DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

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JAN - 2019

1 SALIENT FEATURES OF DELHI POWER SYSTEM

Sr. No.	Features	JAN 2018	JAN 2019
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)**	**4464**	**4472**
	Date	05.01.2018	01.01.2019
	Time	09.56.11	10.33.04
3	**Peak Demand met (MW)**	**4464**	**4472**
	Date	05.01.2018	01.01.2019
	Time	09.56.11	10.33.04
4	Peak Availability (MW)	4153	4357
5	Shortage (-) / Surplus (+) in MW	(-) 311	(-) 115
6	Percentage Shortage (-) / Surplus (+)	(-) 6.97	(-) 2.57
7	Maximum Energy Consume in a day (Mus)	72.199	73.526
8	Energy Consumed during the month	**2062.443**	**2141.848**
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	0.036	0.648
	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	**0.036**	**0.648**
B)	Due to Constraints in System in Mus		
	DTL	0.528	0.142
	NDPL	0.048	0.082
	BRPL	0.337	0.189
	BYPL	0.040	0.032
	NDMC	0.000	0.000
	MES	0.000	0.000
	Other Agencies	0.011	0.000
	Total	**0.964**	**0.445**
11	**Grand Total in Mus**	**1.000**	**1.093**

2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING JAN 2019

A) For the month of Jan 2019

All Figures in MUs

S. No	Stations	Gross Generation	Aux. Consumption	Net Generation	Availability (%)	Backing Down
1.	**RPH**	0.000	.0.134	-0.134	0.00	0.000
2.	**GT**	42.542	1.749	40.793	90.64	136.109
3.	**PPCL**	127.252	2.660	124.592	100.94	115.604
4.	**BTPS**	0.000	0.600	-0.600	0	0
5.	**Rithala**	0.000	0.000	0.000	**0**	0
6.	**Bawana**	341.345	10.985	330.360	91.39	575.249
7.	**Towmcl**	13.739	1.924	11.815	--	--
8.	**EDWPCL**	2.895	0.853	2.042	--	--
9.	**DMSWL**	9.919	1.923	7.996	--	--
	TOTAL	**537.692**	**20.828**	**516.864**	**--**	**826.962**

B) For the Year 2018-19 (Upto Jan 2019)

Power Station	Effective Capacity (MW)	Net Generation in MUs for Jan 2019	Availability (%) for Jan 2019	PLF (%) for Jan 2019	Cumulative Generation in MUs upto Jan 2019 for the year 2018-19	Cumulative Availability in % upto Jan 2019 for the year 2018-19	Cumulative PLF in % upto Jan 2019for the year 2018-19
RPH	135	-0.134	0	0	-2.010	0	0
GT	270	40.793	90.64	20.83	510.273	80.57	26.58
PPCL	330	124.592	100.94	35.55	1396.449	91.67	57.55
BTPS	705	-0.600	0	0	1239.935	39.01	27.69
Rithala	108	0.000	**0**	0	-0.370	**0**	0
Bawana	1372	330.360	91.39	39.68	3193.976	76.95	33.23
Towmcl	16	11.815	--	--	118.756	--	--
EDWPCL	--	2.042	--	--	23.696	--	--
DMSWL	--	7.996	--	--	92.667	--	--
TOTAL	2936	**516.864**	**--**	**--**	**6573.372**	**00**	**145.05**

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	31.01.18	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	
		25.7.18	17:40	31.12.18	23:59	
		22.01.19	07.55	22.01.19	11.35	Class A relay operation

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.
		18.01.19	12.46	18.01.19	19.58	High vibration in bearing.
		21.01.19	11.20	22.01.19	23.59	Vaccume low

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.
		25.01.19	18.35	25.01.19	21.08	Generator reserve Power relay inserted in system.

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.
		22.01.19	07.55	22.01.19	11.35	Tripped on class A relay
		23.01.19	10.55	23.01.19	12.00	
		24.01.19	13.07	24.01.19	13.52	Tripped with 160MVA tr.

(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
		04.01.19	12.51	04.01.19	21.30	
		04.01.19	21.30	05.01.19	10.50	Stopped due to low demand.
		24.01.19	13.06	24.01.19	13.53	Tripped due to grid disturbance

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	04.01.19	10.03	
		05.01.19	12.33	12.01.19	12.45	
		12.01.19	12.45	12.01.19	14.00	Repair work
		12.01.19	14.00	21.01.19	05.20	Stopped due to low demand.
		21.01.19	06.18	21.01.19	07.53	Tripped on internal fault.
		21.01.19	08.40	23.01.19	02.00	
		23.01.19	02.00	23.01.19	09.40	Stopped due to low demand.
		23.01.19	23.13	25.01.19	12.00	
		26.01.19	09.52	31.01.19	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
		03.01.19	19.50	03.01.19	21.48	Tripped on high spread.
		21.01.19	04.21	21.01.19	16.16	Tripped on high DP

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	
		22.01.19	02.33	22.01.19	06.00	
		27.01.19	07.27	27.01.19	10.44	
		30.01.19	07.55	30.01.19	09.33	
		31.01.19	07.38	31.01.19	10.33	

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	
		03.01.19	19.50	03.01.19	23.48	Machine tripped on high spread
		08.01.19	23.15	09.01.19	06.05	Electrical protection.
		21.01.19	04.21	21.01.19	16.16	Machine unloaded on high DP
		22.01.19	02.33	22.01.19	06.00	
		27.01.19	07.27	27.01.19	10.44	
		30.01.19	07.55	30.01.19	09.33	
		31.01.19	07.38	31.01.19	10.33	

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.
		04.01.19	00.12	04.01.19	14.57	Blow out occurred
		18.01.19	07.30	18.01.19	14.23	HIGH DP

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
		05.01.19	06.18	05.01.19	11.30	High DP
		11.01.19	00.54	11.01.19	10.26	
		18.01.19	08.30	18.01.19	12.15	Taken out of DC
		21.01.19	13.30	21.01.19	14.10	AVR Fault
		23.01.19	08.35	24.01.19	23.59	High DP

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
		04.01.19	00.12	04.01.19	14.57	Blow out occurred
		05.01.19	06.18	05.01.19	11.30	High dp
		11.01.19	00.54	11.01.19	10.26	
		18.01.19	07.30	18.01.19	14.23	
		18.01.19	08.30	18.01.19	12.15	Taken out of DC
		21.01.19	13.30	21.01.19	14.10	AVR Fault
		23.01.19	08.35	24.01.19	23.59	High DP

(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	31.01.19	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	31.01.19	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	31.01.19	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 JAN 2019

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	10.33.04	0	42	162	636	16	10	15	0	881	3591	3476	115	4472	0	4472
2	10.06.22	0	99	162	487	16	6	15	0	785	3443	3439	4	4228	0	4228
3	10.29.57	0	42	161	478	16	6	15	0	718	3613	3555	58	4331	0	4331
4	10.13.52	0	79	163	434	16	5	15	0	712	3749	3711	38	4461	0	4461
5	09.57.21	0	114	156	293	16	5	18	0	602	3568	3476	92	4170	0	4170
6	11.06.26	0	37	161	452	16	5	15	0	686	3270	3198	72	3956	0	3956
7	10.38.36	0	36	164	451	16	5	15	0	687	3614	3456	158	4301	0	4301
8	10.00.48	0	36	160	475	19	3	16	0	709	3523	3515	8	4232	0	4232
9	10.02.49	0	37	161	480	16	-1	17	0	710	3622	3437	185	4332	0	4332
10	10.29.31	0	37	158	677	18	4	8	0	902	3348	3216	132	4250	0	4250
11	10.44.07	0	107	161	580	16	6	4	0	874	3542	3410	132	4416	0	4416
12	10.06.20	0	41	162	462	16	9	6	0	696	3586	3405	181	4282	0	4282
13	10.40.37	0	41	161	518	15	1	5	0	741	3314	3303	11	4055	0	4055
14	09.52.36	0	41	159	491	16	1	14	0	722	3539	3574	-35	4261	0	4261
15	09.58.11	0	41	157	450	15	-2	14	0	675	3605	3489	116	4280	0	4280
16	10.06.29	0	30	160	456	10	6	8	0	670	3634	3542	92	4304	0	4304
17	09.35.34	0	28	159	450	16	-1	15	0	667	3487	3495	-8	4154	0	4154
18	10.29.01	0	96	164	313	10	-1	13	0	595	3773	3574	199	4368	69	4437
19	10.03.37	0	39	160	615	17	0	14	0	845	3243	3228	15	4088	0	4088
20	11.00.27	0	39	157	556	15	4	14	0	785	3315	3273	42	4100	0	4100
21	10.24.04	0	123	158	274	16	2	11	0	584	3435	3334	101	4019	0	4019
22	10.58.08	0	62	158	429	16	4	11	0	680	3203	3059	144	3883	0	3883
23	10.10.26	0	121	193	281	15	-1	9	0	618	3584	3587	-3	4202	0	4202
24	09.47.24	0	56	161	437	12	-1	-1	0	664	3430	3356	74	4094	0	4094
25	09.49.50	0	85	156	391	13	-1	6	0	650	3636	3559	77	4286	0	4286
26	10.14.46	0	28	159	443	1	-1	8	0	638	2944	2819	125	3582	0	3582
27	10.49.29	0	30	164	279	12	-1	9	0	493	3560	3591	-31	4053	0	4053
28	10.17.20	0	28	159	426	17	-1	6	0	635	3575	3544	31	4210	0	4210
29	09.50.46	0	82	160	457	19	4	8	0	730	3536	3534	2	4266	0	4266
30	10.25.45	0	41	160	353	18	4	11	0	587	3786	3702	84	4373	0	4373
31	10.19.30	0	41	160	307	16	4	8	0	536	3687	3590	97	4223	0	4223

