DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

****

NOVEMBER 2016

1 SALIENT FEATURES OF DELHI POWER SYSTEM

Sr. No.	Features	NOV. 2015	NOV 2016
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
	Bawana	1372	1372
	TOWMCL	16	16
	Total	2936	2936
2	**Maximum Unrestricted Demand (MW)**	**3512**	**3510**
	Date	03.11.2015	03.11.2016
	Time	18.33.33	18.17.33
3	**Peak Demand met (MW)**	**3512**	**3510**
	Date	03.11.2015	03.11.2016
	Time	18.33.33	18.17.33
4	Peak Availability (MW)	3422	3317
5	Shortage (-) / Surplus (+) in MW	(+) 90	(+) 134
6	Percentage Shortage (-) / Surplus (+)	(+) 2.56	(+) 3.93
7	Maximum Energy Consume in a day (Mus)	66.805	68.896
8	Energy Consumed during the month	**1800.142**	**1746.386**
9	**Load Shedding in Mus**		
A)	Due to Grid Restrictions		
i)	Under Frequency Relay Operations	0.006	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	0.191	0.020
	BRPL	2.745	0.164
	BYPL	0.127	0.000
	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	**3.069**	**0.184**
B)	Due to Constraints in System in Mus		
	DTL	0.101	0.421
	NDPL	0.050	0.193
	BRPL	0.325	0.148
	BYPL	0.057	0.034
	NDMC	0.000	0.000
	MES	0.000	0.000
	Other Agencies	0.006	0.082
	Total	**0.639**	**0.878**
11	**Grand Total in Mus**	**3.708**	**1.062**

2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING NOVEMBER 2016

A) For the month of Nnovember 2016

All Figures in MUs

S. No	Stations	Gross Generation	Aux. Consumption	Net Generation	Availability (%)	Backing Down
1.	**RPH**	0.000	0.180	-0.180	0.00	0.00
2.	**GT**	58.623	1.501	57.122	84.01	101.30
3.	**PPCL**	173.470	3.998	169.472	97.93	57.039
4.	**BTPS**	24.825	22.365	2.460	60.56	250.995
5.	**Rithala**	0.000	0.060	-0.060	**0.00**	--
6.	**Bawana**	128.190	4.988	123.202	75.41	603.20
7.	**Towmcl**	13.328	1.962	11.366	--	--
8.	**East Delhi**	0.099	0.000	0.099	--	--
9.	**DMSWL**	0.058	0.000	0.058	--	--
	TOTAL	**398.593**	**35.054**	**363.539**	**---**	**1012.534**

B) For the Year 2016-17 (Upto November 2016)

Power Station	Effective Capacity (MW)	Net Generation in MUs for Nov 2016	Availability (%) for Nov 2016	PLF (%) for Nov 2016	Cumulative Generation in MUs upto Nov 2016 for the year 2016-17	Cumulative Availability in % upto Nov 2016 for the year 2016-17	Cumulative PLF in % upto Nov 2016 for the year 2016-17
RPH	135	-0.180	0.00	-0.58	-5.345	0.00	
GT	270	57.122	84.01	30.29	457.007	84.54	-0.81
PPCL	330	169.472	97.93	73.18	1291.320	88.04	29.80
BTPS	705	2.460	60.56	5.00	1375.425	59.93	66.81
Rithala	108	-0.060	**0.00**	0.00	-0.488	**59.34**	42.23
Bawana	1372	123.202	75.41	12.74	1212.313	69.66	0.00
Towmcl	16	11.366	--	--	88.562	--	15.62
East		0.099	--	--	0.099	--	--
DMSWL		0.058	--	--	0.058	--	--
TOTAL	2936	**363.539**	**---**	**--**	**4418.951**	**--**	**--**

3 DETAILS OF OUTAGES OF GENERATING STNS. WITHIN DELHI W.E.F. APRIL 2016

RPH

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	67.5	08.05.15	13.40	--	--	Tripped on boiler tube leakage

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	67.5	21.05.15	10.20	--	--	Stopped due to shortage of coal

(B) Gas Turbine

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	30	30.03.16	13.52	17.04.16	10:45	Machine tripped as heavy jerk observed in Control room and 160 MVA Tr-i& II tripped at 220 KV end due to tripping of Geeta Colony to Wazirabad ckt. Machine not taken on load due to less demand from SLDC.
		17.04.16	10:45	17.04.16	18:45	Station shut down to attend ACW line.
		17.04.16	18:45	29.04.16	19:15	Stopped due to low demand and high frequency
		13.5.16	16:10	13.5.16	17:47	Machine stopped to replace the broken drain valve in the inlet line of ACW.
		15.5.16	08:40	15.5.16	11:00	machine stopped to attend the leakage of oil from LV bushing of Unit Transformer.Machine cleared by Electrical division at 11:00 hrs but machine not taken on load due to low schedule from SLDC.
		15.5.16	11:00	16.5.16	10:54	Machine stopped as per SLDC message
		23.5.16	15:46	25.5.16	15:30	Machine tripped due to tripping of 160 MVA Tr-I& II. After that machine not taken on load due to less demand
		28.5.16	12:01	6.6.16	09:58	Stopped due to low demand and high frequency
		10.6.16	16:54	10.6.16	17:08	machine came on FSNL as both the ICT 160 MVA TX-I & II tripped due to jek in the system.
		13.6.16	07:11	13.6.16	09:00	Machine tripped as heavy jerk observed in the system as both 160 MVA Tx-I &II tripped.
		4.7.16	17:53	6.7.16	08:50	Stopped due to low demand and high frequency
		15.7.16	00:32	15.7.16	18:18	
		15.7.16	21:42	20.7.16	10:58	
		20.7.16	15:25	21.7.16	14:45	
		1.8.16	14:55	1.8.16	15:40	Machine stopped due to heavy smoke from Turbine auxiliary compartment.
		1.8.16	18:43	2.8.16	10:00	Tripped due to failure of communication link with I/O packs.
		2.8.16	10:00	3.8.16	10:15	Stopped due to low demand and high frequency
		4.8.16	12:30	4.8.16	14:08	Machine stopped to replace 11 KV CKT breaker due to low SF6 gas pressure.
		5.8.16	19:05	29.8.16	19:35	Stopped due to low demand and high frequency
		29.8.16	20:50	02.09.16	12.56	
		04.10.16	00.25	04.10.16	16.05	Machine tripped as all communication failed . PCAA card failed.
		18.10.16	03.21	18.10.16	06.21	Machine came on FSNL and the following alarm appeared. Generator Control panel under voltage. Generator breaker tripped.
		18.10.16	13.45	31.10.16	23.59	Stopped due to low demand and high frequency

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	30	28.01.16	01:20	31.03.16	23:59	Stopped due to low demand and high frequency
		01.04.16	18:00	17.04.16	10:45	
		17.04.16	10:45	17.04.16	18:45	Station shut down to attend ACW line.
		17.04.16	18:45	5.5.16	15:11	Stopped due to low demand and high frequency
		5.5.16	15:57	5.5.16	16:40	Machinestopped due to problem in ACW line.
		7.5.16	17:02	7.5.16	17:52	Problem in battery charger
		19.5.16	00:02	19.5.16	01:03	T-Communication link inoperative
		23.5.16	15:46	23.5.16	15:50	Machine came on FSNL due to tripping of 160 MVA Tr-I& II.
		25.5.16	06:09	25.5.16	06:52	T-Communication link inoperative
		26.5.16	18:15	26.5.16	23:20	Machine tripped on high exhaust trip alarm.
		29.5.16	00:50	06.06.16	08.56	Stopped due to low demand and high frequency
		10.6.16	16:54	10.6.16	17:00	machine came on FSNL as both the ICT 160 MVA TX-I & II tripped due to jek in the system.
		13.6.16	07:11	13.6.16	13:40	Machine tripped as heavy jerk observed in the system as both 160 MVA Tx-I &II tripped.
		1.7.16	02:20	1.7.16	09:18	Loss of Field alarm appeared and machine tripped on Electrical Trouble Normal Shutdown.
		2.7.16	11:40	6.7.16	15:45	Stopped due to low demand and high frequency
		6.7.16	22:50	6.7.16	23:10	Loss of Field alarm appeared and machine tripped on Electrical Trouble Normal Shutdown.
		6.7.16	23:10	7.7.16	16:26	Stopped due to low demand and high frequency
		7.7.16	18:40	7.7.16	20:09	Loss of Field alarm appeared and machine tripped on Electrical Trouble Normal Shutdown.
		9.7.16	15:35	9.7.16	16:40	machine desynchroniz to check the Mvar problem.
		9.7.16	18:40	9.7.16	22:45	Loss of Field alarm appeared and machine tripped on Electrical Trouble Normal Shutdown.
		9.7.16	22:53	12.7.16	15:55	Stopped due to low demand and high frequency
		15.7.16	21:42	20.7.16	13:20	
		21.7.16	15:40	22.7.16	13:02	
		5.8.16	10:23	5.8.16	17:00	Machine tripped on Electrical trouble normal shut down.
		5.8.16	17:00	12.8.16	12:58	Stopped due to low demand and high frequency
		12.8.16	13:28	29.8.16	14:45	
		18.10.16	17.45	31.10.16	23.59	

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
3	30	01.02.16	19.15	17.04.16	10:45	Stopped due to low demand and high frequency
		17.04.16	10:45	17.04.16	18:45	Station shut down to attend ACW line.
		17.04.16	18:45	12.05.16	12.00	Stopped due to low demand and high frequency
		12.5.16	12:00	19.5.16	23:09	Machine under shut down as permit taken by Electrical division to replace its 66 KV breaker.
		19.5.16	23:09	20.5.16	20:52	Machine available but not taken on load due to less schedule from SLDC
		20.5.16	23:58	06.06.16	15.40	Stopped due to low demand and high frequency
		6.6.16	18:06	9.6.16	15:50	
		9.6.16	18:46	30.6.16	14:30	
		30.6.16	14:40	30.6.16	16:20	Machine tripped due'S' communication link inoperative.
		30.6.16	17:19	30.6.16	18:05	machine tripped on false alarm in Turbine or Accessories Area.
		01.07.16	01.00	31.10.16	23.59	Stopped due to low demand and high frequency

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
4	30	29.01.16	14:00	17.04.16	10:45	Stopped due to low demand and high frequency
		17.04.16	10:45	17.04.16	18:45	Station shut down to attend ACW line.
		17.04.16	18:45	16.05.16	15.04	Stopped due to low demand and high frequency
		16.5.16	18:04	18.5.16	16:12	Machine stopped due to low schedule from SLDC
		21.5.16	16:05	21.5.16	17:57	supply of Computer failed.
		23.5.16	15:46	24.5.16	15:25	Machine tripped due to tripping of 160 MVA Tr-I& II. After that machine nottaken on load due to less demand
		24.5.16	16:27	6.6.16	11.12	Stopped due to low demand and high frequency
		6.6.16	20:10	7.6.16	10:34	
		10.6.16	16:54	10.6.16	17:08	machine came on FSNL as both the ICT 160 MVA TX-I & II tripped due to jek in the system.
		10.6.16	18:32	13.6.16	12:55	Stopped due to low demand and high frequency
		13.6.16	22:38	20.6.16	08:33	
		20.6.16	16:30	24.6.16	12:14	
		24.6.16	17:45	30.6.16	10:07	
		30.6.16	19:00	30.6.16	19:55	Machine tripped on over temperature alarm
		2.7.16	08:48	8.7.16	10:51	Stopped due to low demand and high frequency
		8.7.16	12:20	14.7.16	11:45	
		14.7.16	15:10	31.10.16	23:59	

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
5	30	14.03.16	19.15	01.04.16	15:05	Stopped due to low demand and high frequency
		11.04.16	19:06	11.04.16	21:22	
		17.04.16	10:45	17.04.16	18:38	Station shut down to attend ACW line.
		18.04.16	12:54	24.04.16	10:55	Stopped due to low demand and high frequency
		29.04.16	19:15	13.05.16	17.10	
		13.5.16	19:30	16.5.16	13:29	
		20.5.16	23:42	21.5.16	18:08	machine stopped to attend leakage of oil from IGV
		21.5.16	18:55	21.5.16	20:04	Machine tripped on high exhaiust temperature
		22.5.16	11:46	23.5.16	11:30	Stopped due to low demand and high frequency
		23.5.16	11:55	23.5.16	12:30	machine desynchronise to check the position of Bleed valve.
		23.5.16	15:46	24.5.16	15:42	Machine tripped due to tripping of 160 MVA Tr-I& II. After that machine nottaken on load due to less demand
		25.5.16	16:35	26.5.16	19:05	Stopped due to low demand and high frequency
		27.5.16	00:07	27.5.16	17:20	
		27.5.16	17:25	28.5.16	11:07	
		29.5.16	22:10	29.5.16	22:22	Machine came on FSNL due to tripping of 160 MVA Tr-I& II.
		10.6.16	16:54	10.6.16	17:08	machine came on FSNL as both the ICT 160 MVA TX-I & II tripped due to jek in the system.
		11.6.16	20:45	13.6.16	11:12	Stopped due to low demand and high frequency
		20.6.16	01:04	23.6.16	15:59	Machine stopped to inspect the low load reason on mahine by M/s BGGTS
		23.6.16	16:00	24.6.16	16:18	Stopped due to low demand and high frequency
		24.6.16	18:05	25.6.16	10:10	
		2.7.16	11:35	4.7.16	16:52	
		7.7.16	17:20	8.7.16	08:38	
		12.7.16	16:55	14.7.16	09:06	
		15.7.16	18:57	15.7.16	21:40	
		23.7.16	08:15	27.7.16	05:03	
		28.7.16	15:17	5.8.16	17:10	
		15.8.16	16:31	15.8.16	17:37	Heavy jerk observed in Control room. GT-5 tripped .Relay-P343 operated at protection panel.Both 160 MVA tr. Tripped.
		18.8.16	17:05	19.8.16	11:06	Stopped due to low demand and high frequency
		19.8.16	11:17	19.8.16	11:40	Machine desynchronize to check the hunting in load.
		31.8.16	10:30	04.10.16	08.34	Stopped due to low demand and high frequency
		04.10.16	19.00	18.10.16	16.32	

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
6	30	19.03.16	11.40	6.04.16	12:00	Stopped due to low demand and high frequency
		06.04.16	12:00	11.04.16	18:10	machine taken under S/d for Combustion Inspection & Boroscopic Inspection
		11.04.16	21:06	17.04.16	10:45	Stopped due to low demand and high frequency
		17.04.16	10:45	17.04.16	18:45	Station shut down to attend ACW line.
		17.04.16	18:45	18.04.16	11:30	Stopped due to low demand and high frequency
		24.04.16	11:44	13.05.16	18.45	
		13.5.16	20:15	16.5.16	17:23	
		23.5.16	15:46	23.5.16	16:37	Machine tripped due to tripping of 160 MVA Tr-I& II.
		29.5.16	01:50	02.06.16	10.48	Machine stopped due to low schedule from SLDC
		10.6.16	16:54	10.6.16	17:08	machine came on FSNL as both the ICT 160 MVA TX-I & II tripped due to jek in the system.
		11.6.16	20:45	13.6.16	20:34	Stopped due to low demand and high frequency
		20.6.16	16:35	24.6.16	13:20	
		24.6.16	18:08	25.6.16	10:04	
		6.7.16	16:55	8.7.16	11:05	
		12.7.16	15:00	14.7.16	15:05	
		27.7.16	03:58	27.7.16	09:11	Machine tripped on Electrical trouble normal shut down. SF-6 second stage gas pressure low alarm appeared on protection pannel
		27.7.16	09:11	05.08.16	12.10	Stopped due to low demand and high frequency
		29.8.16	17:25	05.10.16	16.25	Machine stopped as there was no schedule from SLDC on Spot R-LNG.
		05.10.16	16.25	05.10.16	17.20	Trial run of GT-6 to check the sound & vibn. While shutting down
		05.10.16	17.20	18.10.16	11.25	Stopped due to low demand and high frequency

