DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

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NOV - 2018

1 SALIENT FEATURES OF DELHI POWER SYSTEM

Sr. No.	Features	NOV 2017	NOV 2018
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)**	**3695**	**3788**
	Date	01.11.2017	02.11.2018
	Time	18.22.59	18.21.11
3	**Peak Demand met (MW)**	**3695**	**3788**
	Date	01.11.2017	02.11.2018
	Time	18.22.59	18.21.11
4	Peak Availability (MW)	3588	3654
5	Shortage (-) / Surplus (+) in MW	(-) 107	(-) 134
6	Percentage Shortage (-) / Surplus (+)	(-) 2.90	(-) 3.54
7	Maximum Energy Consume in a day (Mus)	71.967	71.267
8	Energy Consumed during the month	**1896.704**	**1837.778**
9	**Load Shedding in Mus**		
A)	Due to Grid Restrictions		
i)	Under Frequency Relay Operations	0.000	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	0.008	0.076
	BRPL	0.000	0.000
	BYPL	0.000	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	**0.008**	**0.076**
B)	Due to Constraints in System in Mus		
	DTL	0.144	0.153
	NDPL	0.025	0.031
	BRPL	0.035	0.164
	BYPL	0.346	0.024
	NDMC	0.000	0.000
	MES	0.000	0.000
	Other Agencies	0.002	0.000
	Total	**0.552**	**0.372**
11	**Grand Total in Mus**	**0.560**	**0.448**

2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING NOV 2018

A) For the month of Nov 2018

All Figures in MUs

S. No	Stations	Gross Generation	Aux. Consumption	Net Generation	Availability (%)	Backing Down
1.	**RPH**	0.000	0.151	-0.151	0.00	0.00
2.	**GT**	36.365	1.376	34.989	91.56	137.77
3.	**PPCL**	117.370	2.492	114.878	102.41	121.48
4.	**BTPS**	0.000	-1.711	-1.711	0.00	0.00
5.	**Rithala**	0.000	0.000	0.000	--	--
6.	**Bawana**	314.240	11.422	302.818	80.26	469.43
7.	**Towmcl**	14.029	2.007	12.082	--	--
8.	**EDWPCL**	5.681	1.057	4.624	--	--
9.	**DMSWL**	11.363	2.001	9.362	--	--
	TOTAL	**499.048**	**18.795**	**476.891**	--	728.68

B) For the Year 2018-19 (Upto Nov 2018)

Power Station	Effective Capacity (MW)	Net Generation in MUs for Nov 2018	Availability (%) for Nov 2018	PLF (%) for Nov 2018	Cumulative Generation in MUs upto Nov 2018 for the year 2018-19	Cumulative Availability in % upto Nov 2018 for the year 2018-19	Cumulative PLF in % upto Nov 2018 for the year 2018-19
RPH	135	-0.151	0.00	0.00	-1.744	0.00	0.00
GT	270	34.989	91.56	18.51	434.240	77.89	28.39
PPCL	330	114.878	102.41	49.70	1150.032	88.95	61.18
BTPS	705	-1.711	0.00	0.00	1241.456	48.93	34.72
Rithala	108	0.000	--	--	-0.370	--	--
Bawana	1372	302.818	80.26	31.49	2541.048	73.20	33.03
Towmcl	16	12.082	--	--	94.511	--	--
EDWPCL	--	4.624	--	--	19.763	--	--
DMSWL	--	9.362	--	--	76.504	--	--
TOTAL	2936	**476.891**	--	--	**5555.44**	--	--

3 DETAILS OF OUTAGES OF GENERATING STNS. WITHIN DELHI W.E.F. APRIL 2018

RPH

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	67.5	08.05.15	13.40	Contd.		Not in operation due to not meeting pollution norms.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	67.5	21.05.15	10.20	Contd.		Not in operation due to not meeting pollution norms.

(B) Gas Turbine

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	30	1.4.18	00:00	4.4.18	06:44	Machine stopped as per SLDC message due to low demand on CCNG
		17.4.18	00:45	17.4.18	13:25	Machine tripped on Heavy jerk from the system and came on FSNL
		8.5.18	12:33	19.5.18	19:27	Machine stopped due to changeover to GT#5.and not started due to no demand from SLDC.
		23.5.18	08:24	23.5.18	15:02	Machine tripped on CRT got blank.
		26.5.18	12:23	27.5.18	19:25	Machine tripped on heavy jerk and there was a CW line leakage.The PTW cancelled on 27.05.2018 at 19:25.
		27.5.18	19:25	29.5.18	19:47	Machine could not be taken on bar due to no schedule from SLDC on CCNG
		2.6.18	09:20	4.6.18	19:37	Machine stopped as per SLDC as no schedule on CCNG
		30.6.18	08:14	30.6.18	08:35	Machine came on FSNL due to tripping of 160 MVA Transformer due to grid disturbance.
		3.7.18	21:07	4.7.18	23:12	Machine stopped as per SLDC message due to low demand on CCNG.
		5.7.18	15:50	5.7.18	17:30	Machine tripped on electrical fuse failure. Electrical trouble normal shutdown.
		29.7.18	00:04	30.7.18	11:12	Machine stopped as per SLDC message due to low demand on CCNG.
		30.7.18	20:10	24.09.18	20.00	Machine stopped due to heavy smoke below turbine.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	30	17.4.18	00:45	17.4.18	03:40	Machine tripped on Heavy jerk from the system and came on FSNL
		18.4.18	05:40	18.4.18	07:49	Machine tripped on Exhaust Temperature High
		13.5.18	19:45	13.5.18	20:20	Machine came on FSNL due to jerk in system.
		16.5.18	03:18	16.5.18	04:00	Machine tripped on lub oil temp high.
		26.5.18	08:05	27.5.18	19:25	Machine tripped on TAD High. Later machine cleared and contiuned on no load to attend leakage in CW line .PTW cancelled on 27.05.2018 at 19:25 hrs.
		27.5.18	19:25	29.5.18	21:17	Machine could not be taken on bar due to no schedule from SLDC on CCNG
		2.6.18	09:15	4.6.18	11:35	Machine stopped as per SLDC as no schedule on CCNG
		26.6.18	23:23	27.6.18	00:10	Machine tripped on T communication link inoperative.
		27.6.18	12:46	27.6.18	18:00	Machine stopped to replace faulty transformer by C&I div.
		30.6.18	07:40	30.6.18	12:46	Machine stopped as per SLDC as no schedule on CCNG
		3.7.18	21:10	5.7.18	06:48	Machine stopped as per SLDC message due to low demand on CCNG.
		30.7.18	23:32	20.08.18	11.42	
		23.08.18	11.00	30.11.18	23.59	

