DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

****

JAN - 2020

1 SALIENT FEATURES OF DELHI POWER SYSTEM

Sr. No.	Features	JAN 2019	JAN 2020
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	0
	Rithala GT	108	0
	Bawana	1372	1372
	TOWMCL (Waste to Energy plant)	16	16
	EDWPCL (Waste to Energy plant)	10	10
	MSW BAWANA (Waste to Energy plant)	24	24
	Total	2970	2157
2	**Maximum Unrestricted Demand (MW)**	**4472**	**5226**
	Date	01.01.2019	01.01.2020
	Time	10.33.04	10.45.00
3	**Peak Demand met (MW)**	**4472**	**5226**
	Date	01.01.2019	01.01.2020
	Time	10.33.04	10.45.00
4	Peak Availability (MW)	4357	5249
5	Shortage (-) / Surplus (+) in MW	(-) 115	(+) 23
6	Percentage Shortage (-) / Surplus (+)	(-) 2.57	(+) 0.44
7	Maximum Energy Consume in a day (Mus)	73.526	84.539
8	Energy Consumed during the month	**2141.848**	**2294.025**
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	0.648	0.000
	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	**0.648**	**0.000**
B)	Due to Constraints in System in Mus		
	DTL	0.142	0.073
	NDPL	0.082	0.016
	BRPL	0.189	0.155
	BYPL	0.032	0.013
	NDMC	0.000	0.000
	MES	0.000	0.000
	Other Agencies	0.000	0.003
	Total	**0.445**	**0.260**
11	**Grand Total in Mus**	**1.093**	**0.260**

2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING JAN 2020

A) For the month of Jan 2020

All Figures in MUs

S. No	Stations	Gross Generation	Aux. Consumption	Net Generation	Availability (%)	Backing Down
1.	**RPH**	0.000	0.124	-0.124	0.00	0.00
2.	**GT**	31.700	1.354	30.346	93.03	151.00
3.	**PPCL**	119.671	2.467	117.204	100.58	121.51
4.	**BTPS**	0.000	0.527	-0.527	0.00	0.00
5.	**Rithala**	0.000	0.000	289.962	0.00	0.00
6.	**Bawana**	300.521	10659	289.862	96.88	669.00
7.	**Towmcl**	12.920	1.833	12.087	--	0.00
8.	**EDWPCL**	2.805	0.742	2.063	--	0.00
9.	**DMSWL**	6.651	1.940	4.711	--	0.00
	TOTAL	**474.268**	**10667.987**	**745.584**	**--**	**941.51**

B) For the Year 2019-20 (Upto Jan 2020)

Power Station	Effective Capacity (MW)	Net Generation in MUs for Jan 2020	Availability (%) for Jan 2020	PLF (%) for Jan 2020	Cumulative Generation in MUs upto Jan 2020 for the year 2019-20	Cumulative Availability in % upto Jan 2020 for the year 2019-20	Cumulative PLF in % upto Jan 2020 for the year 2019-20
RPH	135	-0.124	0.00	0.00	-1.249	0.00	-0.06
GT	270	30.346	93.03	15.53	427.723	86.93	22.22
PPCL	330	117.204	100.58	49.56	1266.898	95.79	54.02
BTPS	705	-0.527	0.00	0.00	-5.791	0.00	0.00
Rithala	108	289.962	0.00	0.00	0.000	**0.00**	0.00
Bawana	1372	289.862	96.88	30.35	3302.418	87.67	
Towmcl	16	12.087	--	116.94	124.724	--	--
EDWPCL	--	2.063	--	31.42	24.434	--	--
DMSWL	--	4.711	--	37.25	96.744	--	--
TOTAL	2936	**745.584**	**--**	**--**	**5235.901**	**--**	**--**

3 DETAILS OF OUTAGES OF GENERATING STNS. WITHIN DELHI W.E.F. APRIL 2019

(A) 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	12.06.19	08.28	12.06.19	12.15	unit tripped due to Electrical trouble normal shut down.
		09.08.19	12.47	09.08.19	15.45	Unit tripped due to tripping of 66kV Switch yard.
		27.08.19	15.05	27.08.19	20.20	Unit tripped due to tripping of generator.
		10.09.19	19.55	11.09.19	17.44	Unit tripped due to rotating diode faulty.
		28.09.19	01.35	28.09.19	02.30	Unit tripped due to field failure.
		22.10.19	10.00	08.11.19	19.15	Hot gas path inspection.
		28.11.19	13.30	28.11.20	14.32	Tripped due to failure of I/O Pack.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	30	01.06.19	16.45	01.06.19	20.00	Unit tripped on Electrical trouble Normal shut down alarms.
		01.07.19	22.06	01.07.19	23.40	Electrical trouble normal shutdown
		02.07.19	01.30	02.07.19	22.20	Electrical trouble normal shutdown
		09.08.19	12.47	09.08.19	15.45	Unit tripped due to tripping of 66kV Switch yard.
		30.09.19	06.42	30.09.19	08.05	Unit tripped due to battery under voltage.
		11.10.19	09.00	19.10.19	15.30	Combustion inspection.
		13.12.19	15.40	13.12.19	16.16	Tripped due to grounding of C&I GT cables
		30.12.19	05.42	30.12.19	06.22	Tripped due to 160MVA Tr. tripped

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
3	30	12.04.19	02.25	12.04.19	04.40	Machine tripped due to fault occurred in high vibration pick up.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
4	30	Nil				

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
5	30	27.05.19	11.08	27.05.19	12.54	Tripped due to Electrical trouble

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
6	30	30.04.19	01.18	30.04.19	02.05	Machine tripped due to malfunctioning of IP pack
		02.05.19	16.08	02.05.19	17.37	Tripped due to failue of communication I/O pack.
		19.06.19	17.58	19.06.19	19.18	Unit tripped on heavy jerk.
		21.07.19	16.16	21.07.19	17.55	Electrical trouble.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG -1	30	09.04.19	08.00	28.05.19	20.32	Major overhauling.
		01.06.19	21.15	02.06.19	19.15	Machine out due ot axial shift problem.
		03.06.19	12.00	12.06.19	17.45	
		09.08.19	12.47	10.08.19	22.30	Unit tripped due to tripping of 66kV Switch yard.
		28.08.19	14.28	28.08.19	15.55	Gen. differential trip.
		29.08.19	10.15	29.08.19	13.15	Tripped on false alarm.
		05.12.19	17.19	05.12.19	18.15	Tripped on low condenser vaccum
		13.12.19	15.40	13.12.19	16.16	Tripped due to tripping of GT-2
		30.12.19	05.42	30.12.19	06.22	

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG -2	30	11.05.19	17.55	11.05.19	20.05	Unit tripped due to Class A channel I&2 trip.
		05.06.19	02.14	05.06.19	04.01	Unit tripped due to durm level disturbance.
		20.09.19	09.00	03.10.19	21.20	Minor inspection.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG -3	30	05.04.19	01.15	05.04.19	02.15	Machine triped on durm level very high.
		02.05.19	23.45	03.05.19	05.15	Tripped due to faulty relay.
		07.06.19	21.55	08.06.19	02.04	Unit tripped due to Hotwell level very high. Lube oil Press. LOW and Class A trip relay alarm also appeared.
		19.06.19	17.58	19.06.19	20.48	Unit tripped on heavy jerk.
		12.07.19	10.50	12.07.19	12.08	Low vaccume pressure
		15.07.19	16.55	15.07.19	17.29	Tripped due to drum level very high.
		21.07.19	16.16	21.07.19	18.50	Unit tripped with Unit #6
		29.08.19	14.20	29.08.19	15.15	Tripped due to drum level high
		11.09.19	07.01	11.09.19	07.50	Unit tripped due to low vaccume
		19.10.19	19.35	19.10.19	20.25	AVR Fuse failure
		20.10.19	13.50	20.10.19	15.07	VT Fuse fail, Class A relay operation
		26.10.19	07.34	26.10.19	08.02	
		30.10.19	10.23	30.10.19	11.11	
		11.11.19	14.39	11.11.19	15.27	Unit tripped oil pressure very low, VT Fuse failure.
		09.12.19	08.56	09.12.19	11.30	Tripped on low condenser vaccum
		20.01.20	00.00	20.01.20	07.00	Borospopic inspection.

