DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

****

FEB - 2020

1 SALIENT FEATURES OF DELHI POWER SYSTEM

Sr. No.	Features	FEB 2019	FEB 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)**	**4398**	**4447**
	Date	03.02.2019	07.02.2020
	Time	10.20.56	09.55.25
3	**Peak Demand met (MW)**	**4386**	**4447**
	Date	03.02.2019	07.02.2020
	Time	10.20.56	09.55.25
4	Peak Availability (MW)	4108	4269
5	Shortage (-) / Surplus (+) in MW	(-) 278	(-) 178
6	Percentage Shortage (-) / Surplus (+)	(-) 6.34	(-) 4.00
7	Maximum Energy Consume in a day (Mus)	72.482	72.620
8	Energy Consumed during the month	**1855.490**	**1904.604**
9	**Load Shedding in Mus**		
A)	Due to Grid Restrictions		
i)	Under Frequency Relay Operations	0.002	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	0.072	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	**0.074**	**0.000**
B)	Due to Constraints in System in Mus		
	DTL	0.155	0.072
	NDPL	0.037	0.035
	BRPL	0.177	0.158
	BYPL	0.008	0.004
	NDMC	0.000	0.000
	MES	0.000	0.000
	Other Agencies	0.000	0.002
	Total	**0.377**	**0.272**
11	**Grand Total in Mus**	**0.451**	**0.272**

2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING FEB 2020

A) For the month of Feb 2020

All Figures in MUs

S. No	Stations	Gross Generation	Aux. Consumption	Net Generation	Availability (%)	Backing Down
1.	**RPH**	0.000	0.117	-0.117	0.00	0.00
2.	**GT**	27.419	1.229	26.190	89.82	131.97
3.	**PPCL**	111.748	2.339	109.409	107.97	122.20
4.	**BTPS**	0.000	0.398	-0.398	0.00	0.00
5.	**Rithala**	0.000	0.000	0.000	0.00	0.00
6.	**Bawana**	335.635	9.622	326.693	93.56	542.02
7.	**Towmcl**	12.340	1.647	10.693	--	0.00
8.	**EDWPCL**	2.969	0.846	2.123	--	0.00
9.	**DMSWL**	13.319	1.789	11.530	--	0.00
	TOTAL	**503.43**	**17.987**	**486.123**	**--**	**796.19**

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

Power Station	Effective Capacity (MW)	Net Generation in MUs for Feb 2020	Availability (%) for Feb 2020	PLF (%) for Feb 2020	Cumulative Generation in MUs upto Feb 2020 for the year 2019-20	Cumulative Availability in % upto Feb 2020 for the year 2019-20	Cumulative PLF in % upto Feb 2020 for the year 2019-20
RPH	135	-0.117	0.00	0.00	-1.366	0.00	0.00
GT	270	26.190	89.82	14.83	453.913	87.18	21.60
PPCL	330	109.409	107.97	51.16	1376.307	97.27	53.78
BTPS	705	-0.398	0.00	0.00	-6.189	0.00	0.00
Rithala	108	0.000	0.00	0.00	0.000	0.00	0.00
Bawana	1372	326.693	93.56	36.33	3628.431	88.18	39.41
Towmcl	16	10.693	--	110.81	135.417	--	--
EDWPCL	--	2.123	--	35.55	26.557	--	--
DMSWL	--	11.530	--	79.74	108.274	--	--
TOTAL	2936	**486.123**	--	--	**5721.344**	--	--

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

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	
		26.02.20	05.55	26.02.20	06.35	Unit tripped due to sudden closing of ESV

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	04.02.20	12.45	Stopped due to low demand and high frequency
		26.02.20	21.15	29.02.20	23.59	

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
		04.02.20	13.32	26.02.20	10.12	RGMO Testing and commissioning
		26.02.20	12.48	26.02.20	16.02	

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
		16.02.20	11.26	16.02.20	12.16	Tripped due to grid disturbance
		22.02.20	08.06	22.02.20	09.09	

(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
		03.02.20	10.00	09.02.20	14.30	Condenser cleaning
		11.02.20	15.25	12.02.20	01.15	Bay no 405 -Y phase CT has blast resulting 400 KV Bus-2 has dead