7 POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF MAXIMUM UNRESTRICTED DEMAND DURING JAN 2019

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	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	10.33.04	0	42	162	636	16	10	15	0	881	3591	3476	115	4472	0	4472
2	10.06.22	0	99	162	487	16	6	15	0	785	3443	3439	4	4228	0	4228
3	10.29.57	0	42	161	478	16	6	15	0	718	3613	3555	58	4331	0	4331
4	10.13.52	0	79	163	434	16	5	15	0	712	3749	3711	38	4461	0	4461
5	09.57.21	0	114	156	293	16	5	18	0	602	3568	3476	92	4170	0	4170
6	11.06.26	0	37	161	452	16	5	15	0	686	3270	3198	72	3956	0	3956
7	10.38.36	0	36	164	451	16	5	15	0	687	3614	3456	158	4301	0	4301
8	10.00.48	0	36	160	475	19	3	16	0	709	3523	3515	8	4232	0	4232
9	10.02.49	0	37	161	480	16	-1	17	0	710	3622	3437	185	4332	0	4332
10	10.29.31	0	37	158	677	18	4	8	0	902	3348	3216	132	4250	0	4250
11	10.44.07	0	107	161	580	16	6	4	0	874	3542	3410	132	4416	0	4416
12	10.06.20	0	41	162	462	16	9	6	0	696	3586	3405	181	4282	0	4282
13	10.40.37	0	41	161	518	15	1	5	0	741	3314	3303	11	4055	0	4055
14	09.52.36	0	41	159	491	16	1	14	0	722	3539	3574	-35	4261	0	4261
15	09.58.11	0	41	157	450	15	-2	14	0	675	3605	3489	116	4280	0	4280
16	10.06.29	0	30	160	456	10	6	8	0	670	3634	3542	92	4304	0	4304
17	09.35.34	0	28	159	450	16	-1	15	0	667	3487	3495	-8	4154	0	4154
18	10.29.01	0	96	164	313	10	-1	13	0	595	3773	3574	199	4368	69	4437
19	10.03.37	0	39	160	615	17	0	14	0	845	3243	3228	15	4088	0	4088
20	11.00.27	0	39	157	556	15	4	14	0	785	3315	3273	42	4100	0	4100
21	10.24.04	0	123	158	274	16	2	11	0	584	3435	3334	101	4019	0	4019
22	10.58.08	0	62	158	429	16	4	11	0	680	3203	3059	144	3883	0	3883
23	10.10.26	0	121	193	281	15	-1	9	0	618	3584	3587	-3	4202	0	4202
24	09.47.24	0	56	161	437	12	-1	-1	0	664	3430	3356	74	4094	0	4094
25	09.49.50	0	85	156	391	13	-1	6	0	650	3636	3559	77	4286	0	4286
26	10.14.46	0	28	159	443	1	-1	8	0	638	2944	2819	125	3582	0	3582
27	10.49.29	0	30	164	279	12	-1	9	0	493	3560	3591	-31	4053	0	4053
28	10.17.20	0	28	159	426	17	-1	6	0	635	3575	3544	31	4210	0	4210
29	09.50.46	0	82	160	457	19	4	8	0	730	3536	3534	2	4266	0	4266
30	10.25.45	0	41	160	353	18	4	11	0	587	3786	3702	84	4373	0	4373
31	10.19.30	0	41	160	307	16	4	8	0	536	3687	3590	97	4223	0	4223

8 SOURCEWISE SCHEDULED DRAWL FROM NORTHERN GRID AS WELL AS AVAILABILITY WITHIN DELHI FOR JAN 2019

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

A (i) RPH	0.000
(ii) GT+STG	42.542
(iii) PRAGATI	127.252
(iv) RITHALA	0.000
(v) BAWANA CCGT	341.345
(vi) Timarpur – Okhla	13.739
EDWPCL	2.895
DMSWL	9.919
TOTAL	537.692
B) AVAILABILITY FROM BTPS	-0.600
C) AUXILIARY CONSUMPTION OF GENERATING STNs. EXCLUDING BTPS	20228
D) NET GENERATION AVAILABLE WITHIN DELHI(A+B-C)	**516.864**

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	12.362	12.022	12.362	12.022
SASAN	295.649	285.912	294.982	285.267
TANKAPUR	1.963	1.895	1.958	1.891
CHAMERA	5.087	4.936	5.087	4.936
CHAMERA -II	5.575	5.408	5.575	5.408
CHAMERA -III	2.485	2.411	2.485	2.411
DHAULIGANGA	3.858	3.743	3.858	3.743
SEWA -2	2.707	2.633	2.707	2.633
URI	14.451	14.056	14.451	14.056
URI-II	10.234	9.954	10.234	9.954
KOLDAM	0.000	0.000	0.000	0.000
KOTESHWAR	10.045	9.671	10.045	9.671
PARBATI3	0.000	0.000	0.000	0.000
RAMPUR	0.000	0.000	0.000	0.000
MUNDRA_UMPP	0.000	0.000	0.000	0.000
ANTA (GAS)	13.426	12.780	7.374	7.018
ANTA (RLNG)	19.294	18.399	0.092	0.087
ANTA (LIQUID)	0.000	0.000	0.000	0.000
DADRI (GAS)	4.573	4.464	3.541	3.456
DADRI (RLNG)	61.198	59.506	0.305	0.298
DADRI (LIQUID)	0.000	0.000	0.000	0.000
AURAIYA (GAS)	0.000	0.000	0.000	0.000
AURAIYA (RLNG)	52.256	50.438	0.000	0.000
AURAIYA (LIQUID)	0.000	0.000	0.000	0.000
SINGRAULI	94.068	89.844	89.774	85.741
SINGRAULI_HYDRO	0.218	0.208	0.218	0.208
RIHAND -I	68.053	65.181	61.188	58.610
RIHAND -II	77.229	73.931	71.034	67.997
RIHAND -III	92.498	88.597	80.063	76.694
UNCHAHAR-I	16.237	15.712	13.101	12.679
UNCHAHAR-II	31.214	30.203	25.129	24.317
UNCHAHAR-III	19.632	18.997	15.867	15.355
UNCHAHAR-IV	0.000	0.000	0.000	0.000
DADRI (TH)	374.964	364.694	254.591	247.676
DADRI (TH) STAGE-II	500.545	486.875	393.052	382.334
NAPP	16.125	15.564	16.125	15.564

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
RAPP 'B'	0.000	0.000	0.000	0.000
RAPP 'C'	40.473	38.567	40.473	38.567
NATHPA JHAKRI	19.219	18.551	19.219	18.551
DULASTI	9.853	9.578	9.853	9.578
TEHRI	17.805	17.142	17.805	17.142
JHAJJAR	417.435	405.862	313.722	305.049
KHELGAON	33.296	32.518	25.323	24.732
KHELGAON-II	109.174	106.625	91.173	89.048
FARAKA	14.764	14.453	10.536	10.316
TALA	0.695	0.679	0.695	0.679
TALCHER	0.000	0.000	0.000	0.000
DVC	207.469	205.969	205.969	203.094
TUTICORIN - BRPL	13.987	13.823	13.823	13.635
ADHPL (KULLU)	0.000	0.000	0.000	0.000
MEGHALAYA	5.000	4.973	4.973	4.904
MAHARASHTRA	0.000	0.000	0.000	0.000
KARNATAKA	0.000	0.000	0.000	0.000
MADHYA PRADESH	0.045	0.045	0.045	0.044
METHON POWER(NDPL)LT-06	148.903	147.834	147.834	145.784
DVC MEJIA (LT-08)(BYPL)	66.463	65.985	65.985	65.074
URS	1.012	0.997	1.012	0.997
JAMMU & KASHMIR	0.470	0.463	0.463	0.456
HIMACHAL PRADESH	11.115	10.860	10.860	10.710
DB POWER	0.061	0.060	0.060	0.059
ANDHRA	17.654	17.447	17.447	17.207
NAGALAND	0.000	0.000	0.000	0.000
HIMACHAL PRADESH LT-59 DVC	0.591	0.577	0.577	0.570
HARYANA (LT-05)	59.219	58.334	58.334	57.538
SIKKIM	0.000	0.000	0.000	0.000
WEST BENGAL	0.000	0.000	0.000	0.000
ORISSA MT-20 JITPL -DVC	5.313	5.248	5.248	5.175
TAMILNAIDU	0.000	0.000	0.000	0.000
MANIPUR	2.172	2.153	2.153	2.125
RAJASTHAN(SOLAR) BRPL-LT36	3.001	2.899	2.899	2.859
RAJASTHAN(SOLAR) BYPL - LT-35	3.068	2.964	2.964	2.924
RAJASTHAN(SOLAR) TPDDL LT-31	3.053	2.950	2.950	2.910
TO JHARKHAND	-0.108	-0.110	-0.110	-0.111
TO GOA	-2.173	-2.200	-2.200	-2.232
TO ANDHRA	-73.527	-74.399	-74.399	-75.440
TO MADHYA PRADESH	-92.650	-94.032	-94.032	-95.347
TO WEST BENGAL	-0.148	-0.150	-0.150	-0.152
TO BIHAR	-0.593	-0.600	-0.600	-0.609
TO J&K	-73.287	-74.399	-74.399	-75.440
TO ODISHA	-0.188	-0.190	-0.190	-0.193
TO UTTAR PRADESH	-0.129	-0.132	-0.132	-0.134
TO MAHARASHTRA	-6.095	-6.200	-6.200	-6.287
TO MEGHALAYA	-22.161	-22.470	-22.470	-22.785
BTPS TO MP	0.000	0.000	0.000	0.000
TO HIMACHAL PRADESH	-216.813	-223.820	-223.820	-226.959
TO GUJRAT	-17.193	-17.444	-17.444	-17.686
TO MANIPUR	-19.741	-20.001	-20.001	-20.282
TO TRIPURA	-0.040	-0.040	-0.040	-0.040
POWER EXCHANGE(IEX)	61.546	60.731	61.546	60.731
TO POWER EXCHANGE (IEX)	-194.465	-197.207	-194.465	-197.207
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)	-25.463	-25.820	-25.463	-25.820
TO SHARE PROJECT (PUNJAB)	-25.591	-25.951	-25.591	-25.951
TOTAL	**2308.438**	**2211.156**	**1747.430**	**1667.811**