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
3	30	1.4.18	00:00	4.4.18	07:20	Machine stopped as per SLDC message due to low demand on CCSpot
		9.4.18	13:45	13.4.18	13:32	Machine stopped as per SLDC message due to low demand on CCSpot. Started for Testing Black Start
		13.4.18	14:40	15.4.18	17:05	Machine stopped as per SLDC message due to low demand on CCSpot. Started for Trial RUN
		15.4.18	17:10	16.4.18	02:18	Machine stopped as per SLDC message due to low demand on CCSpot
		24.4.18	11:00	27.4.18	18:50	Machine stopped as per SLDC message due to low demand on CCSpot
		29.4.18	00:03	12.05.18	00.20	Machine stopped as per SLDC message due to low demand on CCSpot
		13.5.18	19:45	13.5.18	21:04	Machine came on FSNL due to jerk in system.
		14.5.18	00:00	21.5.18	21:50	Machine could not be taken on bar due to no schedule from SLDC on CCNG
		23.5.18	16:08	24.5.18	00:17	Machine could not be taken on bar due to no schedule from SLDC on CCNG
		26.5.18	16:35	27.5.18	19:25	Machine stopped to attend CW line leakage.The PTW cancelled on 27.05.2018 at 19:25.
		27.5.18	19:25	29.5.18	12:55	Machine could not be taken on bar due to no schedule from SLDC on CCNG
		29.5.18	20:22	04.06.18	11.54	Machine could not be taken on bar due to no schedule from SLDC on CCNG
		4.6.18	13:06	4.6.18	15:00	Machine tripped on Exhaust temp high and machine cleared at 15:00 hrs..
		4.6.18	15:00	20.6.18	12:45	Machen not started after clearance due to low schedule from SLDC.
		28.6.18	00:01	28.6.18	13:06	Machine stopped as per the message of SLDC
		30.6.18	08:14	30.6.18	08:30	Machine came on FSNL due to tripping of 160 MVA Transformer due to grid disturbance.
		30.6.18	10:02	30.6.18	10:40	Machine tripped on Battery undervoltage
		30.6.18	13:30	30.6.18	23:59	Machine stopped as per the message of SLDC
		9.7.18	18:30	9.7.18	22:09	Machine stopped as per SLDC message due to low demand on CCNG.
		12.7.18	00:02	13.7.18	10:15	Machine stopped as per SLDC message due to low demand on CCNG.
		13.7.18	15:30	16.7.18	09:56	Machine stopped as per SLDC message due to low demand on CCNG.
		18.7.18	01:44	18.7.18	12:09	Machine stopped due to tripping of STG-II and due to non avaialiability of STG-II.vaialble
		18.7.18	14:17	20.7.18	09:40	Macine stopped as no demenad from SLDC/
		20.7.18	18:45	21.7.18	11:30	Machine stopped as per SLDC message due to low demand on CCNG.
		21.7.18	16:54	24.7.18	11:16	Machine stopped as per SLDC message due to low demand on CCNG.
		25.7.18	17:40	30.11.18	23:59	Machine stopped as per SLDC message due to low demand on CCNG.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
4	30	1.4.18	00:00	4.4.18	10:05	Machine stopped as per SLDC message due to low demand on OCSpot
		6.4.18	07:40	6.4.18	16:31	Machine tripped on Electrical trouble normal shutdown
		6.4.18	17:15	15.4.18	07:34	Machine stopped as per SLDC message due to low demand on CCSpot
		15.4.18	23:29	19.4.18	13:04	Machine tripped on Communication failed with IO Pack. The machine not started due to low schedule from SLDC
		20.4.18	08:58	30.4.18	23:59	Machine stopped as per SLDC message due to low demand on CCSpot
		1.5.18	00:00	12.5.18	21:06	Machine could not be taken on bar due to no schedule from SLDC on CCNG
		13.5.18	18:00	23.5.18	09:13	Machine could not be taken on bar due to no schedule from SLDC on CCNG
		23.5.18	11:50	24.5.18	12:47	Machine stopped as load could not be increased above 20 MW.
		24.5.18	12:47	26.5.18	08:44	Machine stopped as per SLDC message due to low demand
		26.5.18	12:23	26.5.18	14:25	Machine tripped due to jerk in system and later taken to attend leakage in CW line..
		26.5.18	16:32	27.5.18	19:25	Machine stopped to attend CW line leakage.
		27.5.18	19:25	28.5.18	12:18	Machine started after attend of CW line leakage
		28.5.18	14:51	29.5.18	12:21	Machine stopped as no schedule from SLDC .
		29.5.18	19:52	4.6.18	14.50	Machine stopped as no schedule from SLDC .
		4.6.18	20:10	20.6.18	22:06	Machine stopped as per SLDC as no schedule on CCNG
		28.6.18	00:03	28.6.18	13:01	Machine stopped as per the message of SLDC
		30.6.18	08:14	30.6.18	08:46	Machine came on FSNL due to grid disturbance.
		30.6.18	16:15	09.07.18	13.20	Machine stopped as per SLDC as no schedule on CCNG
		9.7.18	18:20	9.7.18	21:52	Machine stopped as per SLDC message due to low demand on CCNG.
		10.7.18	02:13	10.7.18	13:40	Machine stopped as per SLDC message due to low demand on CCNG.
		12.7.18	00:02	12.7.18	13:55	Machine stopped as per SLDC message due to low demand on CCNG.
		14.7.18	04:36	14.7.18	07:29	Machine tripped on control trip and overtemperature trip alarm on CRT
		05.10.18	16.40	05.10.18	17.31	Unit tripped on Electrical trouble normal shutdown.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
5	30	1.4.18	00:00	29.4.18	10:01	Machine stopped as per SLDC message due to low demand on CCSpot
		29.4.18	13:45	29.4.18	18:10	Trial run
		29.4.18	22:14	9.5.18	12:19	Machine stopped as per SLDC message due to low demand on CCSpot
		12.5.18	17:25	13.5.18	13:03	Machine tripped on overspeed bolt trip alarm appeared.
		13.5.18	18:00	23.5.18	10:40	Machine stopped as per SLDC message due to low demand
		23.5.18	23:08	25.5.18	16:03	Machine tripped on Exhaust overtemperature.
		26.5.18	12:23	26.5.18	16:35	Machine tripped on heavy jerk and there was a CW line leakage.
		26.5.18	16:35	27.5.18	19:25	Machine stopped to attend CW line leakage.
		27.5.18	19:25	28.5.18	13:33	Machine started after CW line leakage attended.
		2.6.18	12:25	2.6.18	20:30	Machine stopped to attend hotspot in HV bushing of STG-III Transformer.Machine made available at 20:30 hrs.
		2.6.18	20:30	4.6.18	09:16	Machine stopped as per SLDC as no schedule on CCNG
		10.6.18	08:02	11.6.18	10:50	Machine stopped as per SLDC as no schedule on CCNG
		17.6.18	11:00	1.7.18	22:30	Machine stopped as per SLDC as no schedule on CCNG
		2.7.18	03:32	3.7.18	21:04	Machine stopped as per SLDC message due to low demand on CCNG.
		5.7.18	02:30	9.7.18	22:49	Machine stopped as per SLDC message due to low demand on CCNG.Machine started in open cycle mode as per the system.
		10.7.18	02:13	10.7.18	10:15	Machine stopped as per SLDC message due to low demand on CCNG.
		12.7.18	14:01	18.7.18	12:58	Machine stopped as per SLDC message due to low demand on CCNG.
		20.7.18	17:45	20.7.18	17:57	Machine desynchronized and put on FSNL due to passing of trailer.
		21.7.18	00:02	25.7.18	16:33	Machine stopped as per SLDC message due to low demand on CCNG.
		26.7.18	10:15	30.7.18	20:30	Machine stopped as per SLDC message due to low demand on CCNG.
		28.08.18	16.19	28.08.18	20.07	Machine tripped on " Electrical trouble normal shutdown" and 52 H fuse failure alarm appeared.
		05.09.18	12.39	05.09.18	13.57	Machine tripped due to false alarm of condensate level high.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
6	30	1.4.18	00:00	23.05.18	18.13	Machine under Major Inspection and out of DC
		23.5.18	18:30	24.5.18	15:14	Machine tripped on Generator journal bearing drain oil temp High and lub oil header temp alos high.
		26.5.18	16:35	27.5.18	19:25	Machine stopped to attend CW line leakage.The PTW cancelled on 27.05.2018 at 19:25.
		27.5.18	19:25	28.5.18	11:21	Machine started after CW line leakage attended.
		30.5.18	11:20	30.5.18	12:42	Machine tripped on Exhaust temperature high.
		2.6.18	12:30	2.6.18	18:10	Machine stopped to attend hotspot in HV bushing of STG-III Transformer.
		10.6.18	08:03	10.6.18	20:05	Machine stopped to attend problem in Governing system of STG. The machine made available at 20.05 hrs. and not taken on load due to low schedule from SLDC.
		10.6.18	20:05	11.6.18	10:58	Machine not started as per SLDC as no schedule on CCNG
		17.6.18	11:00	20.6.18	13:46	Machine stopped as per SLDC as no schedule on CCNG
		20.6.18	19:00	1.7.18	20:55	Machine stopped as per SLDC as no schedule on CCNG
		2.7.18	03:23	3.7.18	20:56	Machine stopped as per SLDC message due to low demand on CCNG.
		5.7.18	18:05	5.7.18	19:35	Machine tripped on communication IO Pack failure. Machine started upto FSNL and cleared at 19:35 hrs.
		5.7.18	19:35	8.7.18	22:57	Machine not taken on load due to no schedule from SLDC and later started on open cycle mode as per system demand..
		13.7.18	16:00	18.7.18	01:35	Machine stopped as per SLDC message due to low demand on CCNG.
		20.7.18	17:45	20.7.18	17:56	Machine desynchronized and put on FSNL due to passing of trailer.
		21.7.18	00:02	23.7.18	10:44	Machine stopped as per SLDC message due to low demand on CCNG.
		26.7.18	10:15	30.7.18	13:08	Machine stopped as per SLDC message due to low demand on CCNG.
		22.10.18	18.04	24.10.18	18.15	Unit tripped due to Y & B phase to phase fault.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG -1	30	17.4.18	00:45	17.4.18	15:14	Machine tripped on Heavy jerk from the system
		26.4.18	16:52	26.4.18	18:44	Machine tripped due to tripping of 2 MVA Transformer-1
		1.5.18	00:28	1.5.18	02:16	Machine tripped due to tripping of 2 MVA Transformer.
		8.5.18	12:34	8.5.18	13:25	Tripped while slashing HRSG-1
		8.5.18	14:56	8.5.18	15:54	Tripped on class -A relay operated.
		13.5.18	19:45	13.5.18	21:41	Machine tripped due to jerk in system.
		16.5.18	03:02	16.5.18	04:52	Machine tripped due to jerk in system
		16.5.18	12:34	16.5.18	13:21	Machine tripped on Turbine speed very high I,e malfunctioning of output card of turbine.
		26.5.18	16:35	27.5.18	19:25	Machine stopped to attend CW line leakage.The PTW cancelled on 27.05.2018 at 19:25.
		27.5.18	19:25	30.5.18	01:16	Machine could not be taken on bar due to no schedule from SLDC
		2.6.18	09:23	4.6.18	13:44	Machine stopped as per SLDC as no schedule
		26.6.18	23:30	27.6.18	00:40	Machine tripped on Exhaust temp high
		30.6.18	07:34	30.6.18	18:40	Machine tripped on Heavy jerk in the system and delay in synchronizing due to vibration problem in front and rear bearing AND EJECTOR FLANGE DAMAGED IN JERK..
		3.7.18	16:40	4.7.18	21:15	Machine tripped on Heavy jerk due to system and due to jerk in system there was leakage in Ejectir flange. And machen was made ready on 04.07.2018 at 20:34 hrs..
		4.7.18	21:15	5.7.18	02:05	Machine was not started due to low demand from SLDC..
		28.7.18	13:36	28.7.18	17:50	Machine tripped due to jerk in the system and leading to outage of 160 MVA Transformer 1 & 2 both.
		30.7.18	23:32	20.08.18	15.40	Machine was not started due to low demand from SLDC..
		20.08.18	16.05	20.08.18	22.45	Unit tripped on high viberation in bearing.
		23.08.18	11.00	31.08.18	23.59	Machine stopped as per SLDC message due to low demand
		07.10.18	03.10	07.10.18	05.30	Unit tripped due to all running parameters shown in blue band.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG -2	30	1.4.18	00:00	4.4.18	14:08	Machine stopped as per SLDC message due to low demand on CCSpot
		7.4.18	11:35	7.4.18	12:08	Machine tripped suddenly on control valve closing
		9.4.18	13:45	15.4.18	09:43	Machine stopped as per SLDC message due to low demand on CCSpot
		17.4.18	01:20	17.4.18	04:58	Machine tripped on all the parameters showing on blue band .
		18.4.18	08:01	18.4.18	08:35	Machine tripped on Turbine channel 1&2 operated alarm appeared.
		18.4.18	10:48	18.4.18	11:38	Machine tripped on hunting started of parameters on BCD.
		24.4.18	11:00	24.4.18	12:15	Machine stopped to attend oil leakage from servo motor line
		24.4.18	12:15	27.4.18	21:00	Machine cleared but not started due to no schedule from SLDC
		29.4.18	00:03	30.4.18	23:59	Machine stopped as per SLDC message due to low demand on CCSpot
		17.4.18	01:20	17.4.18	03:58	Machine tripped on all the parameters showing on blue band .
		1.5.18	00:00	12.5.18	03:58	Machine could not be taken on bar due to no schedule from SLDC
		13.5.18	19:45	13.5.18	20:30	Machine tripped on jerk in system.But later was not started due to low schedule from SLDC
		13.5.18	20:30	21.5.18	23:49	Machine could not be taken on bar due to no schedule from SLDC
		26.5.18	16:35	27.5.18	19:25	Machine stopped to attend CW line leakage.The PTW cancelled on 27.05.2018 at 19:25.
		27.5.18	19:25	29.5.18	14:33	Machine could not be taken on bar due to no schedule from SLDC
		29.5.18	18:40	04.06.18	16.08	Machine stopped to attend water leakage from inlet line of Generator cooler.
		4.6.18	20:13	20.6.18	15:30	Machine stopped as per SLDC as no schedule
		28.6.18	00:03	28.6.18	15:40	Machine stopped as per the message of SLDC
		30.6.18	08:14	30.6.18	13:30	Machine tripped due to tripping of 160 MVA transformer as there was disturbance in the grid.
		30.6.18	13:30	12.07.18	16.30	Machine could not be taken on bar due to Axial shift and taken out of DC.
		14.7.18	04:36	16.7.18	14:30	Machine tripped due to tripping of GT-4 and later not started due to no schedule from SLDC.
		17.7.18	00:55	17.7.18	01:38	Machine tripped on Class A trip alarm, Reverse power trip alarm, Power relay and protection SSVT fuse fail.
		17.7.18	18:06	17.7.18	21:35	Machine tripped on Ch-I & CH-II and class A relay trip alarm appeared on CRT.
		17.7.18	21:49	21.7.18	16:20	Machine again tripped on CH-I & CH-II and Gen RJB and FJB Vibration very high and not started due to no demand..
		25.7.18	17:40	30.11.18	23:59	Machine stopped as per SLDC message due to low demand on CCNG.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG -3	30	1.4.18	00:00	08.05.18	14.18	Machine under O/H
		8.5.18	14:28	8.5.18	15:52	Tripped on class -A relay operated.
		11.5.18	15:54	12.5.18	13:50	Machine tripped on calibration of woodward governor.Is under maintenance and STG-II taken on 12.05.2018 at 13:50 made avaialble.
		12.5.18	13:50	23.5.18	13:30	Machine could not be taken on bar due to no schedule from SLDC
		23.5.18	23:08	24.5.18	19:23	Machine tripped on tripping of GT-5 & 6
		26.5.18	16:35	27.5.18	19:25	Machine stopped to attend CW line leakage.The PTW cancelled on 27.05.2018 at 19:25.
		27.5.18	19:25	28.5.18	14:18	Machine started after attend CW line leakage.
		28.5.18	17:46	28.5.18	18:13	Machine tripped on low vacuum.
		1.6.18	08:15	1.6.18	11:06	Machine stopped to attend oil leakage in governor system.
		2.6.18	12:32	2.6.18	19:48	Machine stopped to attend hotspot in HV bushing of STG-III Transformer.
		9.6.18	11:30	9.6.18	12:50	Machine stopped to attend problem in Governing system of STG.
		10.6.18	03:52	10.6.18	04:24	Machine stopped to attend problem in Governing system of STG.
		10.6.18	08:03	10.6.18	20:05	Machine again stopped to attend problem in Governing system of STG. The machine made available on 10.06.2018 at 20:05 hrs but not taken on load due to low schedule from SLDC
		10.6.18	20:05	11.6.18	13:00	Machine not started due to low schedule from SLDC
		16.6.18	12:25	16.6.18	16:15	Machine tripped on FJB vibration very high.
		17.6.18	11:00	20.6.18	17:45	Machine stopped as per SLDC as no schedule
		20.6.18	17:45	24.6.18	16:45	Machine was out of DC due to problem in MOP and taken in DC on 24.06.2018 at 16:45 hrs. The machine not taken on load due to low schedule from SLDC.
		24.6.18	16:45	30.6.18	12:17	Machine after being taken in DC not taken on load due to no schedule from SLDC
		30.6.18	12:17	30.6.18	20:00	Machine not available due to problem in MOP.
		30.6.18	20:00	30.6.18	23:59	Machine not taken on bar due to low schedule from SLDC.
		1.7.18	22:56	3.7.18	22:00	STG-III out of DC due to unavailiability of MOP but made avaialble on 03.07.2018 at 22:00 hrs.
		4.7.18	21:52	9.7.18	09:39	Machine out of DC due to oil leakage from MOP and made available by C&I on 09.07.2018 at 09:39 hrs..
		9.7.18	09:39	9.7.18	11:32	Mahcine after made avaialble started on 9/7/2018 at 11:32 hrs.
		10.7.18	16:20	10.7.18	17:36	Machine tripped while increasing load feom 11.5 MW to 19.5 MW.
		13.7.18	16:00	18.7.18	03:44	Machine was not started due to low demand from SLDC..
		20.7.18	00:00	20.7.18	19:51	Machine desynchronized.
		21.7.18	00:02	23.7.18	12:40	Machine was not started due to low demand from SLDC..
		26.7.18	10:15	30.7.18	15:40	Machine stopped as per SLDC message due to low demand on CCNG.
		30.7.18	17:36	30.7.18	19:18	Machine tripped on 99 GT, 32G-2B relay operated.
		28.08.18	16.39	28.08.18	21.25	Machine tripped on Bearing vibration high.
		29.08.18	17.25	29.08.18	18.16	Machine tripped on GE Protection Main fuse failure and AVR VT fuse failure alarm on backup desk.
		05.09.18	12.39	05.09.18	15.02	STG stopped as fire observed near front gland during costing down.
		22.10.18	18.04	22.10.18	20.40	Unit tripped due to tripping of GT # 6 as half module was runing.
		22.11.18	08.27	22.11.18	10.20	STG tripped due totripping of both 160 MVA transformers. Both 160 MVA transformers tripped due to grid disturbance.

