DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

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DEC - 2018

1 SALIENT FEATURES OF DELHI POWER SYSTEM

Sr. No.	Features	DEC 2017	DEC 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)**	**4008**	**4417**
	Date	29.12.2017	28.12.2018
	Time	09.56.53	10.01.49
3	**Peak Demand met (MW)**	**4008**	**4417**
	Date	29.12.2017	28.12.2018
	Time	09.56.53	10.01.49
4	Peak Availability (MW)	3884	4200
5	Shortage (-) / Surplus (+) in MW	(-) 124	(-) 217
6	Percentage Shortage (-) / Surplus (+)	(-) 3.09	(-) 4.91
7	Maximum Energy Consume in a day (Mus)	69.102	73.674
8	Energy Consumed during the month	**1967.580**	**1997.717**
9	**Load Shedding in Mus**		
A)	Due to Grid Restrictions		
i)	Under Frequency Relay Operations	0.004	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	0.009	0.102
	BRPL	0.000	0.000
	BYPL	0.013	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	**0.026**	**0.102**
B)	Due to Constraints in System in Mus		
	DTL	0.206	0.200
	NDPL	0.097	0.131
	BRPL	0.232	0.017
	BYPL	0.036	0.155
	NDMC	0.000	0.000
	MES	0.000	0.000
	Other Agencies	0.000	0.000
	Total	**0.561**	**0.503**
11	**Grand Total in Mus**	**0.587**	**0.606**

2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING DEC 2018

A) For the month of Dec 2018

All Figures in MUs

S. No	Stations	Gross Generation	Aux. Consumption	Net Generation	Availability (%)	Backing Down
1.	**RPH**	0.000	0.132	-0.132	0.00	0.00
2.	**GT**	36.796	1.556	35.240	91.58	143.27
3.	**PPCL**	124.417	2.592	121.825	103.76	124.96
4.	**BTPS**	0.000	0.921	-0.921	0.00	0.00
5.	**Rithala**	0.000	0.000	0.000	0.00	--
6.	**Bawana**	332.680	10.112	322.568	92.05	594.69
7.	**Towmcl**	14.445	2.015	12.430	--	--
8.	**EDWPCL**	2.688	0.797	1.891	--	--
9.	**DMSWL**	10.041	1.904	8.137	--	--
	TOTAL	**521.067**	**20.029**	**501.038**	--	862.92

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

Power Station	Effective Capacity (MW)	Net Generation in MUs for Dec 2018	Availability (%) for Dec 2018	PLF (%) for Dec 2018	Cumulative Generation in MUs upto Dec 2018 for the year 2018-19	Cumulative Availability in % upto Dec 2018 for the year 2018-19	Cumulative PLF in % upto Dec 2018 for the year 2018-19
RPH	135	-0.132	0.00	0.00	-1.876	0.00	0.00
GT	270	35.240	91.58	18.05	469.480	79.43	27.23
PPCL	330	121.825	103.76	51.29	1271.857	90.62	60.07
BTPS	705	-0.921	0.00	0.00	1240.535	48.93	34.72
Rithala	108	0.000	0.00	0.00	-0.370	0.00	0.00
Bawana	1372	322.568	92.05	33.34	2863.616	75.33	33.06
Towmcl	16	12.430	--	--	106.941	--	--
EDWPCL	12	1.891	--	--	21.654	--	--
DMSWL	--	8.137	--	--	86.641	--	--
TOTAL	2948	**501.038**	--	--	**6058.478**	--	--

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	31.12.18	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	31.12.18	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	31.12.18	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	10.12.18	07.02	
		23.12.18	09.20	23.12.18	10.46	Internal fault

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.
		10.12.18	09.53	10.12.18	19.15	Air filter replacement
		10.12.18	19.15	19.12.18	05.47	
		19.12.18	12.58	20.12.18	05.40	Stopped due to low demand.
		20.12.18	22.42	31.12.18	23.59	

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.
		23.12.18	09.20	23.12.18	11.40	Stopped due to G.T. -2 tripped.

(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
		20.12.18	23.02	21.12.18	00.28	Loss of flame.
		21.12.18	23.47	22.12.18	08.50	Machine unloaded on high DP
		22.12.18	19.28	23.12.18	08.00	

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.
		20.12.18	23.06	21.12.18	03.18	Loss of flame.
		21.12.18	23.47	22.12.18	08.50	Machine unloaded on high DP
		22.12.18	19.28	23.12.18	08.00	

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
		15.12.18	20.59	16.12.18	00.00	Pre filter cleaning.

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.
		07.12.18	21.00	08.12.18	05.29	Pre filter cleaning.
		18.12.18	23.10	19.12.18	09.40	High dp
		19.12.18	22.57	20.12.18	16.00	
		23.12.18	15.00	23.12.18	23.59	Boroscopic inspection

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
		07.12.18	21.00	08.12.18	05.29	Pre filter cleaning.
		15.12.18	20.59	16.12.18	00.00	
		18.12.18	23.10	19.12.18	09.40	High dp
		19.12.18	22.57	20.12.18	16.00	
		23.12.18	15.00	23.12.18	23.59	Boroscopic inspection

(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	31.12.18	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	31.12.18	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	31.12.18	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 DEC 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	DMS WL	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	09.49.33	0	70	156	429	16	1	11	-3	680	2674	2599	75	3354	0	3354
2	10.30.00	0	34	161	507	17	-1	14	-3	729	2607	2579	28	3336	0	3336
3	10.08.27	0	29	153	430	19	-1	12	-3	639	2862	2769	93	3501	0	3501
4	10.30.14	0	56	153	503	19	0	5	-3	733	2807	2671	136	3540	0	3540
5	10.33.57	0	74	153	426	15	-1	6	-3	670	2907	2759	148	3577	0	3577
6	10.04.00	0	72	145	460	17	5	4	-3	700	2820	2743	77	3520	0	3520
7	10.22.01	0	38	149	507	19	7	5	0	725	2953	2941	12	3678	0	3678
8	10.29.19	0	38	147	584	18	6	5	0	798	2787	2624	163	3585	0	3585
9	10.15.00	0	37	142	526	16	5	5	0	731	2799	2714	85	3530	0	3530
10	09.31.22	0	38	266	460	17	10	14	0	805	2768	2744	24	3573	0	3573
11	10.29.24	0	39	162	463	16	5	14	0	699	2942	2954	-12	3641	0	3641
12	09.55.09	0	39	162	429	17	8	16	0	671	3021	2833	188	3692	0	3692
13	10.10.39	0	39	162	428	18	-1	6	0	652	2988	2860	128	3640	0	3640
14	10.29.40	0	39	162	436	19	-1	6	0	661	3166	3049	117	3827	0	3827
15	09.44.39	0	40	165	476	14	-1	12	0	706	3041	2797	244	3747	0	3747
16	11.01.57	0	39	165	555	19	-1	14	0	791	2947	2808	139	3738	0	3738
17	10.02.53	0	39	163	496	17	-1	19	0	733	3043	2941	102	3776	0	3776
18	09.56.52	0	39	162	461	17	2	18	0	699	3121	2981	140	3820	0	3820
19	10.01.36	0	39	251	333	16	-1	16	0	654	3082	3050	32	3736	0	3736
20	10.01.11	0	59	320	352	16	3	18	0	768	3078	3049	29	3846	0	3846
21	10.07.33	0	39	161	561	12	5	14	0	792	3322	3219	103	4114	0	4114
22	10.10.34	0	39	163	320	19	-1	5	0	545	3339	3242	97	3884	0	3884
23	10.32.35	0	41	-5	322	11	4	6	0	379	3579	3291	288	3958	0	3958
24	10.44.03	0	43	162	441	12	-1	15	0	672	3351	3174	177	4023	0	4023
25	10.13.28	0	40	162	442	17	5	15	0	681	3313	3258	55	3994	0	3994
26	09.53.44	0	40	162	465	16	4	14	0	701	3227	3247	-20	3928	0	3928
27	10.13.33	0	41	164	628	17	-1	14	0	863	3259	3200	59	4122	0	4122
28	10.01.49	0	40	161	632	17	-1	6	0	855	3562	3345	217	4417	0	4417
29	10.30.51	0	119	160	492	16	0	7	0	794	3388	3253	135	4182	0	4182
30	11.10.21	0	42	162	437	16	9	14	0	680	3497	3363	134	4177	0	4177
31	10.07.17	0	42	163	473	16	10	15	0	719	3644	3480	164	4363	0	4363