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	1425.405	1379.829	1015.329	982.470
NTPC - ER	157.234	153.597	127.031	124.096
NHPC	68.576	66.637	68.571	66.632
NPC	56.598	54.131	56.598	54.131
SASAN	295.649	285.912	294.982	285.267
KOTESHWAR	10.045	9.671	10.045	9.671
MUNDRA_UMPP	0.000	0.000	0.000	0.000
NATHPA JHAKRI	19.219	18.551	19.219	18.551
TEHRI	17.805	17.142	17.805	17.142
TALA	0.695	0.679	0.695	0.679
JHAJJAR	417.435	405.862	313.722	305.049
TALCHER	0.000	0.000	0.000	0.000
RAJASTHAN SOLAR(BRPL)T-36	3.001	2.899	2.899	2.859
RAJASTHAN SOLAR(BYPL)T-35	3.068	2.964	2.964	2.924
RAJASTHAN SOLAR(TPDDL)T-31	3.053	2.950	2.950	2.910
DVC	207.469	205.969	205.969	203.094
TUTICORIN BRPL	13.987	13.823	13.823	13.635
ADHPL (KULLU)	0.000	0.000	0.000	0.000
MEGHALAYA	5.000	4.973	4.973	4.904
MAHARASHTRA	0.000	0.000	0.000	0.000
KARNATAKA	0.000	0.000	0.000	0.000
MADHYA PRADESH	0.045	0.045	0.045	0.044
METHON POWER (NDPL)-LT-06	148.903	147.834	147.834	145.784
DVC MEJIA (LT-08)(BYPL)	66.463	65.985	65.985	65.074
URS	1.012	0.997	1.012	0.997
JAMMU & KASHMIR	0.470	0.463	0.463	0.456
HIMACHAL PRADESH	11.115	10.860	10.860	10.710
DB POWER	0.061	0.060	0.060	0.059
ANDHRA	17.654	17.447	17.447	17.207
NAGALAND	0.000	0.000	0.000	0.000
HIMACHAL PRADESH LT-59 DVC	0.591	0.577	0.577	0.570
HARYANA (LT -05)	59.219	58.334	58.334	57.538
SIKKIM	0.000	0.000	0.000	0.000
WEST BENGAL	0.000	0.000	0.000	0.000
ORISSA MT-20 JITPL -DVC	5.313	5.248	5.248	5.175
TAMILNAIDU	0.000	0.000	0.000	0.000
MANIPUR	2.172	2.153	2.153	2.125
POWER EXCHANGE(IEX)	61.546	60.731	61.546	60.731
POWER EXCHANGE(PX)	0.000	0.000	0.000	0.000
TOTAL	**3078.804**	**2996.324**	**2529.139**	**2460.485**

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	-0.108	-0.110	-0.110	-0.111
TO JHARKHAND	-2.173	-2.200	-2.200	-2.232
TO ANDHRA	-73.527	-74.399	-74.399	-75.440
TO MADHYA PRADESH	-92.650	-94.032	-94.032	-95.347
TO WEST BENGAL	-0.148	-0.150	-0.150	-0.152
TO J&K	-73.287	-74.399	-74.399	-75.440
TO BIHAR	-0.593	-0.600	-0.600	-0.609
TO ODISHA	-0.188	-0.190	-0.190	-0.193
TO UTTAR PRADESH	-0.129	-0.132	-0.132	-0.134
TO MAHARASHTRA	-6.095	-6.200	-6.200	-6.287
TO MEGHALAYA	-22.161	-22.470	-22.470	-22.785
BTPS TO MP	0.000	0.000	0.000	0.000
TO HIMACHAL PRADESH	-216.813	-223.820	-223.820	-226.959
TO GUJRAT	-17.193	-17.444	-17.444	-17.686
TO MANIPUR	-19.741	-20.001	-20.001	-20.282
TO TRIPURA	-0.040	-0.040	-0.040	-0.040
TO POWER EXCHANGE (IEX)	-194.465	-197.207	-194.465	-197.207
TO POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
TO SHARE PROJECT (HARYANA)	-25.463	-25.820	-25.463	-25.820
TO SHARE PROJECT (PUNJAB)	-25.591	-25.951	-25.591	-25.951
TOTAL	**-770.365**	**-785.167**	**-781.709**	**-792.674**
TOTAL SCHEDULED DRAWAL FROM THE GRID	**2308.438**	**2211.156**	**1747.430**	**1667.811**

TOTAL CONSUMPTION INCLUDING AUX. OF GENERATING STNs. EXCLUDING BTPS		2161.284
NET CONSUMPTION		**2141.848**
AVAILABILITY WITHIN DELHI		516.864
ACTUAL DRAWAL FROM THE GRID		1624.192
OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID ON THE BASIS OF SCHEDULED ALLOCATION MADE BY NRLDC TO DELHI AT PERIPHERY		-43.619
LOAD SHEDDING		1.093
UNRESTRICTED DEMAND (GROSS)		2162.378
UNRESTRICTED DEMAND (NET)		2142.150
MAX. NET CONSUMPTION		73.526 ON 18.01.2019
MAX. LOAD SHEDDING		158MW ON 24.01.2019 AT 13.11RS.
PEAK LOAD	Peak Demand during the month	SHEDDING AT PEAK TIME
DAY PEAK	4472MW AT 10.33.04 HRS ON 01.01.2019	0 MW
EVENING PEAK	3679MW AT 18.30.00HRS ON 18.01..2019	0 MW
P.L.F. OF GENCO AND PRAGATI STNs.	RPH	0.00%
	GT	21.18%
	PRAGATI	51.83%
	RITHALA	0.00%
	BAWANA	33.46%
	Timarpur Okhla	115.41%
	EDWPCL	32.43%
	DMSWL	55.55%

9 SHEDDING DETAILS DURING THE MONTH OF JAN 2019.

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.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
02.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.000	0.000
03.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
04.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.037	0.000	0.000
05.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
06.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
07.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
09.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000
11.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.000	0.000
12.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.000	0.000
17.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.281	0.000	0.000
19.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.068	0.000	0.000
20.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.124	0.000	0.000
22.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.Jan.19	0	0.000	0.000	0.0001	0.000	0.000	0.000	0.000	0.079	0.000	0.000
26.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000
28.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.000	0.000
29.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000
30.Jan.19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31.Jan.19	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**	**0.648**	**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.Jan.19	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.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	**0.006**
03.Jan.19	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.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.037	**0.037**
05.Jan.19	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.Jan.19	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.Jan.19	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.Jan.19	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.Jan.19	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.Jan.19	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**
11.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	**0.012**
12.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**
13.Jan.19	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.Jan.19	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.Jan.19	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.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	**0.004**
17.Jan.19	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.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.281	**0.281**
19.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.068	**0.068**
20.Jan.19	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.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.124	**0.124**
22.Jan.19	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.Jan.19	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.Jan.19	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.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.079	**0.079**
26.Jan.19	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.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007	**0.007**
28.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	**0.012**
29.Jan.19	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**
30.Jan.19	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.Jan.19	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**	**0.648**	**0.648**