(C) PRAGATI

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	104	01.04.19	00.00	05.04.19	08.04	Stopped due to low demand and high frequency
		24.04.19	00.00	25.04.19	00.14	
		25.04.19	00.47	01.05.19	16.54	Not scheduled due to available in Open cycle.
		03.05.19	04.15	10.05.19	13.52	Stopped due to low demand and high frequency
		17.05.19	22.30	29.05.19	12.32	
		19.06.19	18.02	19.06.19	18.25	Grid disturbance
		21.06.19	10.05	21.06.19	11.15	Stopped to attend hot point by DTL.
		17.07.19	08.08	19.07.19	09.15	Stopped due to low demand and high frequency
		19.07.19	09.15	19.07.19	18.00	Change Air Filters
		19.07.19	18.00	20.07.19	11.11	Stopped due to low demand and high frequency
		06.08.19	11.51	08.08.19	21.02	
		10.08.19	00.00	27.08.19	18.19	
		12.09.19	02.07	21.09.19	12.24	
		30.12.19	05.33	30.12.19	06.10	Stopped due to high DP.
		30.12.19	06.10	02.01.20	11.15	Stopped due to low demand and high frequency
		02.01.20	11.15	02.01.20	18.00	Stopped for planned mtc.
		02.01.20	18.00	02.01.20	18.45	Stopped due to low demand and high frequency
		02.01.20	18.45	03.01.20	12.00	Stopped for planned mtc.
		03.01.20	12.00	08.01.20	24.00	Stopped due to low demand and high frequency
		09.01.20	00.00	09.01.20	24.00	Stopped for planned mtc.
		10.01.20	00.00	10.01.20	08.15	Stopped due to low demand and high frequency
		10.01.20	08.15	10.01.20	21.15	Stopped for planned mtc.
		10.01.20	21.15	31.01.20	23.59	Stopped due to low demand and high frequency

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	104	05.04.19	17.03	22.04.19	21.19	Stopped due to low demand and high frequency
		10.05.19	15.56	10.05.19	17.00	GT-2 swapped with GT-1
		10.05.19	17.00	10.05.19	18.00	DC reduced for un wrapping inlet air filters.
		10.05.19	18.00	20.05.19	14.39	Stopped due to low demand and high frequency
		18.06.19	00.08	19.06.19	14.37	
		25.07.19	15.30	05.08.19	20.43	
		30.08.19	13.06	10.09.19	20.43	
		21.09.19	12.24	16.10.19	18.00	Unit swapped by GT-#1
		16.10.19	18.00	20.10.19	19.45	Withdraw planned mtc
		20.10.19	19.45	20.11.19	06.39	Stopped due to low demand and high frequency
		21.11.19	00.00	28.12.19	08.58	
		28.12.19	20.00	30.12.19	06.10	
		09.01.20	16.56	09.01.20	17.56	Internal fault

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG	122	01.04.19	00.00	01.04.19	08.15	Unit stopped for MI
		14.04.19	16.50	15.04.19	04.45	Attending governing system.
		03.05.19	01.34	03.05.19	04.02	Internal fault
		17.05.19	22.30	20.05.19	17.57	Stopped due to low demand and high frequency
		19.07.19	04.55	19.07.19	06.27	Tripped due to grid disturbance
		30.07.19	09.10	30.07.19	10.06	Internal fault
		05.09.19	14.40	05.09.19	19.11	
		21.09.19	13.10	21.09.19	14.10	
		26.10.19	09.09	26.10.19	10.17	Tripped due to grid disturbance
		02.12.19	12.35	02.12.19	13.29	Internal fault
		27.12.19	13.25	27.12.19	14.14	Tripped due to grid disturbance
		30.12.19	05.33	30.12.19	08.03	Unit tripped with G.T. #1
		09.01.20	16.59	09.01.20	18.41	Internal fault

(D) BAWANA CCGT POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	216	01.05.19	10.00	01.05.19	12.00	Transformer testing by PGCIL
		01.05.19	12.00	02.05.19	18.00	
		26.06.19	10.09	26.06.19	11.22	Machine Tripped on Guillotine damper feedback close .
		07.08.19	07.09	07.08.19	11.37	Fault alarm appeared.
		07.09.19	06.05	07.09.19	12.10	High DP.
		17.11.19	06.15	20.11.19	12.00	
		11.12.19	10.00	11.12.19	18.00	Boroscopic Inspection of GT # 1
		21.12.19	17.51	21.12.19	20.56	Loss of flame
		27.12.19	23.19	28.12.19	02.50	Due to problem in 400 KV Bus 2 at CCGT Bawana switchyard and damage in gen ckt brkr of STG 1 ,
		17.01.20	07.04	17.01.20	14.29	Combustion problem.
		17.01.20	18.50	17.01.20	19.44	High exhaust spread

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
2	216	21.06.19	17.30	21.06.19	21.42	Machine stopped for attending oil leakage in trip oil line.
		07.09.19	07.00	08.09.19	06.00	High intake air filter fault.
		12.11.19	13.30	12.11.19	17.32	GT#2 tripped on High exhaust spread due to cold zone in TTX 18-22
		15.11.19	00.18	15.11.19	14.05	Unit unloaded on high DP
		02.01.20	14.48	02.01.20	16.48	Generator protection fault.

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG-1	254	01.05.19	00.00	01.05.19	12.00	Transformer testing by PGCIL
		15.05.19	07.42	18.05.19	12.00	Dislodging of R phaee CT of excitation transformer from its base plate and filling on transformer enclosure was cause of tripping.
		11.06.19	13.35	11.06.19	15.41	Machine Tripped on closure of HPMS-39.
		26.06.19	10.09	26.06.19	12.02	Machine Tripped on Guillotine damper feedback close .
		04.08.19	16.25	04.08.19	23.40	Tripped due to control oil leakage.
		07.08.19	12.35	07.08.19	12.35	Unit tripped due to GT Unit f#3 tripped
		11.08.19	00.05	11.08.19	11.39	Oil level very low, oil leakage.
		12.11.19	14.02	12.11.19	18.10	Half of STG taken out of DC due trip of GT#2
		15.11.19	00.18	15.11.19	14.05	Half of STG taken out of DC due unloading of GT#2
		17.11.19	06.15	20.11.19	12.00	Half of STG taken out of DC due tripping of GT#1
		11.12.19	10.00	11.12.19	18.00	Boroscopic Inspection of GT # 1
		21.12.19	17.51	21.12.19	20.56	Loss of flame
		27.12.19	23.19	28.12.19	02.50	Due to problem in 400 KV Bus 2 at CCGT Bawana switchyard and damage in gen ckt brkr of STG 1 ,
		02.01.20	14.48	02.01.20	18.35	DC reduced on STG due to tripping of GT#2
		17.01.19	07.04	17.01.19	14.29	DC reduced on STG due to tripping of GT#1
		17.01.20	18.50	17.01.20	21.15	DC reduced on STG due to tripping of GT#1

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
3	216	29.04.19	20.18	29.04.19	21.37	Malfunctioning of compressor bleed valve brought machine on FSNL.
		02.05.19	12.16	02.05.19	12.54	Machine came on FSNL itself due to problem in excitation.
		27.05.19	11.58	27.05.19	13.41	Gas leakage
		03.08.19	13.31	03.08.19	13.31	Tripped due to high DP
		17.08.19	10.00	17.08.19	18.00	Boroscopic inspection by OEM.
		29.08.19	18.00	30.08.19	01.15	Unit tripped due to generator proection.
		21.10.19	00.00	26.10.19	18.00	Attended leakage of Hydrogen from Generator cooler,Seal oil system line modification work done.
		28.12.19	06.15	28.12.19	19.00	Due to problem in 400KV Bus 2 at CCGT Bawana switchyard and damage in gen ckt brkr of STG 1 ,

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
4	216	01.04.19	00.00	04.04.19	13.00	Unit kept out due to leakage of pressure.
		04.04.19	13.00	08.04.19	20.00	
		19.09.19	11.12	19.09.19	15.00	Loss of flame.
		09.10.19	14.00	20.10.19	23.59	Mastr Trip relay upgradation and diverter damper seal replacement & rectification.
		16.12.19	04.38	16.12.19	17.05	Unit taken out of DC due to High Inlet Air DP i.e. 8.03
		28.12.19	06.15	28.12.19	19.00	Due to problem in 400KV Bus 2 at CCGT Bawana switchyard and damage in gen ckt brkr of STG 1 ,

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
STG-2	254	01.04.19	00.00	04.04.19	13.00	Replacement of R phase bushing of STGT Transformer.
		15.05.19	07.44	15.05.19	13.21	Unit tripped on instantaneous high set element of stand by E/F protection of generator transformer
		27.05.19	11.58	27.05.19	14.00	Gas leakage.
		03.07.19	22.30	04.07.19	16.30	Oil leakage in JOP Line.
		26.07.19	12.15	26.07.19	13.33	STG#2 tripped at 12:15 hrs.Fault in B-phase of ICT-2 of 400 KV, DTL led to heavy fault current which led to tripping of STG#2.Settings of overhead differential relays have been reviewd to avoid fault outside the zone of Transformer Protection.
		03.08.19	11.48	03.08.19	13.44	Due tripping of GT-2
		17.08.19	10.00	17.08.19	18.00	Boroscopic inspection by OEM.
		29.08.19	18.00	30.08.19	01.15	Unit tripped due to generator proection.
		09.10.19	14.00	14.10.19	06.00	GT#4 under PO so half STG taken out from DC
		14.10.19	06.00	21.10.19	13.30	Planned Outage of condenser cleaning
		21.10.19	13.30	26.10.19	18.00	GT#3 under PO so half STG taken out from DC
		16.11.19	09.48	16.11.19	12.15	Unit tripped on Generator stator earth fault protection
		16.12.19	04.38	17.12.19	00.00	Taken out of DC due to problem in HP #4 valve in HRSG #4.
		28.12.19	06.15	30.12.19	14.00	Due to problem in 400KV Bus 2 at CCGT Bawana switchyard and damage in gen ckt brkr of STG 1 ,

4 ALLOCATION OF POWER TO DELHI

A) Time block 00.00hrs. to 24.00hrs. @ 0% allocation from Unallocated Quota from 01.09.2019