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG -1	30	29.1.16	14:00	01.04.16	18:05	M/c cleared from maintainence side but Stopped due to low demand and high frequency
		17.04.16	10:45	17.04.16	18:45	Station shut down to attend ACW line.
		17.04.16	18:45	29.04.16	19:15	Stopped due to low demand and high frequency
		01.5.16	21:27	01.5.16	22:59	Machine tripped due to failure of LT supply.
		13.5.16	16:10	13.5.16	18:48	Machinestopped due to problem in ACW line.
		23.5.16	15:46	23.5.16	17:25	Machine tripped due to tripping of 160 MVA Tr-I& II.
		23.5.16	19:20	24.5.16	14:04	Stopped due to low demand and high frequency
		29.5.16	00:50	06.06.16	11.44	
		10.6.16	16:54	10.6.16	17:53	machine tripped as both the ICT 160 MVA TX-I & II tripped due to jek in the system.
		13.6.16	07:11	13.06.16	10:45	Machine tripped as heavy jerk observed in the system as both 160 MVA Tx-I &II tripped.
		04.07.16	17:53	06.07.16	12:20	Stopped due to low demand and high frequency
		15.07.16	21:42	21.07.16	13:29	
		31.07.16	15:31	31.07.16	16:05	Due to jerk CEP-1A tripped & machine tripped on low vacuum.
		05.08.16	19:05	29.08.16	17:20	Machine stopped as per sSLDC to maintain only 72 MW generation.
		14.09.16	11.35	14.09.16	12.53	Machine tripped due to turbine F JB shaft vibration very high.
		15.09.16	14.28	15.09.16	16.02	Machine tripped on generator RJB housing vibration very high.
		06.10.16	17.02	06.10.16	18.46	Machine stopped to attend hot spot on Y-phase bushing of STG#1 unit Transformer.
		07.10.16	11.52	07.10.16	12.34	Due to Jerk , equipments like BFP,CEP & ACW tripped. Equiments restarted again jerk observed and the equipments BFP.CEP and ACW tripped and machine tripped on low vacuum.
		18.10.16	17.45	31.10.16	23.59	Stopped due to low demand and high frequency

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG -2	**30**	29.01.16	14:00	17.04.16	10:45	M/c cleared from maintainence side Stopped due to low demand and high frequency
		17.04.16	10:45	17.04.16	18:45	Station shut down to attend ACW line.
		17.04.16	18:45	19.05.16	07.45	Stopped due to low demand and high frequency
		21.5.16	16:04	21.5.16	19:15	Machine tripped due to tripping of GT#4
		23.5.16	15:46	23.5.16	17:25	Machine tripped due to tripping of 160 MVA Tr-I& II.
		23.5.16	17:25	06.06.16	17.04	Stopped due to low demand and high frequency
		6.6.16	17:19	6.6.16	19:38	machine tripped on Hot well very high alarm as the parameter of STG# 2 got freezed and actual value of the same was not appearing on BCD.
		6.6.16	20:10	7.6.16	12:55	Stopped due to low demand and high frequency
		10.6.16	16:54	13.6.16	18:06	machine tripped as both the ICT 160 MVA TX-I & II tripped due to jek in the system. Machine not taken on load due low demand.
		13.6.16	22:38	20.6.16	11:40	Stopped due to low demand and high frequency
		20.6.16	16:35	24.6.16	14:54	
		24.6.16	17:47	30.6.16	13:45	
		30.6.16	19:00	30.6.16	22:03	Machine tripped due to tripping of GT#4
		02.07.16	08.48	19.10.16	14.00	Stopped due to low demand and high frequency
		19.10.16	14.00	20.10.16	23.59	Fire broke down in some control and power cables near CEP- 2A after that machine taken for major overhauling which was already planned from 20/10/2016 to 14/11/2016.
		21.10.16	00.00	31.10.16	23.59	Planned outage from 21.10.2016 to 20.11.2016

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG -3	**30**	19.03.16	18.15	01.04.16	17:45	Stopped due to low demand and high frequency
		01.04.16	18:30	01.04.16	19:26	Tripped on Gen. Class-A relay
		01.04.16	19:32	01.04.16	20:07	Tripped on Gen. Class-A relay
		11.04.16	21:06	11.04.16	21:45	Machine stopped due to stopping of GT#6.
		17.04.16	10:45	17.04.16	19:57	Station shut down to attend ACW line.
		29.04.16	19:15	09.05.16	15.52	Stopped due to low demand and high frequency
		16.5.16	16:02	16.5.16	16:30	Machine stopped to attend false over speed alarm
		21.5.16	21:28	21.5.16	23:52	Machine tripped on Turbine FJB shaft vibration very high
		23.5.16	15:46	23.5.16	17:30	Machine tripped due to tripping of 160 MVA Tr-I& II.
		29.5.16	22:10	29.5.16	23:45	Machine tripped due to tripping of 160 MVA Tr-I& II.
		31.5.16	20:16	31.5.16	23:45	SNH feeder tripped & found earth fault.
		2.6.16	11:36	2.6.16	14:00	Machine tripped while changing the load from auxiliary to pressure.
		10.6.16	16:54	10.6.16	17:38	machine tripped due to jek in the system.
		11.6.16	20:45	13.6.16	13:26	Stopped due to low demand and high frequency
		13.6.16	21:30	13.6.16	22:30	Machine tripped on Class A relay.
		19.6.16	07:01	19.6.16	08:02	Machine tripped on FJB shaft vibration very high.
		20.6.16	16:35	24.6.16	15:16	Stopped due to low demand and high frequency
		24.6.16	18:12	25.6.16	11:55	
		7.7.16	17:20	8.7.16	11:18	
		12.7.16	16:55	14.7.16	12:30	
		18.7.16	04:38	18.7.16	06:45	Machine tripped on FJB shaft Vibration very high.
		27.7.16	03:58	27.7.16	09:11	Machine tripped due to tripping of GT-6 as running on single HRSG#6.
		28.7.16	15:17	05.08.16	16.30	Stopped due to low demand and high frequency
		5.08.16	18:01	05.08.16	18:52	Machine tripped on turbine oil pressure very low.
		9.08.16	10:55	09.08.16	11:31	Machine tripped on low vacuum due to tripping of CWP-1
		15.08.16	16:31	15.08.16	17:28	Heavy jerk observed. STG-3 tripped due to failure of auxilary supply.
		28.08.16	14:28	28.08.16	16:16	Machine tripped on generator housing vibration high.after replacing the Vibratio card machine synchronized.
		28.08.16	16:27	28.08.16	17:03	Machine tripped on generator and turbine housing vibration high.
		31.08.16	10:30	04.10.16	13.14	Machine stopped as per sSLDC to maintain only 36 MW generation.
		04.10.16	19.00	18.10.16	13.25	Stopped due to low demand and high frequency

(C) PRAGATI

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	104	01.04.16	00.00	06.04.16	06.00	Stopped due to low demand and high frequency
		01.05.16	05.58	01.05.16	13.15	Unit stopped by stn.
		07.05.16	11.37	07.05.16	12.34	Unit tripped.
		23.05.16	22.16	24.05.16	10.01	Unit stopped and started due to low demand and high frequency
		09.06.16	14:33	09.06.16	15:10	GT#1 tripped on grid disturbance.
		18.06.16	07:09	18.06.16	09:13	GT#1 tripped on grid disturbance.
		18.06.16	10:09	18.06.16	10:38	GT#1 tripped.
		11.07.16	08.10	11.07.16	09.32	Unit tripped due to grid disturbance
		16.07.16	08.50	19.07.16	11.00	Stopped due to low demand and high frequency
		19.07.16	11.00	19.07.16	14.01	Unit not available
		30.07.16	00.00	31.07.16	14.10	Stopped due to low demand and high frequency
		06.08.16	14.00	08.08.16	10.37	
		12.08.16	17.00	16.08.16	10.50	
		18.08.16	11.30	22.08.16	10.35	
		31.08.16	09.46	03.09.16	09.58	
		19.09.16	00.00	04.10.16	21.42	Unit stopped for CI.
		05.10.16	01.11	05.10.16	02.46	Stopped after trial run (VT supply failure)
		05.10.16	07.27	16.10.16	18.36	Generator cooler / winder problem attended during CI
		16.10.16	22.35	31.10.16	23.59	Stopped due to low demand and high frequency
		01.11.16	00.00	07.11.16	13.05	Stopped due to low demand and high frequency
		26.11.16	09.48	26.11.16	13.30	Stopped due to abnormal sound
		26.11.16	15.43	26.11.16	16.36	Unit tripped on grid disturbance
		28.11.16	19.29	28.11.16	22.30	Stopped due to fire at filter house
		28.11.16	22.30	29.11.16	01.00	Stopped due to low demand and high frequency
		29.11.16	01.00	29.11.16	20.12	R Phse dead dnd insulator damaged
		30.11.16	04.45	30.11.16	09.41	Unit tripped on grid disturbance

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	104	01.04.16	00.00	01.04.16	03.18	Stopped due to low demand and high frequency
		06.04.16	08.40	11.04.16	04.31	G.T.-2 was swppped by G.T. -1 and started as desired
		15.04.16	06.06	15.04.16	12.02	Unit stopped
		24.04.16	14.15	25.04.16	06.48	Stopped due to low demand and high frequency
		28.04.16	12.44	28.04.16	13.35	Unit tripped
		06.05.16	11.28	06.05.16	16.00	Unit tripped due to grid disturbance
		06.05.16	16.00	11.05.16	13.27	Unit tripped
		26.05.16	21.18	26.05.16	22.55	Unit tripped
		05.06.16	03:59	08.06.16	15:17	GT2 tripped
		10.06.16	16:50	10.06.16	17:38	GT#2 tripped on grid disturbance.
		13.06.16	19:49	13.06.16	20:54	GT#2 tripped on grid disturbance.
		18.06.16	07:09	18.06.16	09:54	GT#2 tripped on grid disturbance.
		19.06.26	05:58	20.06.16	06:00	Stopped due to low demand and high frequency
		13.07.16	16.29	15.07.16	19.18	Unit tripped
		31.07.16	07.22	03.08.16	14.24	Stopped due to low demand and high frequency
		28.08.16	12.39	28.08.16	16.00	G.T.-2 and STG was tripped due to grid disturbance
		28.08.16	16.00	28.08.16	22.45	Unit unavailable.
		03.09.16	11.05	03.09.16	12.00	Unit was swapped by G.T. -1
		03.09.16	12.00	04.09.16	18.00	Unit was remain unavailable
		04.09.16	18.00	07.09.16	22.58	Stopped due to low demand and high frequency
		01.10.16	15.13	01.10.16	16.00	G.T. -2 & STG tripped on grid disturbance
		08.10.16	13.28	08.10.16	14.15	
		30.11.16	03.13	30.11.16	07.40	GT#2 tripped on grid disturbance
		30.11.16	14.00	30.11.16	23.30	Stopped for inlet air filter
		30.11.16	23.30	30.11.16	23.59	Stopped due to low demand and high frequency

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG	122	01.04.16	00.00	01.04.16	09.07	Stopped due to low demand and high frequency
		21.04.16	14.59	21.04.16	16.25	STG Tripped
		24.04.16	13.15	24.04.16	21.27	Unit stopped
		29.04.16	11.58	29.04.16	12.46	STG Tripped
		02.05.16	15.57	02.05.16	16.54	STG Tripped
		06.05.16	11.28	06.05.16	12.12	Unit tripped due to grid disturbanve
		07.05.16	11.40	07.05.16	13.30	Unit tripped alongwith G.T.-1
		08.05.16	17.49	08.05.16	19.35	STG Tripped
		10.05.16	17.55	10.05.16	23.58	STG Tripped
		13.05.16	19.02	13.05.16	20.50	Stopped due to low demand and high frequency
		05.06.16	14:20	05.06.16	15:06	STG tripped on grid disturbance.
		09.06.16	14:33	09.06.16	16:22	STG tripped on grid disturbance.
		10.06.16	16:50	10.06.16	18:00	STG tripped on grid disturbance.
		13.06.16	12:14	13.06.16	17:46	Stopped due to low demand and high frequency
		13.06.16	19:49	13.06.16	21:34	STG tripped on grid disturbance.
		18.06.16	07:09	18.06.16	10:05	STG tripped on grid disturbance.
		18.06.16	10:09	18.06.16	10:57	STG tripped on GT#1 tripped
		27.06.16	19:06	28.06.16	03:36	Stopped due to low demand and high frequency
		09.07.16	12.53	09.07.16	15.19	Unit tripped
		11.07.16	08.05	11.07.16	10.52	Unit tripped due to grid disturbance
		18.07.16	18.37	18.07.16	19.44	Unit tripped
		30.07.16	09.17	30.07.16	18.23	Stopped due to low demand and high frequency
		31.07.16	07.22	31.07.16	16.17	
		28.08.16	12.39	28.08.16	14.24	Unit tripped due to grid disturbance
		01.10.16	15.13	01.10.16	16.52	G.T. -2 & STG tripped on grid disturbance
		03.10.16	16.16	03.10.16	17.09	Unit tripped on grid disturbance
		08.10.16	13.28	08.10.16	14.59	
		30.11.16	03.13	30.11.16	08.40	

(D) BADARPUR THERMAL POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	95	01.04.15	00.00	30.11.16	23.59	Stopped due to low demand and high frequency

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	95	24.09.15	19.52	30.11.16	23.59	Stopped due to low demand and high frequency

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
3	95	09.10.15	01.00	30.11.16	23.59	Stopped due to low demand and high frequency

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
4	210	12.12.15	14.30	04.04.16	07.47	Stopped due to low demand and high frequency
		11.04.16	14.03	12.04.16	20.11	Economizer tube leakage
		24.04.16	1621	24.04.16	21.52	PA Fan A lub oil sys temp high
		01.05.16	16.30	01.05.16	17.55	Human Error(Vacuum low)
		10.05.16	05.34	11.05.16	01.39	Boiler Drum Impulse line lkg
		11.05.16	09.08	21.05.16	03.10	Gen Seal problem
		21.05.16	04.04	21.05.16	04.38	ID Fan A Thermal Overload
		21.05.16	15.10	21.05.16	16.45	Relay malfunction (air flow low)
		03.06.16	21.30	05.06.16	07.03	Water Platen Lkg
		09.06.16	14.27	09.06.16	18.22	Grid Disturbance
		01.10.16	15.39	01.10.16	19.57	Unit tripped on grid disturbance
		06.11.16	17.14	30.11.16	23.59	Planned shutdown

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
5	210	24.04.16	16.21	24.04.16	21.52	Stopped due to temp. high.
		06.06.16	09.50	07.06.16	13.53	Water leakage
		09.06.16	14.28	09.06.16	17.11	Tripped due to grid disturbance
		17.07.16	14.30	17.07.16	18.15	Oil surge relay cable inter core shorting.
		09.08.16	22.20	10.08.16	02.29	AVR and excitation system problem.
		01.10.16	15.39	01.10.16	18.57	Tripped due to grid disturbance
		01.10.16	19.02	01.10.16	19.20	Generator protection system
		05.10.16	03.45	07.10.16	08.54	Reheater tube leakage
		17.10.16	21.11	30.11.16	23.59	Planned shutdown

