	5070

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

Date	Time of peak demand	Generation within Delhi							Import from the Grid	Schedule from the Grid	OD(-) / UD(+)	Demand met	Shedding	Un-Restricted Demand
		RPH	GT	PPCL	Rithala	Bawana	BTPS	Total						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)= (3) to (8)	(10)	(11)	(12)= (11) - (10)	(13)= (11)+ (12)	(14)	(15)= (13)+ (14)
1	19.26.32	94	110	288	32	297	510	1331	2111	2668	-557	3442	0	3442
2	15.27.47	90	186	280	21	-3	610	1184	2449	2743	-294	3633	5	3638
3	15.31.17	98	217	279	21	20	573	1208	2574	3022	-448	3782	5	3787
4	15.24.12	50	217	276	27	272	487	1329	2459	2933	-474	3788	5	3793
5	15.20.00	102	172	278	31	0	606	1189	2421	2649	-228	3610	5	3615
6	22.53.00	97	191	288	27	-4	557	1156	2583	2731	-148	3739	0	3739
7	14.58.33	101	182	276	-1	23	626	1207	2857	2876	-19	4064	0	4064
8	16.02.53	99	180	274	24	273	579	1429	2858	2695	163	4287	0	4287
9	15.41.10	99	178	273	20	249	587	1406	2984	3131	-147	4390	0	4390
10	15.28.46	95	190	269	31	236	623	1444	3189	3179	10	4633	7	4640
11	15.05.49	102	223	280	29	247	600	1481	2996	3322	-326	4477	5	4482
12	15.17.21	101	215	275	28	-4	457	1072	3025	3387	-362	4097	0	4097
13	23.09.09	55	229	291	28	238	534	1375	2404	2487	-83	3779	0	3779
14	19.48.13	55	226	285	29	274	495	1364	2337	2623	-286	3701	0	3701
15	15.12.28	56	218	273	30	279	404	1260	2771	2833	-62	4031	2	4033
16	16.05.36	94	215	264	20	276	403	1272	3158	2919	239	4430	0	4430
17	16.09.35	107	222	277	31	234	413	1284	3065	3067	-2	4349	0	4349
18	23.00.20	103	217	274	31	186	496	1307	3183	3039	144	4490	3	4493
19	00.00.04	103	217	274	31	186	496	1307	2971	2521	450	4278	210	4488
20	23.17.01	104	227	280	31	176	346	1164	3180	3120	60	4344	4	4348
21	15.31.32	104	215	270	33	22	383	1027	3592	3555	37	4619	0	4619
22	15.37.05	104	176	270	32	211	369	1162	3555	3510	45	4717	0	4717
23	16.00.00	94	190	270	32	210	392	1189	3377	3288	89	4566	162	4728
24	15.32.30	51	208	267	32	227	500	1285	3538	3363	175	4823	72	4895
25	15.44.55	49	205	266	32	231	501	1284	3748	3677	71	5032	22	5054
26	15.13.18	49	191	270	31	231	359	1131	3527	3623	-96	4658	4	4662
27	23.18.42	47	222	278	32	23	450	1052	3454	3563	-109	4506	40	4546
28	15.31.24	106	213	130	30	214	446	1139	3624	3793	-169	4763	75	4838
29	15.37.25	100	211	265	29	225	463	1293	3634	3896	-262	4927	12	4939
30	15.23.40	103	172	263	30	203	480	1251	3904	3775	129	5155	38	5193
31	15.28.03	104	201	260	29	229	480	1303	3657	3874	-217	4960	110	5070

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

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

A (i) RPH	68.548
(ii) GT+STG	158.533
(iii) PRAGATI	214.310
(iv) RITHALA	21.655
(v) BAWANA CCGT	137.638
TOTAL	600.684
B) AVAILABILITY FROM BTPS	370.683
C) AUXILIARY CONSUMPTION OF GENERATING STNs. EXCLUDING BTPS	25.181
D) NET GENERATION AVAILABLE WITHIN DELHI(A+B-C)	**946.186**

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	11.774	11.484	11.774	11.484
SALAL	41.577	40.553	41.577	40.553
TANKAPUR	4.007	3.908	4.007	3.908
CHAMERA	21.452	20.923	21.452	20.923
CHAMERA -II	22.904	22.339	22.904	22.339
DHAULIGANGA	12.894	12.576	12.894	12.576
SEWA -2	7.927	7.731	7.927	7.731
URI	39.550	38.574	39.550	38.574
KOTESHWAR	8.056	7.857	8.056	7.857
MUNDRA_UMPP	0.000	0.000	0.000	0.000
ANTA (GAS)	17.441	17.011	16.289	15.888
ANTA (RLNG)	12.584	12.273	0.770	0.751
ANTA (LIQUID)	0.000	0.000	0.000	0.000
DADRI (GAS)	39.710	38.731	36.932	36.021
DADRI (RLNG)	23.507	22.926	1.697	1.654
DADRI (LIQUID)	0.000	0.000	0.000	0.000
AURAIYA (GAS)	22.050	21.505	20.604	20.093
AURAIYA (RLNG)	23.858	23.270	1.336	1.302
AURAIYA (LIQUID)	2.683	2.617	0.000	0.000
SINGRAULI	87.089	84.935	87.059	84.905
RIHAND -I	65.639	64.020	65.615	63.997
RIHAND -II	86.937	84.792	86.902	84.758
UNCHAHAR-I	16.704	16.292	16.326	15.923
UNCHAHAR-II	33.600	32.771	32.852	32.041
UNCHAHAR-III	20.601	20.093	20.136	19.639
DADRI (TH)	439.406	428.556	417.980	407.657
DADRI (TH) STAGE-II	477.606	465.839	463.978	452.542
NAPP	14.920	14.553	14.920	14.553
RAPP 'B'	0.000	0.000	0.000	0.000
RAPP 'C'	31.170	30.403	31.170	30.403
NATHPA JHAKRI	62.488	60.948	62.488	60.948
DULASTI	34.190	33.347	34.190	33.347
TEHRI	16.518	16.111	16.518	16.111
JHAJJAR	113.629	110.814	26.458	25.803
KHELGAON	30.341	29.593	29.325	28.601
KHELGAON-II	100.276	97.801	97.538	95.130
FARAKA	13.743	13.405	12.229	11.928
TALA	4.580	4.466	4.580	4.466
TALCHER	0.000	0.000	0.000	0.000
DVC	171.017	168.791	168.791	164.626
CHATTISHGARH	118.837	117.017	117.017	114.131
ANDHRA	0.000	0.000	0.000	0.000
DVC TATA STEEL	4.062	4.008	4.008	3.908
DVC CTPS (BRPL)	38.269	37.772	37.772	36.842
DVC CTPS (BYPL)	23.913	23.603	23.603	23.022
DVC CTPS (NDPL)	25.619	25.287	25.287	24.664
DVC METHON (NDPL)	45.553	44.973	44.973	43.877
DVC MEJIA (LT-08)(BYPL)	70.351	69.441	69.441	67.734

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
ORISSA	74.918	73.940	73.940	72.111
GUJRAT	0.129	0.127	0.127	0.123
HIMACHAL PRADESH	10.835	10.726	10.726	10.463
WEST BENGAL	1.716	1.694	1.694	1.651
MADHYA PRADESH(WR)	20.130	19.754	19.754	19.261
MADHYA PRADESH(WR-ER)	0.000	0.000	0.000	0.000
HARYANA (FOR NDPL) LT-05	13.162	12.985	12.985	12.657
HARYANA	0.000	0.000	0.000	0.000
PUNJAB	0.000	0.000	0.000	0.000
URS	0.030	0.030	0.030	0.030
GOA	0.000	0.000	0.000	0.000
MAHARASHTRA	0.000	0.000	0.000	0.000
MEGHALAYA	0.000	0.000	0.000	0.000
TO CHHATISHGARH	0.000	0.000	0.000	0.000
TO WEST BENGAL	0.000	0.000	0.000	0.000
TO MADHYA PRADESH	0.000	0.000	0.000	0.000
TO JAMMU & KASHMIR	0.000	0.000	0.000	0.000
TO JHARKHAND	-0.476	-0.481	-0.481	-0.494
TO RAJASTHAN	0.000	0.000	0.000	0.000
POWER EXCHANGE(IEX)	2.414	2.354	2.414	2.354
TO POWER EXCHANGE (IEX)	-187.702	-192.442	-187.702	-192.442
POWRER EXCHANGE(PX)	0.750	0.731	0.750	0.731
TO POWER EXCHANGE (PX)	-18.258	-18.717	-18.258	-18.717
TO SHARE PROJECT (HARYANA)	-18.025	-18.482	-18.025	-18.482
TO SHARE PROJECT (PUNJAB)	-2.743	-2.813	-2.743	-2.813
TOTAL	**2355.911**	**2293.315**	**2154.138**	**2089.647**