7 POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF MAXIMUM UNRESTRICTED DEMAND DURING DEC 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	DMS WL	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	09.49.33	0	70	156	429	16	1	11	-3	680	2674	2599	75	3354	0	3354
2	10.30.00	0	34	161	507	17	-1	14	-3	729	2607	2579	28	3336	0	3336
3	10.08.27	0	29	153	430	19	-1	12	-3	639	2862	2769	93	3501	0	3501
4	10.30.14	0	56	153	503	19	0	5	-3	733	2807	2671	136	3540	0	3540
5	10.33.57	0	74	153	426	15	-1	6	-3	670	2907	2759	148	3577	0	3577
6	10.04.00	0	72	145	460	17	5	4	-3	700	2820	2743	77	3520	0	3520
7	10.22.01	0	38	149	507	19	7	5	0	725	2953	2941	12	3678	0	3678
8	10.29.19	0	38	147	584	18	6	5	0	798	2787	2624	163	3585	0	3585
9	10.15.00	0	37	142	526	16	5	5	0	731	2799	2714	85	3530	0	3530
10	09.31.22	0	38	266	460	17	10	14	0	805	2768	2744	24	3573	0	3573
11	10.29.24	0	39	162	463	16	5	14	0	699	2942	2954	-12	3641	0	3641
12	09.55.09	0	39	162	429	17	8	16	0	671	3021	2833	188	3692	0	3692
13	10.10.39	0	39	162	428	18	-1	6	0	652	2988	2860	128	3640	0	3640
14	10.29.40	0	39	162	436	19	-1	6	0	661	3166	3049	117	3827	0	3827
15	09.44.39	0	40	165	476	14	-1	12	0	706	3041	2797	244	3747	0	3747
16	11.01.57	0	39	165	555	19	-1	14	0	791	2947	2808	139	3738	0	3738
17	10.02.53	0	39	163	496	17	-1	19	0	733	3043	2941	102	3776	0	3776
18	09.56.52	0	39	162	461	17	2	18	0	699	3121	2981	140	3820	0	3820
19	10.01.36	0	39	251	333	16	-1	16	0	654	3082	3050	32	3736	0	3736
20	10.01.11	0	59	320	352	16	3	18	0	768	3078	3049	29	3846	0	3846
21	10.07.33	0	39	161	561	12	5	14	0	792	3322	3219	103	4114	0	4114
22	10.10.34	0	39	163	320	19	-1	5	0	545	3339	3242	97	3884	0	3884
23	10.32.35	0	41	-5	322	11	4	6	0	379	3579	3291	288	3958	0	3958
24	10.44.03	0	43	162	441	12	-1	15	0	672	3351	3174	177	4023	0	4023
25	10.13.28	0	40	162	442	17	5	15	0	681	3313	3258	55	3994	0	3994
26	09.53.44	0	40	162	465	16	4	14	0	701	3227	3247	-20	3928	0	3928
27	10.13.33	0	41	164	628	17	-1	14	0	863	3259	3200	59	4122	0	4122
28	10.01.49	0	40	161	632	17	-1	6	0	855	3562	3345	217	4417	0	4417
29	10.30.51	0	119	160	492	16	0	7	0	794	3388	3253	135	4182	0	4182
30	11.10.21	0	42	162	437	16	9	14	0	680	3497	3363	134	4177	0	4177
31	10.07.17	0	42	163	473	16	10	15	0	719	3644	3480	164	4363	0	4363

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

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

A (i) RPH	0.000
(ii) GT+STG	37.796
(iii) PRAGATI	124.417
(iv) RITHALA	0.000
(v) BAWANA CCGT	332.680
(vi) Timarpur – Okhla	14.445
EDWPCL	2.688
DMSWL	10.041
TOTAL	521.067
B) AVAILABILITY FROM BTPS	-0.921
C) AUXILIARY CONSUMPTION OF GENERATING STNs. EXCLUDING BTPS	19.108
D) NET GENERATION AVAILABLE WITHIN DELHI(A+B-C)	**501.038**

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	10.299	10.059	10.299	10.059
SASAN	300.450	290.815	300.399	290.766
TANKAPUR	2.889	2.801	2.882	2.794
CHAMERA	5.583	5.440	5.583	5.440
CHAMERA -II	6.035	5.881	6.035	5.881
CHAMERA -III	3.201	3.119	3.201	3.119
DHAULIGANGA	4.746	4.624	4.746	4.624
SEWA -2	1.528	1.493	1.528	1.493
URI	12.353	12.067	12.353	12.067
URI-II	9.121	8.910	9.121	8.910
KOLDAM	0.000	0.000	0.000	0.000
KOTESHWAR	8.227	7.952	8.227	7.952
PARBATI3	1.482	1.444	1.482	1.442
RAMPUR	0.000	0.000	0.000	0.000
MUNDRA_UMPP	0.000	0.000	0.000	0.000
ANTA (GAS)	0.000	0.000	0.000	0.000
ANTA (RLNG)	32.153	30.767	0.000	0.000
ANTA (LIQUID)	0.000	0.000	0.000	0.000
DADRI (GAS)	17.862	17.443	10.605	10.355
DADRI (RLNG)	49.158	48.013	0.404	0.395
DADRI (LIQUID)	0.000	0.000	0.000	0.000
AURAIYA (GAS)	0.173	0.168	0.072	0.070
AURAIYA (RLNG)	50.336	48.790	0.000	0.000
AURAIYA (LIQUID)	0.000	0.000	0.000	0.000
SINGRAULI	102.286	98.129	99.900	95.845
SINGRAULI_HYDRO	0.000	0.000	0.000	0.000
RIHAND -I	43.933	42.223	41.785	40.160
RIHAND -II	86.478	83.173	84.768	81.532
RIHAND -III	85.027	81.802	78.668	75.690
UNCHAHAR-I	15.782	15.336	12.715	12.356
UNCHAHAR-II	31.580	30.688	25.056	24.349
UNCHAHAR-III	19.635	19.080	15.870	15.422
UNCHAHAR-IV	0.000	0.000	0.000	0.000
DADRI (TH)	477.592	466.572	213.723	208.651
DADRI (TH) STAGE-II	512.867	500.901	407.984	398.479
NAPP	31.033	30.084	31.033	30.084
RAPP 'B'	0.000	0.000	0.000	0.000
RAPP 'C'	40.067	38.340	40.067	38.340
NATHPA JHAKRI	22.136	21.457	22.136	21.457
DULASTI	13.235	12.927	13.235	12.927
TEHRI	15.535	15.017	15.516	14.998