(C) PRAGATI

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	104	01.04.18	00.00	17.04.18	16.49	Stopped for HGPI
		03.05.18	12.46	04.05.18	15.07	Stopped due to low demand.
		04.05.18	16.10	11.05.18	14.16	Stopped due to low demand.
		13.05.18	19.50	13.05.18	20.14	Tripped due to grid disturbance
		16.05.18	03.01	16.05.18	04.49	
		26.05.18	12.24	26.05.18	13.22	
		26.05.18	13.56	26.05.18	14.42	
		30.06.18	08.17	30.06.18	12.57	
		28.07.18	00.10	03.08.18	12.30	Stopped due to low demand.
		06.08.18	12.31	13.08.18	17.20	
		02.09.18	16.00	21.09.18	08.32	
		06.10.18	00.00	30.11.18	23.59	

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	104	17.04.18	18.47	18.04.18	12.45	Tripped on internal fault.
		18.04.18	12.45	19.04.18	06.24	Stopped due to low demand.
		03.05.18	07.19	03.05.18	09.07	Tripped due to grid disturbance
		26.05.18	13.56	26.05.18	14.38	
		30.06.18	08.17	30.06.18	09.35	
		12.07.18	17.16	12.07.18	18.20	
		29.07.18	15.50	29.07.18	17.29	Tripped on internal fault.
		13.08.18	18.51	13.08.18	21.15	Unit stopped for checking of diverter dumper seal
		13.08.18	21.15	16.08.18	14.30	Stopped due to low demand.
		16.08.18	14.30	30.08.18	18.45	Unit stopped due to repairing of diverter dumper.
		30.08.18	18.45	04.09.18	12.13	Stopped due to low demand.
		21.09.18	14.00	21.09.18	18.30	GT#2 swapped by GT#1 to attend AVR problem by BHEL
		21.09.18	18.30	04.10.18	15.41	Stopped due to low demand.
		05.10.18	11.43	05.10.18	12.20	Tripped on internal fault.
		22.11.18	08.29	22.11.18	09.34	Tripped due to grid disturbance
		26.11.18	12.41	26.11.18	13.30	Tripped on internal fault.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG	122	20.04.18	15.01	20.04.18	16.43	Tripped on internal fault.
		03.05.18	07.19	03.05.18	09.00	Tripped due to grid disturbance
		03.05.18	09.00	03.05.18	10.48	Internal problem
		03.05.18	16.51	03.05.18	17.50	Tripped on internal fault.
		26.05.18	13.56	26.05.18	15.39	Tripped due to grid disturbance
		26.05.18	17.59	26.05.18	19.41	
		03.06.18	07.23	03.06.18	12.16	
		30.06.18	08.17	30.06.18	11.50	
		12.07.18	17.16	12.07.18	18.27	
		15.07.18	04.29	15.07.18	08.34	Tripped on internal fault.
		24.07.18	12.37	24.07.18	13.39	
		29.07.18	15.50	29.07.18	18.42	Unit tripped as unit -2 tripped.
		14.08.18	19.30	14.08.18	22.45	Tripped due to grid disturbance
		16.08.18	15.32	23.08.18	09.59	GCB oil leakage.
		29.08.18	08.05	29.08.18	09.10	Tripped on internal fault.
		29.08.18	14.01	29.08.18	16.28	
		02.09.18	16.03	04.09.18	17.09	Stopped due to low demand.
		06.09.18	04.14	06.09.18	05.40	Tripped on internal fault.
		27.09.18	09.15	27.09.18	10.39	
		27.09.18	17.15	27.09.18	18.08	
		22.11.18	08.29	22.11.18	13.18	Tripped due to grid disturbance
		26.11.18	12.41	26.11.18	14.34	Tripped on internal fault.

(D) BADARPUR THERMAL POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	95	01.04.18	00.00	31.08.18	00.00	Not in operation due to not meeting pollution norms

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	95	01.04.18	00.00	31.08.18	00.00	Not in operation due to not meeting pollution norms

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
3	95	01.04.18	00.00	31.08.18	00.00	Not in operation due to not meeting pollution norms

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
4	210	01.04.18	00.00	01.05.18	11.33	Not in operation due to not meeting pollution norms
		03.05.18	13.29	13.05.18	00.42	Reserve shutdown
		30.07.18	20.30	31.07.18	10.30	Coal shortage
		31.07.18	10.30	01.08.18	05.29	Reserve shutdown
		07.08.18	11.06	08.08.18	15.17	Boiler tube leakage
		09.08.18	01.08	09.08.18	17.54	ID Fan bearing temp high.
		16.10.18		30.11.18		Not in operation due to not meeting pollution norms

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
5	210	01.04.18	00.00	09.04.18	07.54	Not in operation due to not meeting pollution norms
		16.10.18		30.11.18		Not in operation due to not meeting pollution norms

(E) BAWANA CCGT POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	216	21.04.18	0.00	23.04.18	07.00	Machine shut down for Filter Replacement so half of STG #1 was also not available.
		16.06.18	08.02	16.06.18	23.59	Unit taken out of DC for solenoid change
		28.06.18	00.50	30.06.18	23.59	DP was running very high so unit taken out of DC for filter replacement.
		15.07.18	09.10	15.07.18	21.45	Filter replacement and problem in compressor bleed (CBV) valve operation attended
		21.07.18	00.00	23.07.18	17.00	Problem in purge valve resolved by replacement of solenoid and compressor washing done during this outage.
		17.08.18	13.40	17.08.18	22.00	Unit tripped due to low lu;be oil header pressure, STG also tripped manually.
		28.08.18	05.08	28.08.18	18.45	Unit tripped due to rotor earth fault.
		25.09.18	01.32	25.09.18	14.00	Generator Trip
		05.11.18	04.55	09.11.18	11.05	High DP unit unloaded

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	216	16.06.18	08.02	16.06.18	23.59	Unit taken out of DC for solenoid change
		28.06.18	00.50	30.06.18	23.59	DP was running very high so unit taken out of DC for filter replacement.
		15.07.18	09.10	15.07.18	21.45	Filter replacement and problem in compressor bleed (CBV) valve operation attended
		21.07.18	00.00	23.07.18	17.00	Problem in purge valve resolved by replacement of solenoid and compressor washing done during this outage.
		17.08.18	13.40	17.08.18	22.00	Unit tripped due to low lu;be oil header pressure, STG also tripped manually.
		28.08.18	05.08	28.08.18	18.45	Unit tripped due to rotor earth fault.
		05.11.18	03.45	05.11.18	11.31	High filter DP
		09.11.18	11.10	11.11.18	00.00	Unit taken out of DC for filter cleaning

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG-1	254	02.04.18	06.49	02.04.18	11.58	Field breaker and Excitation Trip generated due to Regulation Supply fuse failure. Circuit checked, Power fuse changed and machine synchornised to further test the system.
		02.04.18	12.12	02.04.18	13.34	Again machine tripped on same fault. Fuse Barrier circuit replaced due to malfunctioning of micro switch contact.
		02.04.18	19.37	02.04.18	21.09	Field breaker and Excitation Trip generated due to Regulation Supply fuse failure. The circuit of PLC and fuse barrier checked and digital I/O card which generates this signal changed,machine synchronised.
		02.04.18	21.50	02.04.18	22.27	During HRSG paralleling STG tripped on Low Main steam temperature as HP Bypass#1 was not following reference properly, and loads on GTs were high for smooth paralleling.
		02.05.18	21.32	02.05.18	22.21	The cold gas temp control valve was fully open under full-module operation with cold gas temp around 43 deg. As GT #2 was stopped in accordance with the system demand, the load on STG #1 reduced to around 95 MW lowering the cold gas temp. With residual activities of isolation of HRSG #2 in progress, command was given to reduce the opening of temp-control-valve. The valve is designed for inching operation. However, the valve closed completely shutting of cooling water supply resulting in high cold-gas temp and leading to protection-trip on the same
		20.05.18	07.35	20.05.18	15.42	STG#1 Stopped due to Common Thermal Overload alarm appeared around 07:35 hrs. Intermittent flashover & smoke observed at Transformer cooling fan supply control -panel at site . All running cooling fans tripped & temperature indication at ECP disappeared. STG#1 Stopped/Tripped manually under the circumtances & panel supply made off.
		16.06.18	08.02	16.06.18	23.59	Unit taken out of DC for solenoid change
		28.06.18	00.50	30.06.18	23.59	DP was running very high so unit taken out of DC for filter replacement.
		15.07.18	09.10	15.07.18	21.45	Filter replacement and problem in compressor bleed (CBV) valve operation attended
		21.07.18	00.00	23.07.18	17.00	Problem in purge valve resolved by replacement of solenoid and compressor washing done during this outage.
		27.07.18	00.00	30.07.18	19.30	PHE Cleaning
		17.08.18	13.40	17.08.18	22.00	Unit tripped due to low lu;be oil header pressure, STG also tripped manually.
		28.08.18	05.08	28.08.18	18.45	Unit tripped due to rotor earth fault.
		29.08.18	15.29	29.08.18	16.35	Unit tripped due to generator electrical protection alarm.
		14.09.18	17.08	14.09.18	01.57	Bus bar protection.
		05.11.18	03.45	05.11.18	11.31	High filter DP
		09.11.18	11.10	11.11.18	00.00	Unit taken out of DC for filter cleaning
		14.11.18	12.00	15.11.18	12.00	Oil leakage in bearing.