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	134	0	0	134
Rihand-I	1000	150	100	89	0	0	89
Rihand Stage -II	1000	150	126	115	0	0	115
Rihand Stage -III	1000	150	132	120	0	0	120
ANTA GPS	419	63	44	41	0	0	41
Auriya GPS	663.36	99	72	68	0	0	68
Dadri GPS	829.78	129	91	86	0	0	86
Dadri NCTPS (Th)	840	0	756	668	0	0	668
Dadri NCTPS (Th) Stage-II	980	147	152	139	0	0	139
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
Unchahaar-IV TPS	500	75	0	0	0	0	0
TOTAL	**10282**	**1377**	**1723**	**1546**	**0**	**0**	**1546**
NHPC							
Baira Suil HPS	180	0	20	19	0	0	19
Salal HPS	690	0	80	77	0	0	77
Tanakpur HEP	94	0	12	12	0	0	12
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	51	0	0	51
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
Singrauli small hydro	8	0	1.53	1	0	0	1
TOTAL	**4073**	**272**	**480**	**458**	**0**	**0**	**458**
NPC							
Narora APS	440	64	47	40	0	0	40
RAPP (C)	440	64	56	49	0	0	49
TOTAL	**880**	**128**	**103**	**88**	**0**	**0**	**88**
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	38	0	0	38
TOTAL	**1400**	**139**	**102**	**98**	**0**	**0**	**98**
Total	**18135**	**2065**	**2550**	**2326**	**0**	**0**	**2326**
Allocation from ER and Tala HEP							
Farakka	1600	0	22	20	0	0	20
Kahalgaon	840	0	51	45	0	0	45
Tala HEP	1020	153	30	29	0	0	29
Kahalgaon-II	1500	0	157	139	0	0	139
Total ER	**4960**	**153**	**261**	**232**	**0**	**0**	**232**
Joint Venture							
Jhajjar TPS	1500	114	693	634	0	0	634
Ultra Mega Projects							
Sasan	3960	0	446	404	0	0	404
Grand Total	**28555**	**2332**	**3949**	**3596**	**0**	**0**	**3596**

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 JANUARY 2020

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	10.45.00	0	42	148	285	15	0	0	0	490	4736	4759	-23	5226	0	5226
2	10.29.51	0	42	158	274	14	2	0	0	490	4314	4295	19	4804	0	4804
3	10.01.25	0	42	155	251	10	-1	0	0	457	4354	4273	81	4811	0	4811
4	10.30.00	0	42	152	260	16	-1	0	0	469	3786	3827	-41	4255	0	4255
5	10.37.54	0	42	150	231	2	-1	0	0	424	3809	3848	-39	4233	0	4233
6	10.58.12	0	42	157	311	18	-1	-1	0	526	3947	3877	70	4473	0	4473
7	10.10.35	0	42	157	289	16	-1	-1	0	502	3897	3857	40	4399	0	4399
8	10.32.38	0	42	153	276	15	0	-1	0	485	3855	3784	71	4340	0	4340
9	10.18.15	0	42	152	316	16	0	-1	0	525	4160	4043	117	4685	0	4685
10	10.04.57	0	43	154	451	17	0	0	0	665	4210	4121	89	4875	0	4875
11	10.00.52	0	43	155	461	17	0	0	0	676	3877	3714	163	4553	0	4553
12	10.34.58	0	42	153	489	19	0	0	0	703	3842	3636	206	4545	0	4545
13	10.35.50	0	42	156	477	17	0	0	0	692	3798	3704	94	4490	0	4490
14	09.58.15	0	42	153	471	18	1	0	0	685	3915	3822	93	4600	0	4600
15	10.02.38	0	42	155	453	18	-1	-1	0	666	3907	3839	68	4573	0	4573
16	10.18.36	0	42	155	475	18	8	12	0	710	3692	3513	179	4402	0	4402
17	10.17.00	0	42	142	115	18	0	7	0	324	4278	4063	215	4602	0	4602
18	10.01.25	0	43	133	448	18	0	6	0	648	3672	3809	-137	4320	0	4320
19	11.02.49	0	42	155	478	16	2	18	0	711	3867	3799	68	4578	0	4578
20	10.08.33	0	44	153	451	17	2	17	0	684	3969	3881	88	4653	0	4653
21	10.00.45	0	41	156	446	15	3	17	0	678	3790	3835	-45	4468	0	4468
22	10.02.20	0	42	130	456	17	-1	19	0	663	3967	3900	67	4630	0	4630
23	09.46.00	0	41	155	447	19	6	19	0	687	3714	3706	8	4401	0	4401
24	10.01.46	0	42	155	534	14	3	16	0	764	3868	3993	-125	4632	0	4632
25	10.00.25	0	41	158	449	17	8	19	0	692	3613	3646	-33	4305	0	4305
26	09.56.06	0	41	156	539	17	8	19	0	780	2984	3041	-57	3764	0	3764
27	10.41.34	0	41	158	449	16	8	17	0	689	3604	3526	78	4293	0	4293
28	10.24.57	0	39	156	446	18	8	14	0	681	3637	3506	131	4318	0	4318
29	10.03.29	0	42	154	474	19	0	16	0	705	3666	3677	-11	4371	0	4371
30	10.37.09	0	41	156	423	16	4	17	0	657	3523	3471	52	4180	0	4180
31	10.00.29	0	40	158	500	17	2	16	0	733	3751	3706	45	4484	0	4484

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

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	10.45.00	0	42	148	285	15	0	0	0	490	4736	4759	-23	5226	0	5226
2	10.29.51	0	42	158	274	14	2	0	0	490	4314	4295	19	4804	0	4804
3	10.01.25	0	42	155	251	10	-1	0	0	457	4354	4273	81	4811	0	4811
4	10.30.00	0	42	152	260	16	-1	0	0	469	3786	3827	-41	4255	0	4255
5	10.37.54	0	42	150	231	2	-1	0	0	424	3809	3848	-39	4233	0	4233
6	10.58.12	0	42	157	311	18	-1	-1	0	526	3947	3877	70	4473	0	4473
7	10.10.35	0	42	157	289	16	-1	-1	0	502	3897	3857	40	4399	0	4399
8	10.32.38	0	42	153	276	15	0	-1	0	485	3855	3784	71	4340	0	4340
9	10.18.15	0	42	152	316	16	0	-1	0	525	4160	4043	117	4685	0	4685
10	10.04.57	0	43	154	451	17	0	0	0	665	4210	4121	89	4875	0	4875
11	10.00.52	0	43	155	461	17	0	0	0	676	3877	3714	163	4553	0	4553
12	10.34.58	0	42	153	489	19	0	0	0	703	3842	3636	206	4545	0	4545
13	10.35.50	0	42	156	477	17	0	0	0	692	3798	3704	94	4490	0	4490
14	09.58.15	0	42	153	471	18	1	0	0	685	3915	3822	93	4600	0	4600
15	10.02.38	0	42	155	453	18	-1	-1	0	666	3907	3839	68	4573	0	4573
16	10.18.36	0	42	155	475	18	8	12	0	710	3692	3513	179	4402	0	4402
17	10.17.00	0	42	142	115	18	0	7	0	324	4278	4063	215	4602	0	4602
18	10.01.25	0	43	133	448	18	0	6	0	648	3672	3809	-137	4320	0	4320
19	11.02.49	0	42	155	478	16	2	18	0	711	3867	3799	68	4578	0	4578
20	10.08.33	0	44	153	451	17	2	17	0	684	3969	3881	88	4653	0	4653
21	10.00.45	0	41	156	446	15	3	17	0	678	3790	3835	-45	4468	0	4468
22	10.02.20	0	42	130	456	17	-1	19	0	663	3967	3900	67	4630	0	4630
23	09.46.00	0	41	155	447	19	6	19	0	687	3714	3706	8	4401	0	4401
24	10.01.46	0	42	155	534	14	3	16	0	764	3868	3993	-125	4632	0	4632
25	10.00.25	0	41	158	449	17	8	19	0	692	3613	3646	-33	4305	0	4305
26	09.56.06	0	41	156	539	17	8	19	0	780	2984	3041	-57	3764	0	3764
27	10.41.34	0	41	158	449	16	8	17	0	689	3604	3526	78	4293	0	4293
28	10.24.57	0	39	156	446	18	8	14	0	681	3637	3506	131	4318	0	4318
29	10.03.29	0	42	154	474	19	0	16	0	705	3666	3677	-11	4371	0	4371
30	10.37.09	0	41	156	423	16	4	17	0	657	3523	3471	52	4180	0	4180
31	10.00.29	0	40	158	500	17	2	16	0	733	3751	3706	45	4484	0	4484

8 SOURCEWISE SCHEDULED DRAWL FROM NORTHERN GRID AS WELL AS AVAILABILITY WITHIN DELHI FOR JANUARY 2020

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

A (i) RPH	0.000
(ii) GT+STG	34.912
(iii) PRAGATI	120.255
(iv) RITHALA	0.000
(v) BAWANA CCGT	262.107
(vi) Timarpur – Okhla	13.493
EDWPCL	3.773
DMSWL	9.637
TOTAL	444.177
B) AVAILABILITY FROM BTPS	-0.520
C) AUXILIARY CONSUMPTION OF GENERATING STNs. EXCLUDING BTPS	17.737
D) NET GENERATION AVAILABLE WITHIN DELHI(A+B-C)	**425.920**