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	1369.414	1335.629	1268.477	1237.172
NTPC - ER	144.361	140.799	139.092	135.659
NHPC	196.274	191.435	196.274	191.435
NPC	46.089	44.956	46.089	44.956
KOTESHWAR	8.056	7.857	8.056	7.857
MUNDRA_UMPP	0.000	0.000	0.000	0.000
NATHPA JHAKRI	62.488	60.948	62.488	60.948
TEHRI	16.518	16.111	16.518	16.111
TALA	4.580	4.466	4.580	4.466
JHAJJAR	113.629	110.814	26.458	25.803
TALCHER	0.000	0.000	0.000	0.000
DVC	171.017	168.791	168.791	164.626
CHATTISHGARH	118.837	117.017	117.017	114.131
ANDHRA	0.000	0.000	0.000	0.000
DVC TATA STEEL	4.062	4.008	4.008	3.908
DVC CTPS (BRPL)	38.269	37.772	37.772	36.842
DVC CTPS (BYPL)	23.913	23.603	23.603	23.022
DVC CTPS (NDPL)	25.619	25.287	25.287	24.664
DVC METHON (NDPL)	45.553	44.973	44.973	43.877
DVC MEJIA (LT-08)(BYPL)	70.351	69.441	69.441	67.734
ORISSA	74.918	73.940	73.940	72.111
GUJRAT	0.129	0.127	0.127	0.123
HIMACHAL PRADESH	10.835	10.726	10.726	10.463
WEST BENGAL	1.716	1.694	1.694	1.651
MADHYA PRADESH(WR)	20.130	19.754	19.754	19.261
MADHYA PRADESH(WR-ER)	0.000	0.000	0.000	0.000
HARYANA (FOR NDPL) LT-05	13.162	12.985	12.985	12.657
HARYANA	0.000	0.000	0.000	0.000
PUNJAB	0.000	0.000	0.000	0.000
URS	0.030	0.030	0.030	0.030
POWER EXCHANGE(IEX)	2.414	2.354	2.414	2.354
POWER EXCHANGE(PX)	0.750	0.731	0.750	0.731
TOTAL	**2583.115**	**2526.250**	**2381.348**	**2322.594**

D) AGENCY WISE BREAKUP OF ENERGY SCHEDULED BY NRLDC FOR EXPORT TO OTHER UTILITIES FROM DTL

NAME OF THE STATION	AVAILABILITY AT POWER PLANT	AVAILABILITY AT PERIPHERY	ALLOCATION MADE BY NRLDC AT POWER PLANT	ALLOCATION MADE BY NRLDC AT POWER PERIPHERY
TO CHHATISHGARH	0.000	0.000	0.000	0.000
TO MADHYA PRADESH	0.000	0.000	0.000	0.000
TO WEST BENGAL	0.000	0.000	0.000	0.000
TO JAMMU & KASHMIR	0.000	0.000	0.000	0.000
TO JHARKHAND	-0.476	-0.481	-0.481	-0.494
TO RAJASTHAN	0.000	0.000	0.000	0.000
TO HIMACHAL PRADESH	0.000	0.000	0.000	0.000
TO KERALA(ER)	0.000	0.000	0.000	0.000
TO UTTAR PRADESH	0.000	0.000	0.000	0.000
TO POWER EXCHANGE (IEX)	-187.702	-192.442	-187.702	-192.442
TO POWER EXCHANGE (PX)	-18.258	-18.717	-18.258	-18.717
TO SHARE PROJECT (HARYANA)	-18.025	-18.482	-18.025	-18.482
TO SHARE PROJECT (PUNJAB)	-2.743	-2.813	-2.743	-2.813
TOTAL	**-227.204**	**-232.935**	**-227.209**	**-232.947**
TOTAL SCHEDULED DRAWAL FROM THE GRID	**2355.911**	**2293.315**	**2154.138**	**2089.647**
TOTAL CONSUMPTION INCLUDING AUX. OF GENERATING STNs. EXCLUDING BTPS				2684.263
NET CONSUMPTION				2659.082
AVAILABILITY WITHIN DELHI				946.186
ACTUAL DRAWAL FROM THE GRID				1712.896
OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID ON THE BASIS OF SCHEDULED ALLOCATION MADE BY NRLDC TO DELHI AT PERIPHERY				-376.751
LOAD SHEDDING				**11.286**
UNRESTRICTED DEMAND (GROSS)				**2695.549**
UNRESTRICTED DEMAND (NET)				**2670.368**
MAX. NET CONSUMPTION				99.239Mus. ON 31.05.2012
MAX. LOAD SHEDDING				916MW ON 12.05.2012 AT 18.00HRS.
PEAK LOAD	Peak Demand during the month			SHEDDING AT PEAK TIME
DAY PEAK	5155MW AT 15.23.40HRS ON 30.05.2012			38MW
EVENING PEAK	4751MW AT 22.30.20HRS ON 25.05.2012			9MW
P.L.F. OF GENCO AND PRAGATI STNs.	RPH			68.25%
	GT			78.92%
	PRAGATI			87.29%
	RITHALA			26.95%
	BAWANA			85.57%

9 SHEDDING DETAILS DURING THE MONTH OF MAY 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-May-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2- May -12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3- May -12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.024	0.000
4- May -12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5- May -12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6- May -12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7- May -12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8- May -12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9- May -12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-May 12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-May-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-May-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13-May-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14-May-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15-May-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16-May-12	4	0.290	0.014	0.000	0.000	0.304	0.000	0.000	0.000	0.000
17-May-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18-May-12	1	0.000	0.000	0.002	0.000	0.002	0.014	0.105	0.170	0.000
19-May-12	0	0.000	0.000	0.000	0.000	0.000	0.242	0.815	1.214	0.000
20-May-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000
21-May-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22-May-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.039	0.000
23-May-12	0	0.000	0.000	0.000	0.000	0.000	0.292	0.000	0.000	0.000
24-May 12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25-May-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.091	0.000
26-May-12	1	0.000	0.141	0.000	0.000	0.141	0.000	0.000	0.093	0.000
27-May-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.000
28-May12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29-May-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30-May-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31-May-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	**6**	**0.290**	**0.155**	**0.002**	**0.000**	**0.447**	**0.548**	**0.920**	**1.646**	**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-May-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
2- May -12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
3- May -12	0.000	0.000	0.000	0.000	**0.024**	**0.024**	0.000	0.000	0.000	0.000	0.000
4- May -12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.001	0.000	0.000
5- May -12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
6- May -12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
7- May -12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.049	0.024	0.000	0.000
8- May -12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.019	0.000	0.000
9- May -12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.303	0.008	0.000	0.000
10-May 12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.050	0.001	0.000	0.000
11-May-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
12-May-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.700	0.000	0.433	0.022	0.000
13-May-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.008	0.000	0.009	0.002	0.000
14-May-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.000	0.000	0.000	0.000
15-May-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.065	0.000	0.000	0.000
16-May-12	0.000	0.000	0.000	0.000	**0.000**	**0.304**	0.188	0.002	0.000	0.022	0.000
17-May-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.001	0.071	0.003	0.000	0.000
18-May-12	0.000	0.000	0.000	0.000	**0.289**	**0.291**	0.000	0.001	0.001	0.000	0.000
19-May-12	0.000	0.000	0.000	0.000	**2.271**	**2.271**	0.000	0.000	0.071	0.000	0.000
20-May-12	0.000	0.000	0.000	0.000	**0.010**	**0.010**	0.000	0.004	0.045	0.000	0.000
21-May-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.005	0.017	0.000	0.000
22-May-12	0.000	0.000	0.000	0.000	**0.039**	**0.039**	0.000	0.000	0.000	0.000	0.000
23-May-12	0.000	0.000	0.000	0.000	**0.292**	**0.292**	0.000	0.000	0.000	0.000	0.000
24-May 12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.029	0.000	0.000	0.000
25-May-12	0.000	0.000	0.000	0.000	**0.091**	**0.091**	0.000	0.000	0.000	0.000	0.000
26-May-12	0.000	0.000	0.000	0.000	**0.093**	**0.234**	0.022	0.000	0.026	0.000	0.000
27-May-12	0.000	0.000	0.000	0.000	**0.005**	**0.005**	0.067	0.009	0.012	0.000	0.000
28-May12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.013	0.090	0.000	0.054	0.000
29-May-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.004	0.000	0.000	0.000
30-May-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	0.078	0.035	0.000	0.000
31-May-12	0.000	0.000	0.000	0.000	**0.000**	**0.000**	0.000	1.362	0.010	0.014	0.000
TOTAL	**0.000**	**0.000**	**0.000**	**0.000**	**3.114**	**3.561**	**0.999**	**2.122**	**0.715**	**0.114**	**0.000**