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
3	216	17.04.18	00.00	30.04.18	23.59	Minor overhauling of Generator and Upgradation of GT#3 and BHM installation.
		29.06.18	00.00	29.06.18	02.00	Desynch due to problem in GCS (BMS not firing).
		14.07.18	10.00	14.07.18	14.00	Normalization of 6.6kV System Mod#2
		17.11.18	21.02	18.11.18	06.00	Filter cleaning
		19.11.18	20.14	19.11.18	23.14	Loss of flame

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
4	216	01.04.18	00.00	16.04.18	18.00	Machine taken out of DC for Planned maintenance.(Combustion inspection)
		22.05.18	15.33	22.05.18	16.15	GT#4 came on FSNL at 15:33 hrs. due to AVR fault and subsequesnt tripping of GCB. Unit was test synch at 16:20 hrs. but due to poor gas pipeline hydraulics GT#4 taken out of DC wef 16:15 hrs..
		22.05.18	16.15	24.05.18	12.30	Due to poor gas pipeline hydraulics GT#4 taken out of DC wef 16:15 hrs..
		24.05.18	21.46	25.05.18	23.59	GT#4 came on FSNL due to AVR fault and subsequesnt tripping of GCB. Unit was test synch at 22:33 hrs.and stopped at 22:44 hrs due to SLDC backdown.
		14.07.18	10.00	14.07.18	14.00	Normalization of 6.6kV System Mod#2
		03.10.18	12.20	03.10.18	13.50	Low lube oil pressure
		03.10.18	17.36	03.10.18	19.44	
		23.10.18	19.06	23.10.18	20.24	Rotor earth fault
		03.11.18	00.00	06.11.18	09.00	Filter replacement.

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG-2	254	01.04.18	00.00	30.04.18	23.59	STG#2 tripped on Bucholz relay operated. Transformer is under revival.
		01.10.18	14.32	01.10.18	15.05	Condenser vacuum very low
		03.10.18	12.20	03.10.18	13.50	Low lube oil pressure
		03.10.18	17.36	03.10.18	19.44	
		23.10.18	19.06	23.10.18	20.24	Rotor earth fault
		03.11.18	00.00	06.11.18	09.00	Filter replacement.
		17.11.18	21.02	18.11.18	06.00	Filter cleaning
		19.11.18	20.14	19.11.18	23.14	Loss of flame

(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	30.11.18	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	30.11.18	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	30.11.18	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 01.04.2017

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
TOTAL	**9782**	**1302**	**2306**	**2016**	**0**	**0**	**2016**
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**
SJVNL							
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	**17627**	**1990**	**3132**	**2793**	**0**	**0**	**2793**
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	693	622	0	0	622
Ultra Mega Projects							
Sasan	3960	0	446	400	0	0	400
Grand Total	**29047**	**2257**	**4531**	**4032**	**0**	**0**	**4032**

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 NOV 2018

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	Bawana	Townmcl	East Delhi	DMSWL	BTPS	Total						
(1)	(2)	(3)	(4)	(5)	(7)	(8)				(9)= (3) to (8)	(10)	(11)	(12)= (11) - (10)	(13)= (11)+ (12)	(14)	(15)= (13)+ (14)
1	18.11.59	0	76	156	768	17	8	10	-3	1032	2688	2641	47	3720	0	3720
2	18.21.11	0	74	156	692	16	-1	6	-3	940	2848	2714	134	3788	0	3788
3	18.18.44	0	71	156	679	18	9	9	-3	939	2585	2531	54	3524	0	3524
4	18.33.41	0	76	158	863	17	9	8	-3	1128	2152	2122	30	3280	0	3280
5	18.33.05	0	77	161	432	14	4	15	-3	700	2764	2767	-3	3464	0	3464
6	11.06.56	0	29	161	232	19	10	17	-3	465	2913	2847	66	3378	0	3378
7	18.18.20	0	31	160	210	19	-1	14	-3	430	2394	2509	-115	2824	0	2824
8	10.00.13	0	35	159	208	18	9	18	-3	444	2178	2091	87	2622	0	2622
9	10.06.09	0	41	158	253	16	10	15	-3	490	2653	2576	77	3143	0	3143
10	10.45.33	0	41	160	244	18	8	15	-3	483	2588	2471	117	3071	0	3071
11	11.14.14	0	40	158	257	18	-1	7	-3	476	2506	2457	49	2982	0	2982
12	09.57.00	0	40	160	328	19	10	16	-3	570	2738	2562	176	3308	0	3308
13	10.45.06	0	40	160	515	17	9	16	-3	754	2620	2522	98	3374	0	3374
14	09.35.41	0	39	156	430	18	-1	10	-3	649	2653	2509	144	3302	0	3302
15	18.00.00	0	40	159	503	18	-1	13	-3	729	2559	2549	10	3288	0	3288
16	11.00.00	0	40	160	421	17	10	18	-3	663	2724	2608	116	3387	0	3387
17	10.38.20	0	41	162	451	18	9	14	-3	692	2621	2467	154	3313	0	3313
18	10.44.11	0	40	158	302	17	10	11	-3	535	2702	2635	67	3237	0	3237
19	10.08.45	0	40	158	432	18	9	11	-3	665	2746	2586	160	3411	0	3411
20	10.34.51	0	41	160	431	18	8	17	-3	672	2642	2592	50	3314	0	3314
21	10.55.27	0	82	159	604	16	7	11	-3	876	2657	2405	252	3533	0	3533
22	10.30.00	0	71	33	477	17	9	15	-3	619	2692	2576	116	3311	0	3311
23	10.18.01	0	40	158	538	14	4	12	-3	763	2826	2680	146	3589	0	3589
24	10.13.47	0	40	160	546	16	6	16	-3	781	2497	2401	96	3278	0	3278
25	11.03.28	0	40	157	427	14	6	16	-3	657	2709	2593	116	3366	0	3366
26	10.13.22	0	40	160	429	16	6	15	-3	663	2729	2653	76	3392	0	3392
27	11.13.00	0	41	153	489	13	6	14	-3	713	2627	2526	101	3340	0	3340
28	10.51.16	0	41	153	626	17	10	16	-3	860	2578	2617	-39	3438	0	3438
29	10.02.41	0	41	153	464	18	10	16	-3	699	2745	2552	193	3444	0	3444
30	10.07.00	0	105	151	639	19	8	13	-3	932	2640	2530	110	3572	0	3572

7 POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF MAXIMUM UNRESTRICTED DEMAND DURING NOV 2018

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	Bawana	Townmcd	East Delhi	DMSWL	BTPS	Total						
(1)	(2)	(3)	(4)	(5)	(7)	(8)				(9)= (3) to (8)	(10)	(11)	(12)= (11) - (10)	(13)= (11)+ (12)	(14)	(15)= (13)+ (14)
1	18.11.59	0	76	156	768	17	8	10	-3	1032	2688	2641	47	3720	0	3720
2	18.21.11	0	74	156	692	16	-1	6	-3	940	2848	2714	134	3788	0	3788
3	18.18.44	0	71	156	679	18	9	9	-3	939	2585	2531	54	3524	0	3524
4	18.33.41	0	76	158	863	17	9	8	-3	1128	2152	2122	30	3280	0	3280
5	18.33.05	0	77	161	432	14	4	15	-3	700	2764	2767	-3	3464	0	3464
6	11.06.56	0	29	161	232	19	10	17	-3	465	2913	2847	66	3378	0	3378
7	18.18.20	0	31	160	210	19	-1	14	-3	430	2394	2509	-115	2824	0	2824
8	10.00.13	0	35	159	208	18	9	18	-3	444	2178	2091	87	2622	0	2622
9	10.06.09	0	41	158	253	16	10	15	-3	490	2653	2576	77	3143	0	3143
10	10.45.33	0	41	160	244	18	8	15	-3	483	2588	2471	117	3071	0	3071
11	11.14.14	0	40	158	257	18	-1	7	-3	476	2506	2457	49	2982	0	2982
12	09.57.00	0	40	160	328	19	10	16	-3	570	2738	2562	176	3308	0	3308
13	10.45.06	0	40	160	515	17	9	16	-3	754	2620	2522	98	3374	0	3374
14	09.35.41	0	39	156	430	18	-1	10	-3	649	2653	2509	144	3302	0	3302
15	18.00.00	0	40	159	503	18	-1	13	-3	729	2559	2549	10	3288	0	3288
16	11.00.00	0	40	160	421	17	10	18	-3	663	2724	2608	116	3387	0	3387
17	10.38.20	0	41	162	451	18	9	14	-3	692	2621	2467	154	3313	0	3313
18	10.44.11	0	40	158	302	17	10	11	-3	535	2702	2635	67	3237	0	3237
19	10.08.45	0	40	158	432	18	9	11	-3	665	2746	2586	160	3411	0	3411
20	10.34.51	0	41	160	431	18	8	17	-3	672	2642	2592	50	3314	0	3314
21	10.55.27	0	82	159	604	16	7	11	-3	876	2657	2405	252	3533	0	3533
22	10.30.00	0	71	33	477	17	9	15	-3	619	2692	2576	116	3311	0	3311
23	10.18.01	0	40	158	538	14	4	12	-3	763	2826	2680	146	3589	0	3589
24	10.13.47	0	40	160	546	16	6	16	-3	781	2497	2401	96	3278	0	3278
25	11.03.28	0	40	157	427	14	6	16	-3	657	2709	2593	116	3366	0	3366
26	10.13.22	0	40	160	429	16	6	15	-3	663	2729	2653	76	3392	0	3392
27	11.13.00	0	41	153	489	13	6	14	-3	713	2627	2526	101	3340	0	3340
28	10.51.16	0	41	153	626	17	10	16	-3	860	2578	2617	-39	3438	0	3438
29	10.02.41	0	41	153	464	18	10	16	-3	699	2745	2552	193	3444	0	3444
30	10.07.00	0	105	151	639	19	8	13	-3	932	2640	2530	110	3572	0	3572

8 SOURCEWISE SCHEDULED DRAWL FROM NORTHERN GRID AS WELL AS AVAILABILITY WITHIN DELHI FOR NOV 2018

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

A (i) RPH	0.000
(ii) GT+STG	36.365
(iii) PRAGATI	117.370
(iv) RITHALA	0.000
(v) BAWANA CCGT	314.240
(vi) Timarpur – Okhla	14.089
EDWPCL	5.861
DMSWL	11.363
TOTAL	499.108
B) AVAILABILITY FROM BTPS	-1.720
C) AUXILIARY CONSUMPTION OF GENERATING STNs. EXCLUDING BTPS	20.506
D) NET GENERATION AVAILABLE WITHIN DELHI(A+B-C)	**476.882**