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	3.892	3.813	3.892	3.813
SALAL	16.317	15.945	16.317	15.945
SASAN	303.845	295.790	301.781	293.780
TANKAPUR	2.390	2.324	2.390	2.324
CHAMERA	7.142	6.997	7.142	6.997
CHAMERA -II	5.392	5.269	5.392	5.269
CHAMERA -III	3.112	3.049	3.097	3.034
DHAULIGANGA	4.212	4.095	4.212	4.095
SEWA -2	7.076	6.914	7.076	6.914
URI	26.309	25.709	26.309	25.709
URI-II	16.960	16.615	16.960	16.615
KOLDAM	0.000	0.000	0.000	0.000
KOTESHWAR	9.867	9.593	9.867	9.593
PARBATI3	1.773	1.732	1.773	1.732
RAMPUR	0.000	0.000	0.000	0.000
ANTA (GAS)	0.000	0.000	0.000	0.000
ANTA (RLNG)	20.869	20.085	0.000	0.000
ANTA (LIQUID)	5.657	5.445	0.000	0.000
DADRI (GAS)	15.665	15.343	10.397	10.183
DADRI (RLNG)	41.161	40.325	0.035	0.034
DADRI (LIQUID)	8.329	8.162	0.000	0.000
AURAIYA (GAS)	4.350	4.229	3.274	3.183
AURAIYA (RLNG)	23.161	22.522	0.098	0.095
AURAIYA (LIQUID)	26.426	25.691	0.000	0.000
SINGRAULI	95.705	92.343	88.586	85.474
SINGRAULI_HYDRO	0.233	0.224	0.233	0.224
RIHAND -I	66.943	64.590	59.951	57.844
RIHAND -II	87.857	84.770	82.648	79.743
RIHAND -III	89.625	87.249	86.056	83.775
UNCHAHAR-I	16.237	15.787	11.035	10.729
UNCHAHAR-II	31.667	30.789	21.480	20.884
UNCHAHAR-III	19.635	19.091	13.481	13.107
UNCHAHAR-IV	0.000	0.000	0.000	0.000
DADRI (TH)	514.701	504.255	63.036	61.781
DADRI (TH) STAGE-II	510.160	499.806	354.272	347.084
BRBCL (NABIPUR-BIHAR)	1.977	1.937	1.795	1.758
TALCHER FOR AUX. OF BTPS	0.965	0.939	0.965	0.939
NAPP	32.771	31.862	32.771	31.862
RAPP 'B'	0.000	0.000	0.000	0.000
RAPP 'C'	30.312	29.100	30.312	29.100
NATHPA JHAKRI	19.606	19.063	19.606	19.063
DULASTI	12.219	11.941	12.219	11.941

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
TEHRI	17.324	16.844	17.324	16.844
JHAJJAR	344.470	337.462	0.403	0.394
KHELGAON	33.208	32.625	25.055	24.616
KHELGAON-II	92.751	91.117	77.676	76.306
FARAKA	12.844	12.618	9.031	8.873
TALA	1.965	1.911	1.965	1.911
DVC	213.875	212.281	212.281	210.112
TUTICORIN - BRPL	10.934	10.838	10.838	10.727
MADHYA PRADESH	4.405	4.366	4.366	4.321
UTTAR PRADESH	0.000	0.000	0.000	0.000
WEST BENGAL	0.000	0.000	0.000	0.000
SCLTPS (UP)	0.000	0.000	0.000	0.000
TAMILNAIDU	14.882	14.750	14.750	14.599
SEIL PROJECT(ANDHRA PRADESH)	0.000	0.000	0.000	0.000
MEGHALAYA	1.721	1.718	1.718	1.701
ANDHRA	3.117	3.090	3.090	3.058
KARNATAKA	6.808	6.696	6.696	6.628
ESSAR_MAHAN (MP)	0.000	0.000	0.000	0.000
METHON POWER(NDPL)LT-06	165.339	164.106	164.106	162.429
DVC MEJIA (LT-08)(BYPL)	67.756	67.253	67.253	66.567
Acme_RUMS	9.623	9.536	9.536	9.439
Arinsun_RUMS	9.448	9.363	9.363	9.267
Mahindra_RUMS	7.117	7.053	7.053	6.981
URS	0.218	0.216	0.218	0.216
JAMMU & KASHMIR	5.258	5.191	5.191	5.138
HIMACHAL PRADESH	4.939	4.888	4.888	4.839
JHABUA (MP)	0.000	0.000	0.000	0.000
GUJRAT	0.038	0.038	0.038	0.037
FSTPP-III(WEST BENGAL)	0.000	0.000	0.000	0.000
BGTPP (ASSAM)	0.000	0.000	0.000	0.000
HIMACHAL PRADESH LT-59 DVC	0.877	0.868	0.868	0.859
HARYANA (LT-05)	55.668	55.100	55.100	54.538
MP(SOLAR RUMS)	12.652	12.539	12.539	12.412
HP TPDDL (NANTI)	0.492	0.487	0.487	0.482
BIHAR	0.088	0.088	0.088	0.087
ODHISHA	3.571	3.535	3.535	3.499
ORISSA MT-20 JITPL -DVC	5.727	5.670	5.670	5.612
D.B. POWER (CHATTISHGARH)	0.000	0.000	0.000	0.000
JHARKHAND	0.000	0.000	0.000	0.000
RAJASTHAN(SOLAR) BRPL-LT36	3.286	3.195	3.195	3.163
RAJASTHAN(SOLAR) BYPL - LT-35	3.097	3.011	3.011	2.981
RAJASTHAN(SOLAR) TPDDL LT-31	3.131	3.044	3.044	3.013
HP TARANDA (RAILWAYS)	0.664	0.657	0.657	0.650
TO JHARKHAND	0.000	0.000	0.000	0.000
TO ANDHRA	0.000	0.000	0.000	0.000
TO UTTAR PRADESH	0.000	0.000	0.000	0.000
TO WEST BENGAL	0.000	0.000	0.000	0.000
TO MEGHALAYA	-2.925	-2.990	-2.990	-3.021
TO UTTRAKHAND	0.000	0.000	0.000	0.000
TO ODISHA	0.000	0.000	0.000	0.000
TO TELENGANA	0.000	0.000	0.000	0.000
TO GOA	0.000	0.000	0.000	0.000
TO CHATTISHGARH	0.000	0.000	0.000	0.000
TO DADAR & NAGAR HAVELI	0.000	0.000	0.000	0.000
BTPS TO MP	0.000	0.000	0.000	0.000
TO HIMACHAL PRADESH	-293.235	-300.048	-300.048	-303.142
TO GUJRAT	0.000	0.000	0.000	0.000
POWER EXCHANGE(IEX)	305.017	301.923	305.017	301.923
TO POWER EXCHANGE (IEX)	-96.452	-97.450	-96.452	-97.450
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)	-25.080	-25.340	-25.080	-25.340
TO SHARE PROJECT (PUNJAB)	-22.968	-23.207	-22.968	-23.207
TOTAL	**3066.169**	**2988.432**	**1896.966**	**1846.681**

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	1580.359	1542.643	796.374	775.897
NTPC - ER	138.803	136.360	111.762	109.795
NHPC	106.795	104.402	106.780	104.387
NPC	63.082	60.962	63.082	60.962
SASAN	303.845	295.790	301.781	293.780
KOTESHWAR	9.867	9.593	9.867	9.593
NATHPA JHAKRI	19.606	19.063	19.606	19.063
TALCHER FOR AUX. OF BTPS	0.965	0.939	0.965	0.939
TEHRI	17.324	16.844	17.324	16.844
TALA	1.965	1.911	1.965	1.911
JHAJJAR	344.470	337.462	0.403	0.394
RAJASTHAN SOLAR(BRPL)T-36	3.286	3.195	3.195	3.163
RAJASTHAN SOLAR(BYPL)T-35	3.097	3.011	3.011	2.981
RAJASTHAN SOLAR(TPDDL)T-31	3.131	3.044	3.044	3.013
DVC	213.875	212.281	212.281	210.112
TUTICORIN BRPL	10.934	10.838	10.838	10.727
MADHYA PRADESH	4.405	4.366	4.366	4.321
UTTAR PRADESH	0.000	0.000	0.000	0.000
WEST BENGAL	0.000	0.000	0.000	0.000
SCLTPS (UP)	0.000	0.000	0.000	0.000
TAMILNAIDU	14.882	14.750	14.750	14.599
SEIL PROJECT(ANDHRA PRADESH)	0.000	0.000	0.000	0.000
MEGHALAYA	1.721	1.718	1.718	1.701
ANDHRA	3.117	3.090	3.090	3.058
KARNATAKA	6.808	6.696	6.696	6.628
ESSAR_MAHAN (MP)	0.000	0.000	0.000	0.000
METHON POWER (NDPL)-LT-06	165.339	164.106	164.106	162.429
DVC MEJIA (LT-08)(BYPL)	67.756	67.253	67.253	66.567
Acme_RUMS	9.623	9.536	9.536	9.439
Arinsun_RUMS	9.448	9.363	9.363	9.267
Mahindra_RUMS	7.117	7.053	7.053	6.981
URS	0.218	0.216	0.218	0.216
JAMMU & KASHMIR	5.258	5.191	5.191	5.138
HIMACHAL PRADESH	4.939	4.888	4.888	4.839
JHABUA (MP)	0.000	0.000	0.000	0.000
GUJRAT	0.038	0.038	0.038	0.037
FSTPP-III(WEST BENGAL)	0.000	0.000	0.000	0.000
BGTPP (ASSAM)	0.000	0.000	0.000	0.000
HP LT-59 DVC(SURYA KANTA)	0.877	0.868	0.868	0.859
HARYANA (LT -05)	55.668	55.100	55.100	54.538
BIHAR	0.088	0.088	0.088	0.087
ODISHA	3.571	3.535	3.535	3.499
ORISSA MT-20 JITPL -DVC	5.727	5.670	5.670	5.612
D.B. POWER (CHATTISHGARH)	0.000	0.000	0.000	0.000
JHARKHAND	0.000	0.000	0.000	0.000
MP(SOLAR RUMS)	12.652	12.539	12.539	12.412
HP TPDDL (NANTI)	0.492	0.487	0.487	0.482
HP TRANDA (RAILWAYS)	0.664	0.657	0.657	0.650
POWER EXCHANGE(IEX)	305.017	301.923	305.017	301.923
POWER EXCHANGE(PX)	0.000	0.000	0.000	0.000
TOTAL	3506.830	3437.467	2344.505	2298.842