ALL FIGURES IN MUs

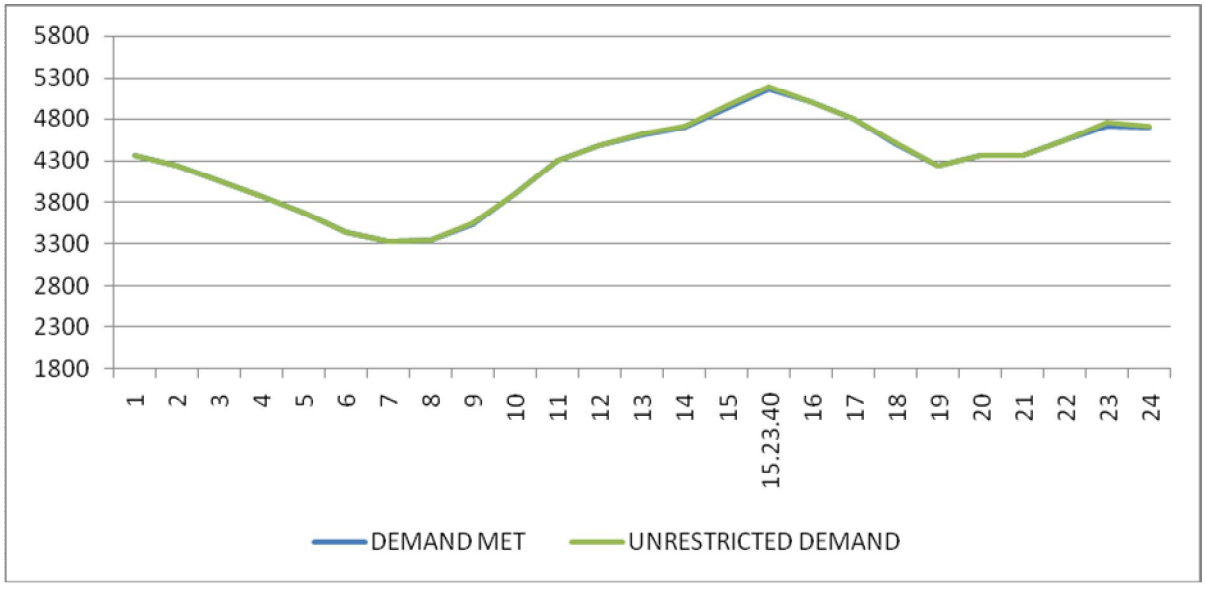
DATE	DUE TO T&D CONTRAINTS				OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.	THEFT PRONE SHEDDING			TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE	GRAND TOTAL
	DISCOMS									
	BSES		NDPL	NDMC		BSES		NDPL		
	BYPL	BRPL				BYPL	BRPL			
1	23	24	25		26	27	28	29	30=18 to29	31=30+17
1-May-12	0.000	0.036	0.000	0.000	0.000	0.000	0.000	0.133	**0.169**	**0.169**
2- May -12	0.003	0.001	0.001	0.000	0.000	0.000	0.000	0.139	**0.144**	**0.144**
3- May -12	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.134	**0.137**	**0.161**
4- May -12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.138	**0.139**	**0.139**
5- May -12	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.144	**0.149**	**0.149**
6- May -12	0.024	0.000	0.001	0.000	0.000	0.000	0.000	0.062	**0.087**	**0.087**
7- May -12	0.001	0.017	0.002	0.000	0.000	0.000	0.000	0.000	**0.093**	**0.093**
8- May -12	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	**0.021**	**0.021**
9- May -12	0.051	0.043	0.001	0.000	0.000	0.000	0.000	0.000	**0.406**	**0.406**
10-May 12	0.037	0.349	0.009	0.000	0.000	0.000	0.000	0.000	**0.446**	**0.446**
11-May-12	0.055	0.000	0.002	0.000	0.002	0.000	0.000	0.000	**0.059**	**0.059**
12-May-12	0.033	0.123	0.206	0.000	0.000	0.000	0.000	0.000	**1.517**	**1.517**
13-May-12	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	**0.025**	**0.025**
14-May-12	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	**0.002**	**0.002**
15-May-12	0.002	0.016	0.003	0.000	0.000	0.000	0.000	0.000	**0.086**	**0.086**
16-May-12	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	**0.216**	**0.520**
17-May-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.075**	**0.075**
18-May-12	0.008	0.005	0.000	0.000	0.000	0.000	0.000	0.000	**0.015**	**0.306**
19-May-12	0.048	0.064	0.003	0.000	0.000	0.000	0.000	0.000	**0.186**	**2.457**
20-May-12	0.065	0.001	0.007	0.000	0.000	0.000	0.000	0.000	**0.122**	**0.132**
21-May-12	0.009	0.022	0.055	0.000	0.000	0.000	0.000	0.000	**0.108**	**0.108**
22-May-12	0.002	0.023	0.000	0.000	0.000	0.000	0.000	0.000	**0.025**	**0.064**
23-May-12	0.003	0.074	0.000	0.000	0.011	0.000	0.000	0.000	**0.088**	**0.380**
24-May 12	0.013	0.074	0.000	0.000	0.000	0.000	0.000	0.000	**0.116**	**0.116**
25-May-12	0.026	0.149	0.001	0.000	0.037	0.000	0.000	0.000	**0.213**	**0.304**
26-May-12	0.006	0.250	0.005	0.000	0.289	0.000	0.000	0.000	**0.598**	**0.832**
27-May-12	0.000	0.064	0.001	0.000	0.000	0.000	0.000	0.000	**0.153**	**0.158**
28-May12	0.000	0.051	0.006	0.000	0.014	0.000	0.000	0.000	**0.228**	**0.228**
29-May-12	0.012	0.088	0.040	0.000	0.000	0.000	0.000	0.000	**0.144**	**0.144**
30-May-12	0.009	0.174	0.006	0.000	0.015	0.000	0.000	0.000	**0.317**	**0.317**
31-May-12	0.090	0.146	0.019	0.000	0.000	0.000	0.000	0.000	**1.641**	**1.641**
TOTAL	**0.497**	**1.775**	**0.385**	**0.000**	0.368	**0.000**	**0.000**	**0.750**	**7.725**	**11.286**

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-May-12	69.634	3442	19:26:32	0	3442	3442	19:28:26	3442	0
2- May -12	72.576	3633	15:27:47	5	3638	3638	19:23:19	3633	5
3- May -12	76.652	3782	15:31:17	5	3787	3787	19:07:14	3782	5
4- May -12	78.153	3786	15:24:12	5	3791	3791	19:27:32	3786	5
5- May -12	76.360	3610	15:20:00	5	3615	3615	19:33:39	3610	5
6- May -12	74.280	3739	22:53:00	0	3739	3739	19:25:15	3739	0
7- May -12	82.219	4064	14:58:33	0	4064	4064	19:20:52	4064	0
8- May -12	85.496	4287	16:02:53	0	4287	4287	19:20:58	4287	0
9- May -12	87.457	4390	15:41:10	0	4390	4390	15:27:47	4390	0
10-May 12	89.943	4633	15:28:46	7	4640	4640	15:46:48	4633	7
11-May-12	87.873	4477	15:05:49	5	4482	4482	19:17:17	4477	5
12-May-12	76.163	4097	15:17:21	0	4097	4097	19:14:28	4097	0
13-May-12	73.347	3779	23:09:09	0	3779	3779	19:26:15	3779	0
14-May-12	78.689	3701	19:48:13	0	3701	3701	19:39:27	3701	0
15-May-12	79.684	4031	15:12:28	2	4033	4033	19:51:00	4031	2
16-May-12	86.292	4430	16:05:36	0	4430	4430	19:19:54	4430	0
17-May-12	89.514	4349	16:09:35	0	4349	4349	19:25:29	4349	0
18-May-12	89.618	4490	23:00:20	3	4493	4493	19:33:45	4490	3
19-May-12	84.546	4278	00:00:04	210	4488	4488	19:30:20	4278	210
20-May-12	83.898	4344	23:17:01	4	4348	4348	15:29:30	4344	4
21-May-12	91.209	4619	15:31:32	0	4619	4619	19:34:26	4619	0
22-May-12	92.784	4717	15:37:05	0	4717	4717	19:39:29	4717	0
23-May-12	92.773	4688	16:04:04	22	4710	4728	19:44:16	4566	162
24-May 12	93.939	4823	15:32:30	72	4895	4895	15:05:24	4823	72
25-May-12	97.191	5032	15:44:55	22	5054	5054	19:33:44	5032	22
26-May-12	93.073	4658	15:13:18	4	4662	4662	12:30	4658	4
27-May-12	88.933	4506	23:18:42	40	4546	4546	19:19:15	4506	40
28-May12	94.150	4763	15:31:24	75	4838	4838	19:28:09	4763	75
29-May-12	96.553	4927	15:37:25	12	4939	4939	22:57:03	4927	12
30-May-12	96.844	5155	15:23:40	38	5193	5193	11:15:45	5155	38
31-May-12	99.239	4960	15:28:03	110	5070	5118	16:00	4826	292
Total	**2659.082**	**5155** 30.05.2012	15.23.40	38	**5193** 30.05.2012	**5193**	15.23.40	5155	38

10 LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING MAY 2012 ON 30.05.2012- 5155MW at 15.23.40HRS.

All figures in MW

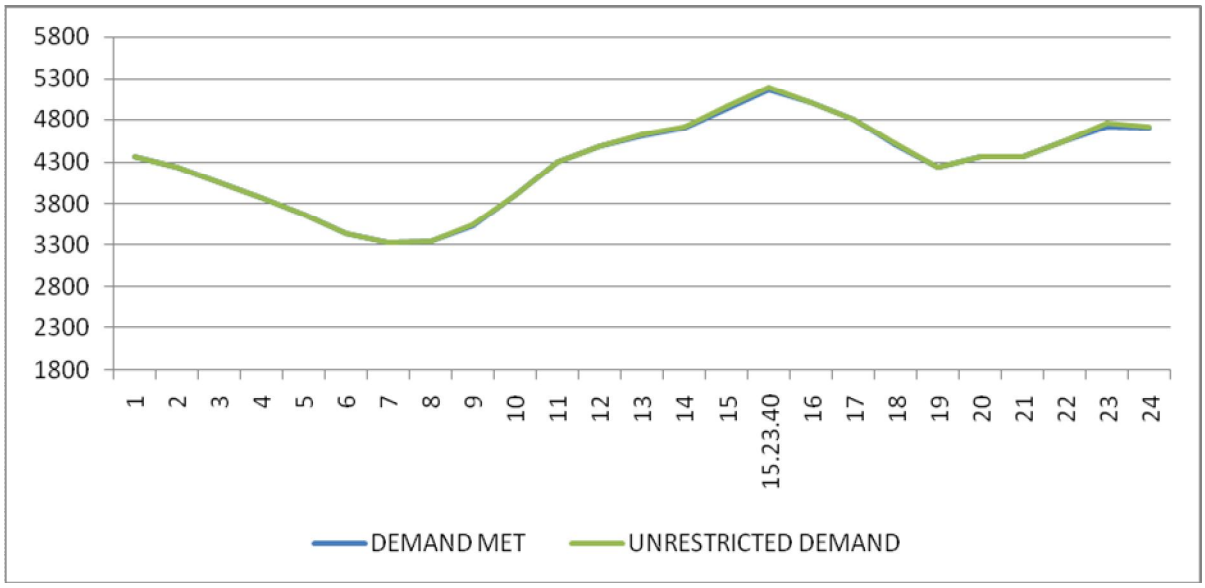
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	4355	6	4361
2.00	4235	2	4237
3.00	4058	0	4058
4.00	3871	0	3871
5.00	3673	0	3673
6.00	3445	0	3445
7.00	3329	0	3329
8.00	3344	0	3344
9.00	3523	22	3545
10.00	3897	3	3900
11.00	4291	3	4294
12.00	4481	3	4484
13.00	4607	6	4613
14.00	4704	3	4707
15.00	4924	27	4951
15.23.40	5155	38	5193
16.00	5003	7	5010
17.00	4800	8	4808
18.00	4502	5	4507
19.00	4235	0	4235
20.00	4359	1	4360
21.00	4358	4	4362
22.00	4542	4	4546
23.00	4707	48	4755
24.00	4704	15	4719
ENERGY IN MUS	**96.844**	**0.317**	**97.161**



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING MAY 2012 ON 30.05.2012- 5193MW at 15.23.40HRS.