(E) BAWANA CCGT POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	216	16.07.15	02.18	30.11.16	23.59	Machine tripped due to compressor stalling alarm

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	216	24.03.16	00.00	03.05.16	06.00	Stopped due to low demand and high frequency
		03.05.16	06.00	03.05.16	09.30	Machine shutdown for planned mtc.
		03.05.16	09.30	13.06.16	15.00	Stopped due to low demand and high frequency
		13.06.16	15.00	16.06.16	17.15	Machine shut down for planned maintenance due to annual testing of generator transformer .
		16.06.16	17.15	26.06.16	09.24	Stopped due to low demand and high frequency
		02.08.16	15.23	02.08.16	15.47	Machine tripped due to failure of primary DPU Card
		06.08.16	11.07	06.08.16	12.50	Machine tripped due to rebooting of Mark VI.
		01.09.16	08.45	05.09.16	12.00	Machine shutdown for attending internal fault
		05.09.16	12.00	30.11.16	23.59	Stopped due to low demand and high frequency

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG-1	254	28.03.16	00.00	15.04.16	10.00	Planned Shut down.
		15.04.16	10.00	03.05.16	06.00	Stopped due to low demand and high frequency
		03.05.16	06.00	03.05.16	09.30	Machine shutdown for planned mtc.
		03.05.16	09.30	13.06.16	15.00	Stopped due to low demand and high frequency
		13.06.16	15.00	16.06.16	17.15	Machine shut down for planned maintenance due to annual testing of generator transformer .
		16.06.16	17.15	26.06.16	15.20	Stopped due to low demand and high frequency
		02.08.16	15.29	02.08.16	16.14	Machine tripped due to failure of primary DPU Card
		06.08.16	11.07	06.08.16	13.59	Machine tripped due to rebooting of Mark VI.
		01.09.16	08.45	05.09.16	12.00	Machine shutdown for attending internal fault
		05.09.16	12.00	30.11.16	23.59	Stopped due to low demand and high frequency

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
3	216	08.01.16	23.15	18.04.16	05.23	Stopped due to low demand and high frequency
		18.04.16	11.16	18.04.16	19.12	Unit tripped
		03.05.16	06.08	03.05.16	08.57	Machine shutdown for planned mtc.
		23.05.16	19.04	10.08.16	14.00	Stopped due to low demand and high frequency
		10.08.16	14.00	18.08.16	00.00	Machine is shutdown for palnned mtc.
		01.09.16	00.00	19.09.16	18.59	Stopped due to low demand and high frequency
		23.09.16	23.59	29.09.16	22.16	
		07.10.16	11.43	07.10.16	15.48	Machine tripped due to stator earth fault.
		14.10.16	17.30	30.11.16	23.59	Stopped due to low demand and high frequency

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
4	216	08.01.16	23.15	03.05.16	06.00	Stopped due to low demand and high frequency
		03.05.16	06.00	03.05.16	09.30	Machine shutdown for planned mtc.
		03.05.16	09.30	27.05.16	01.12	Stopped due to low demand and high frequency
		30.05.16	11.16	05.09.16	00.44	
		05.10.16	13.00	14.10.16	13.30	
		29.10.16	00.02	31.10.16	23.59	
		01.11.16	00.00	09.11.16	23.59	
		30.11.16	08.50	30.11.16	17.43	Unit desynchronised as inlet air DP high.
		30.11.16	17.43	30.11.16	23.59	Stopped due to low demand and high frequency

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG-2	254	28.03.16	00.00	30.04.16	23.59	Planned shutdown
		03.05.16	06.00	03.05.16	09.30	Machine shutdown for planned mtc.
		03.05.16	06.10	03.05.16	10.39	Machine shutdown for planned mtc.
		06.05.16	16.45	06.05.16	17.44	Unit tripped
		23.05.16	19.06	27.05.16	08.24	Stopped due to low demand and high frequency
		27.05.16	11.18	05.09.16	11.03	
		20.09.16	07.05	20.09.16	08.02	HRSG #3 taken out of service due to internal fault.
		07.10.16	11.43	07.10.16	17.48	STG desynchronized due to trippeing of unit -3
		18.10.16	03.55	18.10.16	10.10	Machine tripped due to internal problem
		29.10.16	00.03	31.10.16	23.59	Stopped due to low demand and high frequency
		01.11.16	00.00	10.11.16	04.07	
		10.11.16	05.38	10.11.16	07.44	Unit desynchronised on internal fault.
		11.11.16	14.57	11.11.16	15.34	Unit desynchronised on internal fault.
		30.11.16	08.52	30.11.16	17.43	STG#2 desynchronised as inlet air DP high.
		30.11.16	17.43	30.11.16	23.59	Stopped due to low demand and high frequency

(F) RITHALA POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	31.8	19.03.13	17:32	30.11.16	23.59	Stopped due to low demand and high frequency

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	31.8	07.06.13	22:41	30.11.16	23.59	Stopped due to low demand and high frequency

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG	31.8	07.06.13	22:38	30.11.16	23.59	Stopped due to low demand and high frequency

4 ALLOCATION OF POWER TO DELHI

A) Time block 00.00hrs. to 24.00hrs. @ 0% allocation from Unallocated Quota from 01.04.2016

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-I	1000	150	100	87	0	0	87
Rihand Stage -II	1000	150	126	109	0	0	109
Rihand Stage -III	1000	150	132	115	0	0	115
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
Koldam HEP	800	120	56	53	0	0	53
TOTAL	**10582**	**1422**	**2362**	**2069**	**0**	**0**	**2069**
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
Chamera-III HEP	231	35	29	28	0	0	28
URI-I HEP	480	0	53	50	0	0	50
URI-II HEP	240	0	32	31	0	0	31
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
Parbati-III HEP	520	66	66	63	0	0	63
TOTAL	**4065**	**272**	**479**	**455**	**0**	**0**	**455**
NPC							
Narora APS	440	64	47	41	0	0	41
RAPP (C)	440	64	56	49	0	0	49
TOTAL	**880**	**128**	**103**	**89**	**0**	**0**	**89**
SVJNL							
Nathpa Jhakri HEP	1500	149	142	135	0	0	135
THDC							
Tehri Hydro	1000	99	63	60	0	0	60
Koteshwar HEP	400	40	39	37	0	0	37
TOTAL	**1400**	**139**	**102**	**97**	**0**	**0**	**97**
Total	**18427**	**2110**	**3188**	**2846**	**0**	**0**	**2846**
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
Kahalgaon-II	1500	0	157	131	0	0	131
Total ER	**5960**	**153**	**261**	**217**	**0**	**0**	**217**
Joint Venture							
Jhajjar TPS	1500	114	643	577	0	0	577
Ultra Mega Projects							
Sasan	3960	0	446	383	0	0	383
Grand Total	**29847**	**2377**	**4536**	**4023**	**0**	**0**	**4023**

5 ALLOCATION OF POWER TO DISCOMS

A) 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. 06.08.2013.

(Allocation In %)

(A) 10.00hrs. to 17.00hrs.

SOURCES	LICENSEES					
	NDMC	MES	NDPL	BRPL	BYPL	TOTAL
1. Central Sector without Dadri (Th)	0	0	29.18	43.58	27.24	100.00
2. Dadri (Th)	16.63	0	24.22	36.86	22.39	100.00
3. BTPS	17.73	7.09	21.81	33.2	20.17	100.00
4. RPH	0	0	29.025	44.133	26.842	100.00
5. GT	0	0	29.02	44.16	26.82	100.00
6. Pragati	30.3	0	20.22	30.78	18.7	100.00
7. DVC	0	0	29.18	43.58	27.24	100.00
8. BAWANA CCGT*	7.30	1.82	20.688	30.888	19.304	80.00

(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	0	29.18	43.58	27.24	100.00
2. Dadri (Th)	16.53	0	24.22	36.86	22.39	100.00
3. BTPS	17.73	7.09	21.81	33.2	20.17	100.00
4. RPH	0	0	29.025	44.133	26.842	100.00
5. GT	0	0	29.02	44.16	26.82	100.00
6. Pragati	30.3	0	20.22	30.78	18.7	100.00
7. DVC	0	0	29.18	43.58	27.24	100.00
8. BAWANA CCGT*	7.30	1.82	20.688	30.888	19.304	80.00

* 20% POWER OF BAWANA CCGT ALLOCATED TO HARYANA (10%) & PUNJAB (10%)

6 POWER AVAILABILITY-DEMAND POSITION AT THE TIME OF PEAK DEMAND MET DURING NOVEMBER 2016

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	Towmcl	East Delhi	DMSWL	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	19:00	0	77	153	0	-5	18	--	--	166	409	2645	2645	0	3054	0	3054
2	18:23:44	0	77	155	0	-3	17	--	--	167	413	3060	2992	68	3473	0	3473
3	18:17:33	0	75	152	0	-2	16	--	--	164	405	3105	2971	134	3510	0	3510
4	17:57:16	0	76	152	0	-1	16	--	--	166	409	3019	2935	84	3428	0	3428
5	18:01:41	0	77	153	0	0	16	--	--	171	417	2763	2819	-56	3180	3	3183
6	11:04:31	0	77	155	0	-3	18	--	--	166	413	2685	2578	107	3098	0	3098
7	18:09:07	0	78	266	0	-3	16	--	--	-3	354	2901	2844	57	3255	3	3258
8	10:37:27	0	78	262	0	-3	16	--	--	-2	351	2970	2790	180	3321	0	3321
9	18:16:24	0	78	260	0	-3	14	--	--	-3	346	2933	2783	150	3279	0	3279
10	17:59:22	0	115	303	0	303	9	--	--	-3	727	2440	2197	243	3167	0	3167
11	10:37:14	0	78	265	0	253	12	--	--	-4	604	2482	2516	-34	3086	0	3086
12	11:01:44	0	77	263	0	251	11	--	--	-4	598	2230	2179	51	2828	0	2828
13	10:51:43	0	76	264	0	251	15	--	--	-4	602	2140	2128	12	2742	0	2742
14	11:00:38	0	76	264	0	249	16	--	--	-1	604	2302	2250	52	2906	0	2906
15	18:01:40	0	76	261	0	252	16	--	--	-3	602	2346	2258	88	2948	0	2948
16	18:03:29	0	76	262	0	247	15	--	--	0	600	2362	2244	118	2962	0	2962
17	18:01:56	0	76	267	0	258	16	--	--	0	617	2367	2199	168	2984	0	2984
18	10:10:44	0	76	268	0	255	16	--	--	0	615	2493	2285	208	3108	0	3108
19	10:05:32	0	77	216	0	255	16	--	--	0	564	2307	2180	127	2871	0	2871
20	10:32:28	0	77	268	0	261	16	--	--	-4	618	2368	2221	147	2986	0	2986
21	10:25:59	0	78	269	0	250	16	--	--	0	613	2399	2569	-170	3012	0	3012
22	17:50:34	0	77	299	0	251	16	7	7	-4	653	2533	1955	578	3186	0	3186
23	10:02:13	0	77	264	0	251	16	7	6	-4	617	2466	2389	77	3083	0	3083
24	10:16:40	0	77	266	0	251	12	3	3	-4	608	2454	2327	127	3062	0	3062
25	10:20:47	0	77	263	0	251	14	8	8	-4	617	2567	2382	185	3184	0	3184
26	10:16:51	0	77	153	0	248	13	9	9	-4	505	2578	2303	275	3083	0	3083
27	11:00	0	75	265	0	257	11	8	8	-4	620	2388	2324	64	3008	0	3008
28	09:50:44	0	76	268	0	256	16	5	4	-4	621	2427	2332	95	3048	0	3048
29	10:38:31	0	75	156	0	289	16	5	5	-4	542	2655	2398	257	3197	0	3197
30	18:18:09	0	73	158	0	78	14	0	0	-4	319	2682	2558	124	3001	0	3001

7 POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF MAXIMUM UNRESTRICTED DEMAND DURING NOVEMBER 2016

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	Townmcl	East Delhi	DMSWL	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	19:00	0	77	153	0	-5	18	--	--	166	409	2645	2645	0	3054	0	3054
2	18:23:44	0	77	155	0	-3	17	--	--	167	413	3060	2992	68	3473	0	3473
3	18:17:33	0	75	152	0	-2	16	--	--	164	405	3105	2971	134	3510	0	3510
4	17:57:16	0	76	152	0	-1	16	--	--	166	409	3019	2935	84	3428	0	3428
5	18:01:41	0	77	153	0	0	16	--	--	171	417	2763	2819	-56	3180	3	3183
6	11:04:31	0	77	155	0	-3	18	--	--	166	413	2685	2578	107	3098	0	3098
7	18:09:07	0	78	266	0	-3	16	--	--	-3	354	2901	2844	57	3255	3	3258
8	10:37:27	0	78	262	0	-3	16	--	--	-2	351	2970	2790	180	3321	0	3321
9	18:16:24	0	78	260	0	-3	14	--	--	-3	346	2933	2783	150	3279	0	3279
10	17:59:22	0	115	303	0	303	9	--	--	-3	727	2440	2197	243	3167	0	3167
11	10:37:14	0	78	265	0	253	12	--	--	-4	604	2482	2516	-34	3086	0	3086
12	11:01:44	0	77	263	0	251	11	--	--	-4	598	2230	2179	51	2828	0	2828
13	10:51:43	0	76	264	0	251	15	--	--	-4	602	2140	2128	12	2742	0	2742
14	11:00:38	0	76	264	0	249	16	--	--	-1	604	2302	2250	52	2906	0	2906
15	18:01:40	0	76	261	0	252	16	--	--	-3	602	2346	2258	88	2948	0	2948
16	18:03:29	0	76	262	0	247	15	--	--	0	600	2362	2244	118	2962	0	2962
17	18:01:56	0	76	267	0	258	16	--	--	0	617	2367	2199	168	2984	0	2984
18	10:10:44	0	76	268	0	255	16	--	--	0	615	2493	2285	208	3108	0	3108
19	10:05:32	0	77	216	0	255	16	--	--	0	564	2307	2180	127	2871	0	2871
20	10:32:28	0	77	268	0	261	16	--	--	-4	618	2368	2221	147	2986	0	2986
21	10:25:59	0	78	269	0	250	16	--	--	0	613	2399	2569	-170	3012	0	3012
22	17:50:34	0	77	299	0	251	16	7	7	-4	653	2533	1955	578	3186	0	3186
23	10:02:13	0	77	264	0	251	16	7	6	-4	617	2466	2389	77	3083	0	3083
24	10:16:40	0	77	266	0	251	12	3	3	-4	608	2454	2327	127	3062	0	3062
25	10:20:47	0	77	263	0	251	14	8	8	-4	617	2567	2382	185	3184	0	3184
26	10:16:51	0	77	153	0	248	13	9	9	-4	505	2578	2303	275	3083	0	3083
27	11:00	0	75	265	0	257	11	8	8	-4	620	2388	2324	64	3008	0	3008
28	09:50:44	0	76	268	0	256	16	5	4	-4	621	2427	2332	95	3048	0	3048
29	10:38:31	0	75	156	0	289	16	5	5	-4	542	2655	2398	257	3197	0	3197
30	18:18:09	0	73	158	0	78	14	0	0	-4	319	2682	2558	124	3001	0	3001