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

NAME OF THE STATION	AVAILABILITY AT POWER PLANT	AVAILABILITY AT PERIPHERY	ALLOCATION MADE BY NRLDC AT POWER PLANT	ALLOCATION MADE BY NRLDC AT POWER PERIPHERY
TO JHARKHAND	0.000	0.000	0.000	0.000
TO ANDHRA	0.000	0.000	0.000	0.000
TO UTTAR PRADESH	0.000	0.000	0.000	0.000
TO WEST BENGAL	0.000	0.000	0.000	0.000
TO UTTRAKHAND	0.000	0.000	0.000	0.000
TO MEGHALAYA	-2.925	-2.990	-2.990	-3.021
TO ORIDSHA	0.000	0.000	0.000	0.000
TO TELENGANA	0.000	0.000	0.000	0.000
TO GOA	0.000	0.000	0.000	0.000
TO CHATTISHGARH	0.000	0.000	0.000	0.000
TO DADAR & NAGAR HAVELI	0.000	0.000	0.000	0.000
BTPS TO MP	0.000	0.000	0.000	0.000
TO HIMACHAL PRADESH	-293.235	-300.048	-300.048	-303.142
TO GUJRAT	0.000	0.000	0.000	0.000
TO POWER EXCHANGE (IEX)	-96.452	-97.450	-96.452	-97.450
TO POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
TO SHARE PROJECT (HARYANA)	-25.080	-25.340	-25.080	-25.340
TO SHARE PROJECT (PUNJAB)	-22.968	-23.207	-22.968	-23.207
TOTAL	**-440.661**	**-449.035**	**-447.539**	**-452.160**
TOTAL SCHEDULED DRAWAL FROM THE GRID	**3066.169**	**2988.432**	**1896.966**	**1846.681**

TOTAL CONSUMPTION INCLUDING AUX. OF GENERATING STNs. EXCLUDING BTPS		2313.144
NET CONSUMPTION		**2294.025**
AVAILABILITY WITHIN DELHI		455.622
ACTUAL DRAWAL FROM THE GRID		1838.403
OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID ON THE BASIS OF SCHEDULED ALLOCATION MADE BY NRLDC TO DELHI AT PERIPHERY		-8.278
LOAD SHEDDING		0.260
UNRESTRICTED DEMAND (GROSS)		2313.404
UNRESTRICTED DEMAND (NET)		2294.285
MAX. NET CONSUMPTION		84.539 ON 01.01.2020
MAX. LOAD SHEDDING		105MW ON 08.01.2020 AT 10.41HRS.
PEAK LOAD	Peak Demand during the month	SHEDDING AT PEAK TIME
DAY PEAK	5226MW AT 10.45 HRS ON 01.01.2020	0 MW
EVENING PEAK	3976MW AT 18.00HRS ON 02.01.2020	0 MW
P.L.F. OF GENCO AND PRAGATI STNs.	RPH	0.00%
	GT	15.78%
	PRAGATI	48.74%
	RITHALA	0.00%
	BAWANA	29.46%
	Timarpur Okhla	116.94%
	EDWPCL	31.42%
	DMSWL	37.25%

9 SHEDDING DETAILS DURING THE MONTH OF JANUARY 2020.

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

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.20	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
02.Jan.20	0.011	0.000	0.001	0.000	0.000	0.000	0.004	0.000	0.000
03.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.058	0.000	0.000
04.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
05.Jan.20	0.001	0.000	0.002	0.000	0.000	0.000	0.011	0.000	0.000
06.Jan.20	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
07.Jan.20	0.000	0.000	0.000	0.000	0.000	0.003	0.002	0.000	0.000
08.Jan.20	0.003	0.006	0.006	0.000	0.000	0.003	0.006	0.002	0.000
09.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.000	0.000
10.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.006	0.000
11.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13.Jan.20	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
14.Jan.20	0.000	0.001	0.000	0.000	0.000	0.000	0.005	0.000	0.000
15.Jan.20	0.000	0.007	0.000	0.000	0.000	0.002	0.000	0.000	0.000
16.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.Jan.20	0.000	0.000	0.000	0.000	0.000	0.003	0.012	0.003	0.000
18.Jan.20	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.000	0.000
19.Jan.20	0.000	0.000	0.005	0.000	0.000	0.000	0.006	0.000	0.000
20.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000
21.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.014	0.002	0.000
22.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000
24.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.Jan.20	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28.Jan.20	0.008	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000
29.Jan.20	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000
30.Jan.20	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.000	0.000
31.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	**0.034**	**0.024**	**0.015**	**0.000**	**0.000**	**0.013**	**0.155**	**0.016**	**0.000**

ALL FIGURES IN MUs

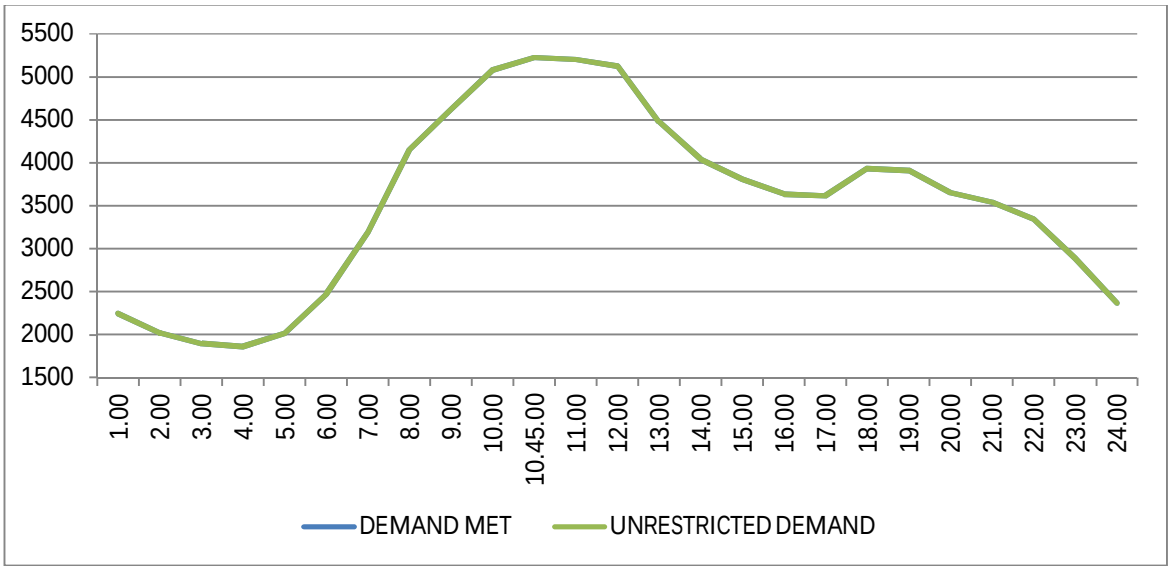
DATE	OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.				THEFT PRONE SHEDDING			TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE	GRAND TOTAL
	BSES		NDPL	NDMC	BSES		NDPL		
	BYPL	BRPL			BYPL	BRPL			
1	35	36	37	38	39	40	41	42= 26 to 41	43 = 25 + 42
01.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.001**	**0.001**
02.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.016**	**0.016**
03.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.058**	**0.058**
04.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.000**
05.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.014**	**0.014**
06.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.003**	**0.003**
07.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.005**	**0.005**
08.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.026**	**0.026**
09.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.004**	**0.004**
10.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.021**	**0.021**
11.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.000**
12.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.000**
13.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.002**	**0.002**
14.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.006**	**0.006**
15.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.009**	**0.009**
16.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.000**
17.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.018**	**0.018**
18.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.004**	**0.004**
19.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.011**	**0.011**
20.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.002**	**0.002**
21.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.016**	**0.016**
22.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.000**
23.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.009**	**0.009**
24.Jan.20	0.000	0.000	0.003	0.000	0.000	0.000	0.000	**0.003**	**0.003**
25.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.000**
26.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.000**
27.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.010**	**0.010**
28.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.010**	**0.010**
29.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.009**	**0.009**
30.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.002**	**0.002**
31.Jan.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.000**
TOTAL	**0.000**	**0.000**	**0.003**	**0.000**	**0.000**	**0.000**	**0.000**	**0.260**	**0.260**