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	437.779	427.723	318.800	311.504
KHELGAON	32.735	32.035	25.306	24.766
KHELGAON-II	107.620	105.319	92.289	90.318
FARAKA	14.872	14.614	10.778	10.590
TALA	1.926	1.885	1.926	1.885
TALCHER	0.000	0.000	0.000	0.000
DVC	184.912	183.611	183.611	181.479
TUTICORIN - BRPL	10.426	10.298	10.298	10.178
ADHPL (KULLU)	0.000	0.000	0.000	0.000
MEGHALAYA	0.000	0.000	0.000	0.000
MAHARASHTRA	0.061	0.060	0.060	0.059
KARNATAKA	0.412	0.406	0.406	0.402
BIHAR	0.161	0.160	0.160	0.158
METHON POWER(NDPL)LT-06	177.931	176.684	176.684	174.613
DVC MEJIA (LT-08)(BYPL)	68.878	68.395	68.395	67.593
URS	0.101	0.100	0.101	0.100
JAMMU & KASHMIR	0.229	0.226	0.226	0.223
HIMACHAL PRADESH	12.370	12.130	12.130	11.988
ANDHRA	1.787	1.764	1.764	1.742
MIZORAM	0.000	0.000	0.000	0.000
PUNJAB	0.081	0.080	0.080	0.079
HIMACHAL PRADESH LT-59 DVC	0.932	0.914	0.914	0.903
HARYANA (LT-05)	57.247	56.580	56.580	55.922
SIKKIM	0.000	0.000	0.000	0.000
WEST BENGAL	0.000	0.000	0.000	0.000
ORISSA MT-20 JITPL -DVC	6.106	6.032	6.032	5.962
COASTENG (TAMILNAIDU)	0.071	0.070	0.070	0.069
MANIPUR	0.000	0.000	0.000	0.000
RAJASTHAN(SOLAR) BRPL-LT36	2.876	2.784	2.784	2.751
RAJASTHAN(SOLAR) BYPL - LT-35	2.950	2.856	2.856	2.822
RAJASTHAN(SOLAR) TPDDL LT-31	2.907	2.814	2.814	2.781
TO TELANGANA	-0.492	-0.500	-0.500	-0.507
TO ANDHRA	-80.135	-81.151	-81.151	-82.110
TO MADHYA PRADESH	-92.420	-94.027	-94.027	-95.142
TO MANIPUR	-21.395	-21.701	-21.701	-21.959
TO CHATTISHGARH	0.000	0.000	0.000	0.000
TO J&K	-73.526	-74.401	-74.401	-75.283
TO ODISHA	-24.898	-25.202	-25.202	-25.490
TO UTTRAKHAND	0.000	0.000	0.000	0.000
TO MAHARASHTRA	-2.987	-3.040	-3.040	-3.075
TO MEGHALAYA	-46.999	-47.672	-47.672	-48.237
BTPS TO MP	0.000	0.000	0.000	0.000
TO HIMACHAL PRADESH	-44.299	-45.633	-45.633	-46.174
TO GUJRAT	-18.377	-18.667	-18.667	-18.889
POWER EXCHANGE(IEX)	30.783	30.396	30.783	30.396
TO POWER EXCHANGE (IEX)	-260.743	-263.772	-260.743	-263.772
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)	-25.871	-26.181	-25.871	-26.181
TO SHARE PROJECT (PUNJAB)	-25.675	-25.983	-25.675	-25.983
TOTAL	**2451.116**	**2365.522**	**1760.960**	**1692.140**

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	1524.860	1483.086	991.550	963.305
NTPC - ER	155.226	151.969	128.373	125.674
NHPC	70.473	68.764	70.466	68.754
NPC	71.100	68.424	71.100	68.424
SASAN	300.450	290.815	300.399	290.766
KOTESHWAR	8.227	7.952	8.227	7.952
MUNDRA_UMPP	0.000	0.000	0.000	0.000
NATHPA JHAKRI	22.136	21.457	22.136	21.457
TEHRI	15.535	15.017	15.516	14.998
TALA	1.926	1.885	1.926	1.885
JHAJJAR	437.779	427.723	318.800	311.504
TALCHER	0.000	0.000	0.000	0.000
RAJASTHAN SOLAR(BRPL)T-36	2.876	2.784	2.784	2.751
RAJASTHAN SOLAR(BYPL)T-35	2.950	2.856	2.856	2.822
RAJASTHAN SOLAR(TPDDL)T-31	2.907	2.814	2.814	2.781
DVC	184.912	183.611	183.611	181.479
TUTICORIN BRPL	10.426	10.298	10.298	10.178
ADHPL (KULLU)	0.000	0.000	0.000	0.000
MEGHALAYA	0.000	0.000	0.000	0.000
MAHARASHTRA	0.061	0.060	0.060	0.059
KARNATAKA	0.412	0.406	0.406	0.402
BIHAR	0.161	0.160	0.160	0.158
METHON POWER (NDPL)-LT-06	177.931	176.684	176.684	174.613
DVC MEJIA (LT-08)(BYPL)	68.878	68.395	68.395	67.593
URS	0.101	0.100	0.101	0.100
JAMMU & KASHMIR	0.229	0.226	0.226	0.223
HIMACHAL PRADESH	12.370	12.130	12.130	11.988
ANDHRA	1.787	1.764	1.764	1.742
MIZORAM	0.000	0.000	0.000	0.000
PUNJAB	0.081	0.080	0.080	0.079
HIMACHAL PRADESH LT-59 DVC	0.932	0.914	0.914	0.903
HARYANA (LT -05)	57.247	56.580	56.580	55.922
SIKKIM	0.000	0.000	0.000	0.000
WEST BENGAL	0.000	0.000	0.000	0.000
ORISSA MT-20 JITPL -DVC	6.106	6.032	6.032	5.962
COASTENG (TAMILNAIDU)	0.071	0.070	0.070	0.069
MANIPUR	0.000	0.000	0.000	0.000
POWER EXCHANGE(IEX)	30.783	30.396	30.783	30.396
POWER EXCHANGE(PX)	0.000	0.000	0.000	0.000
TOTAL	**3168.932**	**3093.451**	**2485.242**	**2424.941**

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 TELANGANA	-0.492	-0.500	-0.500	-0.507
TO ANDHRA	-80.135	-81.151	-81.151	-82.110
TO MADHYA PRADESH	-92.420	-94.027	-94.027	-95.142
TO MANIPUR	-21.395	-21.701	-21.701	-21.959
TO J&K	-73.526	-74.401	-74.401	-75.283
TO CHATTISHGARH	0.000	0.000	0.000	0.000
TO ODISHA	-24.898	-25.202	-25.202	-25.490
TO UTTRAKHAND	0.000	0.000	0.000	0.000
TO MAHARASHTRA	-2.987	-3.040	-3.040	-3.075
TO MEGHALAYA	-46.999	-47.672	-47.672	-48.237
BTPS TO MP	0.000	0.000	0.000	0.000
TO HIMACHAL PRADESH	-44.299	-45.633	-45.633	-46.174
TO GUJRAT	-18.377	-18.667	-18.667	-18.889
TO POWER EXCHANGE (IEX)	-260.743	-263.772	-260.743	-263.772
TO POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
TO SHARE PROJECT (HARYANA)	-25.871	-26.181	-25.871	-26.181
TO SHARE PROJECT (PUNJAB)	-25.675	-25.983	-25.675	-25.983
TOTAL	**-717.816**	**-727.930**	**-724.282**	**-732.801**
TOTAL SCHEDULED DRAWAL FROM THE GRID	**2451.116**	**2365.522**	**1760.960**	**1692.140**

TOTAL CONSUMPTION INCLUDING AUX. OF GENERATING STNs. EXCLUDING BTPS		2016.820
NET CONSUMPTION		**1997.712**
AVAILABILITY WITHIN DELHI		501.038
ACTUAL DRAWAL FROM THE GRID		1496.674
OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID ON THE BASIS OF SCHEDULED ALLOCATION MADE BY NRLDC TO DELHI AT PERIPHERY		-195.466
LOAD SHEDDING		0.605
UNRESTRICTED DEMAND (GROSS)		2017.425
UNRESTRICTED DEMAND (NET)		1998.317
MAX. NET CONSUMPTION		73.674 ON 28.12.2018
MAX. LOAD SHEDDING		207MW ON 2012.2018 AT 09.15HRS.
PEAK LOAD	Peak Demand during the month	SHEDDING AT PEAK TIME
DAY PEAK	4417MW AT 10.01.49HRS ON 28.12.2018	0 MW
EVENING PEAK	3692MW AT 18.30HRS ON 28.12.2018	0 MW
P.L.F. OF GENCO AND PRAGATI STNs.	RPH	0.00%
	GT	18.32%
	PRAGATI	50.67%
	RITHALA	0.00%
	BAWANA	32.61%
	Timarpur Okhla	121.35%
	EDWPCL	30.11%
	DMSWL	56.23%