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 ,
		20.02.20	08.00	26.02.20	12.00	Condenser cleaning

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 FEBRUARY 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	09.57.46	0	41	157	534	16	2	16	0	766	3307	3376	-69	4073	0	4073
2	10.42.22	0	42	157	435	19	-1	15	0	667	3658	3455	203	4325	0	4325
3	09.46.40	0	42	157	494	19	-1	17	0	728	3541	3559	-18	4269	0	4269
4	10.01.33	0	41	156	438	17	0	18	0	670	3456	3516	-60	4126	0	4126
5	10.01.09	0	42	156	438	15	4	16	0	671	3519	3509	10	4190	0	4190
6	09.55.22	0	42	152	505	15	3	16	0	733	3653	3415	238	4386	0	4386
7	09.55.25	0	43	153	457	14	6	14	0	687	3760	3582	178	4447	0	4447
8	09.56.34	0	42	154	495	18	6	16	0	731	3219	3102	117	3950	0	3950
9	11.00.46	0	42	151	437	18	5	16	0	669	3469	3443	26	4138	0	4138
10	09.56.01	0	43	153	438	19	0	18	0	671	3426	3360	66	4097	0	4097
11	10.15.29	0	42	153	480	19	-1	18	0	711	3433	3386	47	4144	0	4144
12	10.02.05	0	42	152	470	18	-1	16	0	697	3485	3404	81	4182	0	4182
13	09.52.53	0	41	152	644	18	2	18	0	875	3133	3191	-58	4008	0	4008
14	10.30.04	0	37	155	484	18	4	17	0	715	3582	3292	290	4297	0	4297
15	10.08.57	0	41	157	479	19	5	19	0	720	3283	3056	227	4003	0	4003
16	10.30.12	0	40	154	475	16	2	16	0	703	3169	3153	16	3872	0	3872
17	09.55.49	0	41	155	475	16	-1	16	0	702	3060	3104	-44	3762	0	3762
18	09.55.54	0	40	155	473	15	1	16	0	700	3176	3075	101	3876	0	3876
19	10.02.09	0	40	154	477	17	7	16	0	711	3177	3119	58	3888	0	3888
20	10.00.47	0	39	153	597	18	7	18	0	832	2902	2938	-36	3734	0	3734
21	10.08.00	0	40	154	627	19	9	16	0	865	3335	3374	-39	4200	0	4200
22	10.35.13	0	41	153	468	17	9	17	0	705	2968	2821	147	3673	0	3673
23	10.42.26	0	0	153	470	18	0	18	0	659	2946	3056	-110	3605	0	3605
24	09.54.23	0	0	153	486	18	5	18	0	680	3058	2991	67	3738	0	3738
25	11.09.04	0	39	152	475	12	3	13	0	694	2879	2826	53	3573	0	3573
26	10.05.19	0	39	152	467	0	2	16	0	676	2882	2865	17	3558	0	3558
27	10.26.30	0	38	156	473	0	3	14	0	684	2830	2802	28	3514	0	3514
28	11.31.29	0	38	143	465	0	5	18	0	669	3009	2863	146	3678	0	3678
29	10.04.35	0	39	155	494	0	3	18	0	709	2698	2716	-18	3407	0	3407