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.20	84.539	5226	10:45:00	0	5226	5226	10:45:00	5226	0
02.Jan.20	77.566	4804	10:29:51	0	4804	4804	10:29:51	4804	0
03.Jan.20	76.120	4811	10:01:25	0	4811	4811	10:01:25	4811	0
04.Jan.20	70.908	4255	10:30:00	0	4255	4255	10:30:00	4255	0
05.Jan.20	68.531	4233	10:37:54	0	4233	4233	10:37:54	4233	0
06.Jan.20	74.264	4473	10:58:12	0	4473	4473	10:58:12	4473	0
07.Jan.20	73.523	4399	10:10:35	0	4399	4399	10:10:35	4399	0
08.Jan.20	75.103	4340	10:32:38	0	4340	4340	10:32:38	4340	0
09.Jan.20	77.517	4685	10:18:15	0	4685	3960	10:18:15	4685	0
10.Jan.20	78.122	4875	10:04:57	0	4875	4875	10:04:57	4875	0
11.Jan.20	72.917	4553	10:00:52	0	4553	4553	10:00:52	4553	0
12.Jan.20	69.144	4545	10:34:58	0	4545	4545	10:34:58	4545	0
13.Jan.20	74.303	4490	10:35:50	0	4490	4490	10:35:50	4490	0
14.Jan.20	74.482	4600	9:58:15	0	4600	4600	9:58:15	4600	0
15.Jan.20	74.678	4573	10:02:38	0	4573	4573	10:02:38	4573	0
16.Jan.20	76.669	4402	10:18:36	0	4402	4402	10:18:36	4402	0
17.Jan.20	76.943	4602	10:17:00	0	4602	4602	10:17:00	4602	0
18.Jan.20	72.756	4320	10:01:25	0	4320	4320	10:01:25	4320	0
19.Jan.20	72.483	4578	11:02:49	0	4578	4578	11:02:49	4578	0
20.Jan.20	78.185	4653	10:08:33	0	4653	4563	10:08:33	4653	0
21.Jan.20	76.298	4468	10:00:45	0	4468	4468	10:00:45	4468	0
22.Jan.20	77.006	4630	10:02:20	0	4630	4630	10:02:20	4630	0
23.Jan.20	74.967	4401	9:46:00	0	4401	4401	9:46:00	4401	0
24.Jan.20	76.955	4632	10:01:46	0	4632	4632	10:01:46	4632	0
25.Jan.20	71.827	4305	10:00:25	0	4305	4305	10:00:25	4305	0
26.Jan.20	61.551	3764	9:56:06	0	3764	3764	9:56:06	3764	0
27.Jan.20	70.402	4293	10:41:34	0	4293	4293	10:41:34	4293	0
28.Jan.20	70.266	4318	10:24:57	0	4318	4318	10:24:57	4318	0
29.Jan.20	71.520	4371	10:03:29	0	4371	4371	10:03:29	4371	0
30.Jan.20	71.213	4180	10:37:09	0	4180	4180	10:37:09	4180	0
31.Jan.20	73.267	4484	10:00:29	0	4484	4484	10:00:29	4484	0
TOTAL	2294.025	5226 **01.01.20**	10:45	0	5226 **01.01.20**	5226	10:45	5226	0

10 LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING JANUARY 2020 ON 01.01.2020- 5226MW AT 10.45.00HRS.

All figures in MW

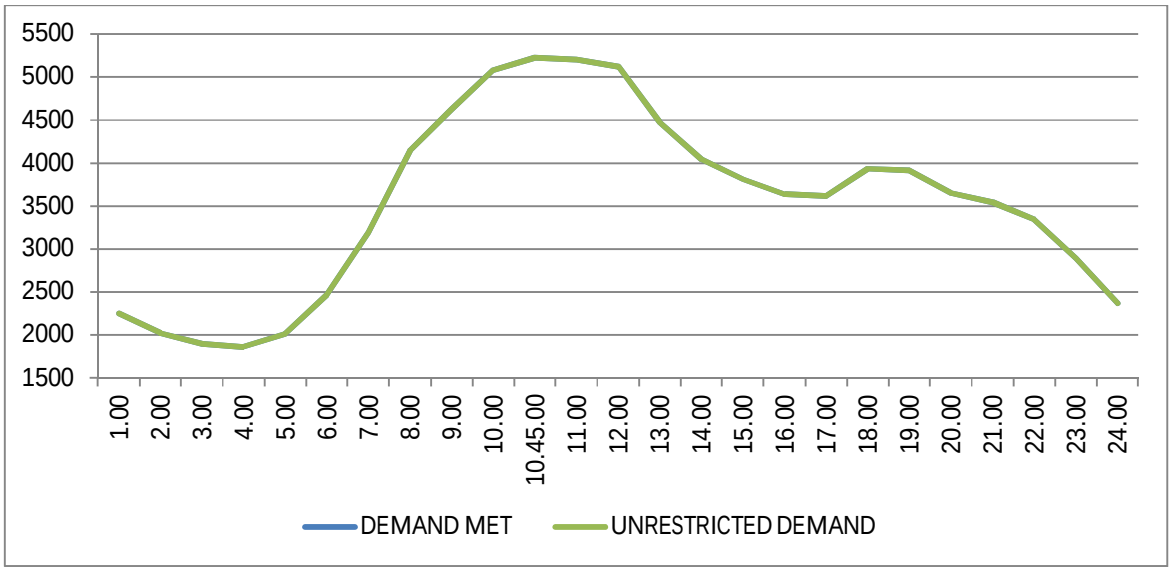
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	2248	0	2248
2.00	2021	0	2021
3.00	1897	0	1897
4.00	1864	0	1864
5.00	2015	0	2015
6.00	2472	0	2472
7.00	3197	0	3197
8.00	4150	0	4150
9.00	4625	0	4625
10.00	5081	0	5081
10.45.00	5226	0	5226
11.00	5203	0	5203
12.00	5121	0	5121
13.00	4476	0	4476
14.00	4040	0	4040
15.00	3807	0	3807
16.00	3634	0	3634
17.00	3612	0	3612
18.00	3935	0	3935
19.00	3908	0	3908
20.00	3651	0	3651
21.00	3539	0	3539
22.00	3347	0	3347
23.00	2892	0	2892
24.00	2368	0	2368
Total (IN MUS)	**84.539**	**0.000**	**84.539**



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING JANUARY 2020 ON 01.01.2020- 5226MW AT 10.45HRS.

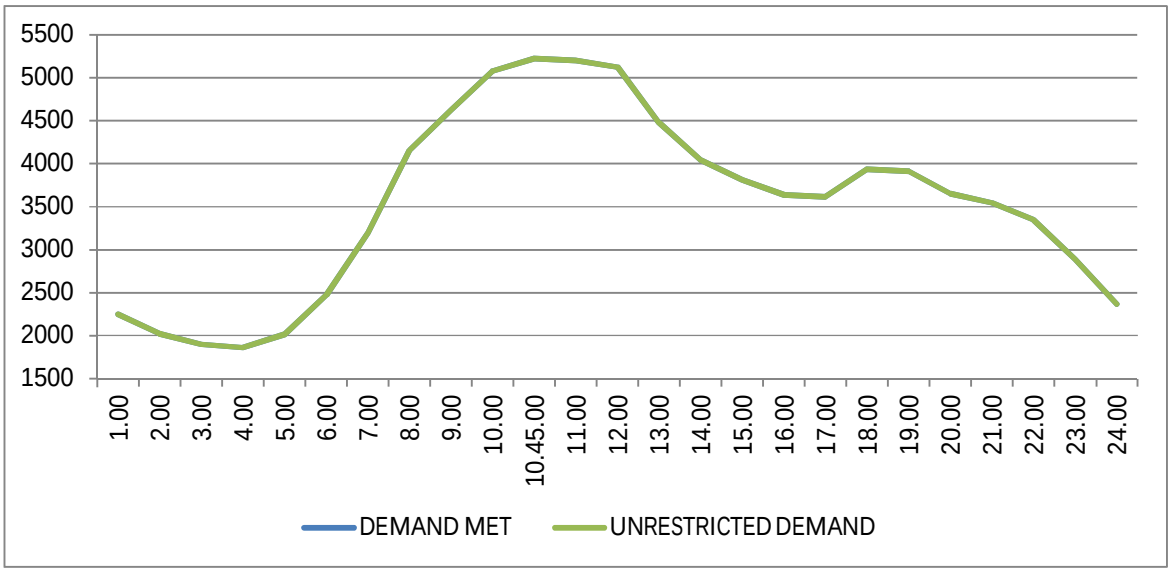
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	2248	0	2248
2.00	2021	0	2021
3.00	1897	0	1897
4.00	1864	0	1864
5.00	2015	0	2015
6.00	2472	0	2472
7.00	3197	0	3197
8.00	4150	0	4150
9.00	4625	0	4625
10.00	5081	0	5081
10.45.00	5226	0	5226
11.00	5203	0	5203
12.00	5121	0	5121
13.00	4476	0	4476
14.00	4040	0	4040
15.00	3807	0	3807
16.00	3634	0	3634
17.00	3612	0	3612
18.00	3935	0	3935
19.00	3908	0	3908
20.00	3651	0	3651
21.00	3539	0	3539
22.00	3347	0	3347
23.00	2892	0	2892
24.00	2368	0	2368
Total (IN MUS)	**84.539**	**0.000**	**84.539**



12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING JANUARY 2020 – 01.01.2020 – 84.539Mus All figures in MW