9 SHEDDING DETAILS DURING THE MONTH OF DEC 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.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
02.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
03.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
04.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
05.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
06.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
07.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.089	0.000	0.000
08.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
09.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013	0.000	0.000
13.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.Dec.18	0	0.000	0.000	0.0001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.Dec.18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31.Dec.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**	**0.102**	**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.Dec.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**
02.Dec.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.Dec.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.Dec.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.Dec.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.Dec.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.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.089	**0.089**
08.Dec.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.Dec.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.Dec.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.Dec.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.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013	**0.013**
13.Dec.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.Dec.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.Dec.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.Dec.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.Dec.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.Dec.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.Dec.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.Dec.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**
21.Dec.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.Dec.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.Dec.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.Dec.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.Dec.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.Dec.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.Dec.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.Dec.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.Dec.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.Dec.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**
31.Dec.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**	**0.102**	**0.102**

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.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.000	0.000
02.Dec.18	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000
03.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
04.Dec.18	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000
05.Dec.18	0.001	0.000	0.000	0.000	0.000	0.000	0.021	0.000	0.000
06.Dec.18	0.000	0.000	0.002	0.000	0.000	0.000	0.001	0.001	0.000
07.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000
08.Dec.18	0.0004	0.000	0.002	0.000	0.000	0.000	0.001	0.001	0.000
09.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.000
10.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000
11.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.000
12.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.003	0.000
13.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14.Dec.18	0.000	0.042	0.000	0.000	0.000	0.000	0.021	0.0005	0.000
15.Dec.18	0.000	0.000	0.000	0.000	0.000	0.013	0.003	0.000	0.000
16.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.002	0.000
17.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.0002	0.106	0.000
18.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0003	0.000
19.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0002	0.000
20.Dec.18	0.095	0.000	0.021	0.000	0.000	0.000	0.010	0.000	0.000
21.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.000	0.000
22.Dec.18	0.000	0.000	0.000	0.000	0.000	0.002	0.014	0.003	0.000
23.Dec.18	0.000	0.012	0.000	0.000	0.000	0.000	0.002	0.0003	0.000
24.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.000
25.Dec.18	0.000	0.012	0.001	0.000	0.000	0.000	0.002	0.001	0.000
26.Dec.18	0.004	0.007	0.000	0.000	0.000	0.000	0.001	0.0003	0.000
27.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000
29.Dec.18	0.0003	0.000	0.0003	0.000	0.000	0.000	0.005	0.000	0.000
30.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.004	0.000
31.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000
	0.101	0.073	0.026	0.000	0.000	0.017	0.155	0.131	0.000

ALL FIGURES IN MUs

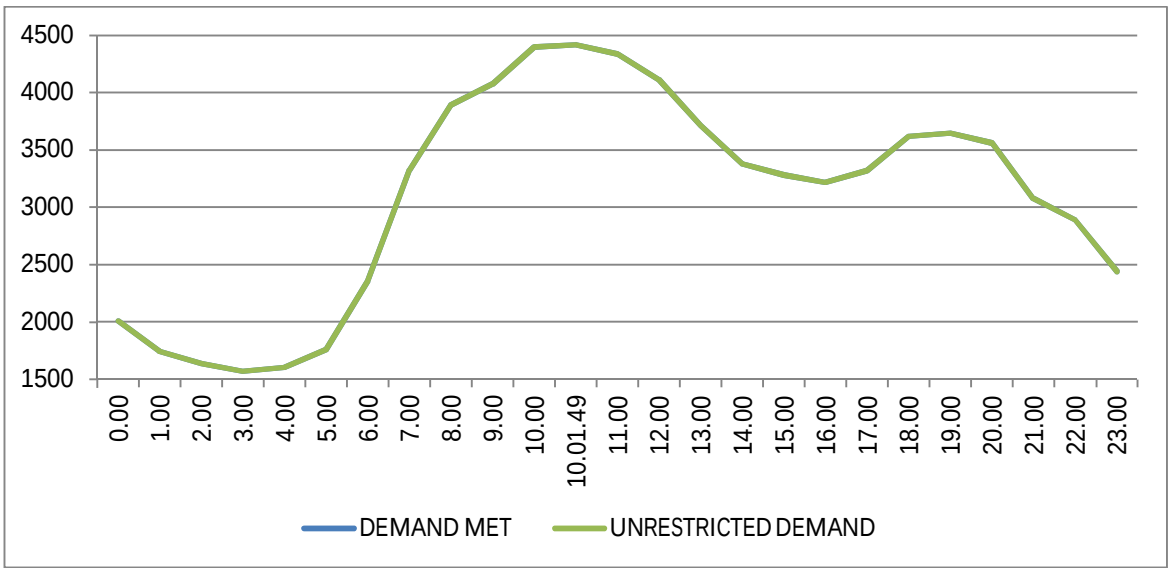
DATE	OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.				THEFT PRONE SHEDDING			TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE	GRAND TOTAL
	BSES		NDPL	NDMC	BSES		NDPL		
	BYPL	BRPL			BYPL	BRPL			
1	35	36	37	38	39	40	41	42= 26 to 41	43 = 25 + 42
01.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.017**	**0.017**
02.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.003**	**0.003**
03.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.001**	**0.001**
04.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.001**	**0.001**
05.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.022**	**0.022**
06.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.004**	**0.004**
07.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.002**	**0.091**
08.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.004**	**0.004**
09.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.006**	**0.006**
10.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.002**	**0.002**
11.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.005**	**0.005**
12.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.010**	**0.023**
13.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.000**
14.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.064**	**0.064**
15.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.016**	**0.016**
16.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.017**	**0.017**
17.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.106**	**0.106**
18.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.0003**
19.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.000**
20.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.126**	**0.126**
21.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.017**	**0.017**
22.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.019**	**0.019**
23.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.014**	**0.014**
24.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.003**	**0.003**
25.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.016**	**0.016**
26.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.012**	**0.012**
27.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.000**
28.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.002**	**0.002**
29.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.006**	**0.006**
30.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.005**	**0.005**
31.Dec.18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.003**	**0.003**
TOTAL	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.503**	**0.605**