7 POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF MAXIMUM UNRESTRICTED DEMAND DURING FEBARUY 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	Townmcl	East Delhi	DMSWL	BTPS	Total						
(1)	(2)	(3)	(4)	(5)	(7)	(8)				(9)= (3) to (8)	(10)	(11)	(12)= (11) - (10)	(13)= (11)+ (12)	(14)	(15)= (13)+ (14)
1	09.57.46	0	41	157	534	16	2	16	0	766	3307	3376	-69	4073	0	4073
2	10.42.22	0	42	157	435	19	-1	15	0	667	3658	3455	203	4325	0	4325
3	09.46.40	0	42	157	494	19	-1	17	0	728	3541	3559	-18	4269	0	4269
4	10.01.33	0	41	156	438	17	0	18	0	670	3456	3516	-60	4126	0	4126
5	10.01.09	0	42	156	438	15	4	16	0	671	3519	3509	10	4190	0	4190
6	09.55.22	0	42	152	505	15	3	16	0	733	3653	3415	238	4386	0	4386
7	09.55.25	0	43	153	457	14	6	14	0	687	3760	3582	178	4447	0	4447
8	09.56.34	0	42	154	495	18	6	16	0	731	3219	3102	117	3950	0	3950
9	11.00.46	0	42	151	437	18	5	16	0	669	3469	3443	26	4138	0	4138
10	09.56.01	0	43	153	438	19	0	18	0	671	3426	3360	66	4097	0	4097
11	10.15.29	0	42	153	480	19	-1	18	0	711	3433	3386	47	4144	0	4144
12	10.02.05	0	42	152	470	18	-1	16	0	697	3485	3404	81	4182	0	4182
13	09.52.53	0	41	152	644	18	2	18	0	875	3133	3191	-58	4008	0	4008
14	10.30.04	0	37	155	484	18	4	17	0	715	3582	3292	290	4297	0	4297
15	10.08.57	0	41	157	479	19	5	19	0	720	3283	3056	227	4003	0	4003
16	10.30.12	0	40	154	475	16	2	16	0	703	3169	3153	16	3872	0	3872
17	09.55.49	0	41	155	475	16	-1	16	0	702	3060	3104	-44	3762	0	3762
18	09.55.54	0	40	155	473	15	1	16	0	700	3176	3075	101	3876	0	3876
19	10.02.09	0	40	154	477	17	7	16	0	711	3177	3119	58	3888	0	3888
20	10.00.47	0	39	153	597	18	7	18	0	832	2902	2938	-36	3734	0	3734
21	10.08.00	0	40	154	627	19	9	16	0	865	3335	3374	-39	4200	0	4200
22	10.35.13	0	41	153	468	17	9	17	0	705	2968	2821	147	3673	0	3673
23	10.42.26	0	0	153	470	18	0	18	0	659	2946	3056	-110	3605	0	3605
24	09.54.23	0	0	153	486	18	5	18	0	680	3058	2991	67	3738	0	3738
25	11.09.04	0	39	152	475	12	3	13	0	694	2879	2826	53	3573	0	3573
26	10.05.19	0	39	152	467	0	2	16	0	676	2882	2865	17	3558	0	3558
27	10.26.30	0	38	156	473	0	3	14	0	684	2830	2802	28	3514	0	3514
28	11.31.29	0	38	143	465	0	5	18	0	669	3009	2863	146	3678	0	3678
29	10.04.35	0	39	155	494	0	3	18	0	709	2698	2716	-18	3407	0	3407

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

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

A (i) RPH	0.000
(ii) GT+STG	27.419
(iii) PRAGATI	111.748
(iv) RITHALA	0.000
(v) BAWANA CCGT	335.635
(vi) Timarpur – Okhla	12.340
EDWPCL	2.969
DMSWL	13.319
TOTAL	503.430
B) AVAILABILITY FROM BTPS	-0.398
C) AUXILIARY CONSUMPTION OF GENERATING STNs. EXCLUDING BTPS	17.589
D) NET GENERATION AVAILABLE WITHIN DELHI(A+B-C)	**485.443**