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	0.000	0.000	0.000	0.000
SALAL	14.089	13.708	14.089	13.708
SASAN	289.528	280.303	289.528	280.303
TANKAPUR	3.913	3.795	3.913	3.795
CHAMERA	7.968	7.767	7.968	7.767
CHAMERA -II	9.424	9.185	9.424	9.185
CHAMERA -III	5.801	5.654	5.801	5.654
DHAULIGANGA	6.744	6.573	6.744	6.573
SEWA -2	3.004	2.924	3.004	2.924
URI	18.734	18.265	18.734	18.265
URI-II	13.989	13.669	13.989	13.669
KOLDAM	0.000	0.000	0.000	0.000
KOTESHWAR	6.710	6.502	6.710	6.502
PARBATI3	3.260	3.169	3.260	3.169
RAMPUR	0.000	0.000	0.000	0.000
MUNDRA_UMPP	0.000	0.000	0.000	0.000
ANTA (GAS)	11.303	10.891	3.455	3.349
ANTA (RLNG)	18.734	18.043	0.100	0.316
ANTA (LIQUID)	0.000	0.000	0.000	0.000
DADRI (GAS)	8.791	8.570	2.905	2.831
DADRI (RLNG)	54.167	53.061	0.719	0.706
DADRI (LIQUID)	0.000	0.000	0.000	0.000
AURAIYA (GAS)	4.786	4.637	1.174	1.141
AURAIYA (RLNG)	43.066	41.759	0.521	0.507
AURAIYA (LIQUID)	0.000	0.000	0.000	0.000
SINGRAULI	100.565	97.048	98.329	94.885
SINGRAULI_HYDRO	0.000	0.000	0.000	0.000
RIHAND -I	57.576	55.551	57.329	55.313
RIHAND -II	81.017	78.126	80.394	77.527
RIHAND -III	81.017	78.090	77.480	74.682
UNCHAHAR-I	15.268	14.873	12.680	12.352
UNCHAHAR-II	30.765	29.965	25.822	25.152
UNCHAHAR-III	19.001	18.507	16.089	15.672
UNCHAHAR-IV	0.000	0.000	0.000	0.000
DADRI (TH)	389.292	381.010	251.942	246.643
DADRI (TH) STAGE-II	450.188	440.555	347.064	339.638
NAPP	30.879	29.935	30.879	29.935
RAPP 'B'	0.000	0.000	0.000	0.000
RAPP 'C'	38.490	37.078	38.490	37.078
NATHPA JHAKRI	28.521	27.656	28.521	27.656
DULASTI	18.168	17.675	18.168	17.675
TEHRI	12.961	12.566	12.961	12.566

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	325.237	318.361	264.290	258.721
KHELGAON	29.300	28.679	24.630	24.109
KHELGAON-II	98.448	96.364	88.614	86.738
FARAKA	14.583	14.280	11.721	11.478
TALA	3.500	3.411	3.500	3.411
TALCHER	0.000	0.000	0.000	0.000
DVC	230.517	228.830	228.830	226.912
TUTICORIN - BRPL	5.991	5.933	5.933	5.878
ADHPL (KULLU)	0.000	0.000	0.000	0.000
MEGHALAYA	0.000	0.000	0.000	0.000
MAHARASHTRA	0.132	0.130	0.130	0.128
KARNATAKA	0.025	0.025	0.025	0.025
MADHYA PRADESH	0.000	0.000	0.000	0.000
METHON POWER(NDPL)LT-06	150.025	148.939	148.939	147.651
DVC MEJIA (LT-08)(BYPL)	61.349	60.899	60.899	60.388
URS	0.222	0.220	0.222	0.220
JAMMU & KASHMIR	0.221	0.218	0.218	0.216
HIMACHAL PRADESH	13.525	13.247	13.247	13.134
DB POWER	0.505	0.497	0.497	0.494
MIZORAM	1.494	1.468	1.468	1.453
NAGALAND	0.000	0.000	0.000	0.000
HIMACHAL PRADESH LT-59 DVC	1.625	1.592	1.592	1.579
HARYANA (LT-05)	44.373	43.830	43.830	43.486
SIKKIM	0.000	0.000	0.000	0.000
WEST BENGAL	0.000	0.000	0.000	0.000
ORISSA MT-20 JITPL -DVC	5.368	5.308	5.308	5.262
TAMILNAIDU	0.000	0.000	0.000	0.000
MANIPUR	0.000	0.000	0.000	0.000
RAJASTHAN(SOLAR) BRPL-LT36	2.540	2.479	2.479	2.458
RAJASTHAN(SOLAR) BYPL - LT-35	2.505	2.445	2.445	2.424
RAJASTHAN(SOLAR) TPDDL LT-31	2.508	2.448	2.448	2.427
TO JHARKHAND	0.000	0.000	0.000	0.000
TO ANDHRA	-116.575	-118.309	-118.309	-119.847
TO MADHYA PRADESH	-107.838	-109.810	-109.810	-111.220
TO WEST BENGAL	0.000	0.000	0.000	0.000
TO CHATTISHGARH	-8.965	-9.137	-9.137	-9.265
TO J&K	-70.704	-71.696	-71.696	-72.617
TO ODISHA	-9.883	-10.050	-10.050	-10.195
TO UTTRAKHAND	-39.116	-39.637	-39.637	-40.146
TO MAHARASHTRA	-53.559	-54.391	-54.391	-55.087
TO MEGHALAYA	-21.090	-21.424	-21.424	-21.727
BTPS TO MP	0.000	0.000	0.000	0.000
TO HIMACHAL PRADESH	-185.287	-189.701	-189.701	-192.153
TO GUJRAT	-37.655	-38.267	-38.267	-38.794
POWER EXCHANGE(IEX)	10.039	9.935	10.039	9.935
TO POWER EXCHANGE (IEX)	-299.561	-303.308	-299.561	-303.308
POWER EXCHANGE(PX)	0.000	0.000	0.000	0.000
TO POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
TO SHARE PROJECT (HARYANA)	-18.760	-19.003	-18.760	-19.003
TO SHARE PROJECT (PUNJAB)	-20.185	-20.445	-20.185	-20.445
TOTAL	**1892.573**	**1811.473**	**1408.563**	**1341.862**

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	1365.538	1330.686	976.004	950.715
NTPC - ER	142.331	139.323	124.965	122.325
NHPC	105.094	102.385	105.094	102.385
NPC	69.369	67.013	69.369	67.013
SASAN	289.528	280.303	289.528	280.303
KOTESHWAR	6.710	6.502	6.710	6.502
MUNDRA_UMPP	0.000	0.000	0.000	0.000
NATHPA JHAKRI	28.521	27.656	28.521	27.656
TEHRI	12.961	12.566	12.961	12.566
TALA	3.500	3.411	3.500	3.411
JHAJJAR	325.237	318.361	264.290	258.721
TALCHER	0.000	0.000	0.000	0.000
RAJASTHAN SOLAR(BRPL)T-36	2.540	2.479	2.479	2.458
RAJASTHAN SOLAR(BYPL)T-35	2.505	2.445	2.445	2.424
RAJASTHAN SOLAR(TPDDL)T-31	2.508	2.448	2.448	2.427
DVC	230.517	228.830	228.830	226.912
TUTICORIN BRPL	5.991	5.933	5.933	5.878
ADHPL (KULLU)	0.000	0.000	0.000	0.000
MEGHALAYA	0.000	0.000	0.000	0.000
MAHARASHTRA	0.132	0.130	0.130	0.128
KARNATAKA	0.025	0.025	0.025	0.025
MADHYA PRADESH	0.000	0.000	0.000	0.000
METHON POWER (NDPL)-LT-06	150.025	148.939	148.939	147.651
DVC MEJIA (LT-08)(BYPL)	61.349	60.899	60.899	60.388
URS	0.222	0.220	0.222	0.220
JAMMU & KASHMIR	0.221	0.218	0.218	0.216
HIMACHAL PRADESH	13.525	13.247	13.247	13.134
DB POWER	0.505	0.497	0.497	0.494
MIZORAM	1.494	1.468	1.468	1.453
NAGALAND	0.000	0.000	0.000	0.000
HIMACHAL PRADESH LT-59 DVC	1.625	1.592	1.592	1.579
HARYANA (LT -05)	44.373	43.830	43.830	43.486
SIKKIM	0.000	0.000	0.000	0.000
WEST BENGAL	0.000	0.000	0.000	0.000
ORISSA MT-20 JITPL -DVC	5.368	5.308	5.308	5.262
TAMILNAIDU	0.000	0.000	0.000	0.000
MANIPUR	0.000	0.000	0.000	0.000
POWER EXCHANGE(IEX)	10.039	9.935	10.039	9.935
POWER EXCHANGE(PX)	0.000	0.000	0.000	0.000
TOTAL	**2881.751**	**2816.650**	**2409.491**	**2355.670**

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 JHARKHAND	0.000	0.000	0.000	0.000
TO ANDHRA	-116.575	-118.309	-118.309	-119.847
TO MADHYA PRADESH	-107.838	-109.810	-109.810	-111.220
TO WEST BENGAL	0.000	0.000	0.000	0.000
TO J&K	-70.704	-71.696	-71.696	-72.617
TO CHATTISHGARH	-8.965	-9.137	-9.137	-9.265
TO ODISHA	-9.883	-10.050	-10.050	-10.195
TO UTTRAKHAND	-39.116	-39.637	-39.637	-40.146
TO MAHARASHTRA	-53.559	-54.391	-54.391	-55.087
TO MEGHALAYA	-21.090	-21.424	-21.424	-21.727
BTPS TO MP	0.000	0.000	0.000	0.000
TO HIMACHAL PRADESH	-185.287	-189.701	-189.701	-192.153
TO GUJRAT	-37.655	-38.267	-38.267	-38.794
TO POWER EXCHANGE (IEX)	-299.561	-303.308	-299.561	-303.308
TO POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
TO SHARE PROJECT (HARYANA)	-18.760	-19.003	-18.760	-19.003
TO SHARE PROJECT (PUNJAB)	-20.185	-20.445	-20.185	-20.445
TOTAL	**-989.178**	**-1005.178**	**-1000.928**	**-1013.807**
TOTAL SCHEDULED DRAWAL FROM THE GRID	**1892.573**	**1811.473**	**1408.563**	**1341.862**

TOTAL CONSUMPTION INCLUDING AUX. OF GENERATING STNs. EXCLUDING BTPS		1858.284
NET CONSUMPTION		**1837.778**
AVAILABILITY WITHIN DELHI		476.896
ACTUAL DRAWAL FROM THE GRID		1360.896
OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID ON THE BASIS OF SCHEDULED ALLOCATION MADE BY NRLDC TO DELHI AT PERIPHERY		19.034
LOAD SHEDDING		0.448
UNRESTRICTED DEMAND (GROSS)		1858.732
UNRESTRICTED DEMAND (NET)		1838.226
MAX. NET CONSUMPTION		71.267 ON 02.11.2018
MAX. LOAD SHEDDING		240MW ON 22.11.2018 AT 08.30HRS.
PEAK LOAD	Peak Demand during the month	SHEDDING AT PEAK TIME
DAY PEAK	3632MW AT 11.00 HRS ON 02.11.2018	0 MW
EVENING PEAK	3788MW AT 18.21.11HRS ON 02.11.2018	0 MW
P.L.F. OF GENCO AND PRAGATI STNs.	RPH	0.00%
	GT	18.10%
	PRAGATI	47.80%
	RITHALA	0.00%
	BAWANA	30.81%
	Timarpur Okhla	118.36%
	EDWPCL	63.63%
	DMSWL	63.64%

9 SHEDDING DETAILS DURING THE MONTH OF NOV 2018.

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.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000
02.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
03.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
04.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
05.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
06.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
07.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
09.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000
13.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.058	0.000	0.000
21.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.Nov.18	0	0.000	0.000	0.0001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.Nov.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	**0**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.076**	**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.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009	**0.009**
02.Nov.18	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.18	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**
04.Nov.18	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.18	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.18	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**
07.Nov.18	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.18	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.18	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.18	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**
11.Nov.18	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.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009	**0.009**
13.Nov.18	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.18	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.18	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.18	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.18	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.18	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.18	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.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.058	**0.058**
21.Nov.18	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.18	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.18	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.18	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.18	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.18	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.18	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.18	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.18	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.18	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**
	0.000	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.076**	**0.076**