All figures in MW

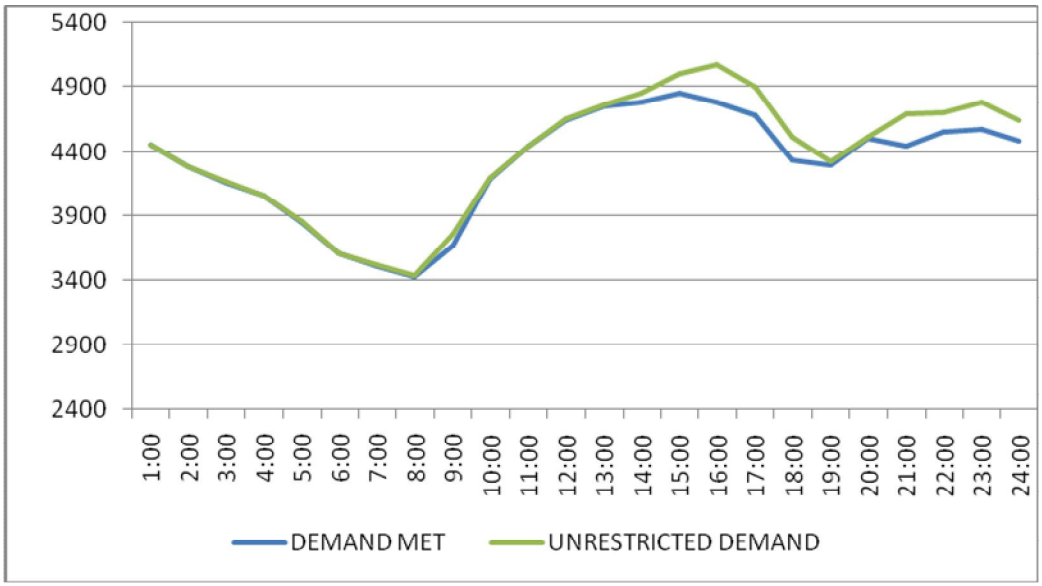
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	4355	6	4361
2.00	4235	2	4237
3.00	4058	0	4058
4.00	3871	0	3871
5.00	3673	0	3673
6.00	3445	0	3445
7.00	3329	0	3329
8.00	3344	0	3344
9.00	3523	22	3545
10.00	3897	3	3900
11.00	4291	3	4294
12.00	4481	3	4484
13.00	4607	6	4613
14.00	4704	3	4707
15.00	4924	27	4951
15.23.40	5155	38	5193
16.00	5003	7	5010
17.00	4800	8	4808
18.00	4502	5	4507
19.00	4235	0	4235
20.00	4359	1	4360
21.00	4358	4	4362
22.00	4542	4	4546
23.00	4707	48	4755
24.00	4704	15	4719
ENERGY IN MUS	**96.844**	**0.317**	**97.161**



12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING MAY 2012 – 31.05.2012 – 99.239 Mus

All figures in MW

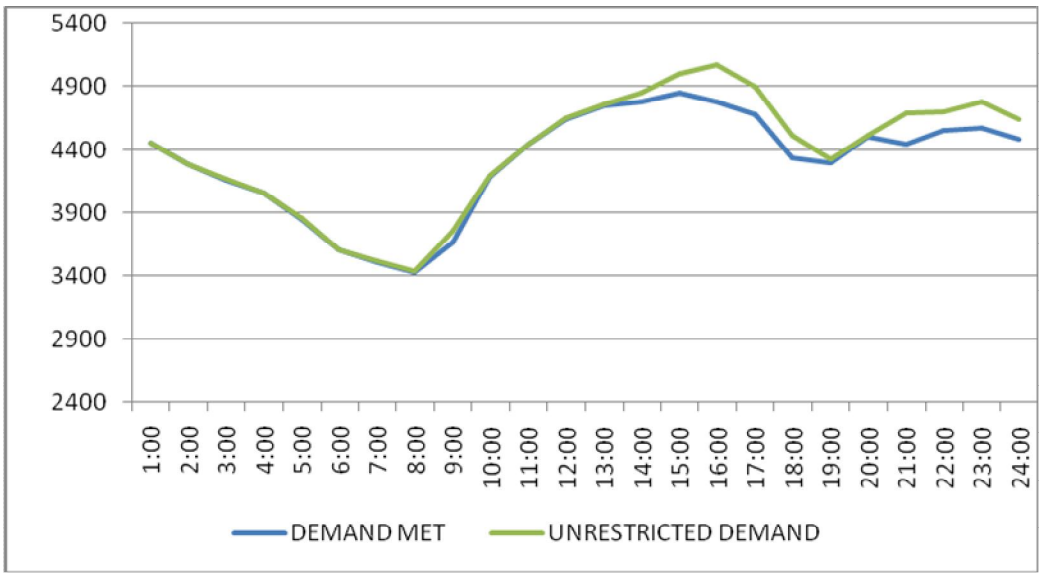
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1:00	4458	0	4458
2:00	4282	0	4282
3:00	4160	2	4162
4:00	4055	5	4060
5:00	3851	5	3856
6:00	3612	2	3614
7:00	3512	4	3516
8:00	3432	10	3442
9:00	3672	90	3762
10:00	4182	10	4192
11:00	4442	5	4447
12:00	4642	6	4648
13:00	4756	6	4762
14:00	4779	70	4849
15:00	4849	146	4995
16:00	4778	288	5066
17:00	4687	213	4900
18:00	4338	176	4514
19:00	4297	31	4328
20:00	4503	11	4514
21:00	4440	253	4693
22:00	4553	151	4704
23:00	4574	211	4785
24:00	4479	168	4647
ENERGY IN MUS	**99.239**	**1.641**	**100.880**



13 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING MAY 2012 – 31.05.2012 – 100.880 Mus

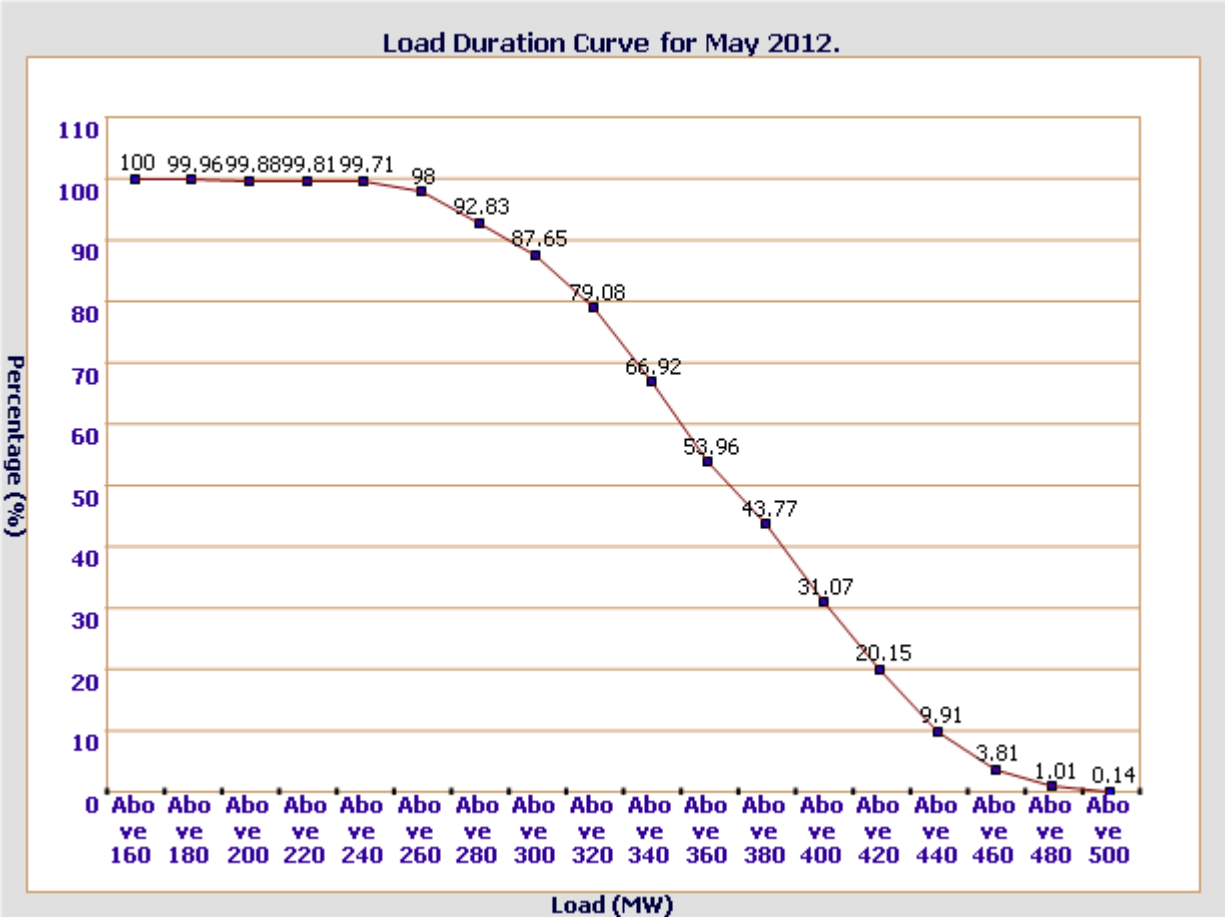
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
1:00	4458	0	4458
2:00	4282	0	4282
3:00	4160	2	4162
4:00	4055	5	4060
5:00	3851	5	3856
6:00	3612	2	3614
7:00	3512	4	3516
8:00	3432	10	3442
9:00	3672	90	3762
10:00	4182	10	4192
11:00	4442	5	4447
12:00	4642	6	4648
13:00	4756	6	4762
14:00	4779	70	4849
15:00	4849	146	4995
16:00	4778	288	5066
17:00	4687	213	4900
18:00	4338	176	4514
19:00	4297	31	4328
20:00	4503	11	4514
21:00	4440	253	4693
22:00	4553	151	4704
23:00	4574	211	4785
24:00	4479	168	4647
ENERGY IN MUS	**99.239**	**1.641**	**100.880**