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.Jan.19	0.000	0.006	0.000	0.000	0.000	0.000	0.001	0.005	0.000
02.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.000
03.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.012	0.000
04.Jan.19	0.001	0.000	0.013	0.000	0.000	0.001	0.000	0.000	0.000
05.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
06.Jan.19	0.004	0.000	0.000	0.000	0.000	0.000	0.001	0.009	0.000
07.Jan.19	**0.0000**	0.005	0.000	0.000	0.000	0.000	0.009	0.000	0.000
08.Jan.19	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.002	0.000
09.Jan.19	0.000	0.000	0.000	0.000	0.000	0.007	0.032	0.001	0.000
10.Jan.19	**0.0000**	0.007	0.002	0.000	0.000	0.000	0.009	0.007	0.000
11.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.000	0.000
12.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
13.Jan.19	0.015	0.000	0.000	0.000	0.000	0.000	0.016	0.000	0.000
14.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000
15.Jan.19	0.001	0.015	0.000	0.000	0.000	0.000	0.004	0.000	0.000
16.Jan.19	0.000	0.000	0.000	0.000	0.000	0.004	0.008	**0.0000**	0.000
17.Jan.19	0.000	0.000	0.000	0.000	0.000	0.002	0.001	**0.0000**	0.000
18.Jan.19	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000
19.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.Jan.19	**0.0000**	0.018	0.000	0.000	0.000	0.000	0.008	0.000	0.000
21.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	**0.0000**	0.001	0.000
22.Jan.19	0.000	0.005	0.000	0.000	0.000	0.000	0.017	0.013	0.000
23.Jan.19	0.000	0.000	0.000	0.000	0.000	0.010	0.006	0.000	0.000
24.Jan.19	0.007	0.010	0.003	0.000	0.000	0.006	0.009	0.000	0.000
25.Jan.19	0.000	0.006	0.000	0.000	0.000	0.000	0.010	0.003	0.000
26.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
27.Jan.19	0.000	0.012	0.002	0.000	0.000	0.000	0.013	0.000	0.000
28.Jan.19	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.027	0.000
29.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000
31.Jan.19	0.001	0.005	0.003	0.000	0.000	0.000	0.008	0.000	0.000
	0.030	**0.089**	**0.023**	**0.000**	**0.000**	**0.032**	**0.189**	**0.082**	**0.000**

ALL FIGURES IN MUs

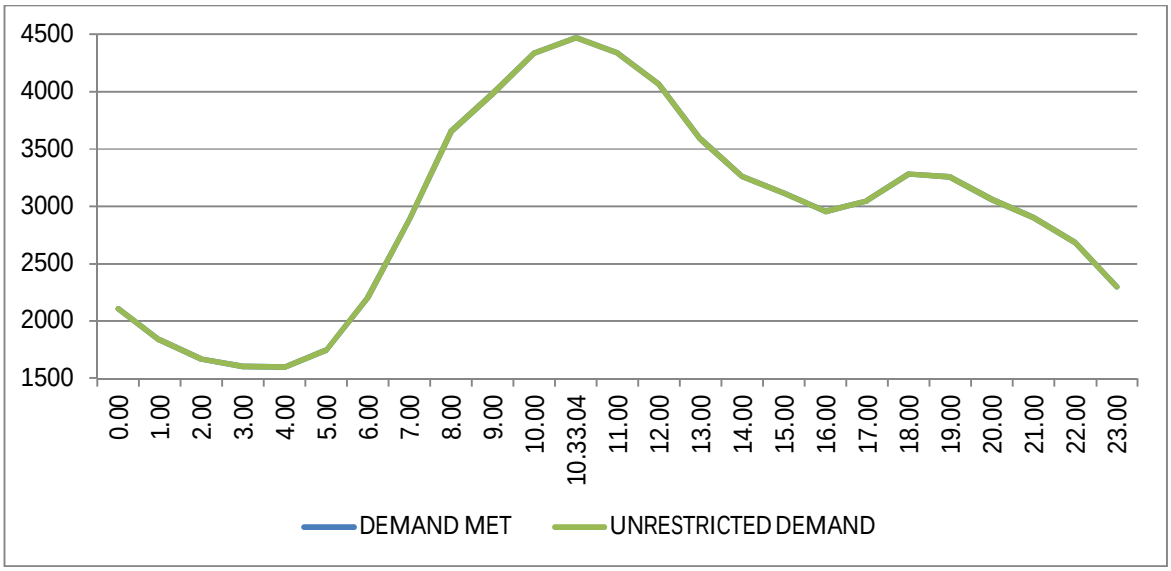
DATE	OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.				THEFT PRONE SHEDDING			TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE	GRAND TOTAL
	BSES		NDPL	NDMC	BSES		NDPL		
	BYPL	BRPL			BYPL	BRPL			
1	35	36	37	38	39	40	41	42= 26 to 41	43 = 25 + 42
01.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.012**	**0.012**
02.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.003**	**0.009**
03.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.029**	**0.029**
04.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.015**	**0.052**
05.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.001**	**0.001**
06.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.014**	**0.014**
07.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.014**	**0.014**
08.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.003**	**0.003**
09.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.040**	**0.040**
10.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.025**	**0.034**
11.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.011**	**0.023**
12.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.001**	**0.001**
13.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.031**	**0.031**
14.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.002**	**0.002**
15.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.020**	**0.020**
16.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.012**	**0.016**
17.Jan.19	0.000	0.000	**0.0000**	0.000	0.000	0.000	0.000	**0.003**	**0.003**
18.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.001**	**0.2820**
19.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.068**
20.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.026**	**0.026**
21.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.001**	**0.125**
22.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.035**	**0.035**
23.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.016**	**0.016**
24.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.035**	**0.035**
25.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.019**	**0.098**
26.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.001**	**0.001**
27.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.027**	**0.034**
28.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.029**	**0.041**
29.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.009**
30.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.002**	**0.002**
31.Jan.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.017**	**0.017**
TOTAL	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.445**	**1.093**

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.Jan.19	68.414	4472	10:33:04	0	4472	4472	10:33:04	4472	0
02.Jan.19	68.039	4228	10:06:22	0	4228	4228	10:06:22	4228	0
03.Jan.19	70.875	4331	10:29:57	0	4331	4331	10:29:57	4331	0
04.Jan.19	73.123	4461	10:13:52	0	4461	4461	10:13:52	4461	0
05.Jan.19	68.192	4170	09:57:21	0	4170	4170	09:57:21	4170	0
06.Jan.19	64.998	3956	11:00:26	0	3956	3956	11:00:26	3956	0
07.Jan.19	68.477	4301	10:38:36	0	4301	4301	10:38:36	4301	0
08.Jan.19	68.366	4232	10:00:48	0	4232	4232	10:00:48	4232	0
09.Jan.19	70.382	4332	10:02:49	0	4332	4332	10:02:49	4332	0
10.Jan.19	71.477	4250	10:29:31	0	4250	4250	10:29:31	4250	0
11.Jan.19	72.450	4416	10:44:07	0	4416	4416	10:44:07	4416	0
12.Jan.19	69.483	4282	10:06:20	0	4282	4282	10:06:20	4282	0
13.Jan.19	65.040	4055	10:40:37	0	4055	4055	10:40:37	4055	0
14.Jan.19	69.559	4261	09:52:36	0	4261	4261	09:52:36	4261	0
15.Jan.19	71.322	4280	09:58:11	0	4280	4280	09:58:11	4280	0
16.Jan.19	71.995	4304	10:06:29	0	4304	4304	10:06:29	4304	0
17.Jan.19	72.792	4154	09:35:34	0	4154	4154	09:35:34	4154	0
18.Jan.19	73.526	4368	10:29:01	69	4437	4437	10:29:01	4368	69
19.Jan.19	67.758	4088	10:03:37	0	4088	4088	10:03:37	4088	0
20.Jan.19	64.949	4100	11:00:27	0	4100	4100	11:00:27	4100	0
21.Jan.19	68.693	4019	10:24:04	0	4019	4019	10:24:04	4019	0
22.Jan.19	67.247	3883	10:58:08	0	3883	3883	10:58:08	3883	0
23.Jan.19	68.112	4202	10:10:26	0	4202	4202	10:10:26	4202	0
24.Jan.19	69.027	4094	09:47:24	0	4094	4094	09:47:24	4094	0
25.Jan.19	71.161	4286	09:49:50	0	4286	4286	09:49:50	4286	0
26.Jan.19	57.525	3582	10:14:46	0	3582	3582	10:14:46	3582	0
27.Jan.19	64.339	4053	10:49:29	0	4053	4053	10:49:29	4053	0
28.Jan.19	71.027	4210	10:17:20	0	4210	4210	10:17:20	4210	0
29.Jan.19	68.242	4266	09:50:46	0	4266	4266	09:50:46	4266	0
30.Jan.19	72.679	4223	10:19:30	0	4223	4223	10:19:30	4223	0
31.Jan.19	71.787	4223	10:19:30	0	4223	4223	10:19:30	4223	0
TOTAL	2141.056	4472 **01.01.19**	10:33:04	0	4472 **01.01.19**	4472	10:33:04	4472	0