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	4.562	4.462	4.562	4.462
SALAL	14.686	14.390	14.686	14.390
SASAN	288.702	281.228	288.702	281.228
TANKAPUR	1.571	1.535	1.571	1.535
CHAMERA	7.273	7.133	7.273	7.133
CHAMERA -II	4.923	4.817	4.923	4.817
CHAMERA -III	1.497	1.473	1.494	1.470
DHAULIGANGA	3.909	3.818	3.909	3.818
SEWA -2	7.266	7.117	7.266	7.117
URI	27.770	27.205	27.770	27.205
URI-II	17.859	17.514	17.859	17.514
KOLDAM	0.000	0.000	0.000	0.000
KOTESHWAR	9.754	9.522	9.754	9.522
PARBATI3	1.632	1.596	1.632	1.596
RAMPUR	0.000	0.000	0.000	0.000
ANTA (GAS)	0.082	0.080	0.041	0.040
ANTA (RLNG)	19.742	19.012	0.000	0.000
ANTA (LIQUID)	0.000	0.000	0.000	0.000
DADRI (GAS)	20.385	20.005	15.768	15.483
DADRI (RLNG)	35.726	35.066	0.527	0.521
DADRI (LIQUID)	0.020	0.019	0.000	0.000
AURAIYA (GAS)	7.031	6.846	5.211	5.078
AURAIYA (RLNG)	37.777	36.910	0.750	0.735
AURAIYA (LIQUID)	5.982	5.830	0.000	0.000
SINGRAULI	83.323	80.645	77.986	75.479
SINGRAULI_HYDRO	0.344	0.333	0.344	0.333
RIHAND -I	56.384	54.637	52.751	51.120
RIHAND -II	81.937	79.387	79.403	76.939
RIHAND -III	86.071	83.845	85.306	83.098
UNCHAHAR-I	7.851	7.652	6.058	5.904
UNCHAHAR-II	29.767	29.015	20.780	20.254
UNCHAHAR-III	18.368	17.904	13.082	12.751
UNCHAHAR-IV	0.000	0.000	0.000	0.000
DADRI (TH)	479.594	470.985	5.165	5.021
DADRI (TH) STAGE-II	475.809	467.271	310.258	304.692
BRBCL (NABIPUR-BIHAR)	3.329	3.275	3.044	2.994
TALCHER FOR AUX. OF BTPS	0.635	0.622	0.580	0.568
NAPP	30.241	29.525	30.241	29.525
RAPP 'B'	0.000	0.000	0.000	0.000
RAPP 'C'	18.867	18.156	18.867	18.156
NATHPA JHAKRI	17.694	17.250	17.694	17.250
DULASTI	10.449	10.236	10.449	10.236
TEHRI	16.301	15.912	16.301	15.912