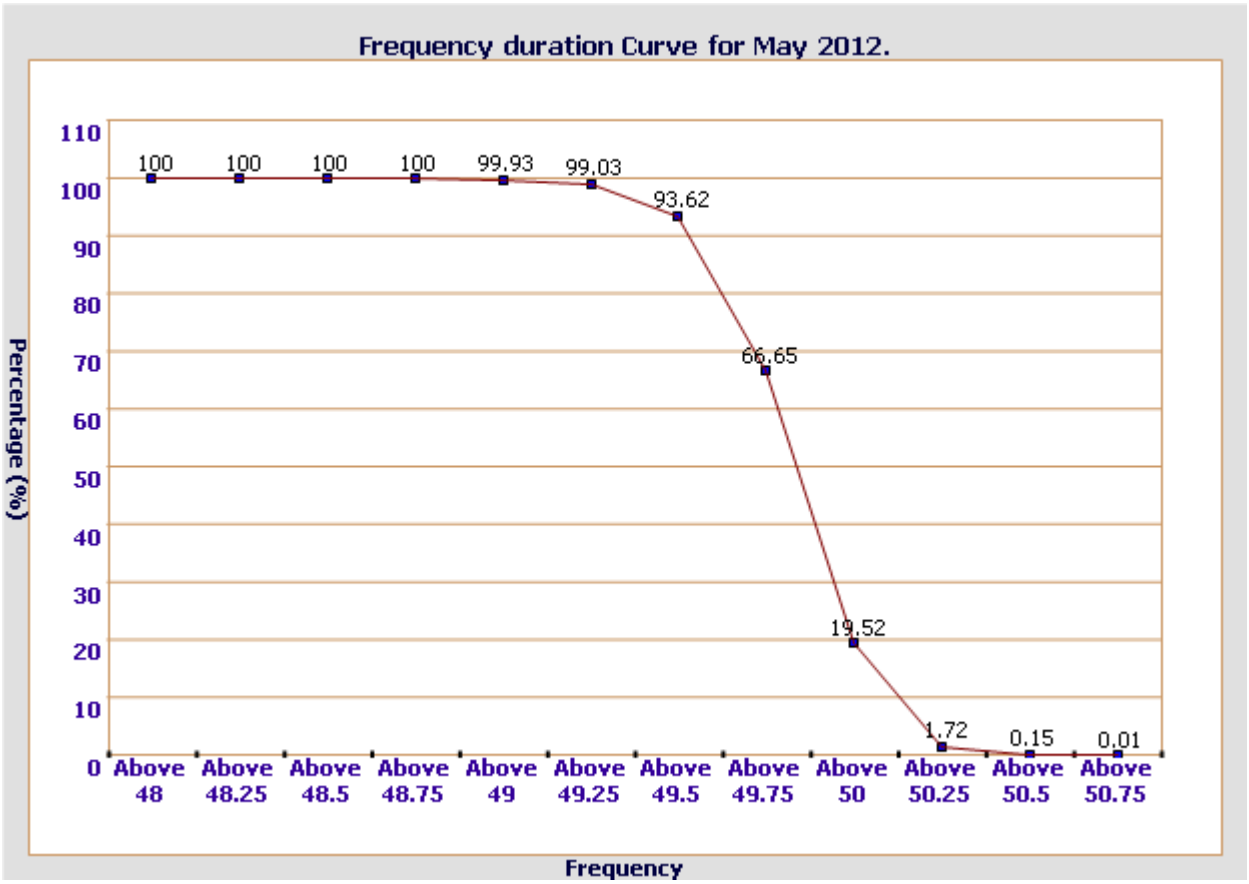
14 LOAD DURATION CURVE FOR MAY 2012

Load in MW	Percentage of Time
1600	100 %
Above 1800	99.96 %
Above 2000	99.88 %
Above 2200	99.81 %
Above 2400	99.71 %
Above 2600	98 %
Above 2800	92.83 %
Above 3000	87.65 %
Above 3200	79.08 %
Above 3400	66.92 %
Above 3600	53.96 %
Above 3800	43.77 %
Above 4000	31.07 %
Above 4200	20.15 %
Above 4400	9.91 %
Above 4600	3.81 %
Above 4800	1.01 %
Above 5000	0.14 %



15 FREQUENCY ANALYSIS FOR THE MONTH OF MAY 2012

Frequency Range in Hz.	Percentage of time
Above 48.75	100 %
Above 49	99.93 %
Above 49.25	99.03 %
Above 49.5	93.62 %
Above 49.75	66.65 %
Above 50	19.52 %
Above 50.25	1.72 %
Above 50.5	0.15 %
Above 50.75	0.01 %



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

All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
1-May-12	228.02	217.70	232.02	220.80
2- May -12	223.38	217.18	228.02	221.05
3- May -12	224.02	215.64	228.15	220.15
4- May -12	222.86	215.25	226.60	217.70
5- May -12	221.70	215.12	225.70	216.93
6- May -12	224.28	214.09	228.53	216.54
7- May -12	222.47	211.77	226.86	214.48
8- May -12	223.76	210.61	228.02	212.15
9- May -12	224.28	212.54	227.37	213.44
10-May 12	226.60	212.67	228.66	215.25
11-May-12	224.15	213.44	229.18	217.06
12-May-12	232.02	213.96	233.18	--
13-May-12	224.92	214.48	228.28	215.38
14-May-12	223.50	214.09	226.60	217.18
15-May-12	223.76	214.35	228.02	216.54
16-May-12	222.09	208.54	226.08	--
17-May-12	225.70	213.32	232.02	214.99
18-May-12	223.63	212.54	226.60	216.54
19-May-12	223.50	212.15	226.08	215.64
20-May-12	223.76	212.67	226.99	214.09
21-May-12	223.50	207.51	226.08	213.32
22-May-12	221.57	210.74	226.08	214.09
23-May-12	225.70	213.44	228.02	214.48
24-May 12	223.38	214.09	226.08	215.12
25-May-12	223.63	212.80	225.70	214.48
26-May-12	224.28	211.38	226.60	210.74
27-May-12	223.12	213.06	226.34	213.19
28-May12	224.02	213.32	224.02	214.99
29-May-12	224.28	213.19	225.44	216.28
30-May-12	224.15	212.80	226.21	213.96
31-May-12	224.15	212.03	226.08	213.96

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

All figures in kV

Date	400kV Bamnauli Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
1-May-12	419.50	04.00.22	398.63	18.05.17	410.11
2- May -12	410.12	22.55.40	398.63	12.50.39	405.37
3- May -12	411.30	03.48.05	396.99	18.24.57	405.27
4- May -12	407.78	07.03.36	395.58	16.40.26	400.89
5- May -12	407.31	07.04.44	393.71	00.10.23	401.38
6- May -12	411.06	08.03.13	392.07	23.07.41	403.59
7- May -12	408.95	18.46.15	388.55	15.34.45	399.17
8- May -12	411.06	06.52.53	386.20	15.22.11	398.92
9- May -12	411.53	07.00.42	390.43	22.33.13	400.18
10-May 12	414.34	18.46.06	390.89	22.42.14	400.29
11-May-12	412.70	07.05.11	393.71	14.19.56	402.37
12-May-12	425.13	18.33.33	392.07	14.57.59	404.62
13-May-12	415.05	18.02.51	395.82	22.18.46	405.98
14-May-12	411.53	07.01.06	397.23	09.53.06	404.29
15-May-12	411.53	06.45.08	394.88	14.32.56	402.91
16-May-12	407.54	06.59.26	3899.96	15.36.44	399.78
17-May-12	418.56	04.01.37	392.77	14.16.39	401.39
18-May-12	411.06	06.04.02	391.36	11.07.50	400.38
19-May-12	410.12	19.01.26	390.43	10.07.07	401.76
20-May-12	412.23	05.33.52	392.07	23.08.50	401.34
21-May-12	410.12	06.13.05	386.44	14.15.57	398.82
22-May-12	408.48	08.03.57	386.91	16.49.00	397.93
23-May-12	412.23	05.29.50	391.60	16.53.57	400.29
24-May 12	407.31	05.47.17	390.43	16.50.44	399.59
25-May-12	407.31	19.01.15	386.91	16.30.57	397.76
26-May-12	408.72	06.02.00	386.44	15.51.01	397.12
27-May-12	410.36	15.05.06	389.96	23.07.12	399.01
28-May12	408.72	18.49.16	388.78	14.28.01	397.02
29-May-12	409.65	06.59.26	390.19	11.26.28	397.74
30-May-12	409.18	06.02.46	390.19	22.49.08	398.22
31-May-12	408.01	19.05.55	389.02	00.10.02	397.01