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.Dec.18	**59.603**	**3354**	09:49:33	0	**3354**	**3354**	09:49:33	**3354**	0
02.Dec.18	**57.364**	**3336**	10:30	0	**3336**	**3336**	10:30	**3336**	0
03.Dec.18	**61.955**	**3501**	10:08:27	0	**3501**	**3501**	10:08:27	**3501**	0
04.Dec.18	**61.074**	**3540**	10:30:14	0	**3540**	**3540**	10:30:14	**3540**	0
05.Dec.18	**64.662**	**3577**	10:33:57	0	**3577**	**3577**	10:33:57	**3577**	0
06.Dec.18	**63.059**	**3520**	10:04	0	**3520**	**3520**	10:04	**3520**	0
07.Dec.18	**64.092**	**3678**	10:22:01	0	**3678**	**3678**	10:22:01	**3678**	0
08.Dec.18	**60.876**	**3585**	10:29:19	0	**3585**	**3585**	10:29:19	**3585**	0
09.Dec.18	**58.965**	**3530**	10:15	0	**3530**	**3530**	10:15	**3530**	0
10.Dec.18	**63.025**	**3573**	09:31:22	0	**3573**	**3573**	09:31:22	**3573**	0
11.Dec.18	**63.936**	**3641**	10:29:24	0	**3641**	**3641**	10:29:24	**3641**	0
12.Dec.18	**64.167**	**3692**	09:59:09	0	**3692**	**3692**	09:59:09	**3692**	0
13.Dec.18	**64.042**	**3640**	10:10:39	0	3640	**3640**	10:10:39	**3640**	0
14.Dec.18	**65.378**	**3827**	10:29:40	0	**3827**	**3827**	10:29:40	**3827**	0
15.Dec.18	**62.176**	**3747**	09:44:39	0	**3747**	**3747**	09:44:39	**3747**	0
16.Dec.18	**60.490**	**3738**	11:01:57	0	**3738**	**3738**	11:01:57	**3738**	0
17.Dec.18	**64.678**	**3776**	10:02:53	0	**3776**	**3776**	10:02:53	**3776**	0
18.Dec.18	**65.980**	**3820**	09:56:52	0	**3820**	**3820**	09:56:52	**3820**	0
19.Dec.18	**63.485**	**3736**	10:01:36	0	**3736**	**3736**	10:01:36	**3736**	0
20.Dec.18	**66.767**	**3846**	10:01:11	0	**3846**	**3846**	10:01:11	**3846**	0
21.Dec.18	**67.267**	**4114**	10:07:33	0	**4114**	**4114**	10:07:33	**4114**	0
22.Dec.18	**65.078**	**3884**	10:10:34	0	**3884**	**3884**	10:10:34	**3884**	0
23.Dec.18	**64.112**	**3958**	10:32:35	0	**3958**	**3958**	10:32:35	**3958**	0
24.Dec.18	**67.449**	**4023**	10:44:03	0	**4023**	**4023**	10:44:03	**4023**	0
25.Dec.18	**64.924**	**3994**	10:13:28	0	**3994**	**3994**	10:13:28	**3994**	0
26.Dec.18	**65.316**	**3928**	09:53:44	0	**3928**	**3928**	09:53:44	**3928**	0
27.Dec.18	**68.964**	**4122**	10:13:33	0	**4122**	**4122**	10:13:33	**4122**	0
28.Dec.18	**73.674**	**4417**	10:01:49	0	**4417**	**4417**	10:01:49	**4417**	0
29.Dec.18	**69.193**	**4182**	10:30:51	0	**4182**	**4182**	10:30:51	**4182**	0
30.Dec.18	**66.077**	**4177**	11:10:21	0	**4177**	**4177**	11:10:21	**4177**	0
31.Dec.18	**69.884**	**4363**	10:07:17	0	**4363**	**4363**	10:07:17	**4363**	0
TOTAL	**1997.712**	**4417** **28.12.18**	10:01:49	0	**4417** **28.12.18**	**4417**	10:01:49	**4417**	0

10 LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING DEC 2018 ON 28.12.2018- 4417MW AT 10.01.49HRS.

All figures in MW

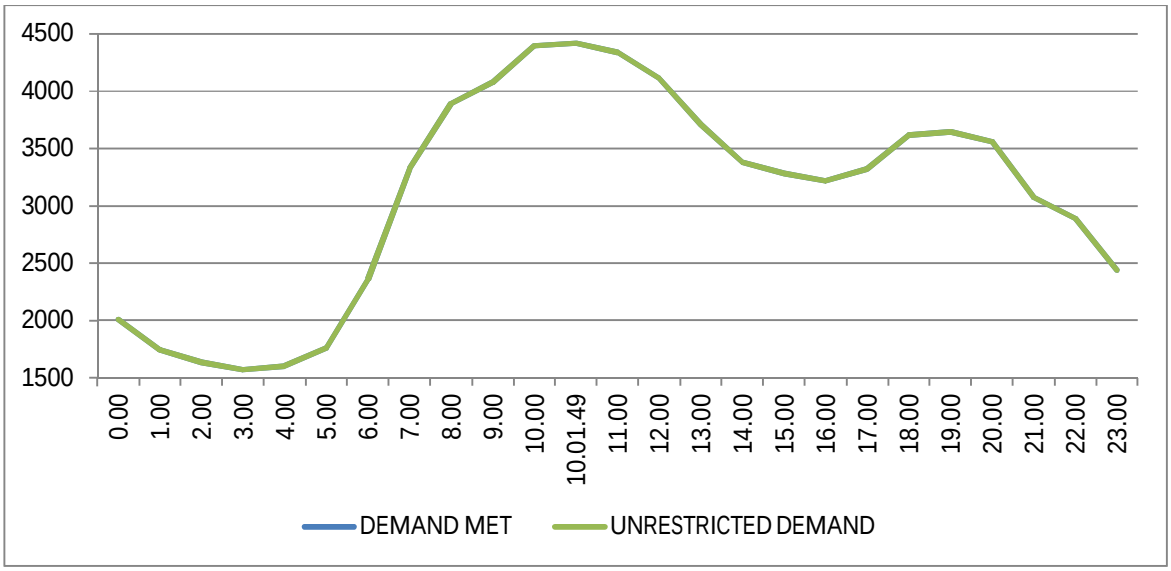
Hrs.	Demand	Load Shedding	Un-Restricted Demand
0.00	2005	0	2005
1.00	1745	0	1745
2.00	1633	0	1633
3.00	1572	0	1572
4.00	1603	0	1603
5.00	1761	0	1761
6.00	2360	0	2360
7.00	3326	0	3326
8.00	3892	0	3892
9.00	4075	0	4075
10.00	4397	0	4397
10.01.49	4417	0	4417
11.00	4335	0	4335
12.00	4113	0	4113
13.00	3710	0	3710
14.00	3377	0	3377
15.00	3284	0	3284
16.00	3218	0	3218
17.00	3317	0	3317
18.00	3621	0	3621
19.00	3646	0	3646
20.00	3561	0	3561
21.00	3073	0	3073
22.00	2889	0	2889
23.00	2441	0	2441
Total (IN MUS)	**73.674**	**0.002**	**73.676**



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING DEC 2018 ON 28.12.2018- 4417MW AT 10.01.49HRS.

All figures in MW

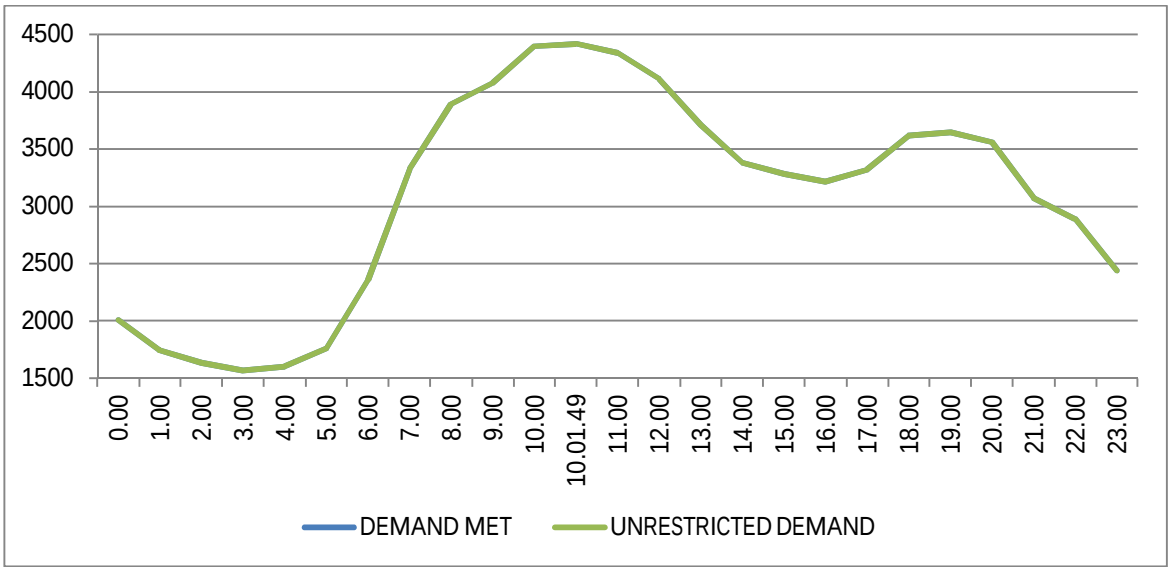
Hrs.	Demand	Load Shedding	Un-Restricted Demand
0.00	2005	0	2005
1.00	1745	0	1745
2.00	1633	0	1633
3.00	1572	0	1572
4.00	1603	0	1603
5.00	1761	0	1761
6.00	2360	0	2360
7.00	3326	0	3326
8.00	3892	0	3892
9.00	4075	0	4075
10.00	4397	0	4397
10.01.49	4417	0	4417
11.00	4335	0	4335
12.00	4113	0	4113
13.00	3710	0	3710
14.00	3377	0	3377
15.00	3284	0	3284
16.00	3218	0	3218
17.00	3317	0	3317
18.00	3621	0	3621
19.00	3646	0	3646
20.00	3561	0	3561
21.00	3073	0	3073
22.00	2889	0	2889
23.00	2441	0	2441
Total (IN MUS)	**73.674**	**0.002**	**73.676**