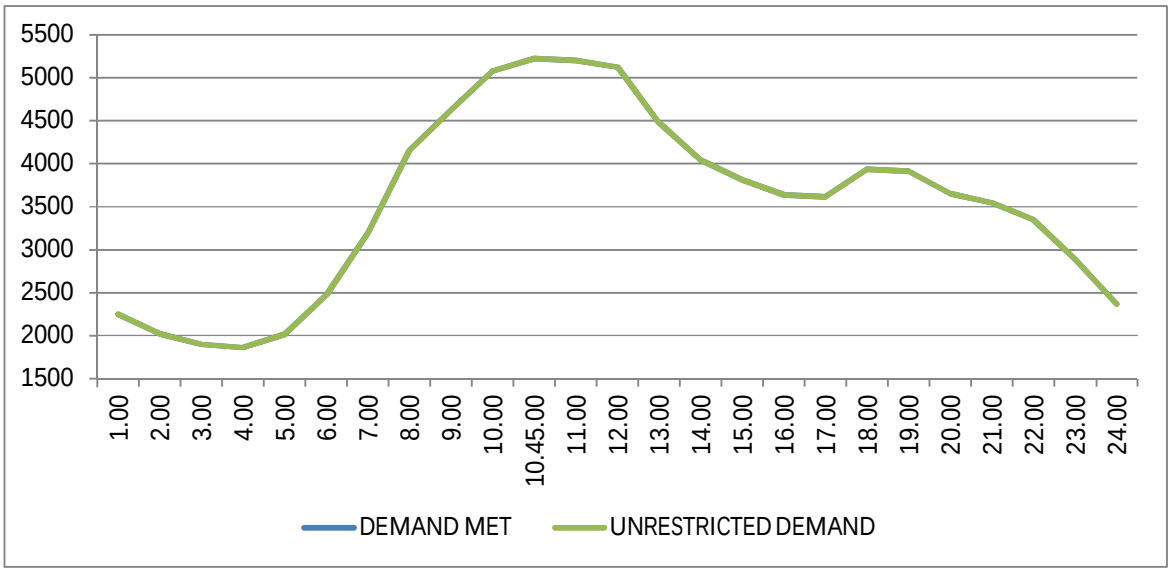
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	2248	0	2248
2.00	2021	0	2021
3.00	1897	0	1897
4.00	1864	0	1864
5.00	2015	0	2015
6.00	2472	0	2472
7.00	3197	0	3197
8.00	4150	0	4150
9.00	4625	0	4625
10.00	5081	0	5081
10.45.00	5226	0	5226
11.00	5203	0	5203
12.00	5121	0	5121
13.00	4476	0	4476
14.00	4040	0	4040
15.00	3807	0	3807
16.00	3634	0	3634
17.00	3612	0	3612
18.00	3935	0	3935
19.00	3908	0	3908
20.00	3651	0	3651
21.00	3539	0	3539
22.00	3347	0	3347
23.00	2892	0	2892
24.00	2368	0	2368
Total (IN MUS)	**84.539**	**0.000**	**84.539**



13 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING JANUARY 2020 – 01.01.2020 – 84.540 Mus

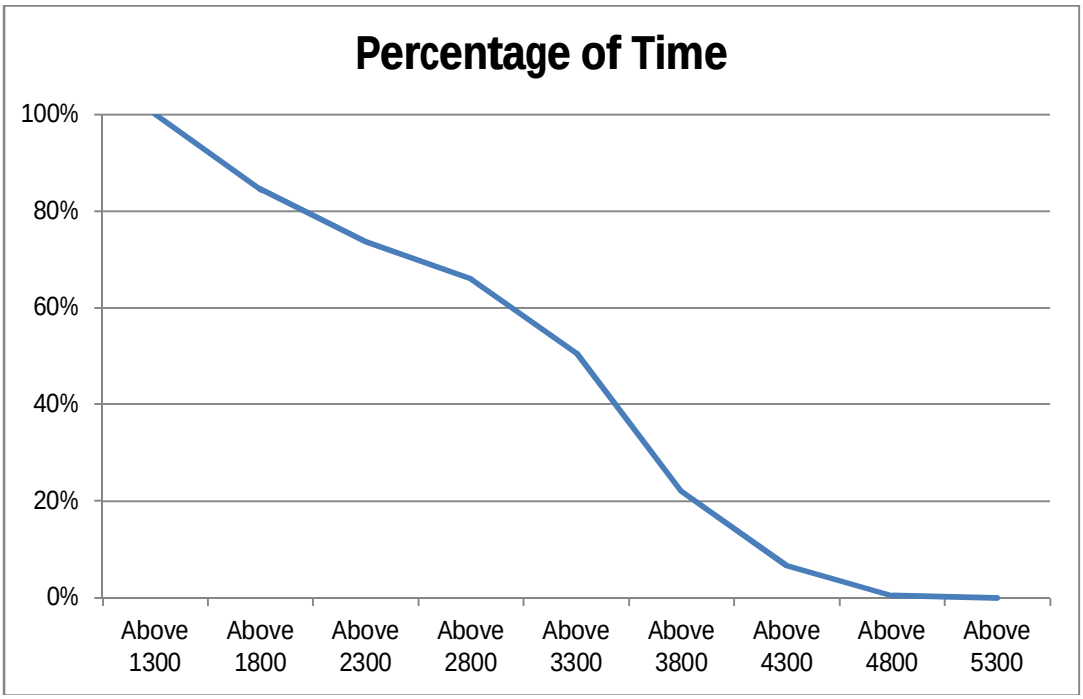
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	2248	0	2248
2.00	2021	0	2021
3.00	1897	0	1897
4.00	1864	0	1864
5.00	2015	0	2015
6.00	2472	0	2472
7.00	3197	0	3197
8.00	4150	0	4150
9.00	4625	0	4625
10.00	5081	0	5081
10.45.00	5226	0	5226
11.00	5203	0	5203
12.00	5121	0	5121
13.00	4476	0	4476
14.00	4040	0	4040
15.00	3807	0	3807
16.00	3634	0	3634
17.00	3612	0	3612
18.00	3935	0	3935
19.00	3908	0	3908
20.00	3651	0	3651
21.00	3539	0	3539
22.00	3347	0	3347
23.00	2892	0	2892
24.00	2368	0	2368
Total (IN MUS)	**84.539**	**0.000**	**84.539**



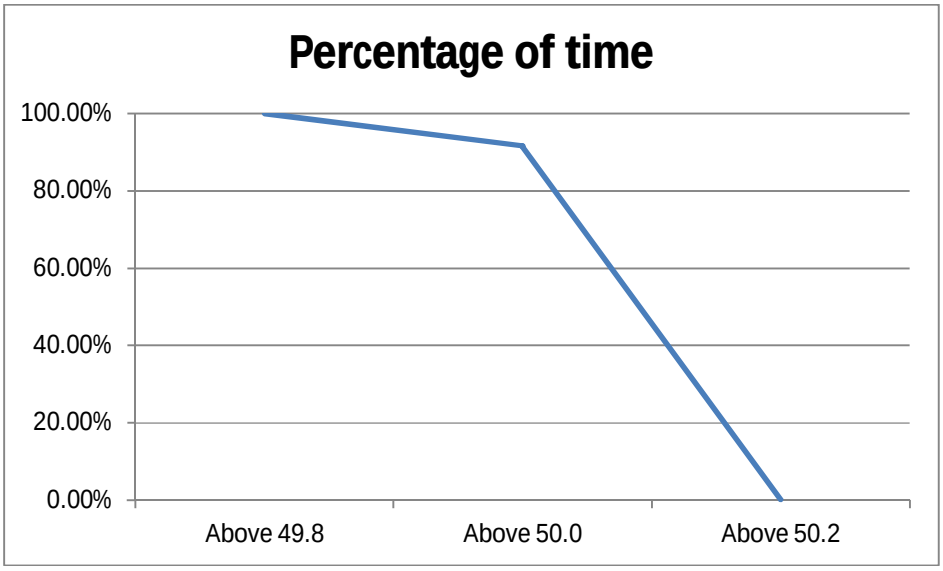
14 LOAD DURATION CURVE FOR JANUARY 2020

Load in MW	Percentage of Time
Above 1300	100%
Above 1800	84.47%
Above 2300	73.62%
Above 2800	65.99%
Above 3300	50.60%
Above 3800	22.14%
Above 4300	6.69%
Above 4800	0.50%
Above 5300	0.00%



15 FREQUENCY ANALYSIS FOR THE MONTH OF JANUARY 2020

Frequency Range in Hz.	Percentage of time
Above 49.8	100.00%
Above 50.0	91.60%
Above 50.2	0.17%



16 VOLTAGE PROFILE OF 220 KV SUB-STATIONS IN DELHI DURING JANUARY 2020

All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
01.Jan.20	236.4	220.79	242.33	225.3
02.Jan.20	235.75	220.53	242.84	225.56
03.Jan.20	234.72	218.21	241.04	222.47
04.Jan.20	234.72	220.4	234.33	234.33
05.Jan.20	235.62	220.15	234.33	234.33
06.Jan.20	235.36	220.15	234.33	234.33
07.Jan.20	235.36	218.34	240.26	234.33
08.Jan.20	235.62	221.18	242.2	226.85
09.Jan.20	235.36	219.5	242.33	226.34
10.Jan.20	234.72	220.4	242.2	224.92
11.Jan.20	234.72	217.82	242.2	221.18
12.Jan.20	235.75	221.56	241.81	226.59
13.Jan.20	234.98	223.63	243.62	227.63
14.Jan.20	235.11	222.34	242.07	227.88
15.Jan.20	234.72	220.15	242.33	202.86
16.Jan.20	235.23	217.18	242.72	228.92
17.Jan.20	235.11	220.92	242.07	226.72
18.Jan.20	234.46	220.92	242.33	226.08
19.Jan.20	235.23	223.11	243.49	228.14
20.Jan.20	236.27	221.56	244.13	226.98
21.Jan.20	234.59	221.56	242.2	226.85
22.Jan.20	234.59	219.89	241.04	224.01
23.Jan.20	233.95	219.63	240.14	225.43
24.Jan.20	235.23	220.15	242.2	48.49
25.Jan.20	234.33	220.79	115.04	0
26.Jan.20	234.07	222.34	115.55	109.88
27.Jan.20	234.59	220.4	115.16	108.85
28.Jan.20	236.01	223.37	239.1	110.01
29.Jan.20	232.66	223.76	239.88	224.66
30.Jan.20	234.46	222.34	240.52	226.59
31.Jan.20	233.82	219.63	239.23	130.51