8 SOURCEWISE SCHEDULED DRAWL FROM NORTHERN GRID AS WELL AS AVAILABILITY WITHIN DELHI FOR NOVEMBER 2016

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

A (i) RPH	0.000
(ii) GT+STG	58.623
(iii) PRAGATI	173.470
(iv) RITHALA	0000
(v) BAWANA CCGT	128.190
(vi) Timarpur ï Okhla	13.328
EDWPCL	0.099
DMSWL	0.058
TOTAL	373.768
B) AVAILABILITY FROM BTPS	19.368
C) AUXILIARY CONSUMPTION OF GENERATING STNs. EXCLUDING BTPS	12.689
D) NET GENERATION AVAILABLE WITHIN DELHI(A+B-C)	**380.447**

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	1.872	1.817	1.872	1.817
SALAL	10.229	9.934	10.229	9.934
SASAN	295.059	286.381	284.130	275.799
TANKAPUR	2.979	2.893	2.979	2.893
CHAMERA	4.560	4.428	4.560	4.428
CHAMERA -II	5.669	5.504	5.669	5.504
CHAMERA -III	2.838	2.756	2.838	2.756
DHAULIGANGA	4.869	4.728	4.869	4.728
SEWA -2	1.231	1.195	1.231	1.195
URI	6.214	6.031	6.214	6.031
URI-II	5.342	5.185	5.342	5.185
KOLDAM	0.000	0.000	0.000	0.000
KOTESHWAR	6.731	6.533	6.731	6.533
PARBATI3	2.289	2.223	2.289	2.223
RAMPUR	0.000	0.000	0.000	0.000
MUNDRA_UMPP	0.000	0.000	0.000	0.000
ANTA (GAS)	2.434	2.352	0.165	0.160
ANTA (RLNG)	0.000	0.000	0.000	0.000
ANTA (LIQUID)	27.927	27.113	0.000	0.000
DADRI (GAS)	36.140	35.111	6.413	6.247
DADRI (RLNG)	0.000	0.000	0.000	0.000
DADRI (LIQUID)	24.160	23.419	0.000	0.000
AURAIYA (GAS)	0.000	0.000	0.000	0.000
AURAIYA (RLNG)	0.000	0.000	0.000	0.000
AURAIYA (LIQUID)	48.786	47.350	0.000	0.000
SINGRAULI	96.908	94.061	88.596	85.994
RIHAND -I	65.254	63.344	44.265	42.980
RIHAND -II	86.958	84.400	62.174	60.342
RIHAND -III	91.041	88.362	67.748	65.764
UNCHAHAR-I	14.369	13.945	8.088	7.855
UNCHAHAR-II	32.449	31.493	19.486	18.924
UNCHAHAR-III	20.019	19.430	12.717	12.347
DADRI (TH)	525.303	509.832	101.611	98.715
DADRI (TH) STAGE-II	498.183	483.618	250.002	243.117
NAPP	31.012	30.099	31.012	30.099
RAPP 'B'	0.000	0.000	0.000	0.000
RAPP 'C'	19.766	19.180	19.766	19.180
NATHPA JHAKRI	25.175	24.444	18.837	18.290
DULASTI	15.079	14.647	15.079	14.647
TEHRI	12.507	12.140	12.507	12.140
JHAJJAR	460.635	447.139	8.104	7.851

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
KHELGAON	31.338	30.422	16.485	15.998
KHELGAON-II	106.798	103.654	65.079	63.163
FARAKA	14.307	13.880	7.131	6.918
TALA	8.569	8.326	8.607	8.363
TALCHER	0.000	0.000	0.000	0.000
DVC	221.595	219.390	219.390	212.929
HARYANA	3.610	3.568	3.568	3.451
KARNATAKA	0.000	0.000	0.000	0.000
MEGHALAYA	0.000	0.000	0.000	0.000
UTTRANCHAL	0.000	0.000	0.000	0.000
ASSAM	0.000	0.000	0.000	0.000
BIHAR	0.000	0.000	0.000	0.000
METHON POWER(NDPL)LT-06	171.294	170.046	170.046	164.945
DVC MEJIA (LT-08)(BYPL)	47.493	47.021	47.021	45.631
URS	0.000	0.000	0.000	0.000
JAMMU & KASHMIR	0.916	0.908	0.908	0.883
HIMACHAL PRADESH	0.000	0.000	0.000	0.000
PUNJAB	0.000	0.000	0.000	0.000
MADHYA PRADESH	0.000	0.000	0.000	0.000
CHATTISHGARH	0.000	0.000	0.000	0.000
DVC LT-9	0.000	0.000	0.000	0.000
HARYANA (LT-05)	20.937	20.702	20.702	20.022
RAJASTHAN	0.000	0.000	0.000	0.000
NEPAL	0.000	0.000	0.000	0.000
RAJASTHAN(SOLAR) BRPL-LT36	3.327	3.238	3.238	3.143
RAJASTHAN(SOLAR) BYPL - LT-35	3.346	3.255	3.255	3.160
RAJASTHAN(SOLAR) TPDDL LT-31	3.261	3.173	3.173	3.079
TO JAMMU & KASHMIR	-24.572	-24.807	-24.807	-25.560
TO ASSAM	-16.278	-16.498	-16.498	-17.005
TO KARNATAKA	-15.583	-15.877	-15.877	-16.422
TO MEGHALAYA	-42.609	-43.510	-43.510	-44.821
TO PUNJAB	0.000	0.000	0.000	0.000
TO MADHYA PRADESH	-43.478	-44.094	-44.094	-45.432
TO HARYANA	-3.367	-3.424	-3.424	-3.540
TO BIHAR	-16.850	-17.200	-17.200	-17.722
TO RAJASTHAN	-41.653	-42.918	-42.918	-44.220
TO NEPAL	-4.171	-4.228	-4.228	-4.368
BTPS TO MP	0.000	0.000	0.000	0.000
TO HIMACHAL PRADESH	0.000	0.000	0.000	0.000
TO ORISSA	0.000	0.000	0.000	0.000
POWER EXCHANGE(IEX)	57.451	56.215	57.451	56.215
TO POWER EXCHANGE (IEX)	-117.598	-121.251	-117.598	-121.251
POWER EXCHANGE(PX)	0.000	0.000	0.000	0.000
TO POWER EXCHANGE (PX)	-0.010	-0.010	-0.010	-0.010
TO SHARE PROJECT (HARYANA)	-11.333	-11.719	-11.333	-11.719
TO SHARE PROJECT (PUNJAB)	-11.163	-11.542	-11.163	-11.542
TOTAL	**2829.562**	**2737.811**	**1378.917**	**1317.965**

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	1569.930	1523.831	661.264	642.444
NTPC - ER	152.443	147.956	88.695	86.079
NHPC	63.171	61.341	63.171	61.341
NPC	50.778	49.279	50.778	49.279
SASAN	295.059	286.381	284.130	275.799
KOTESHWAR	6.731	6.533	6.731	6.533
MUNDRA_UMPP	0.000	0.000	0.000	0.000
NATHPA JHAKRI	25.175	24.444	18.837	18.290
TEHRI	12.507	12.140	12.507	12.140
TALA	8.569	8.326	8.607	8.363

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
JHAJJAR	460.635	447.139	8.104	7.851
TALCHER	0.000	0.000	0.000	0.000
RAJASTHAN SOLAR(BRPL)T-36	3.327	3.238	3.238	3.143
RAJASTHAN SOLAR(BYPL)T-35	3.346	3.255	3.255	3.160
RAJASTHAN SOLAR(TPDDL)T-31	3.261	3.173	3.173	3.079
DVC	221.595	219.390	219.390	212.929
HARYANA	3.610	3.568	3.568	3.451
KARNATAKA	0.000	0.000	0.000	0.000
MEGHALAYA	0.000	0.000	0.000	0.000
UTTRANCHAL	0.000	0.000	0.000	0.000
ASSAM	0.000	0.000	0.000	0.000
BIHAR	0.000	0.000	0.000	0.000
METHON POWER (NDPL)-LT-06	171.294	170.046	170.046	164.945
DVC MEJIA (LT-08)(BYPL)	47.493	47.021	47.021	45.631
URS	0.000	0.000	0.000	0.000
JAMMU & KASHMIR	0.916	0.908	0.908	0.883
HIMACHAL PRADESH	0.000	0.000	0.000	0.000
PUNJAB	0.000	0.000	0.000	0.000
MADHYA PRADESH	0.000	0.000	0.000	0.000
CHATTISHGARH	0.000	0.000	0.000	0.000
DVC (FOR NDPL) LT-09	0.000	0.000	0.000	0.000
HARYANA (LT -05)	20.937	20.702	20.702	20.022
RAJASTHAN	0.000	0.000	0.000	0.000
NEPAL	0.000	0.000	0.000	0.000
POWER EXCHANGE(IEX)	57.451	56.215	57.451	56.215
POWER EXCHANGE(PX)	0.000	0.000	0.000	0.000
TOTAL	**3178.229**	**3094.889**	**1731.578**	**1681.577**

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 JAMMU & KASHMIR	-24.572	-24.807	-24.807	-25.560
TO ASSAM	-16.278	-16.498	-16.498	-17.005
TO KARNATAKA	-15.583	-15.877	-15.877	-16.422
TO MEGHALAYA	-42.609	-43.510	-43.510	-44.821
TO MADHYA PRADESH	-43.478	-44.094	-44.094	-45.432
TO PUNJAB	0.000	0.000	0.000	0.000
TO HARYANA	-3.367	-3.424	-3.424	-3.540
TO BIHAR	-16.850	-17.200	-17.200	-17.722
TO RAJASTHAN	-41.653	-42.918	-42.918	-44.220
TO NEPAL	-4.171	-4.228	-4.228	-4.368
BTPS TO MP	0.000	0.000	0.000	0.000
TO HIMACHAL PRADESH	0.000	0.000	0.000	0.000
TO ORISSA	0.000	0.000	0.000	0.000
TO POWER EXCHANGE (IEX)	-117.598	-121.251	-117.598	-121.251
TO POWER EXCHANGE (PX)	-0.010	-0.010	-0.010	-0.010
TO SHARE PROJECT (HARYANA)	-11.333	-11.719	-11.333	-11.719
TO SHARE PROJECT (PUNJAB)	-11.163	-11.542	-11.163	-11.542
TOTAL	**-348.667**	**-357.078**	**-352.661**	**-363.612**
TOTAL SCHEDULED DRAWAL FROM THE GRID	**2829.562**	**2737.811**	**1378.917**	**1317.965**

TOTAL CONSUMPTION INCLUDING AUX. OF GENERATING STNs. EXCLUDING BTPS		1759.080
NET CONSUMPTION		**1746.391**
AVAILABILITY WITHIN DELHI		380.447
ACTUAL DRAWAL FROM THE GRID		1365.944
OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID ON THE BASIS OF SCHEDULED ALLOCATION MADE BY NRLDC TO DELHI AT PERIPHERY		47.979
LOAD SHEDDING		1.062
UNRESTRICTED DEMAND (GROSS)		1760.142
UNRESTRICTED DEMAND (NET)		1747.453
MAX. NET CONSUMPTION		68.896 ON 04.11.2016
MAX. LOAD SHEDDING		174MW ON 20.11.2016 AT 03.10HRS.
PEAK LOAD	Peak Demand during the month	SHEDDING AT PEAK TIME
DAY PEAK	3321MW AT 10.37.27HRS ON 08.11.2016	0 MW
EVENING PEAK	3510MW AT 18.17.33 ON 03.11.2016	0 MW
P.L.F. OF GENCO AND PRAGATI STNs.	RPH	0.00%
	GT	30.16%
	PRAGATI	73.01%
	RITHALA	0.00%
	BAWANA	12.99%
	Timarpur Okhla	115.69%

9 SHEDDING DETAILS DURING THE MONTH OF NOVEMBER 2016.

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	MES
		BYPL	BRPL				BYPL	BRPL			
1	**2**	**3**	**4**	**5**	**6**	**7=3 to 6**	8	9	10	11	12
01.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
02.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
03.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.006	0.000	0.000	0.000
04.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
05.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
06.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.060	0.000	0.000	0.000
07.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
08.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
09.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
10.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.071	0.009	0.000	0.000
11.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
12.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
13.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
14.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
15.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
16.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
17.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
18.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
19.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
20.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
21.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
22.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
23.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
24.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
25.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
26.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
27.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
28.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
29.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	0.000
30.Nov.16	0	0.000	0.000	0.000	0.000	**0.000**	0.000	0.027	0.011	0.000	0.000
TOTAL	**0**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.164**	**0.020**	**0.000**	**0.000**

ALL FIGURES IN MUs

Date	Shedding due to Transmission/Grid Constraints in Central Sector Stations / TTC / ATC VOILATION				DUE TO NEW GRID CODE REGULATION DEVIATOIN			Shedding due to Transmission/Grid Constraints in Central sector stations				Total	Total shedding due to grid restrictions
	BSES		NDPL	NDMC	BSES			BSES		TPDDL	NDMC		
	BYPL	BRPL			BYPL	BRPL	TPDDL	BYPL	BRPL				
	13	14	15	16	17	18	19	20	21	22	23	24=8 to 23	25=7+24
01.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
02.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
03.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.006
04.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
05.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
06.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.060	0.060
07.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
09.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.080	0.080
11.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.038	0.038
TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.184	0.184

ALL FIGURES IN MUs

Date	DUE TO T&D CONSTRAINTS IN DELHI SYSTEM								
	DTL					DISCOMS			
	BSES		NDPL	NDMC	MES	BSES		NDPL	NDMC
	BYPL	BRPL				BYPL	BRPL		
	26	27	28	29	30	31	32	33	34
01.Nov.16	0.000	0.000	0.004	0.000	0.000	0.003	0.006	0.000	0.000
02.Nov.16	0.000	0.003	0.000	0.000	0.000	0.003	0.016	0.000	0.000
03.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.001	0.000
04.Nov.16	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000
05.Nov.16	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.026	0.000
06.Nov.16	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000
07.Nov.16	0.000	0.009	0.000	0.000	0.000	0.001	0.008	0.000	0.000
08.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.014	0.000
09.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.007	0.000
10.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.000	0.000
11.Nov.16	0.000	0.000	0.010	0.000	0.000	0.000	0.008	0.000	0.000
12.Nov.16	0.000	0.000	0.000	0.000	0.000	0.015	0.000	0.001	0.000
13.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14.Nov.16	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.001	0.000
15.Nov.16	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.006	0.000
16.Nov.16	0.000	0.000	0.000	0.000	0.000	0.002	0.003	0.000	0.000
17.Nov.16	0.000	0.003	0.010	0.000	0.000	0.000	0.009	0.000	0.000
18.Nov.16	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000
19.Nov.16	0.000	0.023	0.003	0.000	0.000	0.000	0.004	0.004	0.000
20.Nov.16	0.000	0.000	0.003	0.000	0.000	0.000	0.005	0.000	0.000
21.Nov.16	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.000	0.000
22.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000
23.Nov.16	0.000	0.000	0.000	0.000	0.000	0.002	0.007	0.000	0.000
24.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.000
25.Nov.16	0.001	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000
26.Nov.16	0.008	0.002	0.000	0.004	0.000	0.000	0.022	0.000	0.000
27.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.000
28.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.014	0.000	0.000
29.Nov.16	0.009	0.000	0.001	0.004	0.000	0.000	0.000	0.000	0.000
30.Nov.16	0.076	0.079	0.131	0.018	0.000	0.001	0.013	0.078	0.000
TOTAL	**0.094**	**0.125**	**0.176**	**0.026**	**0.000**	**0.034**	**0.148**	**0.149**	**0.000**