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.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
02.Nov.18	0.000	0.015	0.000	0.000	0.000	0.000	0.001	0.0000	0.000
03.Nov.18	0.000	0.000	0.014	0.000	0.000	0.000	0.000	0.0000	0.000
04.Nov.18	0.006	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000
05.Nov.18	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.004	0.000
06.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000
07.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
09.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.000	0.000
10.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000
11.Nov.18	0.000	0.014	0.002	0.000	0.000	0.000	0.012	0.000	0.000
12.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.008	0.009	0.000
13.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.008	0.000	0.000
14.Nov.18	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000
15.Nov.18	0.000	0.000	0.009	0.000	0.000	0.000	0.006	0.004	0.000
16.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.027	0.000	0.000
17.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18.Nov.18	0.000	0.000	0.000	0.000	0.000	0.0002	0.000	0.000	0.000
19.Nov.18	0.000	0.000	0.001	0.000	0.000	0.003	0.007	0.001	0.000
20.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.001	0.000
21.Nov.18	0.005	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000
22.Nov.18	0.058	0.016	0.0000	0.009	0.000	0.000	0.013	0.0000	0.000
23.Nov.18	0.000	0.0000	0.001	0.000	0.000	0.000	0.001	0.000	0.000
24.Nov.18	0.000	0.000	0.000	0.000	0.000	0.002	0.009	0.010	0.000
25.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.000	0.000
26.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.000	0.000
27.Nov.18	0.002	0.000	0.000	0.000	0.000	0.006	0.0000	0.000	0.000
28.Nov.18	0.000	0.000	0.000	0.000	0.000	0.010	0.009	0.0000	0.000
29.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
30.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000
	0.072	**0.045**	**0.027**	**0.009**	**0.000**	**0.024**	**0.164**	**0.031**	**0.000**

ALL FIGURES IN MUs

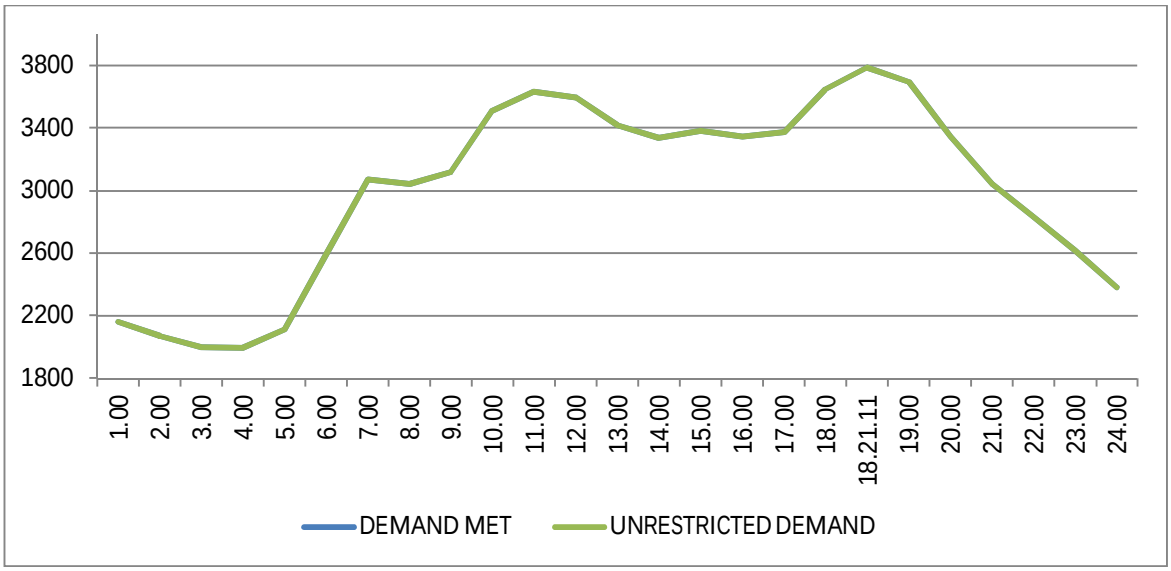
DATE	OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.				THEFT PRONE SHEDDING			TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE	GRAND TOTAL
	BSES		NDPL	NDMC	BSES		NDPL		
	BYPL	BRPL			BYPL	BRPL			
1	35	36	37	38	39	40	41	42= 26 to 41	43 = 25 + 42
01.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.009**
02.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.016**	**0.016**
03.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.014**	**0.014**
04.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.009**	**0.009**
05.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.007**	**0.007**
06.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.002**	**0.002**
07.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.000**
08.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.001**	**0.001**
09.Nov.18	0.000	0.000	**0.000**	0.000	0.000	0.000	0.000	**0.011**	**0.011**
10.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.009**	**0.009**
11.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.028**	**0.028**
12.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.017**	**0.026**
13.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.008**	**0.008**
14.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.003**	**0.003**
15.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.019**	**0.019**
16.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.027**	**0.027**
17.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.000**
18.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.0002**
19.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.012**	**0.012**
20.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.005**	**0.063**
21.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.007**	**0.007**
22.Nov.18	0.000	0.000	**0.0000**	0.000	0.000	0.000	0.000	**0.096**	**0.096**
23.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.002**	**0.002**
24.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.021**	**0.021**
25.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.012**	**0.012**
26.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.016**	**0.016**
27.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.008**	**0.008**
28.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.019**	**0.019**
29.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.001**	**0.001**
30.Nov.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.002**	**0.002**
TOTAL	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.372**	**0.448**

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.18	**70.917**	**3720**	18:11:59	0	**3720**	**3720**	18:11:59	**3720**	0
02.Nov.18	**71.267**	**3788**	18:21:11	0	**3788**	**3788**	18:21:11	**3788**	0
03.Nov.18	**67.036**	**3524**	18:18:44	0	**3524**	**3524**	18:18:44	**3524**	0
04.Nov.18	**64.415**	**3280**	18:33:41	0	**3280**	**3280**	18:33:41	**3280**	0
05.Nov.18	**66.237**	**3464**	18:33:05	0	**3464**	**3464**	18:33:05	**3464**	0
06.Nov.18	**63.735**	**3378**	11:06:56	0	**3378**	**3378**	11:06:56	**3378**	0
07.Nov.18	**53.387**	**2824**	18:18:20	0	**2824**	**2824**	18:18:20	**2824**	0
08.Nov.18	**50.889**	**2622**	10:00:13	0	**2622**	**2622**	10:00:13	**2622**	0
09.Nov.18	**55.874**	**3143**	10:06:09	0	**3143**	**3143**	10:06:09	**3143**	0
10.Nov.18	**55.829**	**3071**	10:45:33	0	**3071**	**3071**	10:45:33	**3071**	0
11.Nov.18	**56.772**	**2982**	11:14:14	0	**2982**	**2982**	11:14:14	**2982**	0
12.Nov.18	**60.356**	**3308**	09:57:00	0	**3308**	**3308**	09:57:00	**3308**	0
13.Nov.18	**61.446**	**3374**	10:45:06	0	3374	**3374**	10:45:06	**3374**	0
14.Nov.18	**61.410**	**3302**	09:35:41	0	**3302**	**3302**	09:35:41	**3302**	0
15.Nov.18	**60.340**	**3288**	18:00	0	**3288**	**3288**	18:00	**3288**	0
16.Nov.18	**63.389**	**3387**	11:00	0	**3387**	**3387**	11:00	**3387**	0
17.Nov.18	**59.921**	**3313**	10:38:20	0	**3313**	**3313**	10:38:20	**3313**	0
18.Nov.18	**59.098**	**3237**	10:44:11	0	**3237**	**3237**	10:44:11	**3237**	0
19.Nov.18	**61.525**	**3411**	10:08:45	0	**3411**	**3411**	10:08:45	**3411**	0
20.Nov.18	**60.481**	**3314**	10:34:51	0	**3314**	**3314**	10:34:51	**3314**	0
21.Nov.18	**60.740**	**3533**	10:55:27	0	**3533**	**3533**	10:55:27	**3533**	0
22.Nov.18	**61.052**	**3311**	10:30	0	**3311**	**3311**	10:30	**3311**	0
23.Nov.18	**59.561**	**3589**	10:18:01	0	**3589**	**3589**	10:18:01	**3589**	0
24.Nov.18	**58.704**	**3278**	10:13:47	0	**3278**	**3278**	10:13:47	**3278**	0
25.Nov.18	**57.933**	**3366**	11:03:28	0	**3366**	**3366**	11:03:28	**3366**	0
26.Nov.18	**62.044**	**3392**	10:13:22	0	**3392**	**3392**	10:13:22	**3392**	0
27.Nov.18	**62.468**	**3340**	11:13	0	**3340**	**3340**	11:13	**3340**	0
28.Nov.18	**63.607**	**3438**	10:51:16	0	**3438**	**3438**	10:51:16	**3438**	0
29.Nov.18	**62.526**	**3444**	10:02:41	0	**3444**	**3444**	10:02:41	**3444**	0
30.Nov.18	**64.819**	**3572**	10:07	0	**3572**	**3572**	10:07	**3572**	0
TOTAL	**1837.778**	**3788** 02.11.18	18:21:11	0	**3788** 02.11.18	**3788**	18:21:11	**3788**	0

10 LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING NOV 2018 ON 02.11.2018- 3788MW AT 18.21.11HRS.

All figures in MW

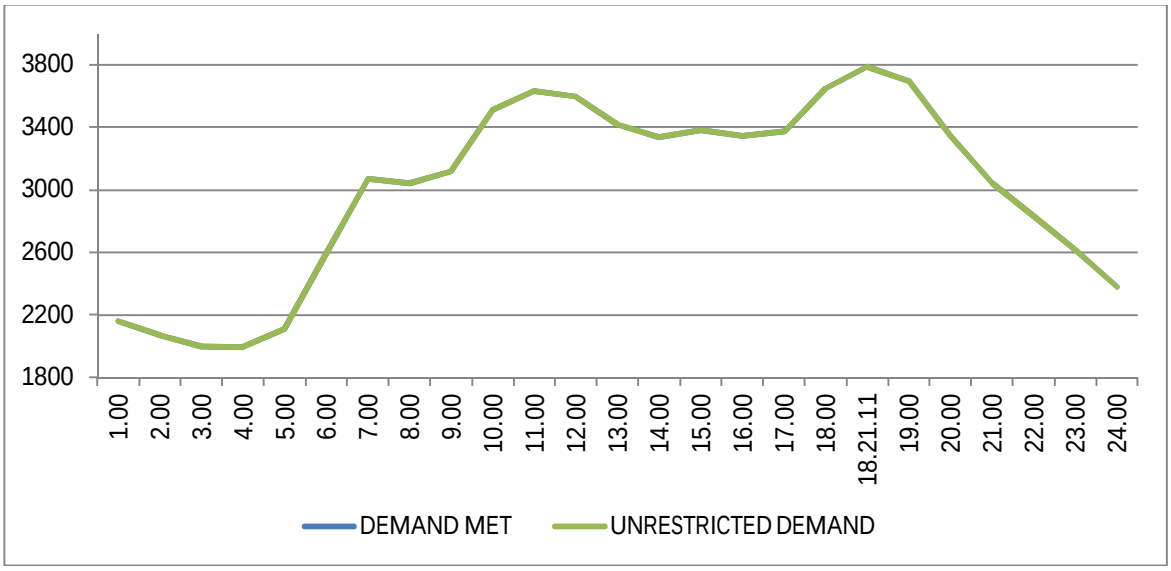
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	2159	0	2159
2.00	2071	0	2071
3.00	1999	0	1999
4.00	1993	0	1993
5.00	2112	0	2112
6.00	2593	0	2593
7.00	3069	0	3069
8.00	3041	0	3041
9.00	3120	0	3120
10.00	3514	0	3514
11.00	3632	0	3632
12.00	3598	0	3598
13.00	3419	0	3419
14.00	3336	0	3336
15.00	3383	0	3383
16.00	3347	0	3347
17.00	3372	0	3372
18.00	3647	0	3647
18.21.11	3788	0	3788
19.00	3696	0	3696
20.00	3347	0	3347
21.00	3042	0	3042
22.00	2835	0	2835
23.00	2615	0	2615
24.00	2380	0	2380
Total (IN MUS)	**71.267**	**0.016**	**71.283**



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING NOV 2018 ON 17.08.2018-5937MW AT 22.46.00HRS.