10 LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING JAN 2019 ON 01.01.2019- 4472MW AT 10.33.04HRS.

All figures in MW

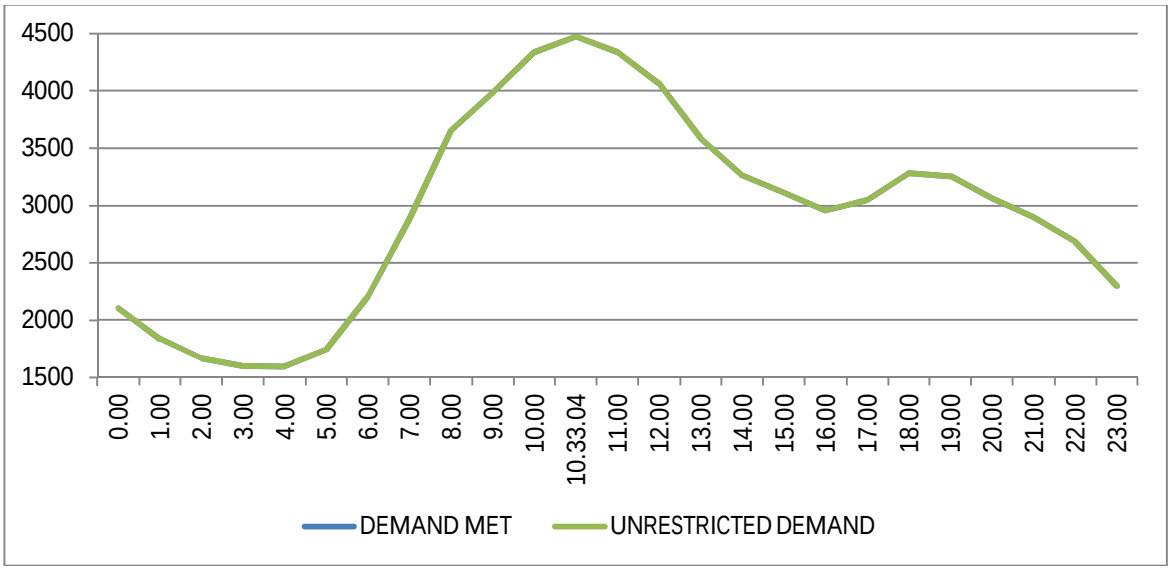
Hrs.	Demand	Load Shedding	Un-Restricted Demand
0.00	2104	0	2104
1.00	1836	0	1836
2.00	1669	0	1669
3.00	1605	0	1605
4.00	1596	0	1596
5.00	1743	0	1743
6.00	2203	0	2203
7.00	2892	0	2892
8.00	3653	0	3653
9.00	3983	0	3983
10.00	4336	0	4336
10.33.04	4472	0	4472
11.00	4333	0	4333
12.00	4063	0	4063
13.00	3588	0	3588
14.00	3258	0	3258
15.00	3113	0	3113
16.00	2954	0	2954
17.00	3046	0	3046
18.00	3283	0	3283
19.00	3255	0	3255
20.00	3057	0	3057
21.00	2902	0	2902
22.00	2682	0	2682
23.00	2299	0	2299
Total (IN MUS)	**68.414**	**0.012**	**68.426**



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING JAN 2019 ON 01.01.2019-4472MW AT 10.33.04HRS.

All figures in MW

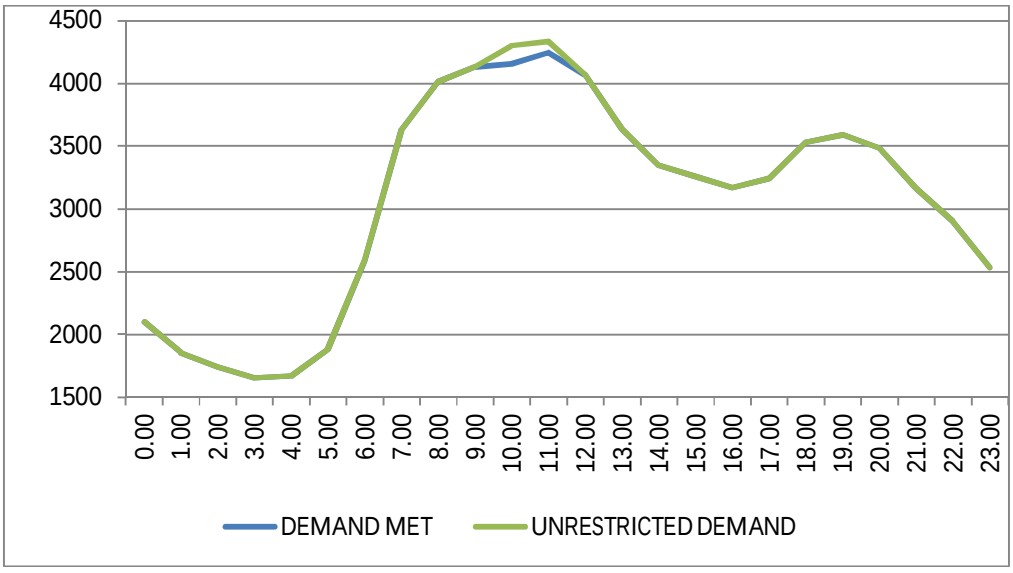
Hrs.	Demand	Load Shedding	Un-Restricted Demand
0.00	2104	0	2104
1.00	1836	0	1836
2.00	1669	0	1669
3.00	1605	0	1605
4.00	1596	0	1596
5.00	1743	0	1743
6.00	2203	0	2203
7.00	2892	0	2892
8.00	3653	0	3653
9.00	3983	0	3983
10.00	4336	0	4336
10.33.04	4472	0	4472
11.00	4333	0	4333
12.00	4063	0	4063
13.00	3588	0	3588
14.00	3258	0	3258
15.00	3113	0	3113
16.00	2954	0	2954
17.00	3046	0	3046
18.00	3283	0	3283
19.00	3255	0	3255
20.00	3057	0	3057
21.00	2902	0	2902
22.00	2682	0	2682
23.00	2299	0	2299
Total (IN MUS)	**68.414**	**0.012**	**68.426**



12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING JAN 2019 – 18.01.2019 – 73.526Mus

All figures in MW

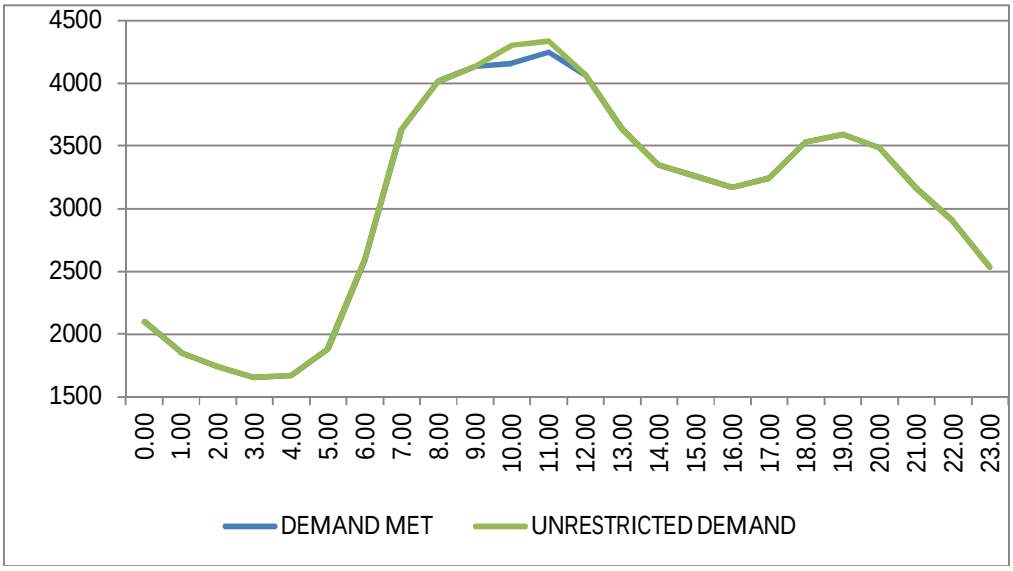
Hrs.	Demand	Load Shedding	Un-Restricted Demand
0.00	2097	0	2097
1.00	1855	0	1855
2.00	1737	0	1737
3.00	1656	0	1656
4.00	1670	0	1670
5.00	1884	0	1884
6.00	2587	4	2591
7.00	3633	0	3633
8.00	4015	0	4015
9.00	4133	0	4133
10.00	4159	140	4299
11.00	4248	87	4335
12.00	4068	0	4068
13.00	3638	0	3638
14.00	3347	0	3347
15.00	3258	0	3258
16.00	3170	0	3170
17.00	3241	0	3241
18.00	3533	0	3533
19.00	3590	0	3590
20.00	3485	0	3485
21.00	3163	0	3163
22.00	2899	0	2899
23.00	2534	0	2534
Total (IN MUS)	**73.526**	**0.282**	**73.808**



13 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING JAN 2019 – 18.01.2019 – 73.808 Mus