ALL FIGURES IN MUs

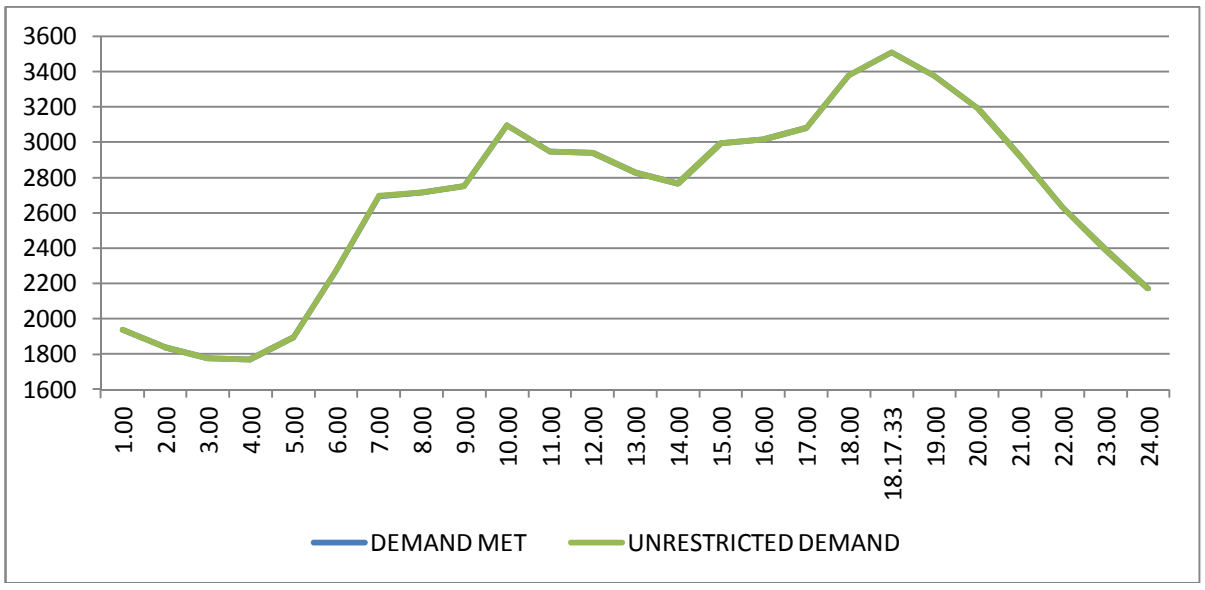
DATE	OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.				THEFT PRONE SHEDDING			TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE	GRAND TOTAL
	BSES		NDPL	NDMC	BSES		NDPL		
	BYPL	BRPL			BYPL	BRPL			
1	35	36	37	38	39	40	41	42= 26 to 41	43 = 25 + 42
01.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.013**	**0.013**
02.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.022**	**0.022**
03.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.008**	**0.014**
04.Nov.16	0.000	0.000	0.003	0.000	0.000	0.000	0.000	**0.004**	**0.004**
05.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.027**	**0.027**
06.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.003**	**0.063**
07.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.018**	**0.018**
08.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.013	**0.029**	**0.029**
09.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.011**	**0.011**
10.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.006**	**0.086**
11.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.018**	**0.018**
12.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.016**	**0.016**
13.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.000**
14.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.007**	**0.007**
15.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.007**	**0.007**
16.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.005**	**0.005**
17.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.022**	**0.022**
18.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.007**	**0.007**
19.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.034**	**0.034**
20.Nov.16	0.014	0.058	0.000	0.000	0.000	0.000	0.010	**0.090**	**0.090**
21.Nov.16	0.000	0.006	0.001	0.000	0.000	0.000	0.000	**0.010**	**0.010**
22.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.007**	**0.007**
23.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.009**	**0.009**
24.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.005**	**0.005**
25.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.003	**0.011**	**0.011**
26.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.005	**0.041**	**0.041**
27.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.011**	**0.011**
28.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.014**	**0.014**
29.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.006	**0.020**	**0.020**
30.Nov.16	0.000	0.000	0.000	0.000	0.000	0.000	0.007	**0.403**	**0.441**
TOTAL	**0.014**	**0.064**	**0.004**	**0.000**	**0.000**	**0.000**	**0.044**	**0.878**	**1.062**

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
01.Nov.16	**59.725**	**3054**	19:00	0	**3054**	**3054**	19:00	**3054**	0
02.Nov.16	**64.163**	**3473**	18:23:44	0	**3473**	**3473**	18:23:44	**3473**	0
03.Nov.16	**68.340**	**3510**	18:17:33	0	**3510**	**3510**	18:17:33	**3510**	0
04.Nov.16	**68.896**	**3428**	17:57:16	0	**3428**	**3428**	17:57:16	**3428**	0
05.Nov.16	**62.214**	**3180**	18:01:41	3	**3183**	**3183**	18:01:41	**3180**	3
06.Nov.16	**60.451**	**3098**	11:04:31	0	**3098**	**3098**	11:04:31	**3098**	0
07.Nov.16	**65.152**	**3255**	18:09:07	3	**3258**	**3258**	18:09:07	**3255**	3
08.Nov.16	**62.094**	**3321**	10:37:27	0	**3321**	**3321**	10:37:27	**3321**	0
09.Nov.16	**60.942**	**3279**	18:16:24	0	**3279**	**3279**	18:16:24	**3279**	0
10.Nov.16	**60.032**	**3167**	17:59:22	0	**3167**	**3167**	17:59:22	**3167**	0
11.Nov.16	**58.788**	**3086**	10:37:14	0	**3086**	**3086**	10:37:14	**3086**	0
12.Nov.16	**53.993**	**2828**	11:01:44	0	**2828**	**2828**	11:01:44	**2828**	0
13.Nov.16	**51.034**	**2742**	10:51:43	0	**2742**	**2742**	10:51:43	**2742**	0
14.Nov.16	**54.679**	**2906**	11:00:38	0	**2906**	**2906**	11:00:38	**2906**	0
15.Nov.16	**56.207**	**2948**	18:01:40	0	**2948**	**2948**	18:01:40	**2948**	0
16.Nov.16	**55.678**	**2960**	18:03:29	0	**2960**	**2960**	18:03:29	**2960**	0
17.Nov.16	**55.564**	**2984**	18:01:56	0	**2984**	**2984**	18:01:56	**2984**	0
18.Nov.16	**56.636**	**3108**	10:10:44	0	**3108**	**3108**	10:10:44	**3108**	0
19.Nov.16	**54.482**	**2871**	10:05:32	0	**2871**	**2871**	10:05:32	**2871**	0
20.Nov.16	**52.429**	**2986**	10:32:28	0	**2986**	**2986**	10:32:28	**2986**	0
21.Nov.16	**55.802**	**3012**	10:25:59	0	**3012**	**3012**	10:25:59	**3012**	0
22.Nov.16	**56.185**	**3186**	17:50:34	0	**3186**	**3186**	17:50:34	**3186**	0
23.Nov.16	**57.312**	**3083**	10:02:13	0	**3083**	**3083**	10:02:13	**3083**	0
24.Nov.16	**57.010**	**3062**	10:16:40	0	**3062**	**3062**	10:16:40	**3062**	0
25.Nov.16	**57.542**	**3184**	10:20:47	0	**3184**	**3184**	10:20:47	**3184**	0
26.Nov.16	**54.919**	**3083**	10:16:51	0	**3083**	**3083**	10:16:51	**3083**	0
27.Nov.16	**53.379**	**3008**	11:00	0	**3008**	**3008**	11:00	**3008**	0
28.Nov.16	**57.255**	**3048**	09:50:44	0	**3048**	**3048**	09:50:44	**3048**	0
29.Nov.16	**56.240**	**3197**	10:38:31	0	**3197**	**3197**	10:38:31	**3197**	0
30.Nov.16	**59.243**	**3001**	18:18:09	0	**3001**	**3001**	18:18:09	**3001**	0
TOTAL	**1746.386**	**3510** 03.11.2016	18:17:33	0	**3510** 03.11.2016	**3510**	18:17:33	**3510**	0

10 LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING NOVEMBER 2016 ON 03.11.2016- 3510MW AT 18.17.33HRS.

All figures in MW

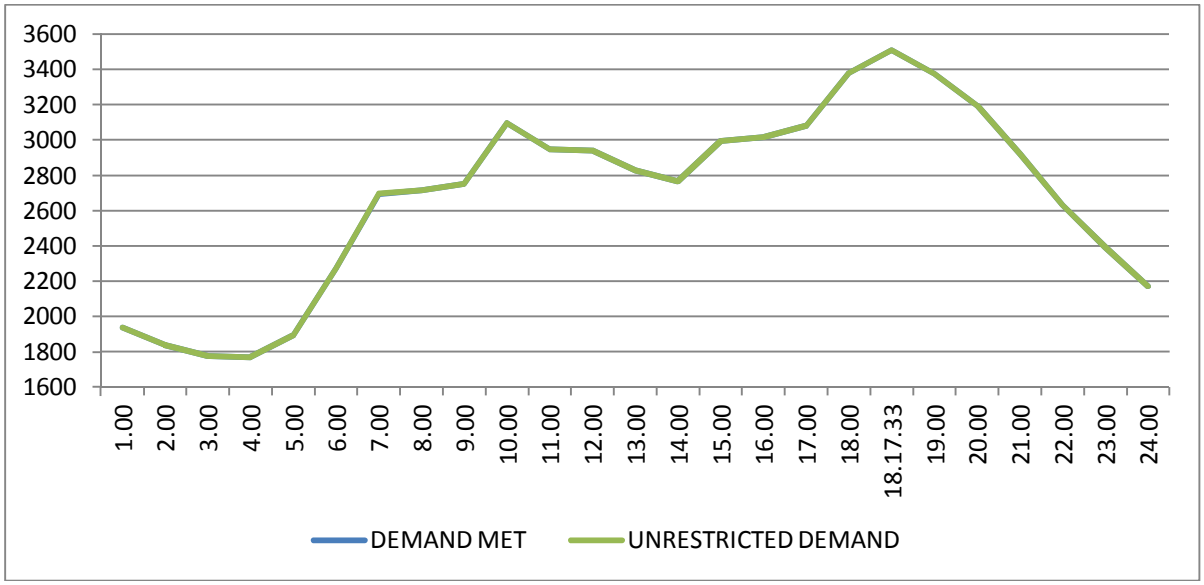
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1938	0	1938
2.00	1839	0	1839
3.00	1777	0	1777
4.00	1769	0	1769
5.00	1893	0	1893
6.00	2272	0	2272
7.00	2694	2	2696
8.00	2717	0	2717
9.00	2753	0	2753
10.00	3097	0	3097
11.00	2947	0	2947
12.00	2938	0	2938
13.00	2827	0	2827
14.00	2765	0	2765
15.00	2994	0	2994
16.00	3015	0	3015
17.00	3080	0	3080
18.00	3377	0	3377
18.17.33	3510	0	3510
19.00	3373	0	3373
20.00	3192	0	3192
21.00	2919	0	2919
22.00	2632	0	2632
23.00	2394	0	2394
24.00	2171	0	2171
Total (IN MUS)	**68.340**	**0.014**	**68.354**



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING NOVEMBER 2016 ON 03.11.2016-3510MW AT 18.17.33HRS.

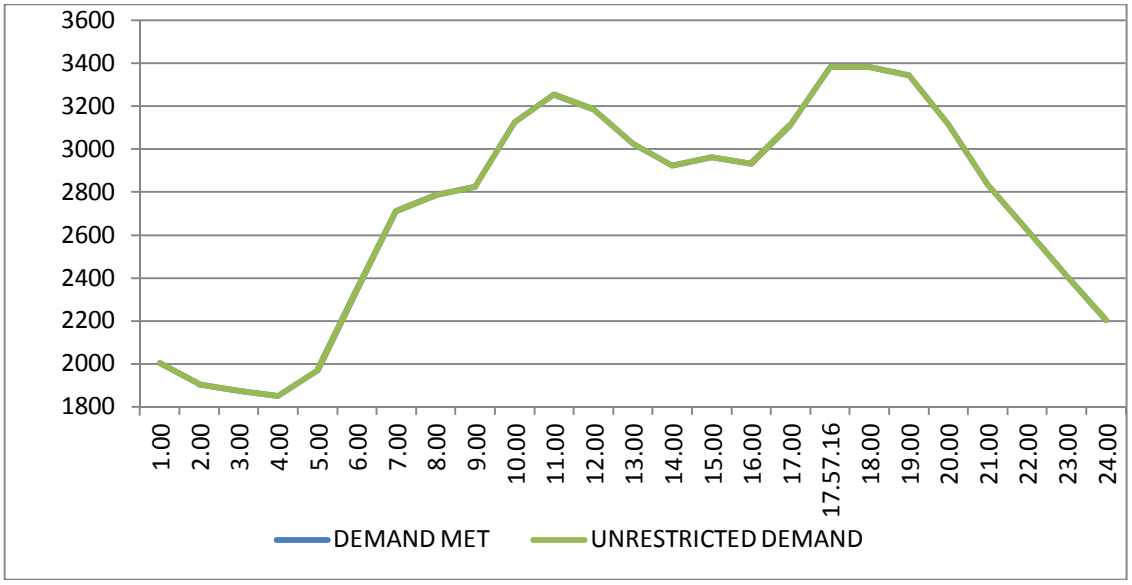
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1938	0	1938
2.00	1839	0	1839
3.00	1777	0	1777
4.00	1769	0	1769
5.00	1893	0	1893
6.00	2272	0	2272
7.00	2694	2	2696
8.00	2717	0	2717
9.00	2753	0	2753
10.00	3097	0	3097
11.00	2947	0	2947
12.00	2938	0	2938
13.00	2827	0	2827
14.00	2765	0	2765
15.00	2994	0	2994
16.00	3015	0	3015
17.00	3080	0	3080
18.00	3377	0	3377
18.17.33	3510	0	3510
19.00	3373	0	3373
20.00	3192	0	3192
21.00	2919	0	2919
22.00	2632	0	2632
23.00	2394	0	2394
24.00	2171	0	2171
Total (IN MUS)	**68.340**	**0.014**	**68.354**



12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING NOVEMBER 2016 – 04.11.2016 – 68.896Mus All figures in MW

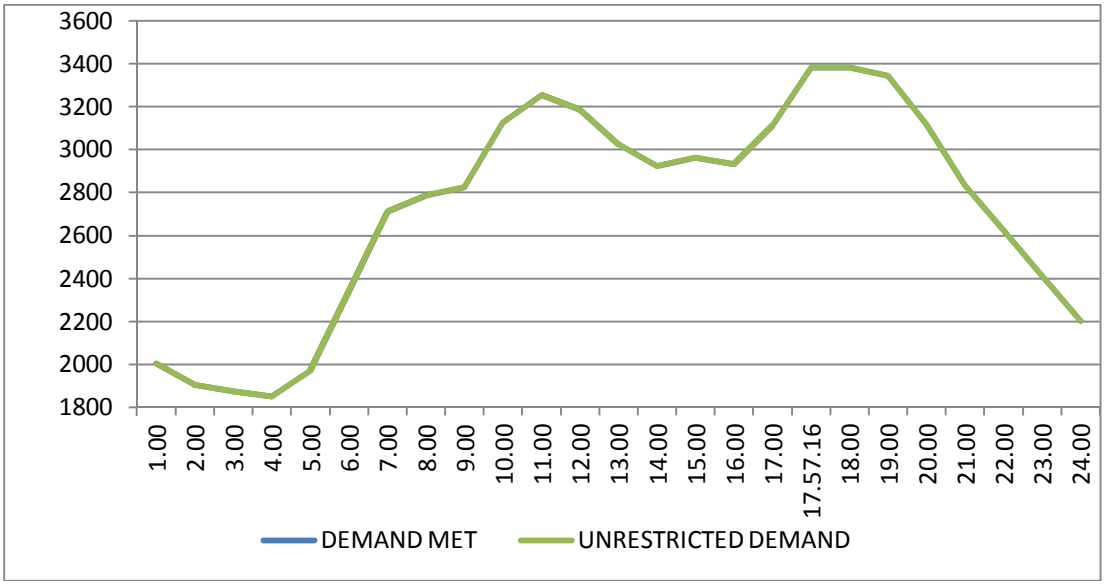
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	2005	0	2005
2.00	1906	0	1906
3.00	1874	0	1874
4.00	1852	0	1852
5.00	1971	0	1971
6.00	2343	0	2343
7.00	2713	0	2713
8.00	2787	0	2787
9.00	2826	0	2826
10.00	3125	0	3125
11.00	3254	0	3254
12.00	3185	0	3185
13.00	3026	0	3026
14.00	2923	0	2923
15.00	2962	0	2962
16.00	2931	0	2931
17.00	3114	0	3114
17.57.16	3381	0	3381
18.00	3381	0	3381
19.00	3343	0	3343
20.00	3117	0	3117
21.00	2833	0	2833
22.00	2623	0	2623
23.00	2412	0	2412
24.00	2203	0	2203
Total (IN MUS)	**68.896**	**0.004**	**68.900**