17 VOLTAGE PROFILE OF 400 KV SUB-STATIONS IN DELHI DURING JANUARY 2020

All figures in kV

Date	400kV Bamnauli Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01.Jan.20	421.61	02:31	390.42	09:23	409.69
02.Jan.20	419.73	02:58	394.41	09:41	409.54
03.Jan.20	417.86	00:40	387.84	08:39	407.45
04.Jan.20	418.09	04:01	391.59	10:17	407.79
05.Jan.20	418.56	04:00	393.7	10:20	409.87
06.Jan.20	418.56	23:59	388.78	09:34	408.93
07.Jan.20	419.03	00:00	389.72	09:47	407.93
08.Jan.20	421.84	02:32	392.76	09:50	409.6
09.Jan.20	420.67	23:59	391.59	09:46	409.96
10.Jan.20	421.37	00:00	395.11	10:24	410.87
11.Jan.20	421.84	02:00	386.2	09:08	409.65
12.Jan.20	420.67	04:00	394.41	08:41	412.33
13.Jan.20	420.9	00:00	397.22	09:25	412.35
14.Jan.20	420.67	01:17	397.92	09:16	411.83
15.Jan.20	421.37	04:01	394.64	10:41	410.8
16.Jan.20	420.9	00:03	397.92	08:38	411.47
17.Jan.20	420.67	00:00	394.41	18:17	411.08
18.Jan.20	421.61	02:29	394.88	09:36	411.08
19.Jan.20	421.61	04:00	396.05	08:28	412.77
20.Jan.20	422.55	02:59	395.58	08:37	411.23
21.Jan.20	421.37	02:52	397.45	09:53	410.23
22.Jan.20	419.26	00:59	394.41	10:17	409.67
23.Jan.20	419.73	02:00	395.11	09:35	409.57
24.Jan.20	419.26	00:00	393.7	08:21	408.31
25.Jan.20	418.09	02:00	396.05	10:23	408.65
26.Jan.20	419.5	04:00	396.28	09:18	411.35
27.Jan.20	419.26	00:02	394.88	08:33	409.5
28.Jan.20	420.2	04:01	399.8	08:06	411.12
29.Jan.20	418.56	01:02	394.64	08:46	409.41
30.Jan.20	419.26	04:00	397.92	06:42	409.83
31.Jan.20	419.26	00:33	394.41	09:47	409.54

All figures in kV

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01.Jan.20	434.97	02:31	408.01	09:21	424.06
02.Jan.20	433.57	02:57	412.23	10:37	424.25
03.Jan.20	434.5	21:00	0	13:49	284.29
04.Jan.20	435.91	03:00	412.7	10:15	425.25
05.Jan.20	433.8	03:59	411.29	10:22	426.34
06.Jan.20	434.74	02:21	411.29	09:34	425.08
07.Jan.20	430.99	03:02	404.25	09:50	419.65
08.Jan.20	431.92	04:01	407.54	09:49	420.97
09.Jan.20	429.81	04:01	407.54	09:46	421.67
10.Jan.20	429.58	23:58	408.71	10:48	421.19
11.Jan.20	430.28	02:00	401.91	09:09	419.96
12.Jan.20	429.11	23:59	408.94	08:41	422.33
13.Jan.20	430.28	04:00	411.06	09:28	422.31
14.Jan.20	430.28	01:14	411.99	09:16	422.38
15.Jan.20	429.11	03:58	408.01	10:37	421.31
16.Jan.20	429.81	01:26	409.88	09:15	420.91
17.Jan.20	428.41	02:17	407.54	09:49	419.59
18.Jan.20	429.11	23:28	407.3	10:12	420.35
19.Jan.20	430.99	04:05	409.88	08:24	422.93
20.Jan.20	431.22	01:58	407.3	09:20	420.96
21.Jan.20	428.64	02:52	409.65	09:48	419.99
22.Jan.20	428.64	01:00	406.13	10:23	419.9
23.Jan.20	427.7	02:00	407.54	09:45	418.92
24.Jan.20	427.94	00:26	406.37	09:42	418.3
25.Jan.20	426.06	01:59	409.18	10:12	418.5
26.Jan.20	428.64	15:01	409.65	09:39	421.28
27.Jan.20	427.23	02:25	407.54	08:32	419.29
28.Jan.20	428.64	03:59	411.99	08:14	420.32
29.Jan.20	428.64	01:30	408.71	10:07	418.97
30.Jan.20	427.23	13:03	410.12	09:16	419.84
31.Jan.20	427.94	00:36	406.83	09:50	419.63

20 DETAILS OF BREAK-DOWNS DURING THE MONTH OF JANUARY 2020

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
1	2.1.20	01:17	GOPALPUR 220/33kV 100MVA Tx-III	2.1.20	01:52	TRIPPED WITHOUT INDICATION.
2	2.1.20	08:18	PATPARGANJ 220/33kV 100MVA Tx-IV	2.1.20	13:15	86
3	2.1.20	08:18	PATPARGANJ 220/33kV 100MVA Tx-III			86
4	2.1.20	08:43	220 KV PATPARGANJ - I.P. CKT-II	2.1.20	10:22	AT PATPARGANJ : WITHOUT INDICATION.
5	5.1.20	07:32	220kV PRAGATI - SARITA VIHAR CKT - I	5.1.20	07:44	AT SARITA VIHAR : DIST PROT, ZONE-I, DIST 3.403KM.
6	5.1.20	11:42	SUBZI MANDI 220/33kV 100MVA Tx-II	6.1.20	13:50	86
7	5.1.20	11:42	SUBZI MANDI 220/33kV 100MVA Tx-II	6.1.20	13:50	86
8	5.1.20	17:10	220KV GAZIPUR - MAHARANIBAGH CKT. -II	5.1.20	18:04	AT GAZIPUR : DIST PROT, ZONE-I, DIFFERENTIAL. AT MAHARANI BAGH : DIST PROT, ZONE-I, DIST 5.1KM, DIFFERENTIAL, 86.
9	5.1.20	21:45	SARITA VIHAR 220/66kV 100MVA Tx-III	5.1.20	23:50	TRIP COIL I & II, AUTO LOCKOUT.
10	6.1.20	10:32	PARKSTREET 220/33kV 100MVA Tx-II	6.1.20	11:07	O/C, E/F.
11	6.1.20	10:32	PARKSTREET 220/33kV 100MVA Tx-I	6.1.20	11:07	E/F.
12	6.1.20	10:32	PARKSTREET 220/33kV 100MVA Tx-I	6.1.20	11:07	E/F.
13	8.1.20	03:10	PAPPANKALAN-I 220/66KV 160MVA Tx-5	8.1.20	04:10	E/F
14	8.1.20	03:10	PAPPANKALAN-I 220/66kV 100MVA Tx-IV	8.1.20	11:26	E/F.
15	8.1.20	03:10	PAPPANKALAN-I 220/66kV 100MVA Tx-II	8.1.20	20:20	E/F
16	8.1.20	04:17	KANJHAWALA 220/66kV 160MVA Tx-I	8.1.20	07:53	OVERFLUX
17	9.1.20	11:39	400kV Mundka-Jhatikara Ckt-I	9.1.20	14:04	AT MUNDKA : 86B.
18	13.1.20	08:32	PARKSTREET 220/33kV 100MVA Tx-II	13.1.20	19:21	86
19	14.1.20	16:21	OKHLA 220/33kV 100MVA Tx-IV	14.1.20	16:31	E/F
20	14.1.20	16:21	OKHLA 220/33kV 100MVA Tx-III	14.1.20	16:31	O/C
21	17.1.20	00:05	KANJHAWALA 220/66kV 160MVA Tx-I	17.1.20	06:05	OVER FLUX, 86.
22	17.1.20	14:03	NARAINA 33/11kV, 16MVA Tx-I	17.1.20	22:30	O/C
23	19.1.20	11:20	220kV GOPALPUR- MANDOLACKT-II	19.1.20	13:05	AT GOPALPUR : 86. AT MANDOLA : DIST PROT, DIST 14.19KM.
24	21.1.20	17:36	400kV Mandola-Bawana Ckt-II	21.1.20	18:46	AT BAWANA : 86A&B
25	24.1.20	08:17	220kV MAHARANI BAGH - PRAGATI CKT	24.1.20	12:48	AT PRAGATI : 186, DIST PROT, ZONE-I, E/F, DIST 1.116KM.
26	24.1.20	08:17	220kV MAHARANI BAGH - PRAGATI CKT	24.1.20	12:48	AT PRAGATI : 186, DIST PROT, ZONE-I, E/F, DIST 1.116KM.
27	29.1.20	11:02	HARSH VIHAR 220/66KV 160MVA ICT-3	29.1.20	11:13	TRIPPED DUE TO DC.
28	29.1.20	11:02	HARSH VIHAR 220/66KV 160MVA ICT-2	29.1.20	11:13	TRIPPED DUE TO DC.
29	29.1.20	11:02	HARSH VIHAR 220/66KV 160MVA ICT-1	29.1.20	11:13	TRIPPED DUE TO DC.
30	29.1.20	20:57	400kV Dadri - Harsh Vihar Ckt. -II	29.1.20	22:21	AT HARSH VIHAR : 86, GEN TRIP, RYB PHASE, DC SOURCE I&II FAILED.
31	30.1.20	02:01	NARAINA 220/33kV 100MVA Tx-I	30.1.20	06:54	DIFFERENTIAL, 86.
32	30.1.20	19:08	SHALIMAR BAGH 220/33kV 100MVA Tx-I	30.1.20	19:25	DIFFERENTIAL TRIP.
33	31.1.20	02:27	NARAINA 220/33kV 100MVA Tx-I	31.1.20	06:05	OVERFULX
34	31.1.20	02:27	NARAINA 220/33kV 100MVA Tx-I	31.1.20	06:05	OVERFULX

20 DETAILS OF UNDER FREQUENCY RELAY OPERATIONS IN DELHI POWER SYSTEM DURING THE MONTH OF JANUARY 2020

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