NAME OF THE STATION	AVAILABILITY AT POWER PLANT	AVAILABILITY AT DELHI PERIPHERY	ALLOCATION MADE BY NRLDC AT POWER PLANT	ALLOCATION MADE BY NRLDC AT DELHI PERIPHERY
JHAJJAR	454.408	446.256	0.652	0.645
KHELGAON	31.717	31.230	23.894	23.525
KHELGAON-II	93.685	92.248	79.017	77.803
FARAKA	13.330	13.125	8.398	8.267
TALA	0.920	0.900	0.920	0.900
DVC	216.975	215.211	215.211	213.265
TUTICORIN - BRPL	12.083	11.981	11.981	11.873
MADHYA PRADESH	4.432	4.390	4.390	4.350
UTTAR PRADESH	0.000	0.000	0.000	0.000
WEST BENGAL	0.186	0.185	0.185	0.182
SCLTPS (UP)	0.000	0.000	0.000	0.000
TAMILNAIDU	3.026	3.000	3.000	2.973
SEIL PROJECT(ANDHRA PRADESH)	0.000	0.000	0.000	0.000
MEGHALAYA	2.142	2.137	2.137	2.118
ANDHRA	3.202	3.175	3.175	3.144
KARNATAKA	6.641	6.535	6.535	6.476
ESSAR_MAHAN (MP)	0.000	0.000	0.000	0.000
METHON POWER(NDPL)LT-06	158.622	157.337	157.337	155.884
DVC MEJIA (LT-08)(BYPL)	61.153	60.656	60.656	60.111
Acme_RUMS	9.174	9.087	9.087	9.005
Arinsun_RUMS	9.474	9.384	9.384	9.300
Mahindra_RUMS	6.251	6.192	6.192	6.136
URS	0.004	0.004	0.004	0.004
JAMMU & KASHMIR	8.132	8.038	8.038	7.966
HIMACHAL PRADESH	4.752	4.709	4.709	4.666
JHABUA (MP)	0.000	0.000	0.000	0.000
GUJRAT	0.000	0.000	0.000	0.000
FSTPP-III(WEST BENGAL)	0.000	0.000	0.000	0.000
BGTPP (ASSAM)	0.068	0.068	0.068	0.067
HIMACHAL PRADESH LT-59 DVC	0.782	0.775	0.775	0.768
HARYANA (LT-05)	55.628	55.131	55.131	54.640
MP(SOLAR RUMS)	16.164	16.010	16.010	15.865
HP TPDDL (NANTI)	0.912	0.904	0.904	0.896
BIHAR	0.000	0.000	0.000	0.000
ODHISHA	0.000	0.000	0.000	0.000
ORISSA MT-20 JITPL -DVC	6.337	6.280	6.280	6.223
D.B. POWER (CHATTISHGARH)	0.000	0.000	0.000	0.000
CHATTISHGARH	0.284	0.280	0.280	0.276
RAJASTHAN(SOLAR) BRPL-LT36	3.521	3.421	3.421	3.390
RAJASTHAN(SOLAR) BYPL - LT-35	3.326	3.232	3.232	3.203
RAJASTHAN(SOLAR) TPDDL LT-31	3.342	3.247	3.247	3.218
HP TARANDA (RAILWAYS)	1.296	1.284	1.284	1.273
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	-0.136	-0.137	-0.137	-0.138
TO MEGHALAYA	-8.709	-8.891	-8.891	-8.971
TO KERALA	-78.427	-80.299	-80.299	-80.987
TO ODISHA	0.000	0.000	0.000	0.000
TO ARUNACHAL PRADESH	-17.013	-17.399	-17.399	-17.558
TO GOA	-1.593	-1.615	-1.615	-1.630
TO CHATTISHGARH	0.000	0.000	0.000	0.000
TO MANIPUR	-12.590	-12.681	-12.681	-12.797
BTPS TO MP	0.000	0.000	0.000	0.000
TO HIMACHAL PRADESH	-274.089	-281.116	-281.116	-283.734
TO GUJRAT	0.000	0.000	0.000	0.000
POWER EXCHANGE(IEX)	173.602	171.978	173.602	171.978
TO POWER EXCHANGE (IEX)	-97.962	-98.847	-97.962	-98.847
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)	-29.658	-29.929	-29.658	-29.929
TO SHARE PROJECT (PUNJAB)	-29.690	-29.961	-29.690	-29.961
TOTAL	**2750.820**	**2679.748**	**1481.697**	**1439.735**

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	1449.523	1418.719	676.473	660.441
NTPC - ER	138.732	136.603	111.308	109.595
NHPC	103.397	101.297	103.394	101.293
NPC	49.109	47.681	49.109	47.681
SASAN	288.702	281.228	288.702	281.228
KOTESHWAR	9.754	9.522	9.754	9.522
NATHPA JHAKRI	17.694	17.250	17.694	17.250
TALCHER FOR AUX. OF BTPS	0.635	0.622	0.580	0.568
TEHRI	16.301	15.912	16.301	15.912
TALA	0.920	0.900	0.920	0.900
JHAJJAR	454.408	446.256	0.652	0.645
RAJASTHAN SOLAR(BRPL)T-36	3.521	3.421	3.421	3.390
RAJASTHAN SOLAR(BYPL)T-35	3.326	3.232	3.232	3.203
RAJASTHAN SOLAR(TPDDL)T-31	3.342	3.247	3.247	3.218
DVC	216.975	215.211	215.211	213.265
TUTICORIN BRPL	12.083	11.981	11.981	11.873
MADHYA PRADESH	4.432	4.390	4.390	4.350
UTTAR PRADESH	0.000	0.000	0.000	0.000
WEST BENGAL	0.186	0.185	0.185	0.182
SCLTPS (UP)	0.000	0.000	0.000	0.000
TAMILNAIDU	3.026	3.000	3.000	2.973
SEIL PROJECT(ANDHRA PRADESH)	0.000	0.000	0.000	0.000
MEGHALAYA	2.142	2.137	2.137	2.118
ANDHRA	3.202	3.175	3.175	3.144
KARNATAKA	6.641	6.535	6.535	6.476
ESSAR_MAHAN (MP)	0.000	0.000	0.000	0.000
METHON POWER (NDPL)-LT-06	158.622	157.337	157.337	155.884
DVC MEJIA (LT-08)(BYPL)	61.153	60.656	60.656	60.111
Acme_RUMS	9.174	9.087	9.087	9.005
Arinsun_RUMS	9.474	9.384	9.384	9.300
Mahindra_RUMS	6.251	6.192	6.192	6.136
URS	0.004	0.004	0.004	0.004
JAMMU & KASHMIR	8.132	8.038	8.038	7.966
HIMACHAL PRADESH	4.752	4.709	4.709	4.666
JHABUA (MP)	0.000	0.000	0.000	0.000
GUJRAT	0.000	0.000	0.000	0.000
FSTPP-III(WEST BENGAL)	0.000	0.000	0.000	0.000
BGTPP (ASSAM)	0.068	0.068	0.068	0.067
HP LT-59 DVC(SURYA KANTA)	0.782	0.775	0.775	0.768
HARYANA (LT -05)	55.628	55.131	55.131	54.640
BIHAR	0.000	0.000	0.000	0.000
ODISHA	0.000	0.000	0.000	0.000
ORISSA MT-20 JITPL -DVC	6.337	6.280	6.280	6.223
D.B. POWER (CHATTISHGARH)	0.000	0.000	0.000	0.000
CHATTISHGARH	0.284	0.280	0.280	0.276
MP(SOLAR RUMS)	16.164	16.010	16.010	15.865
HP TPDDL (NANTI)	0.912	0.904	0.904	0.896
HP TRANDA (RAILWAYS)	1.296	1.284	1.284	1.273
POWER EXCHANGE(IEX)	173.602	171.978	173.602	171.978
POWER EXCHANGE(PX)	0.000	0.000	0.000	0.000
TOTAL	3300.688	3240.623	2041.146	2004.286