13 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING NOVEMBER 2016 – 04.11.2016 – 68.900 Mus

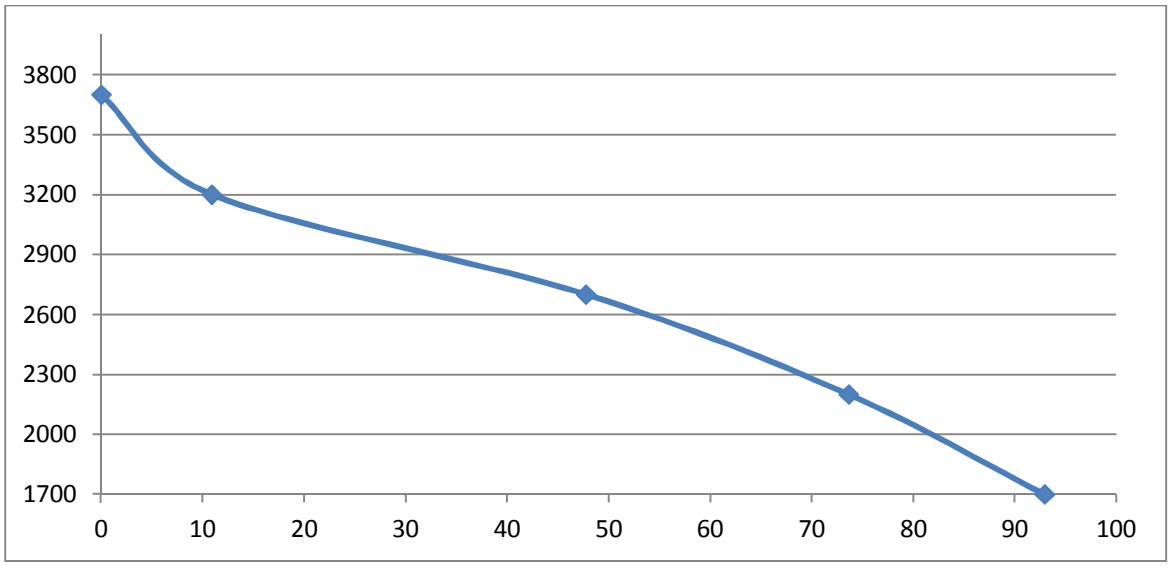
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	2005	0	2005
2.00	1906	0	1906
3.00	1874	0	1874
4.00	1852	0	1852
5.00	1971	0	1971
6.00	2343	0	2343
7.00	2713	0	2713
8.00	2787	0	2787
9.00	2826	0	2826
10.00	3125	0	3125
11.00	3254	0	3254
12.00	3185	0	3185
13.00	3026	0	3026
14.00	2923	0	2923
15.00	2962	0	2962
16.00	2931	0	2931
17.00	3114	0	3114
17.57.16	3381	0	3381
18.00	3381	0	3381
19.00	3343	0	3343
20.00	3117	0	3117
21.00	2833	0	2833
22.00	2623	0	2623
23.00	2412	0	2412
24.00	2203	0	2203
Total (IN MUS)	**68.896**	**0.004**	**68.900**



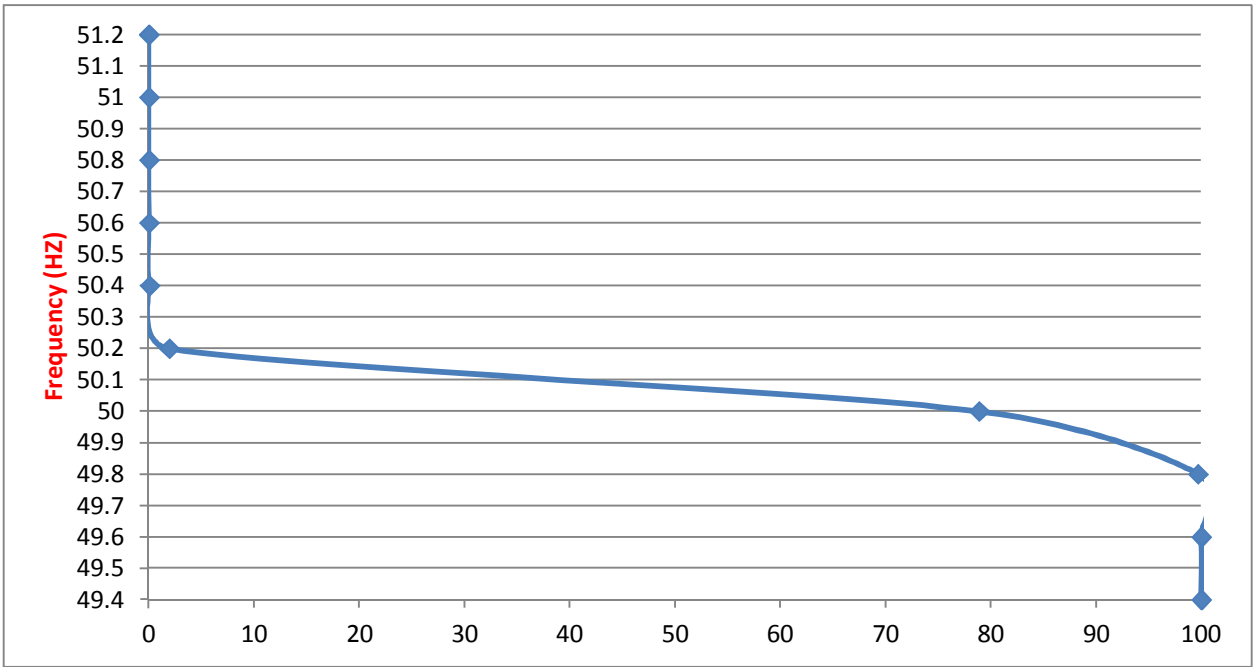
14 LOAD DURATION CURVE FOR NOVEMBER 2016

Load in MW	Percentage of Time
Above 3700	0.00
Above 3200	10.87
Above 2700	47.73
Above 2200	73.60
Above 1700	92.91



15 FREQUENCY ANALYSIS FOR THE MONTH OF NOVEMBER 2016

Frequency Range in Hz.	Percentage of time
Above 51.0	0.01
Above 50.8	0.01
Above 50.6	0.02
Above 50.4	0.07
Above 50.2	1.92
Above 50	78.88
Above 49.8	99.68
Above 49.6	99.99
Above 49.4	100.00



16 VOLTAGE PROFILE OF 220 KV SUB-STATIONS IN DELHI DURING NOVEMBER 2016

All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
01.Nov.16	232.53	221.44	222.08	209.83
02.Nov.16	232.01	219.5	220.4	205.96
03.Nov.16	232.53	217.31	221.05	199.77
04.Nov.16	232.14	218.6	223.11	206.86
05.Nov.16	233.69	219.89	221.82	200.28
06.Nov.16	234.33	222.98	222.21	209.57
07.Nov.16	234.07	218.34	229.3	201.7
08.Nov.16	232.66	219.63	229.82	198.48
09.Nov.16	232.14	219.76	222.21	196.93
10.Nov.16	233.69	221.05	220.15	196.67
11.Nov.16	234.07	221.05	225.05	203.64
12.Nov.16	235.36	219.89	221.44	202.48
13.Nov.16	233.95	223.5	222.08	203.51
14.Nov.16	234.33	218.86	221.56	203.12
15.Nov.16	233.04	218.6	215.37	200.8
16.Nov.16	232.53	219.63	218.6	197.32
17.Nov.16	233.04	214.08	222.21	198.99
18.Nov.16	233.17	214.73	221.69	198.35
19.Nov.16	232.01	218.86	218.6	199.77
20.Nov.16	234.59	219.5	237.56	0
21.Nov.16	235.62	216.92	231.49	208.67
22.Nov.16	234.07	217.95	226.72	206.99
23.Nov.16	233.43	217.82	225.56	206.09
24.Nov.16	234.07	216.92	222.98	201.19
25.Nov.16	233.43	218.6	222.34	209.31
26.Nov.16	233.3	216.92	217.82	206.73
27.Nov.16	232.4	216.53	221.56	204.02
28.Nov.16	233.04	216.53	220.4	202.99
29.Nov.16	233.3	215.37	220.92	204.02
30.Nov.16	233.43	0	222.08	208.28

17 VOLTAGE PROFILE OF 400 KV SUB-STATIONS IN DELHI DURING NOVEMBER 2016

All figures in kV

Date	400kV Bamnauli Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01.Nov.16	416.68	02:01:20	403.08	18:39:02	410.46
02.Nov.16	414.57	02:22:44	399.57	12:21:55	407.67
03.Nov.16	414.81	01:15:37	396.99	12:07:58	406.17
04.Nov.16	416.92	22:00:33	398.63	06:29:02	406.64
05.Nov.16	416.68	01:45:44	396.75	11:23:16	407.14
06.Nov.16	417.86	21:40:00	402.85	10:16:08	410.4
07.Nov.16	416.92	20:56:33	394.88	11:41:12	407.59
08.Nov.16	415.51	00:07:35	396.99	11:39:25	407.18
09.Nov.16	415.74	21:55:41	395.11	09:35:29	406.89
10.Nov.16	418.09	01:58:42	396.99	11:21:22	408.28
11.Nov.16	419.03	02:01:55	399.8	11:24:56	408.93
12.Nov.16	419.5	03:02:18	395.58	12:13:19	408.53
13.Nov.16	418.32	20:59:34	403.79	09:09:03	411.31
14.Nov.16	419.5	21:34:28	397.92	12:13:07	410.2
15.Nov.16	421.37	04:00:59	398.63	11:14:51	410.56
16.Nov.16	421.84	02:00:42	399.57	09:20:27	410.49
17.Nov.16	421.37	02:01:06	396.28	09:37:17	410.39
18.Nov.16	421.61	21:57:22	391.36	11:16:20	409.04
19.Nov.16	420.9	20:58:45	394.64	10:25:44	411.9
20.Nov.16	423.25	01:59:26	400.27	11:43:17	413.12
21.Nov.16	424.19	04:00:10	394.64	12:18:21	409.87
22.Nov.16	423.01	01:59:33	396.28	09:16:14	410.9
23.Nov.16	423.25	02:59:46	396.05	11:39:47	410.68
24.Nov.16	423.01	02:02:10	395.58	12:14:41	409.43
25.Nov.16	422.55	01:59:53	398.16	18:09:35	411
26.Nov.16	421.84	03:59:07	393.7	11:18:48	407.66
27.Nov.16	421.37	02:59:40	394.41	10:37:41	411.41
28.Nov.16	422.08	03:56:54	392.3	11:37:45	408
29.Nov.16	419.5	20:28:59	390.42	11:10:08	404.66
30.Nov.16	421.84	02:00:11	414.34	00:00:00	420.47

All figures in kV

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01.Nov.16	427.7	02:01:29	411.99	18:38:12	420.66
02.Nov.16	426.3	02:42:35	409.18	12:19:30	417.72
03.Nov.16	426.06	01:16:46	405.43	18:14:32	415.87
04.Nov.16	426.77	01:59:55	406.83	18:13:33	416.12
05.Nov.16	427.7	01:46:55	406.6	11:27:29	417.73
06.Nov.16	427.7	02:51:10	411.29	18:36:03	421.23
07.Nov.16	428.64	01:59:51	404.25	11:39:31	418.09
08.Nov.16	426.53	00:08:47	407.3	11:39:39	417.59
09.Nov.16	426.77	02:02:29	406.13	9:35:25	416.59
10.Nov.16	428.88	01:58:44	409.18	11:21:31	419
11.Nov.16	430.75	02:02:06	411.29	12:13:16	419.77
12.Nov.16	429.58	01:58:28	406.83	12:13:21	419.21
13.Nov.16	429.58	20:52:45	414.57	18:10:11	422.69
14.Nov.16	430.28	02:02:10	408.94	12:13:57	420.28
15.Nov.16	427.94	03:59:14	408.71	11:14:57	419.23
16.Nov.16	428.41	02:00:34	408.71	11:14:29	418.56
17.Nov.16	427.94	01:59:17	407.3	9:38:39	418.3
18.Nov.16	428.64	01:00:44	400.27	11:16:57	416.78
19.Nov.16	427.7	20:58:59	406.6	10:25:44	419.69
20.Nov.16	429.81	01:58:36	408.71	11:43:26	420.42
21.Nov.16	431.22	02:01:23	402.85	12:18:26	418.01
22.Nov.16	430.99	02:01:22	406.13	11:42:09	419.09
23.Nov.16	429.81	02:59:12	404.49	11:39:47	418.17
24.Nov.16	429.81	02:02:36	403.08	12:13:51	417.07
25.Nov.16	429.58	01:59:33	407.3	18:11:44	419.08
26.Nov.16	429.11	02:34:00	402.61	11:13:16	415.79
27.Nov.16	428.88	21:00:57	402.14	10:37:00	418.73
28.Nov.16	428.88	02:01:59	401.68	11:37:06	416.52
29.Nov.16	427.47	02:02:23	400.74	11:10:43	413.7
30.Nov.16	428.64	01:58:15	404.25	13:44:22	418.86