All figures in MW

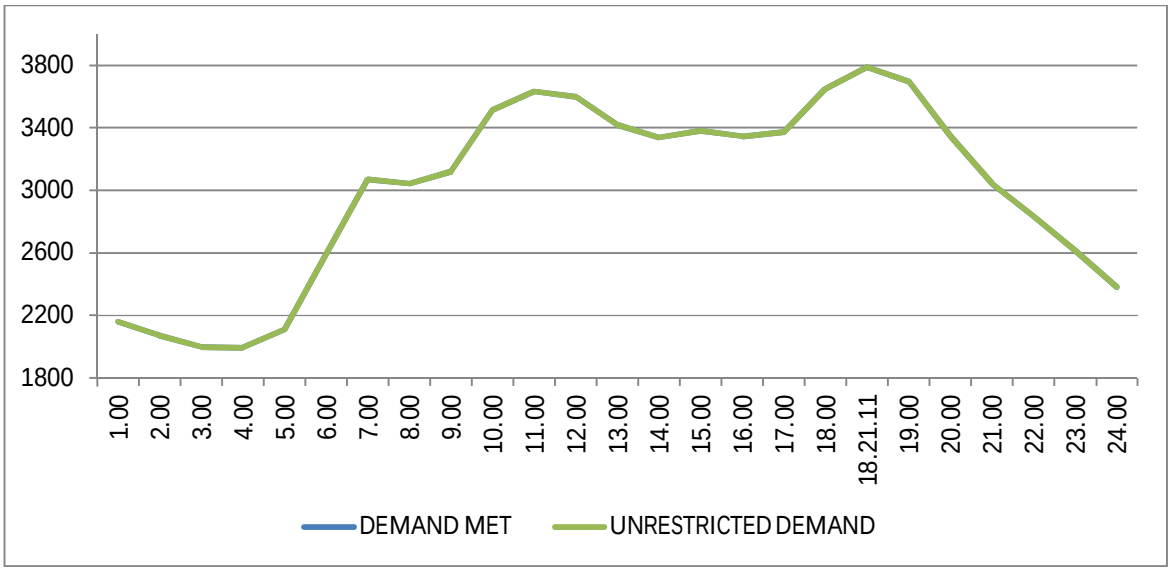
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	2159	0	2159
2.00	2071	0	2071
3.00	1999	0	1999
4.00	1993	0	1993
5.00	2112	0	2112
6.00	2593	0	2593
7.00	3069	0	3069
8.00	3041	0	3041
9.00	3120	0	3120
10.00	3514	0	3514
11.00	3632	0	3632
12.00	3598	0	3598
13.00	3419	0	3419
14.00	3336	0	3336
15.00	3383	0	3383
16.00	3347	0	3347
17.00	3372	0	3372
18.00	3647	0	3647
18.21.11	3788	0	3788
19.00	3696	0	3696
20.00	3347	0	3347
21.00	3042	0	3042
22.00	2835	0	2835
23.00	2615	0	2615
24.00	2380	0	2380
Total (IN MUS)	**71.267**	**0.016**	**71.283**



12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING NOV 2018 – 01.11.2018 – 71.267Mus

All figures in MW

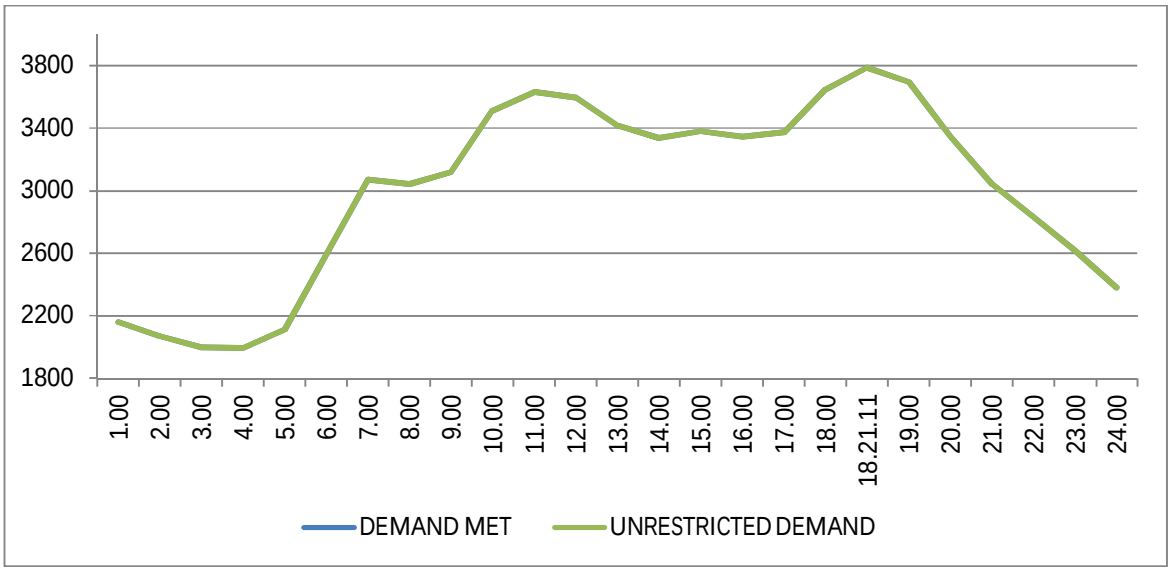
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	2159	0	2159
2.00	2071	0	2071
3.00	1999	0	1999
4.00	1993	0	1993
5.00	2112	0	2112
6.00	2593	0	2593
7.00	3069	0	3069
8.00	3041	0	3041
9.00	3120	0	3120
10.00	3514	0	3514
11.00	3632	0	3632
12.00	3598	0	3598
13.00	3419	0	3419
14.00	3336	0	3336
15.00	3383	0	3383
16.00	3347	0	3347
17.00	3372	0	3372
18.00	3647	0	3647
18.21.11	3788	0	3788
19.00	3696	0	3696
20.00	3347	0	3347
21.00	3042	0	3042
22.00	2835	0	2835
23.00	2615	0	2615
24.00	2380	0	2380
Total (IN MUS)	**71.267**	**0.016**	**71.283**



13 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING NOV 2018 – 02.11.2018 – 71.283 Mus

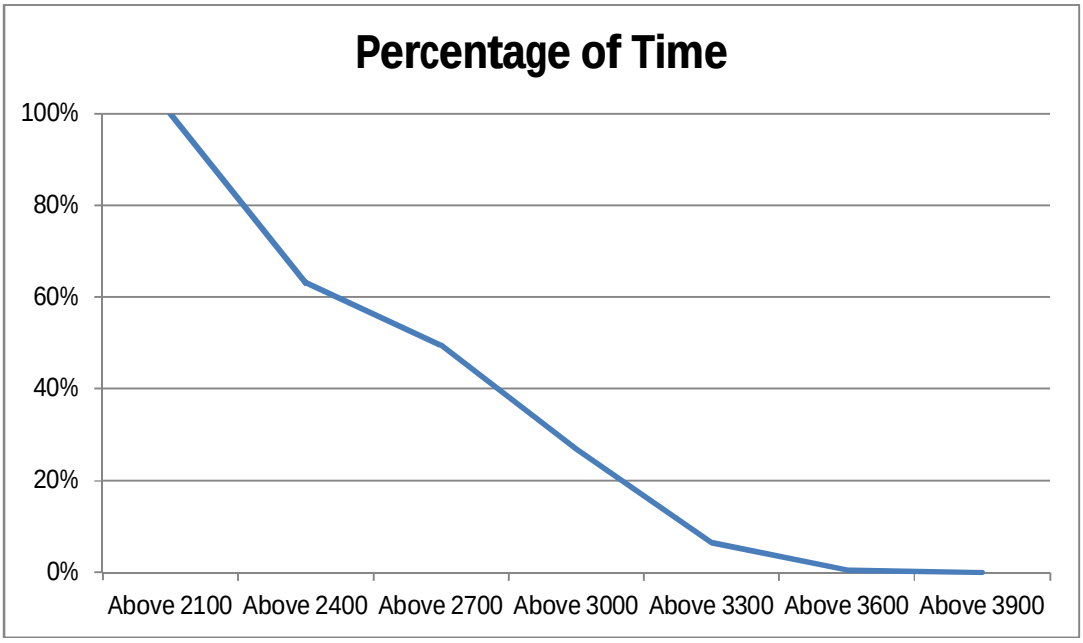
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	2159	0	2159
2.00	2071	0	2071
3.00	1999	0	1999
4.00	1993	0	1993
5.00	2112	0	2112
6.00	2593	0	2593
7.00	3069	0	3069
8.00	3041	0	3041
9.00	3120	0	3120
10.00	3514	0	3514
11.00	3632	0	3632
12.00	3598	0	3598
13.00	3419	0	3419
14.00	3336	0	3336
15.00	3383	0	3383
16.00	3347	0	3347
17.00	3372	0	3372
18.00	3647	0	3647
18.21.11	3788	0	3788
19.00	3696	0	3696
20.00	3347	0	3347
21.00	3042	0	3042
22.00	2835	0	2835
23.00	2615	0	2615
24.00	2380	0	2380
Total (IN MUS)	**71.267**	**0.016**	**71.283**



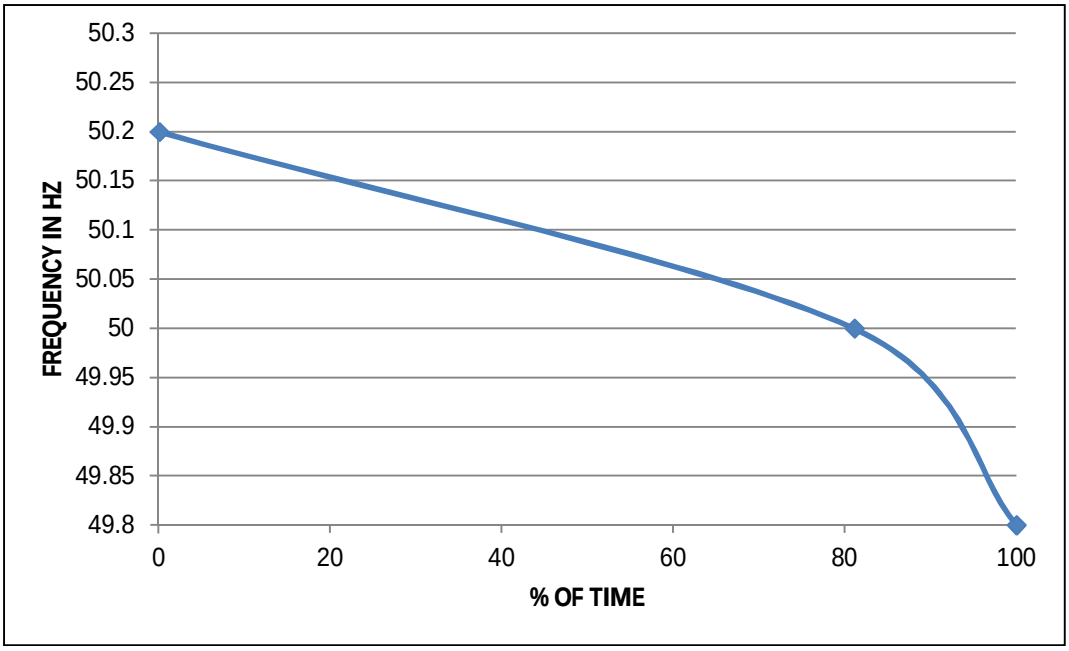
14 LOAD DURATION CURVE FOR NOV 2018

Load in MW	Percentage of Time
Above 2100	100.00%
Above 2400	63.13%
Above 2700	49.51%
Above 3000	26.91%
Above 3300	6.42%
Above 3600	0.49%
Above 3900	0.00%



15 FREQUENCY ANALYSIS FOR THE MONTH OF NOV 2018

Frequency Range in Hz.	Percentage of time
Above 49.8	100.00
Above 50.00	81.11
Above 50.20	0.07