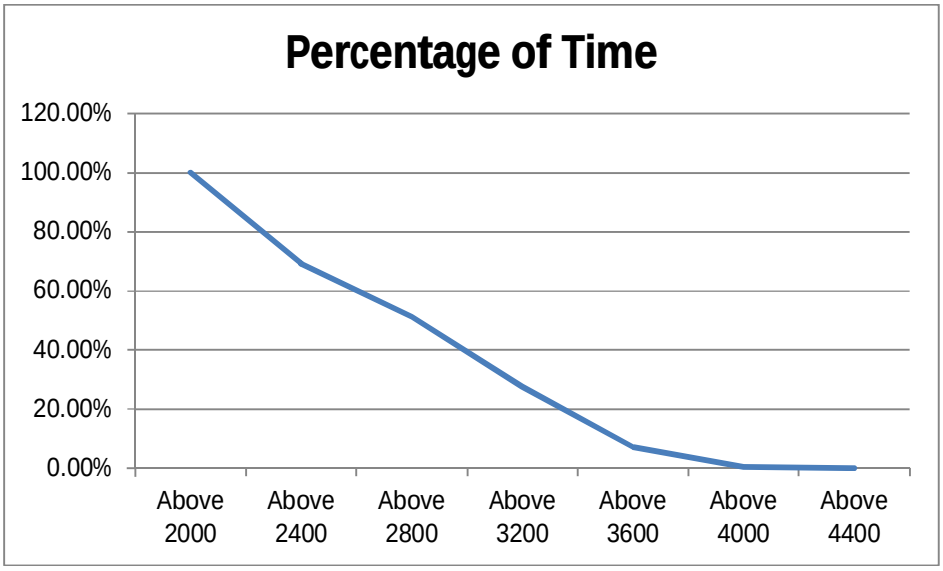
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
0.00	2097	0	2097
1.00	1855	0	1855
2.00	1737	0	1737
3.00	1656	0	1656
4.00	1670	0	1670
5.00	1884	0	1884
6.00	2587	4	2591
7.00	3633	0	3633
8.00	4015	0	4015
9.00	4133	0	4133
10.00	4159	140	4299
11.00	4248	87	4335
12.00	4068	0	4068
13.00	3638	0	3638
14.00	3347	0	3347
15.00	3258	0	3258
16.00	3170	0	3170
17.00	3241	0	3241
18.00	3533	0	3533
19.00	3590	0	3590
20.00	3485	0	3485
21.00	3163	0	3163
22.00	2899	0	2899
23.00	2534	0	2534
Total (IN MUS)	**73.526**	**0.282**	**73.808**



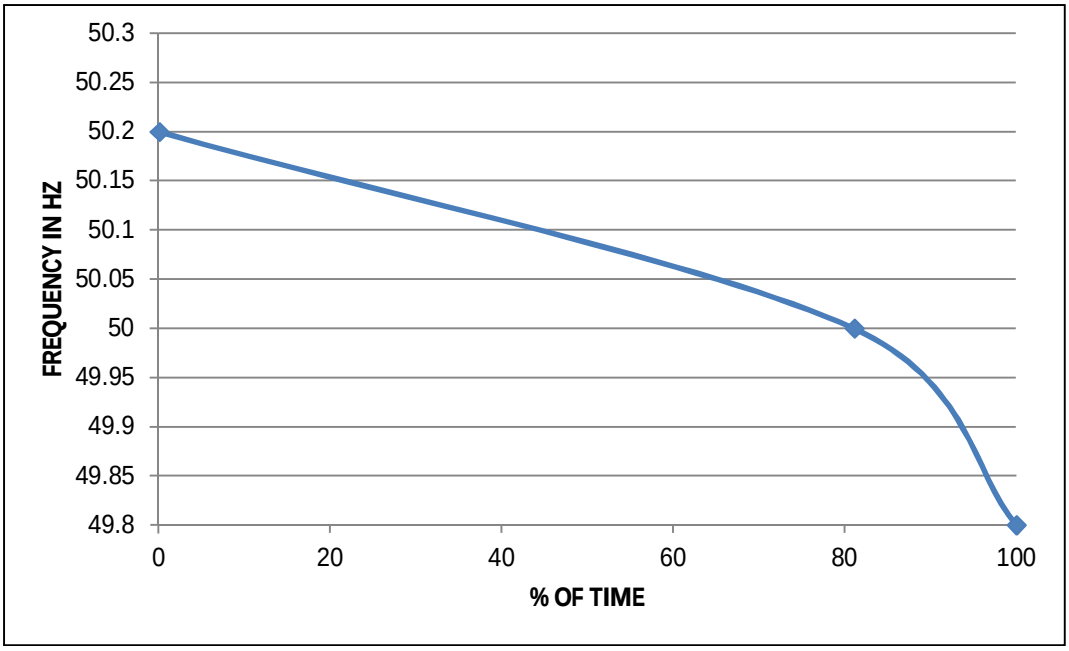
14 LOAD DURATION CURVE FOR JAN 2019

Load in MW	Percentage of Time
Above 2000	100.00%
Above 2400	69.23%
Above 2800	51.26%
Above 3200	27.71%
Above 3600	7.22%
Above 4000	0.40%
Above 4400	0.10%



15 FREQUENCY ANALYSIS FOR THE MONTH OF JAN 2019

Frequency Range in Hz.	Percentage of time
Above 49.8	100.00
Above 50.00	80.02
Above 50.20	0.04



16 VOLTAGE PROFILE OF 220 KV SUB-STATIONS IN DELHI DURING JAN 2019

All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
01.Jan.19	242.72	230.46	240.91	230.08
02.Jan.19	242.2	230.85	242.84	230.85
03.Jan.19	241.55	229.82	242.72	229.17
04.Jan.19	242.97	230.08	242.84	230.21
05.Jan.19	243.1	230.72	244	231.88
06.Jan.19	242.72	233.82	244.78	234.33
07.Jan.19	242.72	228.01	242.46	228.92
08.Jan.19	241.55	226.34	241.43	227.24
09.Jan.19	241.81	228.53	242.2	228.27
10.Jan.19	241.55	228.92	241.81	228.79
11.Jan.19	241.17	226.98	242.2	227.88
12.Jan.19	241.68	230.59	242.72	230.85
13.Jan.19	242.33	228.79	238.97	238.59
14.Jan.19	242.46	227.24	241.17	228.66
15.Jan.19	241.43	228.14	242.07	228.66
16.Jan.19	241.04	226.59	241.68	226.08
17.Jan.19	240.91	226.85	241.55	227.37
18.Jan.19	240.52	224.14	242.2	225.05
19.Jan.19	241.04	229.43	242.46	229.43
20.Jan.19	241.81	231.11	241.43	230.46
21.Jan.19	242.72	228.79	242.72	227.63
22.Jan.19	244.13	230.08	244.13	230.08
23.Jan.19	240.52	231.24	239.62	231.24
24.Jan.19	242.72	230.59	242.72	228.27
25.Jan.19	243.75	230.85	241.04	228.01
26.Jan.19	242.84	235.23	242.07	232.78
27.Jan.19	244.26	230.85	242.2	228.66
28.Jan.19	244	0	241.55	226.98
29.Jan.19	240.26	227.63	241.17	228.79
30.Jan.19	240.26	226.72	241.17	225.69
31.Jan.19	241.04	225.43	240.14	226.08

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.Jan.19	421.84	04:00:38	399.8	10:52:19	413.62
02.Jan.19	423.72	04:01:11	403.79	08:37:12	414.58
03.Jan.19	423.01	04:02:04	401.44	09:23:05	415.07
04.Jan.19	425.12	03:35:57	401.44	09:14:18	414.56
05.Jan.19	423.25	03:08:40	402.14	11:08:01	414.32
06.Jan.19	424.89	03:04:13	406.37	11:13:44	416.7
07.Jan.19	423.25	01:12:16	401.91	11:16:37	413.44
08.Jan.19	423.72	04:02:29	397.45	11:17:50	412.68
09.Jan.19	424.42	03:13:42	401.44	11:21:03	413.41
10.Jan.19	423.25	04:01:45	402.85	12:09:58	415.1
11.Jan.19	423.01	04:01:49	401.91	11:25:50	413.83
12.Jan.19	422.78	02:29:02	405.19	11:25:14	414.07
13.Jan.19	423.25	04:01:46	402.14	11:15:17	415.79
14.Jan.19	423.95	01:03:58	401.44	10:28:40	414.45
15.Jan.19	423.01	01:12:32	402.61	09:42:13	412.58
16.Jan.19	422.55	01:59:45	398.39	11:06:36	411.97
17.Jan.19	422.55	04:00:42	400.5	10:15:28	413.02
18.Jan.19	423.72	04:01:51	396.99	11:08:52	413.23
19.Jan.19	424.42	04:00:44	404.02	09:54:14	414.91
20.Jan.19	423.95	04:01:37	407.3	11:16:28	417.18
21.Jan.19	424.19	01:59:30	403.08	11:19:51	416.04
22.Jan.19	422.55	03:58:33	404.02	07:11:44	413.19
23.Jan.19	422.78	04:01:05	406.37	18:37:38	413.94
24.Jan.19	424.89	23:36:02	402.85	09:08:50	414.52
25.Jan.19	421.61	02:43:22	402.61	07:23:33	414.01
26.Jan.19	422.08	03:01:05	411.06	09:25:25	417.04
27.Jan.19	423.01	03:06:49	400.97	12:08:40	415.67
28.Jan.19	423.95	03:36:22	404.25	09:37:42	414.13
29.Jan.19	422.55	04:00:55	404.02	11:24:46	413.66
30.Jan.19	422.78	04:01:48	401.68	10:06:29	412.8
31.Jan.19	422.08	04:01:11	399.57	10:16:52	412.4