18 DETAILS OF LUMPED CAPACITORS AT NEAREST 220 KV SUBSTATION

Sl. No	SUB-STATION	INSTALLED CAPACITY			
		66KV	33kV	11kV	**TOTAL**
1	IP YARD		30.00		30.00
1	Kamla Market			16.35	16.35
2	Minto Road				0.00
3	GB Pant Hosp			10.48	10.48
4	Delhi Gate			16.30	16.30
5	Tilakmarg			5.04	5.04
7	Cannaught Place			10.08	10.08
8	Kilokri		10.08	10.48	20.56
9	NDSE-II				0.00
11	Nizamuddin				0.00
12	Exhibition-I				0.00
13	Exhibition-II				0.00
14	Defence Colony				0.00
15	IG Stadium		10.08	5.45	15.53
16	Lajpat Nagar				0.00
17	IP Estate			10.90	10.90
		0.00	50.16	85.08	135.24
2	Electric Lane				
1	Electric Lane			5.04	5.04
2	Scindia House			10.44	10.44
3	Mandi House			10.80	10.80
4	Raisina Road			10.08	10.08
5	Raja Bazar			10.08	10.08
		0.00	0.00	46.44	46.44
3	RPH Station		20.00		20.00
1	Lahori Gate			10.49	10.49
2	Jama Masjid			10.48	10.48
4	Kamla Market				0.00
5	Minto Road			10.90	10.90
6	GB Pant Hosp				0.00
7	IG Stadium				0.00
		0.00	20.00	31.87	51.87
4	Parkstreet S/stn	20.00	20.00		40.00
1	Shastri Park		10.90	5.45	16.35
2	Faiz Road			18.05	18.05
3	Motia Khan			16.30	16.30
4	Prasad Nagar			16.25	16.25
5	Anand Parbat			10.80	10.80
6	Shankar Road			10.44	10.44
7	Rama Road			0.00	0.00
8	Baird Road			10.08	10.08
9	Hanuman Road			10.08	10.08
10	Pusa			5.44	5.44
11	Ridge Valley			0.00	0.00
12	B. D. Marg			5.40	5.40
13	Nirman Bhawan			5.04	5.04
		20.00	30.90	113.33	164.23
5	Naraina S/stn		20.00	5.04	25.04
1	DMS			10.85	10.85
2	Mayapuri		10.87	10.40	21.27
3	Inderpuri		13.26	5.04	18.30
4	Rewari line				0.00
5	Khyber Lane		10.05		10.05
6	Kirbi Place		10.05		10.05
7	Payal			10.08	10.08
8	A-21 Naraina			4.80	4.80
8	Saraswati Garden			10.08	10.08
		0.00	64.23	56.29	120.52

Sl. No	SUB-STATION	INSTALLED CAPACITY			
		66KV	33kV	11kV	**TOTAL**
6	Mehrauli S/stn	80.00		5.04	85.04
1	Adchini			14.61	14.61
2	Andheria Bagh			10.85	10.85
3	IIT			10.90	10.90
4	JNU		10.03	10.03	20.06
5	Bijwasan			15.47	15.47
6	DC Saket		10.08	9.98	20.06
7	Malviya Nagar				0.00
8	C Dot			10.48	10.48
9	Vasant kunj B-Blk	21.79		10.90	32.69
10	Vasant kunj C-Blk	20.16		10.48	30.64
11	Palam				0.00
12	IGNOU			5.04	5.04
13	R. K. Puram-I			10.07	10.07
14	Vasant Vihar			19.25	19.25
15	Pusp Vihar			10.44	10.44
16	Bhikaji Cama Place		10.08	10.07	20.15
		121.95	30.19	163.61	315.75
7	Vasantkunj S/stn	40.00		5.04	45.04
1	R. K. Puram-II			10.80	10.80
2	Vasant kunj C-Blk				0.00
3	Vasant kunj D-Blk			9.63	9.63
4	Ridge Valley				0.00
		40.00	0.00	25.47	65.47
8	Okhla S/stn	60.00	10.00	5.04	75.04
1	Balaji			10.80	10.80
2	East of Kailash			15.89	15.89
3	Alaknanda			16.30	16.30
4	Malviya Nagar	21.79	20.16	10.85	52.80
5	Masjid Moth			16.30	16.30
6	Nehru Place			21.34	21.34
7	Okhla Ph-I	21.79		16.30	38.09
8	Okhla Ph-II		20.93	15.47	36.40
9	Shivalik			10.80	10.80
10	Batra			15.90	15.90
11	VSNL			10.90	10.90
12	Siri Fort			10.49	10.49
13	Tuglakabad			10.85	10.85
		103.58	51.09	187.23	341.90
9	Lodhi Road S/stn			20.00	20.00
1	Defence Colony			14.85	14.85
2	Hudco			10.90	10.90
3	Lajpat Nagar			10.90	10.90
4	Nizamuddin			10.44	10.44
5	Vidyut Bhawan (Shahjahan Rd)			10.80	10.80
6	Ex. Gr. II			0.00	0.00
7	IHC			0.00	0.00
		0.00	0.00	77.89	77.89
10	Sarita Vihar S/stn	20.00		5.04	25.04
1	Sarita Vihar			10.07	10.07
2	MCIE			10.06	10.06
3	Mathura Road	20.16		11.69	31.85
4	Jamia Millia			10.89	10.89
5	Sarai Julena		10.08	16.29	26.37
6	Jasola			5.44	5.44
		40.16	10.08	69.48	119.72

Sl. No	SUB-STATION	INSTALLED CAPACITY			
		66KV	33kV	11kV	**TOTAL**
11	Wazirabad				
1	Bhagirathi		14.40	18.10	32.50
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			14.40	14.40
7	East of Loni Road			18.00	18.00
8	Shastri Park			10.90	10.90
9	Karawal Nagar			5.40	5.40
10	Sonia Vihar			14.70	14.70
		41.95	47.04	150.64	239.63
12	Geeta Colony				
1	Geeta Colony			10.49	10.49
2	Kanti Nagar			18.10	18.10
3	Kailash Nagar			15.48	15.48
4	Seelam Pur				0.00
5	Shakar Pur			10.80	10.80
		0.00	0.00	54.87	54.87
13	Gazipur S/stn	40.00		5.04	45.04
1	Dallupura	28.80		10.90	39.70
2	Vivek Vihar			9.57	9.57
3	GT Road			10.85	10.85
4	Kondli	20.16		10.85	31.01
5	MVR-I			10.90	10.90
6	MVR-II	20.16		10.44	30.60
7	PPG Ind. Area			10.06	10.06
		109.12	0.00	78.61	187.73
14	Patparganj S/stn	40.00	20.00	5.04	65.04
1	GH-I	19.89		10.45	30.34
2	GH-II	20.09		10.90	30.99
3	CBD		10.03	15.48	25.51
4	Guru Angad Nagar			15.49	15.49
5	Karkadooma		10.80	10.44	21.24
6	Preet Vihar			10.07	10.07
7	CBD-II			10.80	10.80
8	Shakarpur				0.00
9	Jhilmil			10.80	10.80
10	Dilshad Garden	20.16		16.35	36.51
11	Khichripur	21.79		15.89	37.68
12	Mother Dairy				0.00
13	Scope Building				0.00
14	Vivek Vihar				0.00
15	Akhardham			14.60	14.60
		121.93	40.83	146.31	309.07
15	Najafgarh S/stn	60.00		5.04	65.04
1	A4 Paschim Vihar			10.80	10.80
2	Nangloi	21.73		15.84	37.57
3	Nangloi W/W	20.89		10.85	31.74
4	Pankha Road			15.88	15.88
5	Jaffarpur			15.43	15.43
7	Inst. Area Janakpuri (Sagarpur)			17.60	17.60
8	Paschimpuri		10.05	15.47	25.52
9	Paschim Vihar	41.83		15.43	57.26
10	Mukherjee Park			20.83	20.83
11	Udyog Nagar			10.43	10.43
12	Choukhandi			10.07	10.07
13	DJB Najafgarh			21.60	21.60
		144.45	10.05	185.27	339.77

Sl. No	SUB-STATION	INSTALLED CAPACITY			
		66KV	33kV	11kV	**TOTAL**
16	Pappankalan-I S/stn	20.00		5.04	25.04
1	Bindapur Grid G-3 PPK	21.73		15.85	37.58
2	Bodella-I	20.10		16.24	36.34
3	Bodella-II	21.73		17.64	39.37
4	DC Janakpuri			10.03	10.03
5	G-2 PPK (Nasirpur)			10.80	10.80
6	G-5 PPK (Matiala)			15.51	15.51
7	G-6 PPK			5.40	5.40
8	G-15 PPK			10.80	10.80
9	Harinagar	21.18		16.25	37.43
10	Rewari line			5.44	5.44
		104.74	0.00	129.00	233.74
17	BBMB Rohtak Road				
1	S.B. Mill			10.07	10.07
2	Rama Road			10.88	10.88
3	Ram Pura			10.48	10.48
4	Rohtak Road			10.08	10.08
5	Vishal			10.40	10.40
6	Madipur			10.43	10.43
7	Sudershan Park			10.08	10.08
8	Kirti Nagar			5.44	5.44
		0.00	0.00	77.86	77.86
18	Shalimarbagh S/stn		40.00	6.00	46.00
1	S.G.T. Nagar			5.44	5.44
2	Ashok Vihar			0.00	0.00
3	Haiderpur			11.39	11.39
4	SMB FC			12.64	12.64
5	Rani Bagh			5.44	5.44
6	SMB KHOSLA			5.44	5.44
		0.00	40.00	46.35	86.35
19	Subzimandi S/stn			6.00	6.00
1	Shakti Nagar			5.04	5.04
2	Gulabibagh			10.88	10.88
3	Shahzadabagh			15.79	15.79
4	DU			5.44	5.44
5	Tripolia			10.88	10.88
6	B. G. Road			5.40	5.40
		0.00	0.00	59.43	59.43
20	Narela S/stn	40.00		5.04	45.04
1	A-7 Narela			10.88	10.88
2	Azad Pur			5.44	5.44
3	Badli	20.00		5.95	25.95
4	DSIDC Narela-1			5.95	5.95
5	GTK			5.94	5.94
6	Jahangirpuri	20.00	10.00	0.00	30.00
7	Bhalswa			12.64	12.64
8	Pitampura-I	20.00		5.04	25.04
9	RG-1			5.44	5.44
		100.00	10.00	62.32	172.32

Sl. No	SUB-STATION	INSTALLED CAPACITY			
		66KV	33kV	11kV	**TOTAL**
21	Gopalpur S/stn		30.00	5.04	35.04
1	Hudson Lane			5.95	5.95
2	Wazirabad			7.20	7.20
3	Indra Vihar			5.95	5.95
4	DIFR			5.44	5.44
5	GTK Road			5.44	5.44
6	Jahangirpuri		10.00	5.95	15.95
7	Civil lines			7.20	7.20
8	Pitam Pura-3			5.44	5.44
9	SGT Nagar			5.95	5.95
10	Tiggipur			10.88	10.88
11	Model Town			14.40	14.40
12	Azad Pur			5.44	5.44
		0.00	40.00	90.28	130.28
22	Rohini S/stn	40.00		6.00	46.00
1	Rohini Sec-22			18.08	18.08
2	Rohini Sec-24			5.44	5.44
3	Rohini-3			5.95	5.95
4	Rohini-4			11.39	11.39
5	Rohini-5			11.39	11.39
6	Rohini-6			0.00	0.00
7	Mangolpuri-2	20.00		7.20	27.20
8	Pitam Pura-1			5.44	5.44
9	Pitam Pura-2			10.48	10.48
10	Rohini DC-1			14.40	14.40
11	AIR Kham pur			11.90	11.90
		60.00	0.00	107.67	167.67
23	Kanjhawala S/stn	20.00		5.04	25.04
1	Bawana Clear Water			14.30	14.30
2	Pooth Khoord	20.00		5.44	25.44
4	Rohini -2			13.15	13.15
		40.00	0.00	37.93	77.93
24	BAWANA S/stn				
1	Bawana S/stn No. 6			10.88	10.88
2	Bawana S/stn No. 7			7.20	7.20
		0.00	0.00	18.08	18.08
25	Kashmeregate S/stn			5.04	5.04
1	Civil lines			7.20	7.20
2	Town Hall			8.64	8.64
3	Fountain			5.45	5.45
		0.00	0.00	26.33	26.33
26	Pappankalan-II				
1	DMRC				0.00
2	HASTAL			21.60	21.60
3	GGSH			10.80	10.80
		0.00	0.00	32.40	32.40
27	Trauma Center (AIIMS)				
1	AIIMS		13.26	5.04	18.30
2	Trauma Center			10.08	10.08
3	Netaji Nagar			15.12	15.12
4	Sanjay Camp			10.08	10.08
5	Kidwai Nagar			10.08	10.08
6	SJ Airport			5.04	5.04
7	Race Course			10.44	10.44
		0.00	13.26	65.88	79.14

Sl. No	SUB-STATION	INSTALLED CAPACITY			
		66KV	33kV	11kV	**TOTAL**
28	MUNDKA				
1	Mangolpuri-I			20.35	20.35
2	Rohini Sec-23	20.00		12.64	32.64
3	66kV Mundka			21.60	21.60
		20.00	0.00	54.59	74.59
29	DSIDC BAWANA				
1	DSIDC NRL-1	20.00			20.00
2	DSIDC NRL-2			16.32	16.32
3	Bawana Clear Water			7.30	7.30
4	Bawana-1			14.40	14.40
		20.00	0.00	38.02	58.02
30	RIDGE VALLEY				
1	Keventry Diary			10.08	10.08
2	Nehru Park			5.04	5.04
3	State Guest House			5.40	5.40
4	Bapu Dham			15.48	15.48
		0.00	0.00	36.00	36.00
31	IP EXTN (PRAGATI)				
1	Vidyut Bhawan			10.08	10.08
2	Dalhousie Road			5.04	5.04
3	National Archives			10.08	10.08
4	School Lane			10.44	10.44
		0.00	0.00	35.64	35.64
32	Wazirpur				
1	Tri Nagar			10.88	10.88
2	Wazirpur-1			17.18	17.18
3	Wazirpur-2			13.20	13.20
4	Ashok vihar			17.80	17.80
5	Azad Pur			5.44	5.44
6	GTK			4.80	4.80
		0.00	0.00	69.30	69.30
33	Peeragarhi				
1	Rani Bagh			5.44	5.44
2	Rani Bagh cc			9.60	9.60
		0.00	0.00	15.04	15.04
34	Rohini-II				
1	Rohini-6			13.15	13.15
		0.00	0.00	13.15	13.15

Utility	**HT**	**LT**	**Total**
BYPL	901.18	102.00	**1003.18**
BRPL	1264.49	242.00	**1506.49**
TPDDL	820.34	119.00	**939.34**
NDMC	253.74	24.00	**277.74**
DTL	753.52	0.00	**753.52**
IPGCL (RPH)	20.00	0.00	**20.00**
MES	20.10	0.00	**20.10**
TOTAL	**4033.37**	**487.00**	**4520.37**