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
1-May-12	423.96	04.00.22	404.03	18.06.47	415.11
2- May -12	415.52	16.47.42	404.49	09.13.05	410.65
3- May -12	415.75	00.27.55	403.32	12.13.44	410.68
4- May -12	413.17	18.02.14	401.68	27.07.56	406.66
5- May -12	412.47	18.46.51	399.10	00.11.03	406.81
6- May -12	415.75	08.03.13	398.63	23.07.31	408.67
7- May -12	414.81	18.46.25	395.82	15.33.35	405.05
8- May -12	415.98	06.53.03	393.24	15.22.41	404.55
9- May -12	415.98	07.00.42	396.99	22.33.13	405.59
10-May 12	418.56	18.45.26	379.40	00.05.18	405.40
11-May-12	416.92	07.02.00	399.34	14.41.38	407.52
12-May-12	427.47	17.27.28	398.40	14.56.19	408.65
13-May-12	419.50	18.02.41	400.74	22.19.46	410.81
14-May-12	416.92	18.38.39	402.15	00.15.12	409.62
15-May-12	415.98	06.44.38	401.68	23.07.36	408.90
16-May-12	411.53	06.57.56	396.76	11.25.58	404.85
17-May-12	421.85	04.03.27	398.40	14.16.49	406.40
18-May-12	414.81	06.05.22	398.16	11.09.50	405.21
19-May-12	414.58	19.01.26	396.29	10.08.07	406.37
20-May-12	415.75	05.36.12	397.46	11.12.00	405.53
21-May-12	413.64	06.13.05	390.89	14.15.57	403.22
22-May-12	412.00	08.03.57	393.94	16.49.10	403.18
23-May-12	416.22	05.30.00	398.40	16.15.37	405.36
24-May 12	411.06	05.52.18	397.23	16.50.44	404.58
25-May-12	411.30	19.01.45	393.47	16.30.57	402.34
26-May-12	412.47	06.03.20	392.77	14.30.25	401.94
27-May-12	414.58	18.05.06	395.82	23.09.12	403.56
28-May12	413.64	18.49.16	395.12	14.51.12	401.95
29-May-12	412.70	06.57.56	395.58	11.25.58	402.08
30-May-12	411.53	06.02.46	395.12	22.49.08	401.82
31-May-12	412.70	19.05.55	393.71	01.17.26	401.76

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 MAY 2012

SL NO.	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
01	01.05.12	12.40	220/66KV 100MVA PR.TR.-I AT NARELA	01.05.12	14.53	TR. TRIPPED ON 186, PRV
02	02.05.12	19.11	400KV BAWANA – MUNDKA CKT-I	02.05.12	21.58	BOTH CB OF THE CKT TRIPPED ON 186, POLE DISCREPANCY AT BAWANA. NO TRIPPING AT MUNDKA.
03	04.05.12	14.55	220KV BAMNAULI – NARAINA CKT-I	04.05.12	14.57	CKT. TRIPPED ON DIST PROT AT NARAINA. NO TRIPPING AT BAMNAULI.
04	07.05.12	11.46	400/220KV 315MVA ICT-IV AT MUNDKA	07.05.12	12.44	TR. TRIPPED ON OLTC BUCHLOZ 86A&B, 400KV CB-41652 TRIPPED ON OIL TEMP ALARM, LV SIDE WINDING TEM, LOW OIL LEVEL, HV SIDE WINDING TEMP.LV & HV SIDE TEMP ALARM, BUCHLOZ ALARM AND 220KV CB-21252 TRIPPED ON MASTER TRIP A&B RELAY,
05	07.05.12	12.09	220KV BTPS – OKHLA CKT-I	07.05.12	15.33	CKT. TRIPPED ON 30C, 64DX, DIST PROT ZONE-I, 186 MASTER RELAY AT BTPS. NO TRIPPING AT OKHLA.
06	07.05.12	13.51	220KV BAWANA – SHALIMAR BAGHCKT-II	07.05.12	18.11	CKT. TRIPPED ON CB AUTO TRIP, AUTO RECLOSE LOCK OUT, B&C PHASE, DIST PROT ZONE-II AT BAWANA. FIRE OBSERVED ON BUS ISOLATOR 1689B AT BAWANA.
07	07.05.12	18.43	220KV WAZIRABAD – KASHMIRI GATE CKT-I	07.05.12	20.28	CKT. TRIPPED ON DIST PROT `RYB' PHASE, ZONE-I AT WAZIRABAD. NO TRIPPING AT KASHMIRI GATE.
08	08.05.12	04.04	33/11KV 16MVA PR. TR.-I AT SUBZI MANDI	07.05.12	07.52	TR. TRIPPED ON 86, 87RYB, DIFFERENTIAL.
09	08.05.12	11.10	220KV BAWANA – ROHINI CKT-II	08.05.12	11.21	CKT. TRIPPED ON 186A&B, DIST PROT `A' PHASE AT BAWANA. NO TRIPPING AT ROHINI.
10	08.05.12	11.18	400/220KV 315MVA ICT-V AT BAWANA	08.05.12	15.50	ICT TRIPPED ON 86, DIRECTIONAL O/C.
11	08.05.12	23.26	33/11KV 20MVA PR. TR. AT SHALIMAR BAGH	08.05.12	23.44	TR. TRIPPED ON O/C `R' PHASE
12	09.05.12	03.19	220/66KV 100MVA PR. TR.-II AT NAJAFGARH	09.05.12	23.47	TR. TRIPPED ON 186, 87 ALONG WITH 66KV I/C-II & IV. 66KV I/C-II TRIPPED ON 64RLV AND 66KV I/C-IV TRIPPED ON INTER TRIPPING. 66KV `B' PHASE CT DAMAGED.
13	09.05.12	03.27	220/66KV 100MVA PR. TR.-I AT GAZIPUR	09.05.12	19.10	TR. TRIPPED ON E/F, O/C, TRIP CKT FAULTY ALONG WITH 66KV I/C-I WHICH TRIPPED ON E/F.
14	09.05.12	18.34	220KV MEHRAULI – VASANT KUNJ CKT-I	09.05.12	18.52	CKT. TRIPPED ON DIST PROT ZONE-I, 186A&B, 195 AT MEHRAULI. NO TRIPPING AT VASANT KUNJ.
15	09.05.12	23.19	220/66KV 100MVA PR. TR.-IV AT PAPPANKALAN-I	10.05.12	05.26	TR. TRIPPED ON CB TC HALF FAULTY, 295A ALONG WITH 66KV I/C-IV WHICH TRIPPED ON O/C. 66KV CT OF BINDAPUR CKT-I DAMAGED.
16	09.05.12	23.19	220KV BAMNAULI – PAPPANKALAN-I CKT-I & II	09.05.12	23.42	BOTH CKT. TRIPPED ON DIST PROT `C' PHASE, 186A&B AT BAMNAULI. NO TRIPPING AT PAPPANKALAN-I
17	10.05.12	18.46	220KV BAWANA – NAJAFGARH CKT.	10.05.12	18.50	CKT. TRIPPED ON 186 AT NAJAFGARH. NO TRIPPING AT BAWANA.