All figures in kV

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01.Jan.19	427.7	04:00:22	412.23	10:15:19	421.01
02.Jan.19	429.11	04:01:03	412.46	10:17:18	421.11
03.Jan.19	428.64	04:01:51	411.06	09:46:56	420.81
04.Jan.19	428.64	03:02:29	411.29	09:14:13	420.17
05.Jan.19	429.58	03:07:57	411.99	11:07:33	420.96
06.Jan.19	429.58	03:04:15	416.92	11:08:32	423.33
07.Jan.19	427.94	03:15:24	408.71	11:37:40	418.72
08.Jan.19	427.7	04:02:33	404.25	11:21:58	417.57
09.Jan.19	427.7	03:13:10	407.3	11:22:07	418.08
10.Jan.19	427.23	04:00:40	410.82	11:36:10	419.97
11.Jan.19	427.23	04:00:52	408.94	11:49:28	418.52
12.Jan.19	426.77	02:32:00	411.99	11:20:06	419.15
13.Jan.19	427.47	04:00:39	409.18	11:09:25	420.65
14.Jan.19	427.7	03:20:23	0	14:48:36	295.6
15.Jan.19	427.47	01:00:04	411.06	10:39:12	418.92
16.Jan.19	427.47	01:42:43	407.54	11:06:20	418.03
17.Jan.19	427.7	04:00:33	407.77	11:24:48	418.54
18.Jan.19	427.94	04:02:51	404.49	11:08:47	418.31
19.Jan.19	428.64	04:00:25	411.29	12:10:22	419.37
20.Jan.19	426.3	03:00:17	412.7	11:06:03	420.45
21.Jan.19	427.94	01:59:25	410.12	11:19:22	421.2
22.Jan.19	428.64	03:58:15	396.75	21:18:58	419.89
23.Jan.19	427.7	04:00:04	411.06	18:24:15	420.66
24.Jan.19	429.11	23:36:07	411.99	09:09:57	420.78
25.Jan.19	426.77	02:29:19	411.06	07:22:53	420.01
26.Jan.19	427.23	23:58:46	416.92	18:37:30	422.91
27.Jan.19	427.47	03:06:06	410.12	12:07:24	421.06
28.Jan.19	427.47	03:40:22	409.88	11:48:42	419.22
29.Jan.19	426.77	04:01:15	411.06	11:20:22	419.16
30.Jan.19	426.3	04:02:33	408.94	10:06:27	417.99
31.Jan.19	426.06	01:59:50	407.54	10:16:46	418.02

18 DETAILS OF BREAK-DOWNS DURING THE MONTH OF JANUARY 2019

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
1	1.1.19	09:12	220kV Preet Vihar- Patparganj Ckt-I	1.1.19	11:42	AT PREET VIHAR : POLE DISCREPANCY.
2	3.1.19	09:38	NARAINA 33kV PAYAL (REWARI LINE-I) CKT	3.1.19	17:15	LOW GAS PRESSURE.
3	4.1.19	06:01	220kV PRAGATI - SARITA VIHAR CKT - I	4.1.19	13:15	AT PRAGATI : DIST PROT, ZONE-I, O/C, E/F. AT SARITA VIHAR : IDST PROT, ZONE-I, DIST 2.556KM.
4	4.1.19	06:56	220kV MAHARANI BAGH - SARITA VIHAR CKT	4.1.19	07:43	AT SARITA VIHAR : DIST PORT, ZONE-I, DIST 5.287KM. AT MAHARANI BAGH : DIST PROT, 4.6KM.
5	4.1.19	07:58	220kV WAZIRABAD-GEETA COLONY CKT-I	4.1.19	10:18	AT WAZIRABAD : DIST PROT, ZONE-I AT GEETA COLONY : DIST PROT, ZONE-I, DIST 2.681KM.
6	6.1.19	03:41	HARSH VIHAR 220/66KV 160MVA ICT-1	6.1.19	11:02	OVER FLUX, 86.
7	6.1.19	02:54	220kV MAHARANI BAGH - ELECTRIC LANE CKT-I	6.1.19	08:05	AT ELECTRIC LANE : 86.
8	6.1.19	07:24	220kV PRAGATI - SARITA VIHAR CKT - I	6.1.19	14:12	AT SARITA VIHAR : DIST PROT, ZONE-I, DIST 6.178KM, AT PRAGATI : DIST PROT, ZONE I, II & III, DIST 8.010KM.
9	7.1.19	02:42	HARSH VIHAR 220/66KV 160MVA ICT-2	7.1.19	03:30	OVERFLUX, 86.
10	7.1.19	03:33	SARITA VIHAR 220/66kV 100MVA Tx-III	7.1.19	00:00	TRIPPED DUE TO FIRE IN 20MVA TR. -2
11	7.1.19	04:40	220kV MAHARANI BAGH - SARITA VIHAR CKT	7.1.19	05:30	AT SARITA VIHAR : LOW GAS PRESSURE.
12	7.1.19	04:40	220kV SARITA VIHAR - BTPS CKT.-I	7.1.19	05:30	AT SARITA VIHAR : LOW GAS PRESSURE.
13	10.1.19	08:16	220kV GOPALPUR- MANDOLACKT-I	10.1.19	11:10	AT GOPALPUR : R PHASE, DIST PROT, 86.
14	12.1.19	17:13	220 KV PATPARGANJ - I.P. CKT-II	12.1.19	21:38	AT PATPARGANJ : DIST PROT, DIST 1.452KM, 86, 186. AT I.P.STN : DIST PROT, ZONE-II, 86, 186.
15	13.1.19	17:11	220KV GAZIPUR - MAHARANIBAGH CKT. - II	13.1.19	17:45	AT GAZIPUR : 86.
16	13.1.19	17:11	220KV GAZIPUR - MAHARANIBAGH CKT. - I	13.1.19	17:58	AT GAZIPUR : 86.
17	13.1.19	17:11	GAZIPUR 220/66kV 100MVA Tx-II	13.1.19	17:45	86
18	13.1.19	17:11	GAZIPUR 220/66kV 100MVA Tx-I	13.1.19	17:45	86
19	13.1.19	18:07	GAZIPUR 220/66kV 100MVA Tx-I	13.1.19	18:15	86
20	13.1.19	23:10	OKHLA 66/11kV, 20MVA Tx-II	13.1.19	23:30	86
21	15.1.19	09:00	GEETA COLONY 220/33kV 100MVA Tx-I	15.1.19	14:30	86
22	15.1.19	11:01	VASANT KUNJ 220/66kV 100MVA Tx-II	15.1.19	11:08	96
23	15.1.19	11:01	VASANT KUNJ 220/66kV 100MVA Tx-III	15.1.19	11:08	96
24	15.1.19	11:01	220kV MEHRAULI - VASANT KUNJ CKT.-I	15.1.19	11:23	AT VASANT KUNJ : 86
25	15.1.19	11:01	220kV MEHRAULI - VASANT KUNJ CKT.- II	15.1.19	11:08	AT VASANT KUNJ : 86
26	18.1.19	13:57	ELECTRIC LANE 220/33kV 100MVA Tx-II	18.1.19	23:25	DIFFERENTIAL, 86.
27	20.1.19	13:05	OKHLA 220/33kV 100MVA Tx-III	20.1.19	13:30	I/C TRIPPED ON E/F.
28	20.1.19	13:05	OKHLA 220/33kV 100MVA Tx-IV	20.1.19	13:45	I/C TRIPPED ON E/F.
29	20.1.19	14:20	PATPARGANJ 33/11kV, 16MVA Tx	20.1.19	19:00	DIFFERENTIAL.
30	20.1.19	19:39	400kV Dadri-Harsh Vihar Ckt-I	20.1.19	23:44	AT HARSH VIHAR : E/F, DIST PROT, DIST 21.3KM, ZONE-I.
31	20.1.19	21:48	220kV MAHARANI BAGH - LODHI ROAD CKT-I	21.1.19	00:05	AT MAHARANI BAGH : DIST PROT, ZONE-I, DIST 1.6KM.
32	22.1.19	01:59	220kV MAHARANI BAGH - ELECTRIC LANE CKT-I	22.1.19	12:58	AT MAHARANI BAGH : DIST PROT, ABC PHASE, 86A.
33	22.1.19	01:59	220kV MAHARANIBAGH-TRAUMA CENTER CKT-I	22.1.19	07:43	At Maharani Bagh : Ckt. tripped without indication
34	22.1.19	01:59	220kV MAHARANI BAGH - ELECTRIC LANE CKT-I	22.1.19	12:58	At Maharani Bagh : Ckt. tripped on Dist prot, ABC Phase, 86A.
35	22.1.19	01:59	220kV MAHARANIBAGH-TRAUMA CENTER CKT-I	22.1.19	07:43	AT MAHARANI BAGH : TRIPPED WITHOUT INDICATION.
36	22.1.19	02:15	NARAINA 220/33kV 100MVA Tx-I	22.1.19	07:17	OVER FLUX.
37	22.1.19	02:19	220kV GAZIPUR - NOIDA SEC.-62 CKT	23.1.19	12:01	At BTPS : Ckt. tripped on Dist prot, Zone-I, Y phase, Dist 7.8KM, General trip.