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	-0.136	-0.137	-0.137	-0.138
TO KERALA	-78.427	-80.299	-80.299	-80.987
TO MEGHALAYA	-8.709	-8.891	-8.891	-8.971
TO ORIDSHA	0.000	0.000	0.000	0.000
TO ARUNACHAL PRADESH	-17.013	-17.399	-17.399	-17.558
TO GOA	-1.593	-1.615	-1.615	-1.630
TO CHATTISHGARH	0.000	0.000	0.000	0.000
TO MANIPUR	-12.590	-12.681	-12.681	-12.797
BTPS TO MP	0.000	0.000	0.000	0.000
TO HIMACHAL PRADESH	-274.089	-281.116	-281.116	-283.734
TO GUJRAT	0.000	0.000	0.000	0.000
TO POWER EXCHANGE (IEX)	-97.962	-98.847	-97.962	-98.847
TO POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
TO SHARE PROJECT (HARYANA)	-29.658	-29.929	-29.658	-29.929
TO SHARE PROJECT (PUNJAB)	-29.690	-29.961	-29.690	-29.961
TOTAL	**-549.869**	**-560.875**	**-559.449**	**-564.551**
TOTAL SCHEDULED DRAWAL FROM THE GRID	**2750.820**	**2679.748**	**1481.697**	**1439.735**

TOTAL CONSUMPTION INCLUDING AUX. OF GENERATING STNs. EXCLUDING BTPS		1922.193
NET CONSUMPTION		**1904.604**
AVAILABILITY WITHIN DELHI		485.443
ACTUAL DRAWAL FROM THE GRID		1419.161
OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID ON THE BASIS OF SCHEDULED ALLOCATION MADE BY NRLDC TO DELHI AT PERIPHERY		-20.574
LOAD SHEDDING		0.272
UNRESTRICTED DEMAND (GROSS)		1922.465
UNRESTRICTED DEMAND (NET)		1904.876
MAX. NET CONSUMPTION		76.620 ON 07.02.2020
MAX. LOAD SHEDDING		85MW ON 27.02.2020 AT 15.21HRS.
PEAK LOAD	Peak Demand during the month	SHEDDING AT PEAK TIME
DAY PEAK	4447MW AT 09.55.25 HRS ON 07.02.2020	0 MW
EVENING PEAK	3576MW AT 18.30HRS ON 07.02.2020	0 MW
P.L.F. OF GENCO AND PRAGATI STNs.	RPH	0.00%
	GT	14.59%
	PRAGATI	48.65%
	RITHALA	0.00%
	BAWANA	35.17%
	Timarpur Okhla	110.81%
	EDWPCL	35.55%
	DMSWL	79.74%