16 VOLTAGE PROFILE OF 220 KV SUB-STATIONS IN DELHI DURING NOV 2018

All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
01.Nov.18	236.91	226.98	238.97	228.53
02.Nov.18	236.65	226.08	239.49	228.92
03.Nov.18	238.59	226.98	240.52	230.46
04.Nov.18	239.1	228.14	241.04	230.85
05.Nov.18	239.1	229.17	241.43	230.21
06.Nov.18	238.46	229.3	241.68	231.88
07.Nov.18	240.26	231.88	242.84	234.72
08.Nov.18	240.14	233.82	241.55	234.72
09.Nov.18	240.39	232.4	242.72	233.82
10.Nov.18	240.26	231.11	241.04	231.37
11.Nov.18	240.14	232.53	241.17	231.24
12.Nov.18	239.49	230.08	240.52	231.24
13.Nov.18	240.52	230.21	242.2	229.43
14.Nov.18	241.68	228.66	242.33	230.21
15.Nov.18	241.68	228.53	242.33	230.46
16.Nov.18	240.26	228.53	244.26	231.24
17.Nov.18	239.88	229.82	244	232.4
18.Nov.18	240.78	233.43	244.26	236.27
19.Nov.18	241.17	227.63	244.91	233.04
20.Nov.18	239.75	229.95	240.14	229.82
21.Nov.18	240.91	227.24	243.62	--
22.Nov.18	241.68	228.14	245.29	--
23.Nov.18	242.07	231.49	241.04	229.17
24.Nov.18	241.43	227.88	241.04	229.3
25.Nov.18	238.85	227.88	241.04	230.59
26.Nov.18	238.46	226.59	241.04	229.3
27.Nov.18	239.62	226.72	242.07	230.46
28.Nov.18	241.55	226.34	241.04	228.27
29.Nov.18	242.84	231.75	240.52	228.27
30.Nov.18	243.1	230.21	241.81	227.88

17 VOLTAGE PROFILE OF 400 KV SUB-STATIONS IN DELHI DURING NOV 2018

All figures in kV

Date	400kV Bamnauli Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01.Nov.18	417.86	21:00:24	401.44	18:13:29	408.9
02.Nov.18	422.08	20:29:43	0	10:02:41	273.48
03.Nov.18	424.19	4:01:04	403.79	10:52:05	412.65
04.Nov.18	417.86	23:56:20	405.19	18:11:59	411.53
05.Nov.18	421.61	4:01:11	404.02	7:23:31	413.1
06.Nov.18	421.37	3:03:36	405.66	10:09:05	413.72
07.Nov.18	421.37	4:01:58	408.48	7:07:58	414.91
08.Nov.18	418.09	0:13:41	406.13	6:42:31	413.45
09.Nov.18	419.26	4:02:34	400.27	12:07:55	410.67
10.Nov.18	416.92	3:59:57	402.61	7:32:58	409.51
11.Nov.18	420.2	21:00:24	401.91	9:53:11	411.36
12.Nov.18	418.09	20:01:56	402.14	11:37:55	409.78
13.Nov.18	420.2	20:59:30	398.39	9:31:38	409.47
14.Nov.18	420.67	3:39:31	401.44	17:54:23	410.56
15.Nov.18	420.67	4:00:54	400.97	17:54:27	410.67
16.Nov.18	421.37	4:03:08	399.8	10:40:38	411.09
17.Nov.18	420.43	4:03:01	400.5	11:08:22	410.61
18.Nov.18	420.43	4:03:24	402.61	10:33:25	412.3
19.Nov.18	421.61	4:00:57	400.5	9:43:51	411.5
20.Nov.18	419.26	4:00:31	400.97	10:30:26	409.95
21.Nov.18	419.5	4:01:44	393.23	9:34:44	410.20
22.Nov.18	421.37	4:01:07	395.81	10:37:18	409.28
23.Nov.18	419.73	4:00:40	400.5	10:09:11	410.41
24.Nov.18	419.73	3:31:03	400.5	11:24:54	409.76
25.Nov.18	420.43	20:45:59	402.85	9:33:07	412.36
26.Nov.18	419.26	4:01:16	399.8	6:43:50	410.55
27.Nov.18	421.84	4:00:53	401.68	9:17:43	411.64
28.Nov.18	419.73	1:59:16	400.5	10:37:39	411.05
29.Nov.18	418.32	4:00:39	399.33	10:35:10	409.50
30.Nov.18	420.43	4:01:12	398.63	11:08:43	410.19

All figures in kV

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01.Nov.18	424.42	21:00:27	409.65	18:13:27	416.58
02.Nov.18	426.06	21:29:58	411.06	18:38:15	417.92
03.Nov.18	427.7	4:00:24	415.04	18:21:24	421.62
04.Nov.18	427.23	3:59:51	413.4	18:11:43	421.23
05.Nov.18	428.64	3:50:22	412.46	7:20:24	420.76
06.Nov.18	427.7	3:03:28	413.17	7:19:41	422.14
07.Nov.18	428.88	16:04:16	417.15	6:47:19	423.81
08.Nov.18	427.7	8:37:49	416.68	6:44:38	423.66
09.Nov.18	428.41	20:51:27	413.87	18:11:35	421.58
10.Nov.18	426.53	4:00:13	413.63	7:33:26	419.74
11.Nov.18	428.41	20:59:46	415.98	17:52:53	419.74
12.Nov.18	426.3	20:03:24	413.87	18:13:32	420.49
13.Nov.18	429.11	20:59:03	412.23	9:24:24	419.88
14.Nov.18	429.58	3:39:38	412.46	17:53:40	420.68
15.Nov.18	428.64	4:00:57	412.7	17:49:58	421.25
16.Nov.18	426.77	20:30:22	412.7	13:06:14	421.4
17.Nov.18	427.94	3:28:15	412.7	11:10:22	420.51
18.Nov.18	428.64	4:03:14	417.15	7:23:16	423.03
19.Nov.18	428.88	4:00:24	414.34	10:26:07	421.04
20.Nov.18	427.94	4:01:31	411.29	10:42:56	419.22
21.Nov.18	426.53	4:01:40	406.83	9:28:14	418.49
22.Nov.18	426.06	3:59:58	406.83	10:17:33	417
23.Nov.18	426.3	4:00:07	411.52	17:51:18	418.75
24.Nov.18	426.53	3:06:04	411.06	17:49:56	418.71
25.Nov.18	426.53	4:01:24	412.7	9:33:21	419.84
26.Nov.18	426.3	4:01:43	410.82	6:43:25	418.68
27.Nov.18	428.41	4:00:51	405.43	12:14:38	418.93
28.Nov.18	427.23	2:01:28	410.82	10:37:25	418.53
29.Nov.18	426.3	21:01:12	410.35	10:54:24	417.93
30.Nov.18	427.23	4:00:47	408.94	11:26:53	418.79

18 DETAILS OF BREAK-DOWNS DURING THE MONTH OF NOVEMBER 2018

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
1	2.11.18	01:20	PAPPANKALAN-III 220/66kV 160MVA Tx-I	2.11.18	03:19	86A&B.
2	2.11.18	12:50	OKHLA 220/33kV 100MVA Tx-V	2.11.18	12:55	TRIPPED ON BACKUP RELAY TESTING.
3	2.11.18	12:50	OKHLA 220/33kV 100MVA Tx-IV	2.11.18	00:00	TRIPPED ON BACKUP RELAY TESTING.
4	2.11.18	15:19	220kV BAMNAULI-PAPPANKALAN-II CKT-II	2.11.18	15:30	AT PAPANKALAN-II : MAIN-II, RYB PHASE TRIP.
5	3.11.18	07:52	KANJHAWALA 66/11kV, 20MVA Tx-I	3.11.18	08:00	86, ABC.
6	4.11.18	00:05	GEETA COLONY 220/33kV 100MVA Tx-I	4.11.18	02:35	AUTO TRIP RELAY.
7	9.11.18	11:36	220kV BAMNAULI-PAPPANKALAN-II CKT-II	9.11.18	11:47	AT PAPANKALAN-II : DIST PROT, TRIP ABC.
8	11.11.18	13:56	220KV BAWANA-SHALIMARBAGH CKT-II	11.11.18	22:00	AT BAWANA : 86, B PHASE DIFFERENTIAL, O/C, B PHASE LA DAMAGED AT BAWANA. AT SHALIMARBAGH : DIST PROT, B PHASE DIFFERENTIAL TRIP, AUTO RECLOSE.
9	13.11.18	15:59	220KV WAZIRABAD - MANDOLA CKT-I	13.11.18	16:22	AT MANDOLA : MALFUNCTIONING OF RELAY CB OPERATED. AT WAZIRABAD : CKT. DID NOT TRIP.
10	14.11.18	21:55	220kV WAZIRABAD-GEETA COLONY CKT-I	14.11.18	22:54	BUS BAR PROTECTION OPERATED.
11	14.11.18	21:55	220 KV PATPARGANJ - I.P. CKT-I	15.11.18	10:03	AT I.P. : DIST PROT, ZONE-I, DIST 1.88KM.
12	14.11.18	21:55	220kV GEETA COLONY-PATPARGANJ CKT-I	14.11.18	22:55	BUS BAR PROTECTION OPERATED.
13	14.11.18	21:55	GEETA COLONY 220/33kV 100MVA Tx-II	14.11.18	23:49	BUS BAR PROTECTION OPERATED.
14	15.11.18	16:56	BAWANA 220/66kV 100MVA Tx	15.11.18	17:08	TRIPPED WHILE TAKING LOAD ON ICT-III.
15	18.11.18	16:47	RAJGHAT 220/33kV 100MVA Tx-2	18.11.18	17:06	I/C TRIPPED WITHOUT INDICATION.
16	18.11.18	16:47	RAJGHAT 220/33kV 100MVA Tx-I	18.11.18	17:06	I/C TRIPPED WITHOUT INDICATION.
17	19.11.18	10:24	220kV BAMNAULI-PAPPANKALAN-II CKT-II	19.11.18	12:30	AT PAPANKALAN-II : DIST PROT, ZONE-I, MAIN-I. AT BAMNAULI : 186A&B, RYB PHASE, DIST PROT, ZONE-I, DIST 7.75KM.
18	21.11.18	14:40	220kV PAPPANKALAN-III-PAPPANKALAN-I CKT-I	21.11.18	19:20	AT PPK-I : 295BC, TRIP CKT. FAULTY.
19	21.11.18	17:25	OKHLA 220/33kV 100MVA Tx-IV	21.11.18	17:58	86
20	22.11.18	02:20	220kV MAHARANI BAGH - ELECTRIC LANE CKT-I	22.11.18	07:20	AT ELECTRIC LANE : 86, O/C. AT MAHARANI BAGH : 86.
21	22.11.18	04:01	220kV MAHARANI BAGH - LODHI ROAD CKT-I	22.11.18	07:20	AT LODHI ROAD SUPPLY MAIL.
22	23.11.18	00:00	SUBZI MANDI 33/11kV, 16MVA Tx-I	23.11.18	12:15	87R.
23	23.11.18	10:00	NARAINA 33kV PAYAL (REWARI LINE-I) CKT	23.11.18	13:05	TRIPPED ON LOW GAS PRESSURE.
24	23.11.18	16:34	220kV VASANT KUNJ - R.K.PURAM CKT.-I	24.11.18	07:15	AT R.K.PURAM : TRIPPED WITHOUT INDICATION. SMOKE OCCURRED ON CONTROL PANEL.
25	25.11.18	07:38	220kV BAMNAULI-PAPPANKALAN-I CKT-I	25.11.18	11:45	AT PAPANKALAN-I : 195ABC, 295ABC. CB LOCK OUT.

19 DETAILS OF UNDER FREQUENCY RELAY OPERATIONS IN DELHI POWER SYSTEM DURING THE MONTH OF NOVEMBER 2018

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