12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING DEC 2018 – 28.12.2018 – 73.674Mus

All figures in MW

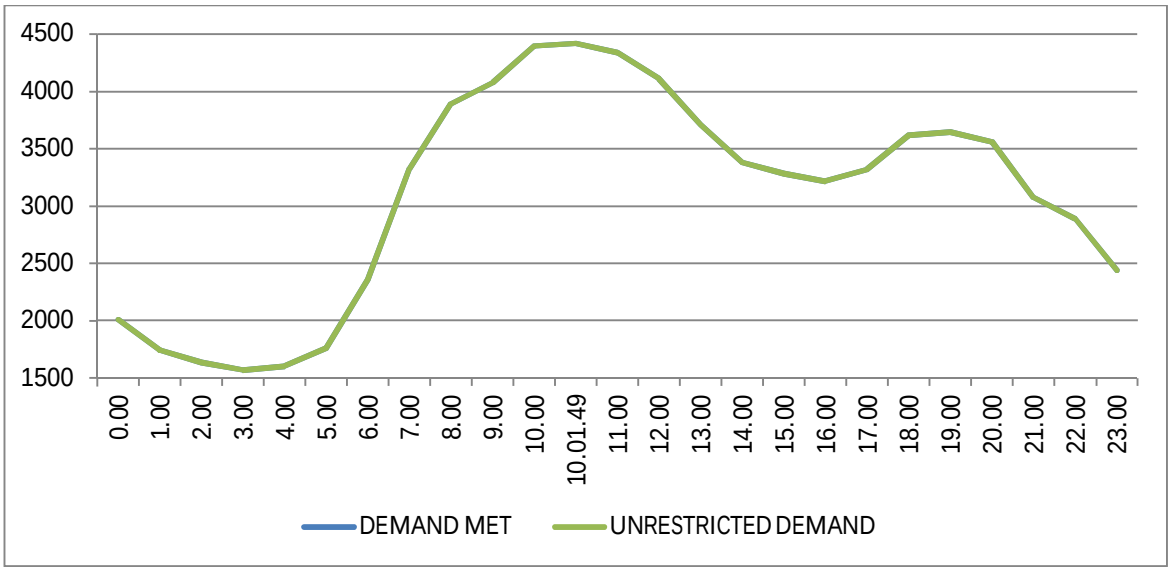
Hrs.	Demand	Load Shedding	Un-Restricted Demand
0.00	2005	0	2005
1.00	1745	0	1745
2.00	1633	0	1633
3.00	1572	0	1572
4.00	1603	0	1603
5.00	1761	0	1761
6.00	2360	0	2360
7.00	3326	0	3326
8.00	3892	0	3892
9.00	4075	0	4075
10.00	4397	0	4397
10.01.49	4417	0	4417
11.00	4335	0	4335
12.00	4113	0	4113
13.00	3710	0	3710
14.00	3377	0	3377
15.00	3284	0	3284
16.00	3218	0	3218
17.00	3317	0	3317
18.00	3621	0	3621
19.00	3646	0	3646
20.00	3561	0	3561
21.00	3073	0	3073
22.00	2889	0	2889
23.00	2441	0	2441
Total (IN MUS)	**73.674**	**0.002**	**73.676**



13 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING DEC 2018 – 28.12.2018 – 73.676 Mus

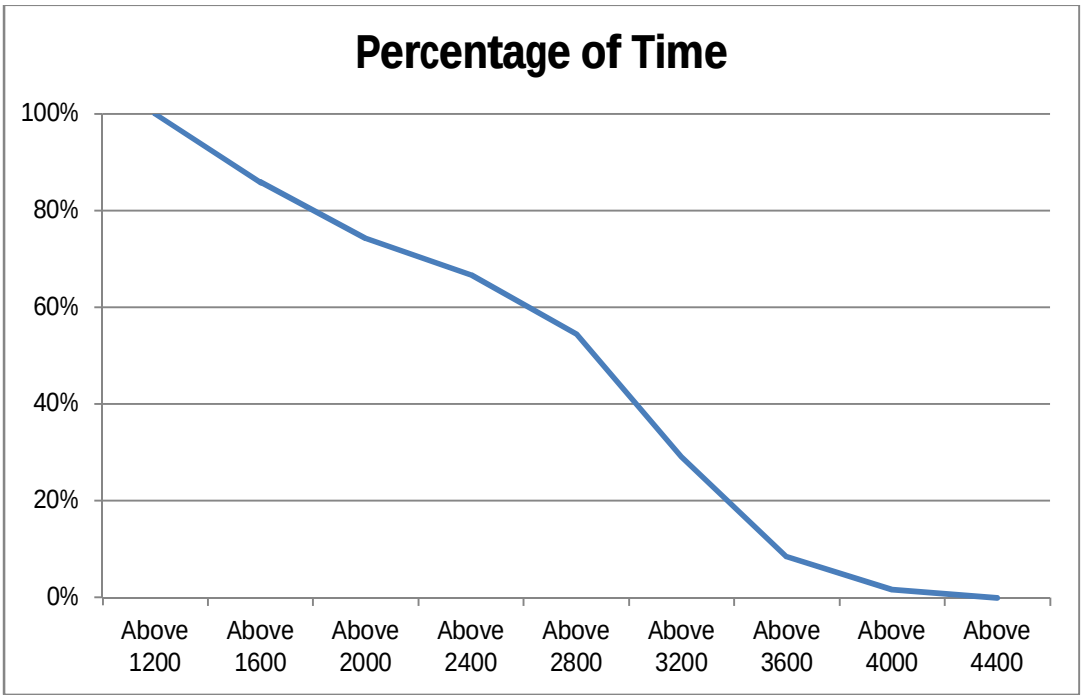
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
0.00	2005	0	2005
1.00	1745	0	1745
2.00	1633	0	1633
3.00	1572	0	1572
4.00	1603	0	1603
5.00	1761	0	1761
6.00	2360	0	2360
7.00	3326	0	3326
8.00	3892	0	3892
9.00	4075	0	4075
10.00	4397	0	4397
10.01.49	4417	0	4417
11.00	4335	0	4335
12.00	4113	0	4113
13.00	3710	0	3710
14.00	3377	0	3377
15.00	3284	0	3284
16.00	3218	0	3218
17.00	3317	0	3317
18.00	3621	0	3621
19.00	3646	0	3646
20.00	3561	0	3561
21.00	3073	0	3073
22.00	2889	0	2889
23.00	2441	0	2441
Total (IN MUS)	**73.674**	**0.002**	**73.676**