9 SHEDDING DETAILS DURING THE MONTH OF FEBRUARY 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.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
02.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
03.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
04.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
05.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
06.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
07.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
09.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28.Feb.20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29.Feb.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.Feb.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.Feb.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.Feb.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.Feb.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.Feb.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.Feb.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.Feb.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.Feb.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.Feb.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.Feb.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.Feb.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.Feb.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.Feb.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.Feb.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.Feb.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.Feb.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.Feb.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.Feb.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.Feb.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.Feb.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.Feb.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.Feb.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.Feb.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.Feb.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.Feb.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.Feb.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.Feb.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.Feb.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.Feb.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.Feb.20	0.009	0.000	0.003	0.000	0.000	0.000	0.010	0.000	0.000
02.Feb.20	0.000	0.019	0.0000	0.000	0.000	0.000	0.008	0.000	0.000
03.Feb.20	0.000	0.0000	0.000	0.000	0.000	0.000	0.003	0.001	0.000
04.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
05.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000
06.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000
07.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.0111	0.000
08.Feb.20	0.001	0.000	0.000	0.000	0.000	0.000	0.003	0.0000	0.000
09.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.003	0.000
10.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.039	0.001	0.000
11.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000
12.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.0003	0.000
13.Feb.20	0.000	0.000	0.0002	0.000	0.000	0.000	0.000	0.000	0.000
14.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
15.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.0000	0.000
16.Feb.20	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.0003	0.000
17.Feb.20	0.007	0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.000
18.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
19.Feb.20	0.000	0.002	0.000	0.000	0.000	0.000	0.001	0.003	0.000
20.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0004	0.000
21.Feb.20	0.000	0.002	0.006	0.000	0.000	0.000	0.005	0.000	0.000
22.Feb.20	0.001	0.000	0.000	0.000	0.000	0.002	0.004	0.001	0.000
23.Feb.20	0.000	0.006	0.001	0.000	0.000	0.0002	0.002	0.0004	0.000
24.Feb.20	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.005	0.000
25.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000
26.Feb.20	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000
27.Feb.20	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000
28.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.0005	0.000
29.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.034	0.000	0.000
TOTAL	**0.022**	**0.033**	**0.017**	**0.000**	**0.000**	**0.004**	**0.158**	**0.035**	**0.000**