20 DETAILS OF BREAK-DOWNS DURING THE MONTH OF NOVEMBER 2016

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
1	1.11.16	17:30	220KV BAWANA-SHALIMARBAGH CKT-II	1.11.16	17:53	AT SHALIMARBAGH CKT. TRIPPED ON 97AX, BUS BAR PROT. OPERATED. AT BAWANA CKT. DID NOT TRIPPED.
2	1.11.16	17:30	SHALIMAR BAGH 220/33kV 100MVA Tx-II	1.11.16	17:37	TR. TRIPPED ON 97AX.
3	1.11.16	17:30	SHALIMAR BAGH 220/33kV 100MVA Tx-I	1.11.16	17:37	TR. TRIPPED ON 97AX.
4	2.11.16	15:38	LODHI RD 220/33kV 100MVA Tx-II	3.11.16	02:10	TR. TRIPPED ON DIFFERENTIAL, 86.
5	3.11.16	11:14	SARITA VIHAR 220/66kV 100MVA Tx-I	3.11.16	12:05	TR. TRIPPED ON 30B, HIGH WINDING TEMP.
6	2.11.16	23:20	220kV BAMNAULI-PAPPANKALAN-I CKT-I	3.11.16	08:40	AT PAPANKALAN-I CKT. TRIPPED ON 195.
7	4.11.16	14:10	220KV GAZIPUR - MAHARANIBAGH CKT. -II	4.11.16	17:20	AT MAHARANI BAGH CKT. TRIPPED ON DIST PROT, ZONE-I, GEN TRIP. AT GAZIPUR CKT. TRIPPED ON DIST PROT, ZONE-I, R-Y PHASE.
8	7.11.16	01:00	GAZIPUR 220/66kV 100MVA Tx-II	7.11.16	07:10	TR. TRIPPED WITHOUT INDICATION.
9	7.11.16	01:45	220kV PRAGATI - SARITA VIHAR CKT - I	7.11.16	02:45	AT SARITA VIHAR CKT. TRIPPED ON DIST PROT, ZONE-I, DIST 653.7M. AT PRAGARI CKT. TRIPPED N DIST. PROT, ZONE-I, DIST 10.33KM,
10	7.11.16	11:37	220kV DIAL- MEHRAULI CKT-I	7.11.16	13:57	AT MEHRAULI CKT. TRIPPED ON DIST PROT, ZONE-I, DIST 1.539KM. AT DIAL CKT. TRIPPED ON R PHASE LINE DIFFERENTIAL.
11	7.11.16	15:28	220kV GAZIPUR - BTPS CKT	7.11.16	17:50	AT BTPS CKT. TRIPPED ON DIST PROT, DIST 4.3KM, CB OF CKT. WAS OPEN AT GAZIPUR.
12	9.11.16	07:10	KANJHAWALA 220/66kV 100MVA Tx-II	9.11.16	07:17	TR. TRIPPED ON AIR PRESSURE LEAK OUT.
13	11.11.16	03:51	400kV Ballabhgarh-Bamnauli Ckt-I	11.11.16	06:10	AT BAMNAULI CKT. TRIPPED ON 186A&B.
14	12.11.16	03:02	MEHRAULI 66/11kV 20MVA Tr. -I	12.11.16	07:17	TR. TRIPPED ON O/C, 11KV I/C TRIPPED ON INTERTRIP.
15	12.11.16	03:02	220kV OKHLA - BTPS CKT. - II	12.11.16	07:17	AT BTPS CKT. TRIPPED ON TEF RELAY, CB NOT READY. AT OKHLA CKT. DID NOT TRIP.
16	14.11.16	01:58	OKHLA 220/33kV 100MVA Tx-V	14.11.16	02:44	TR. TRIPPED ON 186 & O/C. I/C -V TRIPPED ON 186, O/C.
17	14.11.16	01:58	OKHLA 220/33kV 100MVA Tx-IV	14.11.16	02:44	TR. TRIPPED ON 186. I/C -IV TRIPPED ON 86.
18	14.11.16	01:58	OKHLA 220/33kV 100MVA Tx-III	14.11.16	02:44	TR. TRIPPED ON 86, 51N (E/F).
19	17.11.16	12:46	NARAINA 220/33kV 100MVA Tx-II	18.11.16	16:20	O/C, E/F RELAY APPEARED ON 33KV I/C-II.
20	17.11.16	14:13	220kV PRAGATI - I.P.CKT - I	17.11.16	18:55	AT PRAGATI CKT. TRIPPED ON DIST PROT,ZONE-I. AT I.P. CKT. TRIPPED ON DIST PROT, ZONE-I,DIST 80.86.
21	17.11.16	14:13	220kV PRAGATI - I.P.CKT - II	17.11.16	18:55	AT PRAGATI CKT. TRIPPED ON 86A, 86B, 86C, DIST PROT, ZONE-II. AT I.P. CKT. TRIPPED ON DIST PROT, ZONE-I.
22	18.11.16	23:10	GOPALPUR 33/11kV, 16MVA Tx-I	19.11.16	03:38	I/C-I TRIPPED ON O/C, R&B PHASE.
23	18.11.16	23:10	GOPALPUR 33/11kV, 16MVA Tx-II	19.11.16	04:42	I/C-I TRIPPED ON O/C, R&B PHASE.
24	19.11.16	18:21	SARITA VIHAR 220/66kV 100MVA Tx-III	19.11.16	19:15	TR. TRIPPED ON O/C, E/F.

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
25	20.11.16	03:26	220kV MAHARANIBAGH-TRAUMA CENTER CKT-I	20.11.16	06:05	AT TRAUMA CENTER CKT. TRIPPED ON AUXILLARY RELAY AT MAHARANI BAGH CKT. DID NOT TRIP
26	20.11.16	13:10	220kV BAMNAULI - DIAL CKT-I	20.11.16	14:04	AT BAMNAULI CKT. TRIPPED ON DIST PROT. ZONE-I, 86A&B. AT DIAL CKT. TRIPPED ON DIST PROT, DIST 12.56KM.
27	20.11.16	13:10	400kV Ballabhgarh-Bamnauli Ckt-II	20.11.16	14:04	AT BAMNAULI CKT. TRIPPED ON DIST PROT, ZONE-I, 186A&B.
28	21.11.16	01:18	220kV MAHARANIBAGH-TRAUMA CENTER CKT-I	21.11.16	01:45	AT TRAUMA CENTER CKT. TRIPPED ON 86A, PHASE ABC. AT MAHARANI BAGH CKT. DID NOT TRIP.
29	21.11.16	01:18	220kV MAHARANIBAGH - TRAUMA CENTER CKT-II	21.11.16	01:45	AT MAHARANI BAGH CKT. TRIPPED ON Y&B PHASE. AT TRAUMA CENTER CKT. DID NOT TRIP.
30	21.11.16	13:45	PAPPANKALAN-I 66/11kV, 20MVA Tx-III	21.11.16	15:30	TR. TRIPPED ON O/C. 11kV I/C-III TRIPPED ON O/C.
31	24.11.16	16:20	PATPARGANJ 220/33kV 100MVA Tx-IV	24.11.16	20:30	TR. TRIPPED ON 51N, 86B.
32	24.11.16	19:33	NAJAFGARH 66/11kV, 20MVA Tx-II	25.11.16	14:40	AIR COMPRESSOR JAMMED HENCE TR. PUT OFF.
33	25.11.16	13:27	220 KV PATPARGANJ - I.P. CKT-I	25.11.16	19:13	AT PATPARGANJ CKT. TRIPPED ON DIST PROT, ZONE-IIJ, DIST 3.489KM., 186. AT I.P. CKT. TRIPPED ON DIST PROT, ZONE-I, DIST 153MTS, 186, ABC PHAESE.
34	25.11.16	17:44	220kV GOPALPUR-MANDOLACKT-I	25.11.16	18:55	AT GOPALPUR CKT. DID NOT TRIP. CKT. TRIPPED AT MANDOLA.
35	26.11.16	15:39	PARKSTREET 220/66kV 100MVA Tx-II	26.11.16	15:59	Tr. Tripped on 86.
36	26.11.16	15:40	220kV GEETA COLONY-PATPARGANJ CKT -II	26.11.16	15:44	At Geeta Colony : Ckt. tripped on O/C, B-N Phase At Patparganj : Ckt. did not trip.
37	26.11.16	15:40	PRAGATI 220/66kV 160MVA Tx-I	26.11.16	15:59	Tr. Tripped on 86.
38	26.11.16	16:10	PRAGATI 220/66kV 160MVA Tx-II	26.11.16	16:17	Tr. Tripped on 86.
39	26.11.16	16:10	220 KV PATPARGANJ - I.P. CKT-II	26.11.16	19:18	At Patparganj : Ckt. tripped on E/F, ABC Phase, 186. At I.P. : Ckt. did not trip.
40	26.11.16	16:10	220 KV PATPARGANJ - I.P. CKT-I	26.11.16	18:46	At Patparganj : Ckt. tripped on E/F, ABC Phase, 186. At I.P. : Ckt. did not trip.
41	28.11.16	14:00	PARKSTREET 220/33kV 100MVA Tx-I	28.11.16	17:08	TR. TRIPPED ON BUCHOLZ.
42	29.11.16	06:00	SUBZI MANDI 33/11kV, 16MVA Tx-II	29.11.16	10:50	TR. TRIPPED ON BUCHOLZ.
43	29.11.16	10:52	220kV GEETA COLONY-PATPARGANJ CKT -II	29.11.16	11:00	AT GEETA COLONY CKT. TRIPPED ON RYB PHASE, 30E, 86. AT PATPARGANJ CKT .DID NOT TRIP.
44	29.11.16	13:10	220kV GEETA COLONY-PATPARGANJ CKT -II	29.11.16	16:52	AT GEETA COLONY CKT. TRIPPED ON RYB PHASE, 86, DIST PROT, DIST 4.5KM, AUTO RECLOSE. AT PATPARGANJ CKT. DID NOT TRIP.
45	29.11.16	16:40	SARITA VIHAR 220/66kV 100MVA Tx-III	1.12.16	11:45	TR. MADE OFF DUE TO FORMATION OF AETYLENE GAS.
46	30.11.16	02:35	220kV SARITA VIHAR - BTPS CKT.-I	30.11.16	11:34	At BTPS : ckt. tripped on dist prot, Dist. 1.5Km, Zone –I, R phase. At Sarita Vihar : 186A, 186B, Auto Reclose 67N.

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
47	30.11.16	03:15	220kV SARITA VIHAR - BTPS CKT.-II	30.11.16	11:38	At BTPS : ckt. tripped on Dist prot, dist 2.29Km. At Sarita Vihar : Ckt. did not trip.
48	30.11.16	03:44	220kV PRAGATI - SARITA VIHAR CKT-II	30.11.16	12:13	At Sarita Vihar : Ckt. did not trip. At Pragati : Ckt. tripped on Trip Phase ABC, Dist prot, /Zone-II, 86X, 186, 186.
49	30.11.16	03:53	SARITA VIHAR 220/66kV 100MVA Tx-II	30.11.16	11:45	Tr. Tripped on 87DB, 87TC, 86, 86
50	30.11.16	03:56	220kV PRAGATI - PARK STREET CKT-II	30.11.16	04:17	At Pragati Ckt. tripped due to bus bar prot. Operated At Park Street Ckt. did not trip.
51	30.11.16	03:56	220kV PRAGATI - PARK STREET CKT-I	30.11.16	04:18	At Pragati Ckt. tripped due to bus bar prot. Operated At Park Street Ckt. did not trip.
52	30.11.16	03:56	220kV PRAGATI - SARITA VIHAR CKT - I	30.11.16	10:52	At Sarita Vihar : Auto Reclose, Dist Prot, ABC Phase Zone-I, 180X, 180A&B At Pragati : Bus bar protection operated
53	30.11.16	04:23	220kV GEETA COLONY-PATPARGANJ CKT-I	30.11.16	14:42	At Patparganj : Ckt. did not trip. At Geeta Colony : Ckt. tripped on Active Group-I, Dist prot, Zone-II, Dist 5.343Kms.
54	30.11.16	04:23	220kV GEETA COLONY-PATPARGANJ CKT -II	30.11.16	04:50	At Patparganj : Ckt. tripped on Dist prot, zone-I, Dist 1.051Kms, 186, 186, 86X At Geeta Colony : Ckt. tripped on Dist prot, Zone-I, Dist 3.162Kms.
55	30.11.16	05:15	220kV GOPALPUR-MANDOLACKT-I	30.11.16	10:32	At Gopalpur : Ckt. tripped on Dist prot, Zone-I, Dist 0.210Kms. R phase.
56	30.11.16	05:58	220kV WAZIRABAD-GEETA COLONY CKT-II	30.11.16	06:10	At Geeta Colony : Ckt. tripped on Dist prot, Zone-I, Dist 2.776Kms. At Wazirabad : Ckt. did not trip
57	30.11.16	06:00	220kV GOPALPUR-MANDOLACKT-II	30.11.16	19:03	At Gopalpur : Ckt. trip.
58	30.11.16	06:01	220kV GEETA COLONY-PATPARGANJ CKT -II	30.11.16	06:10	At Patparganj : Ckt. tripped without indication At Geeta Colony : Ckt. tripped on Dist prot, 0.196kMs
59	30.11.16	06:03	220kV GOPALPUR-SUBZI MANDI CKT-I	30.11.16	06:51	At Gopalpur : Ckt .tripped on Dist prot, Zone-I, R phase At Subzi Mandi : Ckt. did not trip.
60	30.11.16	06:13	220KV WAZIRABAD - MANDOLA CKT-IV	30.11.16	17:06	At Wazirbad ckt. tripped on Dist prot, zone-I, Dist 1.354Km. Y phase, Trip phase BCN.
61	30.11.16	06:28	220kV BAMNAULI-NARAINA CKT-II	30.11.16	06:50	At Naraina Ckt. tripped on Dist prot, Zone-I, ABC Phase At Bamnauli Ckt. tripped on Dist prot, zone-II, B phase, 186A&B, Dist 14.08Km.
62	30.11.16	06:38	220kV BAMNAULI-NARAINA CKT-I	30.11.16	06:50	At Naraina Ckt. tripped on Dist prot, Zone-I, ABC Phase At Bamnauli Ckt. tripped on Dist prot, zone-I, Dist 12.30Km
63	30.11.16	06:52	220kV NARELA - MANDOLA CKT-I	30.11.16	10:12	At Narela : Ckt. tripped on 86X, 186, E/F. At Mandola ckt. tripped, relay indications not available.
64	30.11.16	06:58	220kV WAZIRABAD-GEETA COLONY CKT-II	30.11.16	07:00	At Geeta Colony : Ckt. tripped on Dist prot, Zone-I, Dist 0.948Kms. At Wazirabad : Ckt. did not trip.
65	30.11.16	07:08	PATPARGANJ 220/66kV 100MVA Tx-I	30.11.16	07:38	66kV I/C-I tripped on E/F.
66	30.11.16	07:10	220kV NARELA - MANDOLA CKT-II	30.11.16	10:14	At Narela : Ckt. tripped on Dist prot, Zone-I, Dist 8.59Kms., B Phase. Ckt. tripped at Mandola.

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
67	30.11.16	07:10	220kV DSIIDC BAWANA-NARELA CKT-II	30.11.16	11:03	At Narela ckt. did not trip. Bawana : ckt. tripped on Dist prot, dist 7.8Kms. B Phase.
68	30.11.16	07:18	220kV DSIIDC BAWANA-NARELA CKT-II	30.11.16	17:45	At DSIDC Bawana : Ckt. tripped on 21 M-I & M-II, B phase, Dist prot, dist 7.8Kms. At Narela : Ckt. did not trip
69	30.11.16	07:18	220kV BAMNAULI-PAPPANKALAN-I CKT-II	30.11.16	17:24	At Papankalan-I : Ckt. did not trip. At Bamnauli : Ckt. tripped on Dist prot, Zone-II, Dist. 7.78Kms. R phase.
70	30.11.16	07:28	220kV BAMNAULI-NARAINA CKT-II	30.11.16	10:17	At Naraina Ckt. tripped on Dist prot, Zone –I, ABC Phase At Bamnauli Ckt. tripped on Dist prot, zone-I, Dist, 12.70Km
71	30.11.16	07:58	220kV DSIIDC BAWANA-NARELA CKT-II	30.11.16	11:03	At DSIDC Bawana : Ckt. tripped on 21 M-I & M-II, AB phase, Dist prot, dist 1.27Kms. At Narela : Ckt. did not trip.
72	30.11.16	08:06	220KV WAZIRABAD - MANDOLA CKT-II	30.11.16	17:06	At Wazirbad ckt. tripped on Dist prot, zone-II, Dist 16.85Km. Y phase, Trip supervision relay, Trip phase BN.
73	30.11.16	08:09	220kV DSIIDC BAWANA-NARELA CKT-I	30.11.16	11:03	At DSIDC Bawana : Ckt. tripped on 21 M-I & M-II, C phase, Dist prot, dist 7.699Kms. At Narela : Ckt. did not trip.

20 DETAILS OF UNDER FREQUENCY RELAY OPERATIONS IN DELHI POWER SYSTEM DURING THE MONTH OF NOVEMBER 2016

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