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
38	22.1.19	02:25	NARAINA 220/33kV 100MVA Tx-I	22.1.19	07:17	Tr. –I alongwith 33kV I/C-I tripped on Over flux, protection group A&B. DC Supply failed.
39	22.1.19	02:45	OKHLA 220/66kV 100MVA Tx-II	22.1.19	11:45	Tr. –II tripped on 30E, PVR, Supervision relay.
40	22.1.19	03:33	HARSH VIHAR 220/66KV 160MVA ICT-1	22.1.19	06:28	220/66kV 160MVA Tr. –I tripped on Over flux, 86, Y phase, Group A.
41	22.1.19	03:38	HARSH VIHAR 220/66KV 160MVA ICT-2	22.1.19	06:28	220/66kV 160MVA Tr. –II tripped on Over flux, 86, Y phase, Group A.
42	22.1.19	07:50	PAPPANKALAN-I 66/11kV, 20MVA Tx-II	22.1.19	10:37	Tr. tripped on OLTC, Buchholz Relay, 86.
43	22.1.19	20:58	PAPPANKALAN-I 66kV BINDAPUR CKT-II	22.1.19	15:15	At Papankalan-I : Ckt. could not be charged due to problem in Ckt. breaker. Ckt. was made off to avoid over voltage.
44	22.1.19	21:18	220kV MAHARANI BAGH - SARITA VIHAR CKT	22.1.19	23:10	At Sarita Vihar : Ckt. tripped on Dist prot, Zone-II, ABC Phase, Dist 9.335KM At Maharani Bagh : R-Y Phase trip.
45	22.1.19	21:19	220kV MAHARANI BAGH - LODHI ROAD CKT-I	22.1.19	23:07	At Lodhi Road : Ckt. tripped on Dist prot, zone-I. At Maharani Bagh : Ckt. did not trip.
46	22.1.19	23:10	220kV MAHARANI BAGH - PRAGATI CKT	23.1.19	09:19	At Pragati : Ckt. tripped on Dist prot, Dist 2.022Mts, Auto Reclose. At Maharani Bagh : Ckt. did not trip. Ckt. tried at 00.19hrs., did not hold. Finally after protection clearance ckt. charged at 09.19hrs.
47	23.1.19	05:37	220kV MAHARANI BAGH - SARITA VIHAR CKT	23.1.19	06:32	At Sarita Vihar : Tripped on 186A&B, 188AS.
48	23.1.19	09:15	220kV MAHARANI BAGH - SARITA VIHAR CKT	23.1.19	19:15	At Sarita Vihar : Manually tripped due to non availability of B Phase CVT.
49	24.1.19	13:10	220 KV PATPARGANJ - I.P. CKT-I	24.1.19	00:00	At Patparganj: Dist prot, Zone-I, YB Phase, Dist 0.553Km., Birdage reported at Patparganj. At I.P. : Dist prot, Zone-I, ABC Phase, 186, 86
50	24.1.19	14:42	PARKSTREET 220/33kV 100MVA Tx-II	24.1.19	23:58	At Park Street : O/C.
51	24.1.19	23:35	NARAINA 220/33kV 100MVA Tx-I	25.1.19	06:40	Tripped on Over Flux.
52	24.1.19	23:37	400kV Bawana-Mundka Ckt-I	25.1.19	00:16	At Bawana : 186A&B, 295ABC, B Phase, O/V.
53	24.1.19	23:37	400kV Bawana-Mundka Ckt-I	25.1.19	00:16	At Bawana : 186A&B, B Phase, O/V.
54	24.1.19	23:47	220KV PEERAGARHI-WAZIRPUR CKT-II	25.1.19	00:04	At Wazirpur : Tripped on 86A&B.
55	24.1.19	23:47	220KV SHALIMARBAGH-WAZIRPUR CKT-I	25.1.19	00:24	At Shalimarbagh: Tripped without indication. At Wazirpur : Tripped on 86A&B
56	25.1.19	07:00	220kV Preet Vihar- Patparganj Ckt-I	25.1.19	09:00	At Preet Vihar : While putting on, tripped on F-87L, Trip Phase BC, 86. Ckt. put off in night due to O/V correction alongwith 220kV Patparganj Ckt-II.
57	25.1.19	08:21	KANJHAWALA 220/66kV 100MVA Tx-I	25.1.19	00:00	I/C –I tripped on E/F.
58	25.1.19	09:06	220kV PAPPANKALAN-III-PAPPANKALAN-I CKT-I	25.1.19	11:59	At Papankalan-I: Dist prot, Auto Reclose, ABC Phase, Line Dff. At Papankalan-III : Dist prot, Zone-II, B phase, Dist 4.30Km, Line Dfferential.
59	26.1.19	03:12	HARSH VIHAR 220/66KV 160MVA ICT-1	26.1.19	07:53	Tripped on over flux.
60	26.1.19	03:20	HARSH VIHAR 220/66KV 160MVA ICT-2	26.1.19	07:52	Tripped on over flux.
61	26.1.19	07:42	SHALIMAR BAGH 220/33kV 100MVA Tx-III	26.1.19	12:27	Tripped on 195, pole discrepancy relay.
62	26.1.19	15:06	HARSH VIHAR 220/66KV 160MVA ICT-1	26.1.19	15:53	Tripped on over flux and 86.
63	26.1.19	15:14	HARSH VIHAR 220/66KV 160MVA ICT-2	26.1.19	15:52	Tripped on over flux and 86.
64	27.1.19	11:10	OKHLA 220/33kV 100MVA Tx-III	27.1.19	19:47	Tripped on E/F, O/C
65	27.1.19	11:10	OKHLA 220/33kV 100MVA Tx-IV	27.1.19	19:47	Tr. tripped on 86, I/C tripped on 86.
66	28.1.19	01:15	HARSH VIHAR 220/66KV 160MVA ICT-1	28.1.19	01:55	Tripped on Overflux, 86, CB Trouble, Gen trip, Master Relay (LV side)
67	28.1.19	11:58	RAJGHAT 33kV LAHORI GATE CKT (BAY-2)	28.1.19	13:00	Monkey electrocuted at 33kV Bus coupler bay.
68	28.1.19	11:58	RAJGHAT 33kV G B PANT HOSPITAL CKT (BAY-13)	28.1.19	13:00	Monkey electrocuted at 33kV Bus coupler bay.
69	28.1.19	11:58	RAJGHAT 33kV FOUNTAIN CKT (BAY-16)	28.1.19	13:00	Monkey electrocuted at 33kV Bus coupler bay.
70	28.1.19	11:58	RAJGHAT 33kV DDU MARG / KAMLA MARKET CKT (BAY-20)	28.1.19	13:00	Monkey electrocuted at 33kV Bus coupler bay.

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
71	28.1.19	11:58	RAJGHAT 33kV KAMLA MARKET CKT (BAY-19)	28.1.19	13:00	Monkey electrocuted at 33kV Bus coupler bay.
72	28.1.19	11:58	RAJGHAT 33kV JAMA MASJID CKT-2 (BAY-6)	28.1.19	13:00	Monkey electrocuted at 33kV Bus coupler bay.
73	28.1.19	11:58	RAJGHAT 33kV MOTIA KHAN CKT (BAY-1)	28.1.19	13:00	Monkey electrocuted at 33kV Bus coupler bay.
74	28.1.19	11:58	RAJGHAT 33kV JAMA MASJID CKT-1 (BAY-5)	28.1.19	13:00	Monkey electrocuted at 33kV Bus coupler bay.
75	28.1.19	11:58	RAJGHAT 33kV IG STADIUM CKT (BAY-12)	28.1.19	13:00	Monkey electrocuted at 33kV Bus coupler bay.
76	28.1.19	11:58	RAJGHAT 33kV MINTO ROAD CKT (BAY-17)	28.1.19	13:00	Monkey electrocuted at 33kV Bus coupler bay.
77	29.1.19	04:07	HARSH VIHAR 220/66KV 160MVA ICT-1	29.1.19	08:10	Tr. tripped on overflux
78	31.1.19	14:20	NARAINA 220/33kV 100MVA Tx-I	31.1.19	14:40	O/C, 86.

20 DETAILS OF UNDER FREQUENCY RELAY OPERATIONS IN DELHI POWER SYSTEM DURING THE MONTH OF JANUARY 2019

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