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
18	10.05.12	18.46	220KV BAMNAULI – NAJAFGARH CKT-I & II	10.05.12	19.00	BOTH CKTS TRIPPED ON 186 AT NAJAFGARH. NO TRIPPING AT BAMNAULI.
19	10.05.12	18.45	400KV MUNDKA – JHAJJAR CKT-I & II	10.05.12	23.33	THE FOLLOWOING TRIPPING OCCURRED AT MUNDKA 400KV JHAJJAR CKT-I (BOTH CB.): 86A&B, LO 400KV JHAJJAR CKT-II (BOTH CB): 86A&B, LO
20	11.05.12	12.35	220KV MASJID MOTH - MAHARANI BAGH CKT-I	11.05.12	17.20	CKT. TRIPPED ON REL670 AT MAHARANI BAGH END ONLY.
21	12.05.12	16.14	400KV MUNDKA – JHAJJAR CKT-I	12.05.12	18.32	CKT. TRIPPED ON DIST PROT `B' PHASE ZONE-I, 86, LOCK OUT, CHANNEL-I & II BLOCK SIGNAL, AUTO RECLOSE LOCK OUT AT MUNDKA AND ON AUTO RECLOSE LOCK OUT, 86, DIST PROT ZONE-I `B' PHASE, CHANNEL-I & II BLOCKING SIGNAL AT JHAJJAR.
22	12.05.12	16.46	33/11KV 16MVA PR. TR.-I AT SUBZI MANDI	12.05.12	17.08	TR. TRIPPED ON O/C, 86
23	12.05.12	17.07	220KV MANDOLA – GOPALPUR CKT-II	12.05.12	17.56	CKT.TRIPPED ON DIST PROT `B' PHASE ZONE-I AT MANDOLA AND ON DIST PROT `RYB' PHASE ZONE-I AT GOPALPUR
24	12.05.12	17.02	220KV NARELA – ROHTAK ROAD CKT-I	12.05.12	18.49	CKT. TRIPPED ON DIST PROT ZONE-I, 86 AND O/C AT NARELA.
25	12.05.12	17.19	220KV PANIPAT – NARELA CKT-III	12.05.12	19.19	CKT. TRIPPED ON DIST PROT ABC' PHASE ZONE-I, 86T AT NARELA. RELAY INDICATIONS AT PANIPAT END ARE NOT AVAILABLE.
26	12.05.12	16.54	220/66KV 100MVA PR. TR.-II AT WAZIRABAD	12.05.12	19.44	TR. TRIPPED WITHOUT INDICATION. ALONG WITH 66KV I/C-I, II & II. 66KV I/C-I TRIPPED ON E/F, 86, 66KV I/C-II TRIPPED ON E/F, 86 AND 66KV I/C-III TRIPPED ON 86, O/C, E/F. 66KV I/C-I & II CHARGED AT 17.15HRS. AND 66KV I/C-II CHARGED AT 19.44HRS. DUE TO THE TRIPPING, RPH AND PRAGATI (UNIT-2 & STG) ISLANDED FROM THE GRID AND TRIPPED. THE SEPARATE REPORT IS ENCLOSED.
27	12.05.12	17.42	220KV MANDOLA – WAZIRABAD CKT-I, II, III & IV	12.05.12	19.32	220KV WAZIRABAD CKT-I, II & III TRIPPED ON DIST PROT `ABC' PHASE ZONE-II AND 220KV WAZIRABAD CKT-IV TRIPPED ON DIST PROT `BC' PHASE AT MANDOLA. NO TRIPPING AT WAZIRABAD.
28	12.05.12	17.23	400/220KV 315MVA ICT-I, II, III & IV AT BAWANA	12.05.12	18.30	THE FOLLOWOING TRIPPINGS OCCURRED ICT-I : MAIN CB AUTO TRIP 220KV I/C-I : CB TRIP ICT-II : MAIN CB AUTO TRIP 220KV I/C-II : MAIN CB AUTO TRIP ICT-III : MAINCB AUTO TRIP, GROUP-I & II TRIP RELAY CKT. FAULTY I/C-III : CB AUTO TRIP ICT-IV : MAIN CB AUTO TRIP 220KV I/C-IV : MASTER TRIP RELAY ICT-I, II & III CHARGED AT 18.26HRS. AND ICT-IV CHARGED AT 17.56HRS.
29	12.05.12	17.28	400KV BAWANA – DIPALPUR CKT.	12.05.12	20.59	CKT. TRIPPED ON 86 AT BAWANA. RELAY INDICATIONS AT DIPALPUR END ARE NOT AVAILABLE.
30	12.05.12	17.05	220/33KV 100MVA PR. TR.-I AT IP	12.05.12	18.33	TR. TRIPPED ON DIFFERENTIAL.
31	12.05.12	17.30	220KV IP – PRAGATI CKT.-I	12.05.12	17.55	CKT. TRIPPED ON DIRECTIONAL E/F AT IP

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
32	12.05.12	17.43	220/33KV 100MVA PR. TR.-III AT IP	12.05.12	19.10	TR. TRIPPED ON E/F AT 33KV SIDE.
33	12.05.12	17.25	220KV PATPARGANJ – GEETA COLONY CKT-I & II	12.05.12	17.55	BOTH CKT TRIPPED ON 186 AT PATPARGANJ.NO TRIPPING AT GEETA COLONY.
34	13.05.12	18.49	220KV MANDOLA – GOPALPUR CKT-II	13.05.12	19.22	CKT. TRIPPED ON DIST PROT ZONE-II AT MANDOLA. NO TRIPPING ON GOPALPUR.
35	15.05.12	15.17	220KV BTPS –OKHLA CKT-I	15.05.12	15.50	CKT. TRIPPED ON DIST PROT `Y' PHASE, E/F, 86X1, 86X2 AT BTPS. NO TRIPPING AT OKHLA
36	16.05.12	11.29	220KV MANDOLA – WAZIRABAD CKT-I, III & IV	16.05.12	11.35	THE FOLLOWING TRIPPINGS OCCURRED AT MANDOLA :- 220KV WAZIRABAD CKT-I: DIST PROT `B' PHASE ZONE-III 220KV WAZIRABAD CKT-III : DIST PROT `B' PHASE ZONE-II 220KV WAZIRABAD CKT-IV : DIST PROT `B' PHASE ZONE-III NO TRIPPINGS OCCURRED AT WAZIRABAD ON MANDOLA CKTS. ALL THREE CKTS CHARGED AT 11.38HRS.
37	16.05.12	11.09	220/66KV 100MVA PR. TR.-I & III AT WAZIRABAD	16.05.12	11.50	BOTH TRANSFORMERS TRIPPED ON E/F ALONG WITH 66KV I/C-I, II & III WHICH TRIPPEDO N O/C, `B' PHASE, 86. BOTH TRANSFORMERS CHARGED AT 11.50HRS.
38	16.05.12	11.29	220KV WAZIRABD – GEETA COLONY CKT-I	16.05.12	15.14	CKT. TRIPPED ON ACTIVE GROUP-I, DIST PROT `C' PHASE AT GEEA COLONY AND ON O/C, `B' PHASE AT WAZIRABAD. `B' PHASE LA DAMAGED A WAZIRABAD.
39	16.05.12	11.27	220KV GEETA COLONY –PATPARGANJ CKT-I & II	16.05.12	11.59	BOTH CKT. TRIPPED ON 186 AT PATPARGANJ. (SEPARATE REPORT IS ENCLOSED)
40	16.05.12	11.29	220KV PATPARGANJ – IP CKT.-II	16.05.12	11.54	CKT. TRIPPED ON DIRECTIONAL E/F, 186 AT IP. NO TRIPPING AT PATPARGANJ. DUE TO TRIPING OF PRAGATI UNIT-II & STG AND RPH UNITS ISLANDED FROM THE GRID AND TRIPPED.
41	16.05.12	11.29	220KV WAZIRABAD – KASHMIRI GATE CKT-I	16.05.12	11.29	CKT. TRIPPED ON DIST PROT `C' PHASE, 86ABC AT KASHMIRI GATE.
42	16.05.12	04.00	220/33KV 100MVA PR.TR.-I AT IP	16.05.12	04.47	TR. TRIPPED ON INSTANTENOUS E/F, LOCK OUT.
43	17.05.12	11.07	220KV BTPS – MEHRAULI CKT-II	17.05.12	13.45	CKT. TRIPPED ON DIST PROT `ABC' PHASE ZONE-I AT MEHRAULI.
44	17.05.12	11.07	220KV MEHRAULI – DIAL CKT-I & II	17.05.12	11.18	BOTH CKTS TRIPPED ON O/C `R' PHASE AT DIAL. NO TRIPPING AT MEHRAULI.
45	17.05.12	23.32	220/33KV 100MVA PR. TR.I AT IP	17.05.12	23.58	TRANSFORMER TRIPPED ON INSTANTENOUS E/F, REF TRIPPING RELAY ALONG WITH 33KV I/-I WHICH TRIPPED WITHOUT INDICATION.
46	18.05.12	21.32	220/33KV 100MVA PR. TR.-I AT IP	18.05.12	21.47	TR TRIPPED ON E/F LV SIDE.
47	20.05.12	16.29	220KV BAMNAULI – DIAL CKT-II	20.05.12	17.05	CKT. TRIPPED ON DIST PROT `C' PHASE, 186A&B AT BAMNAULI AND ON DIST PROT `B' PHASE ZONE-I AT DIAL
48	20.05.12	16.28	220KV BAWANA – KANJHAWALA CKT.	20.05.12	19.50	CKT. TRIPPED ON DIST PROT `AB' PHASE ZONE-I AT BAWANA AND ON DIST PROT `RYB' PHASE ZONE-I AT KANJHAWALA.
49	20.05.12	16.28	220KV BAWANA – NAJAFGARH CKT.	20.05.12	17.07	CKT. TRIPPED ON DIST PROT `YB' PHASE, ZONE-A AT BAWANA. NO TRIPPING AT NAJAFGARH.
50	20.05.12	20.19	220KV BTPS – MEHRAULI CKT-II	20.05.12	20.37	CKT. TRIPPED ON `A' PHASE E/F ZONE-I AT BTPS AND ON DIST PROT ABC' PHASE ZONE-I AT MEHRAULI.