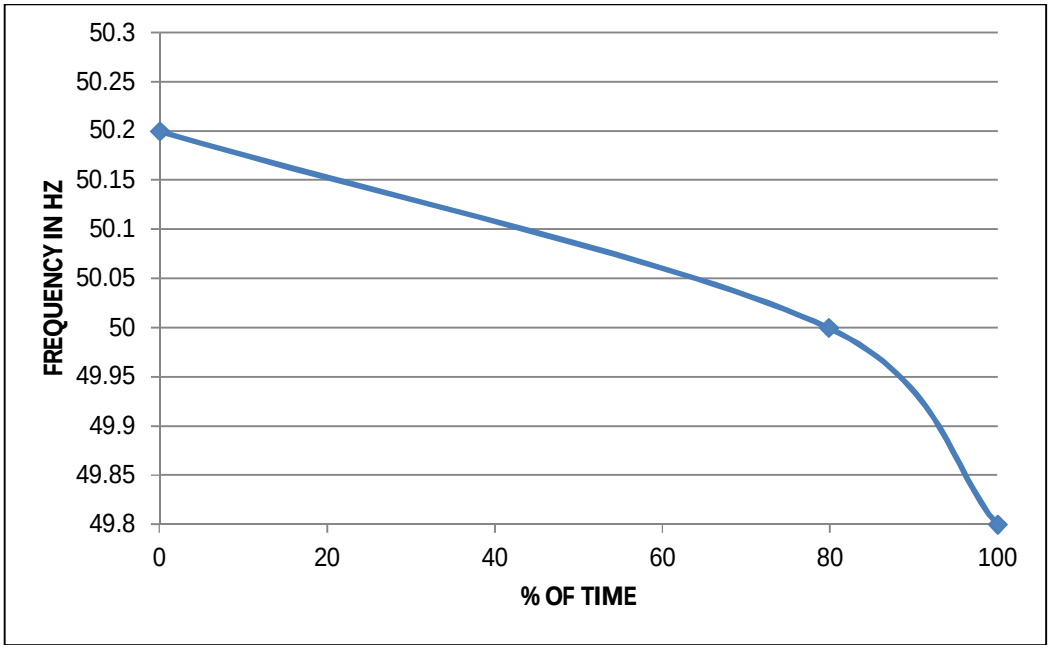
14 LOAD DURATION CURVE FOR DEC 2018

Load in MW	Percentage of Time
Above 1200	100.00%
Above 1600	85.92%
Above 2000	74.26%
Above 2400	66.67%
Above 2800	54.47%
Above 3200	29.10%
Above 3600	8.43%
Above 4000	1.58%
Above 4400	0.00%



15 FREQUENCY ANALYSIS FOR THE MONTH OF DEC 2018

Frequency Range in Hz.	Percentage of time
Above 49.8	100.00
Above 50.00	79.84
Above 50.20	0.03



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

All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
01.Dec.18	241.55	231.88	241.17	229.82
02.Dec.18	243.62	233.3	242.07	232.4
03.Dec.18	242.84	231.11	240.52	229.3
04.Dec.18	241.43	229.95	241.04	227.24
05.Dec.18	242.07	230.08	239.75	228.66
06.Dec.18	242.84	1.16	240.39	229.95
07.Dec.18	241.43	228.14	240.39	228.14
08.Dec.18	241.04	228.01	240.26	227.24
09.Dec.18	241.68	229.17	241.04	230.08
10.Dec.18	238.59	228.01	241.17	229.3
11.Dec.18	240.14	226.34	241.55	226.98
12.Dec.18	240.26	229.3	242.84	230.21
13.Dec.18	239.62	228.66	241.43	229.95
14.Dec.18	239.49	227.24	241.04	228.27
15.Dec.18	239.62	225.95	240.91	226.34
16.Dec.18	240.52	226.59	240.91	227.88
17.Dec.18	239.75	227.63	242.07	228.01
18.Dec.18	240.14	226.98	242.2	227.63
19.Dec.18	241.43	226.59	242.84	226.98
20.Dec.18	239.62	228.92	241.55	228.92
21.Dec.18	239.62	227.24	240.91	226.85
22.Dec.18	240.39	226.59	241.04	225.43
23.Dec.18	240.39	228.92	244.13	228.79
24.Dec.18	242.46	225.95	240.78	225.3
25.Dec.18	240.39	225.95	241.55	226.72
26.Dec.18	240.78	225.43	241.17	226.59
27.Dec.18	241.43	223.11	241.17	224.27
28.Dec.18	240.52	224.4	241.43	226.59
29.Dec.18	241.81	228.27	242.33	228.53
30.Dec.18	241.04	230.72	242.07	232.4
31.Dec.18	240.52	232.66	241.81	229.3

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

All figures in kV

Date	400kV Bamnauli Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01.Dec.18	419.03	4:00:45	401.44	10:37:36	411.27
02.Dec.18	421.37	20:09:01	403.32	10:18:29	412.73
03.Dec.18	418.09	4:01:22	401.91	11:36:04	410.63
04.Dec.18	419.73	4:01:15	395.81	9:37:56	411.25
05.Dec.18	418.32	4:00:38	399.8	10:19:09	410.81
06.Dec.18	420.43	4:00:11	402.61	10:22:32	411.02
07.Dec.18	419.73	4:00:14	399.33	11:23:05	410.7
08.Dec.18	419.03	4:00:07	398.39	9:45:08	409.64
09.Dec.18	420.43	3:22:00	403.08	11:38:01	412.72
10.Dec.18	419.26	4:02:04	400.27	10:53:44	409.84
11.Dec.18	419.73	3:13:27	396.28	9:49:27	409.08
12.Dec.18	423.01	4:00:50	400.5	10:23:41	412.28
13.Dec.18	419.73	0:44:52	400.5	9:36:04	411.03
14.Dec.18	420.43	1:01:06	399.1	11:27:47	411.17
15.Dec.18	420.2	1:52:39	396.28	10:48:00	409.59
16.Dec.18	419.73	4:00:24	398.16	11:20:33	410.82
17.Dec.18	420.43	3:01:35	399.8	11:15:15	413.24
18.Dec.18	421.37	3:00:57	397.92	9:31:08	411.34
19.Dec.18	423.72	4:01:10	395.11	9:19:11	410.74
20.Dec.18	422.55	21:00:15	399.33	7:34:04	411.06
21.Dec.18	419.5	4:00:24	399.1	11:17:47	409.8
22.Dec.18	420.9	4:00:39	395.81	9:55:30	410.03
23.Dec.18	419.73	4:01:02	400.5	10:36:43	411.92
24.Dec.18	420.67	2:02:55	394.88	10:24:56	409.79
25.Dec.18	423.25	4:01:48	394.41	9:33:48	411.86
26.Dec.18	422.08	4:00:10	396.75	10:27:21	410.39
27.Dec.18	422.78	3:14:44	392.3	11:25:45	409.17
28.Dec.18	421.84	4:01:10	398.16	9:23:27	410.52
29.Dec.18	423.25	3:01:10	400.5	9:35:33	412.25
30.Dec.18	422.08	1:56:22	402.85	10:21:43	413.81
31.Dec.18	422.08	1:12:55	401.91	10:26:06	412.92