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
51	21.05.12	00.46	220/66KV 100MVA PR TR.-I & II AT NARELA	21.05.12	01.16	TR.-I TRIPPED ON 86 AND TR.-II TRIPPED ON OVER-LOADING
52	21.05.12	12.34	400KV MUNDKA – JHAJJAR CKT-I	21.05.12	13.30	CKT. TRIPPED ON DIST PROT `A&B' PHASE ZONE-I, 86 AT MUNDKA AND ON `B' PHASE FUSE FAILURE AT JHAJJAR.
53	22.05.12	11.28	220KV PATPARGANJ – IP CKT-I	22.05.12	11.44	CKT. TRIPPED WITHOUT INDICATION AT PATPARGANJ.
54	24.05.12	15.23	400/220KV 315MVA ICT-IV AT MUNDKA	24.05.12	18.18	ICT TRIPPED ON HV/LV TEMP ALARM, BUCHLOZ.
55	25.05.12	01.53	400/220KV 315MVA ICT-IV AT BAWANA	25.05.12	12.40	ICT TRIPPED ON FACIA, TIE CB LOCK OUT, AUTO RECLOSE, 186A, GROUP-A, 86A&B, 86B-1, CTR, 86, GROUP- R, 30XYZ ALOG WITH ITS 220KV WHICH TRIPPED ON INTER TRIPPING.
56	25.05.12	12.10	66/33KV 30MVA PR. TR.-I AT PARK STREET	25.05.12	17.35	TR. TRIPPED ON BUCHLOZ, 86.
57	25.05.12	23.02	220/33KV 100MVA PR. TR.-I AT IP	25.05.12	23.17	TR. TRIPPED ON 186 ALONG WITH 33KV I/C-I WHCH TRIPPED ON REF
58	26.05.12	08.33	220KV BTPS – MEHRAULI CKT-I & II	25.05.12	12.18	NO TRIPPING AT MEHRAULI. SUPPLY FAILED DUE TO TRIPPING OF ALL FIVE UNITS AT BTPS DUE TO FAULT IN 220KV BTPS – BALLABHGARH CKT-I & II
59	26.05.12	08.33	220KV BTPS – OKHLA CKT-I & II	25.05.12	11.30	NO TRIPPING AT OKHLA. SUPPLY FAILED DUE TO TRIPPING OF ALL FIVE UNITS AT BTPS DUE TO FAULT IN 220KV BTPS – BALLABHGARH CKT-I & II
60	26.05.12	08.33	220KV BTPS – SARITA VIHAR CKT-I & II	25.05.12	12.53	NO TRIPPING AT SARITA VIHAR. SUPPLY FAILED DUE TO TRIPPING OF ALL FIVE UNITS AT BTPS DUE TO FAULT IN 220KV BTPS – BALLABHGARH CKT-I & II. CKT-I & II CHARGED AT 11.46HRS. AND 12.53HRS. RESPECTIVELY.
61	26.05.12	15.32	220KV MEHRAULI – DIAL CKT-I & II	25.05.12	15.38	THE FOLLOWING TRIPPINGS OCCURRED :- AT MEHRAULI 220KV DIAL CKT-I : NO TRIPPING 220KV DIAL CKT-II : DIST PROT `C' PHASE ZONE-I AT DIAL 220KV MEHRAULI CKT-I : RED COMMUNICATION FAIL 220KV MEHRAULI CKT-II: REL FUSE FAIL
62	27.05.12	16.27	220/33KV 100MVA PR. TR-I AT PATPARGANJ	27.05.12	17.30	TR. TRIPPED ON 86, O/C `B' PHASE ALONG WITH 33KV I/C-I, II & III. 33KV I/C-I, II & III CHARGED AT 17.31HRS, 20.42HRS AND 20.25HRS RESPECTIVELY.
63	27.05.12	16.37	400KV MUNDKA – JHAJJAR CKT-II	28.05.12	19.40	BOTH CB OF THE CKT. TRIPPED ON AUTO RECLOSE, 86O, 86A, 86B AT MUNDKA. CKT. TRIED TO CLOSE AT 17.00HRS BUT COULD NOT BE HOLD. CKT. FINALLY CHARGED AT 19.40HRS. ON 28.05.2012
64	27.05.12	18.23	400/220KV 315MVA ICT-IV AT MUNDKA	27.05.12	19.55	TRANSFORMER TRIPPED ON 86B, OLTC BUCHLOZ, SUPERVISION, LV SIDE WINDING TEMP ALARM ALONG WITH ITS 220KV I/C WHICH TRIPPED ON INTER TRIPPING.
65	28.05.12	14.00	220/33KV 100MVA PR. TR.-I AT IP	28.05.12	19.23	TR. TRIPPED ON REFLV LOCK OUT, DIFFERENTIAL ALONG WITH 33KV I/C-I WHICH TRIPPED ON INTER TRIPPING.
66	30.05.12	09.20	400/220KV 315MVA ICT-IV AT MUNDKA	30.05.12	15.15	ICT TRIPPED ON 86A ALONG WITH ITS 220KV WHICH ALSO TRIPPED ON SAME INDICATION.
67	30.05.12	11.35	220/66KV 100MVA PR TR -II AT DSIDC BAWANA	30.05.12	11.50	TR. TRIPPED DUE TO LOW GAS PRESSURE, POLE DISCREPANCY
68	30.05.12	14.12	220/66KV 100MVA PR. TR-II AT ROHINI	30.05.12	14.57	TR. TRIPPED ON WINDING TEMP. ALARM, 30B, 86 ALONG WITH 66KV I/C-I& II WHICH TRIPPED WITHOUT INDICATION.

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
69	31.05.12	00.46	400KV MANDOLA – BAWANA CKT-I	31.05.12	01.25	CB-1552 TRIPPED ON 195BC,295AC, 30F, 186A&B AND CB-1652 TRIPPED ON 30F, 186AB AT BAWANA. NO TRIPPING AT MANDOLA.
70	31.05.12	02.07	400KV MANDOLA – BAWANA CKT-I	31.05.12	02.26	CB-1552 TRIPPED ON 85LD, 295AC, SUPERVISION, 186A&B AND CB-1652 TRIPPEDON 195BC, 186A&B AT BAWANA END. NO TRIPPING AT MANDOLA.
71	31.05.12	13.44	220KV BTPS – OKHLA CKT-II	31.05.12	18.19	CKT. TRIPPED ON `B' PHASE E/F AT BTPS. NO TRIPPING AT OKHLA. CKT. TRIED TO CLOSE AT 13.51HRS. BUT AGAINS TRIPPED ON 86T.
72	31.05.12	14.43	400KV MUNDKA – JHAJJAR CKT-I	31.05.12	15.35	CKT. TRIPPED ON DIST PROT ZONE-I AT MUNDKA. CKT. ALSO TRIPPED AT JHAJJAR END BUT RELAY INDICATIONS ARE NOT AVAILABLE.
73	31.05.12	14.12	220KV BTPS – MEHRAULI CKT-II	31.05.12	22.45	CKT. TRIPPED ON DIST PROT `ABC' ZONE-I, 186 AT MEHRAULI AND ON `R' PHASE E/F AT BTPS. CKT. TRIED TO CLOSE AT 14.29HRS. BUT AGAIN TRIPPED ON SAME INDICATIONS. FIRE REPORTED BROKEN OUT UNDER TOWER OF THE CKT. NEAR SANGAM VIHAR AREA.
74	31.05.12	14.12	220KV MEHRAULI – DIAL CKT-II	31.05.12	14.35	CKT. TRIPPED ON REC GETR `B' PHASE TRIP AT DIAL. NO TRIPPING AT MEHRAULI.
75	31.05.12	15.40	220/66KV 160MVA PR. TR. AT MUNDKA	02.06.12	21.20	TR. TRIPPED ON PRV, 86B ALONG WITH 66KV I/C WHICH TRIPPED ON 86.
76	31.05.12	22.22	220/33KV 50MVA PR.TR. AT OKHLA			33KV I/C OF THE TRANSFORMER TRIPPED ON E/F. 33KV `R' PHASE CT OF 33KV OKHLA PHASE-II CKT-I DAMAGED.

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

DATE	S. N.	TIME		Name of Grid	NAME OF AFFECTED FEEDERS	LOAD RELIEF IN MW
		OUT	IN			
16.05.12	1	11:28	11:35	RPH	BAY -1 (RPH- MOTIA KHAN)	20
	2	11:28	11:35		BAY -13 (RPH- G.B. PANTH)	13
	3	11:28	11:35		BAY -2 (RPH- LAHROI GATE)	6
	4	11:28	11:35		BAY -5 (RPH- JAMA MASJID-I)	5
	5	11:28	11:35		BAY -6 (RPH- JAMA MASJID -2)	7
	6	11:28	11:35		BAY -18 (RPH- TOWN HALL)	10
	7	11:28	11:50	I.P.STATION	BAY -30 (KAMLA MARKET)	5
	8	11:28	12:45	PATPARGANJ	GROUP HOUSING -I CKT.-I&II	30
	9	11:28	12:45		VIVEK VIHAR CKT.-I&II	53
	10	11:28	12:45		PREET VIHAR CKT.	13
	11	11:28	12:45		GURU ANGAD NAGAR CKT.-I&II	25
	12	11:28	12:45		GEETA COLONY CKT.	0
	13	11:28	12:45		KARKARDOOMA CKT.-I&II	31
	14	11:28	12:45		CBD SHAHDRA CKT.	9
	15	11:28	12:45		11kV LOAD	3
	16	11:28	12:50	GEETA COLONY	GEETA COLONY CKT.-I&II	25
	17	11:28	12:50		SHAKKARPUR CKT.	10
	18	11:28	12:50		KANTI NAGAR CKT.-I&II	17
	19	11:28	11:50	I.P.STATION	KILOKARI CKT.	31
	20	11:28	11:50		DEFENCE COLONY CKT.	8
18.05.12	1	10:07	10:12	SHALIMARBAGH	S.G.T.NAGAR CKT., RANI BAGH CKT.	28
26.05.12	1	8:35	10:33	OKHLA	OKHLA - OKHLA PH-II CKT. I & II	12
	2	8:35	10:35		OKHLA - NEHRU PLACE CKT. -IV	6
	3	8:35	11:54		OKHLA - MASJID MOTH CKT.	0
	4	8:35	11:50		OKHLA - BALAJI CKT.	16
	5	8:35	11:45		OKHLA - OKHLA PH -I CKT. I & II	17