All figures in kV

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01.Dec.18	426.3	4:03:16	412.46	10:38:31	419.62
02.Dec.18	426.77	3:59:44	411.29	10:18:39	419.7
03.Dec.18	424.89	4:01:33	0	12:25:19	206.23
04.Dec.18	0	0:15:50	0	0:15:50	0
05.Dec.18	423.72	19:57:42	0	0:17:12	108.72
06.Dec.18	428.41	4:00:23	411.99	17:52:30	418.95
07.Dec.18	425.12	3:59:56	407.3	11:21:32	416.88
08.Dec.18	424.19	1:05:43	405.66	11:12:20	415.78
09.Dec.18	425.36	3:22:03	410.35	11:36:09	418.74
10.Dec.18	424.89	4:00:33	409.18	10:50:23	416.95
11.Dec.18	424.42	3:13:29	407.3	11:35:46	416.83
12.Dec.18	426.53	4:00:48	411.52	9:49:03	419.38
13.Dec.18	426.06	0:45:54	411.99	11:24:03	419.23
14.Dec.18	427.47	4:00:16	409.65	11:23:31	419.22
15.Dec.18	427.23	1:52:52	408.48	10:51:29	418.72
16.Dec.18	427.23	4:01:42	408.71	11:22:57	419.35
17.Dec.18	426.77	3:00:49	409.18	10:18:25	418.2
18.Dec.18	427.7	3:00:24	408.48	10:21:13	418.11
19.Dec.18	427.94	4:00:46	406.13	9:16:21	416.88
20.Dec.18	426.77	20:59:48	409.65	10:50:50	417.24
21.Dec.18	424.19	3:59:43	407.77	11:17:49	416.28
22.Dec.18	426.3	4:00:23	406.83	9:55:17	417.1
23.Dec.18	426.53	20:42:13	410.12	10:24:05	419.2
24.Dec.18	427.23	2:01:37	406.6	10:21:03	417.43
25.Dec.18	427.94	4:01:27	407.54	10:22:52	419.35
26.Dec.18	427.94	4:00:45	406.6	12:22:31	417.73
27.Dec.18	428.41	3:24:42	401.44	11:35:29	416.25
28.Dec.18	426.3	2:02:30	405.66	10:28:37	416.22
29.Dec.18	427.47	2:59:39	409.18	10:20:22	418.52
30.Dec.18	427.94	1:57:56	412.7	10:20:13	421.19
31.Dec.18	427.94	1:12:54	410.35	10:33:11	419.89

20 DETAILS OF BREAK-DOWNS DURING THE MONTH OF DECEMBER 2018

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
1	3.12.18	05:00	220 KV PATPARGANJ - I.P. CKT-I	3.12.18	07:05	AT I.P. : DIST PROT ,ZONE-I, 186. AT PATPARGANJ : CKT. DID NOT TRIP.
2	4.12.18	11:00	OKHLA 33kV NEHRU PLACE CKT-I	4.12.18	13:00	Y PHASE CT FLASH.
3	5.12.18	08:30	220kV ROHINI-SHALIMARBAGH CKT-II	5.12.18	09:55	AT SHALIMARBAGH : TRIPPED WITHOUT INDICATION
4	6.12.18	11:11	SUBZI MANDI 220/33kV 100MVA Tx-II	6.12.18	11:55	186
5	6.12.18	11:55	SUBZI MANDI 33/11kV, 16MVA Tx-II	6.12.18	11:57	WITHOUT INDICATION.
6	7.12.18	23:59	ROHINI 220/66kV 100MVA Tx-IV	8.12.18	01:03	I/C TRIPPED ON INTERTRIPING.
7	7.12.18	23:59	ROHINI 220/66kV 100MVA Tx-III	8.12.18	01:03	86, O/C, E/F.
8	8.12.18	17:46	PREETVIHAR 220/33kV 100MVA Tx-II	9.12.18	14:06	86A & 86B.
9	9.12.18	19:35	220 KV I.P.- RPH CKT-II	9.12.18	23:10	AT RPH : WITHOUT INDICATION.
10	10.12.18	15:30	PREETVIHAR 220/33kV 100MVA Tx-II	10.12.18	17:26	86A&B, PRV.
11	12.12.18	22:28	220KV BAWANA-SHALIMARBAGH CKT-II	12.12.18	22:57	AT SHALIMARBAGH : DIST PROT, R PHASE. AT BAWANA : CKT. DID NOT TRIP.
12	12.12.18	22:28	220kV BAWANA - KANJHAWALA CKT-2	12.12.18	23:14	AT BAWANA : DIS PROT, ZONE-I, DIST 6.57KM, O/C. AT KHANJAWALA : DIS PROT, ZONE-II, DIST 14.70KM, RYB PHASE, 86.
13	13.12.18	02:55	220KV WAZIRABAD - MANDOLA CKT-II	13.12.18	09:53	AT WAZIRABAD : DIST PROT, ZONE-I, DIST 2.241KM. AT MANDOLA : DIST PORT , DIST 3.5KM.
14	13.12.18	05:42	220KV WAZIRABAD - MANDOLA CKT-III	13.12.18	16:35	AT WAZIRABAD :DIST PROT, ZONE-I, DIST 1.13KM. AT MANDOLA : NO INDICATION.
15	13.12.18	05:56	220KV WAZIRABAD - MANDOLA CKT-IV	13.12.18	11:23	AT WAZIRABAD : DIST PROT, ZONE-I, DIST 6.743KM. AT MANDOLA : NO INDICATION.
16	14.12.18	04:28	220kV BAMNAULI - DIAL CKT-II	14.12.18	10:12	AT BAMNAULI : DIST PROT, DIST 4.82KM, ZONE-I. AT DIAL : B PHASE FAULTY.
17	16.12.18	04:35	SHALIMAR BAGH 220/33kV 100MVA Tx-III	16.12.18	15:58	BUCHOLZ.
18	17.12.18	18:43	PARKSTREET 220/66kV 100MVA Tx-I	17.12.18	20:52	86A, DIFFERENTIAL.
19	17.12.18	21:09	PARKSTREET 220/66kV 100MVA Tx-I	17.12.18	23:05	86A, DIFFERENTIAL.
20	18.12.18	07:03	BAMNAULI 400/220kV 315MVA ICT-I	18.12.18	11:35	30E
21	20.12.18	13:48	220kV WAZIRABAD - KASHMEREGATE CKT-I	20.12.18	17:18	AT KASHMIRI GATE : 86A&B
22	21.12.18	05:52	SUBZI MANDI 33/11kV, 16MVA Tx-II	21.12.18	09:40	BUCHOLZ, 86.
23	23.12.18	14:28	NAJAFGARH 66/11kV, 20MVA Tx-I	23.12.18	14:33	86
24	25.12.18	03:35	220kV ROHINI-SHALIMARBAGH CKT-II	25.12.18	03:53	AT SHALIMARBAGH : DIFFERENTIAL, 80C.
25	25.12.18	03:35	220KV BAWANA-SHALIMARBAGH CKT-II	25.12.18	03:53	AT SHALIMARBAGH : DIFFERENTIAL, B PHASE.
26	26.12.18	15:40	PATPARGANJ 220/33kV 100MVA Tx-I	27.12.18	11:25	BUCHOLZ, 86.HIGH ACTELYNE GAS FORMATION.
27	26.12.18	15:40	PATPARGANJ 220/33kV 100MVA Tx-IV	26.12.18	16:45	DIFFERENTIAL, I/C TRIPPED ON 86
28	26.12.18	15:40	PATPARGANJ 220/33kV 100MVA Tx-III	26.12.18	16:12	I/C TRIPPED ON DIFFERENTIAL, O/C.
29	28.12.18	11:30	SARITA VIHAR 66/11kV, 20MVA Tx-II	28.12.18	12:28	PRV, 86.
30	29.12.18	11:53	SUBZI MANDI 220/33kV 100MVA Tx-II	29.12.18	12:12	86
31	30.12.18	07:37	220kV PRAGATI - SARITA VIHAR CKT - I	30.12.18	11:41	AT PRAGATI : DIST PROT, ZONE-II, DIST 12.09KM, O/C, E/F AT SARITA VIHAR : DIST PROT, ZONE-I, DIST 2.178KM.

20 DETAILS OF UNDER FREQUENCY RELAY OPERATIONS IN DELHI POWER SYSTEM DURING THE MONTH OF DECEMBER 2018

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