ALL FIGURES IN MUs

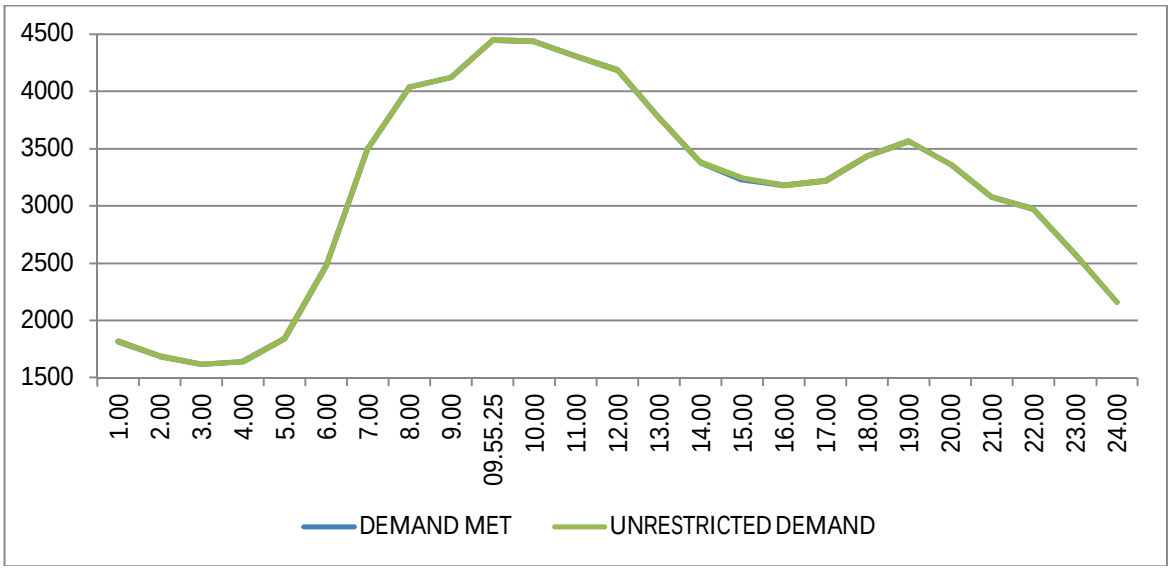
DATE	OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.				THEFT PRONE SHEDDING			TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE	GRAND TOTAL
	BSES		NDPL	NDMC	BSES		NDPL		
	BYPL	BRPL			BYPL	BRPL			
1	35	36	37	38	39	40	41	42= 26 to 41	43 = 25 + 42
01.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.022**	**0.022**
02.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.027**	**0.027**
03.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.004**	**0.004**
04.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.000**
05.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.002**	**0.002**
06.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.002**	**0.002**
07.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.017**	**0.017**
08.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.004**	**0.004**
09.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.007**	**0.007**
10.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.040**	**0.040**
11.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.010**	**0.010**
12.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.007**	**0.007**
13.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.000**
14.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.001**	**0.001**
15.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.001**	**0.001**
16.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.008**	**0.008**
17.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.012**	**0.012**
18.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.001**	**0.001**
19.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.006**	**0.006**
20.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.000**
21.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.013**	**0.013**
22.Feb.20	0.000	0.001	0.001	0.000	0.000	0.000	0.000	**0.010**	**0.010**
23.Feb.20	0.000	0.0001	0.000	0.000	0.000	0.000	0.000	**0.010**	**0.010**
24.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.005**	**0.005**
25.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.003**	**0.003**
26.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.002**	**0.002**
27.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.007**	**0.007**
28.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.016**	**0.016**
29.Feb.20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.034**	**0.034**
TOTAL	**0.000**	**0.001**	**0.001**	**0.000**	**0.000**	**0.000**	**0.000**	**0.272**	**0.272**

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.Feb.20	70.397	4073	19:57:46	0	4073	4087	19:57:46	4006	81
02.Feb.20	67.075	4325	10:42:22	0	4325	4325	10:42:22	4325	0
03.Feb.20	70.466	4269	9:46:40	0	4269	4269	9:46:40	4269	0
04.Feb.20	70.812	4126	10:01:33	0	4126	4126	10:01:33	4126	0
05.Feb.20	71.592	4190	10:01:09	0	4190	4190	10:01:09	4190	0
06.Feb.20	70.596	4386	9:55:22	0	4386	4386	9:55:22	4386	0
07.Feb.20	72.620	4447	9:55:25	0	4447	4447	9:55:25	4447	0
08.Feb.20	60.342	3950	9:56:34	0	3950	3950	9:56:34	3950	0
09.Feb.20	64.339	4138	11:00:46	0	4138	4138	11:00:46	4138	0
10.Feb.20	68.520	4097	9:56:01	0	4097	4097	9:56:01	4097	0
11.Feb.20	69.428	4144	10:15:29	0	4144	4144	10:15:29	4144	0
12.Feb.20	69.159	4182	10:02:05	0	4182	4182	10:02:05	4182	0
13.Feb.20	67.081	4008	9:52:53	0	4008	4008	9:52:53	4008	0
14.Feb.20	67.623	4297	10:30:04	0	4297	4297	10:30:04	4297	0
15.Feb.20	63.233	4003	10:08:57	0	4003	4003	10:08:57	4003	0
16.Feb.20	60.955	3872	10:30:12	0	3872	3872	10:30:12	3872	0
17.Feb.20	63.614	3762	9:55:49	0	3762	3762	9:55:49	3762	0
18.Feb.20	64.823	3876	9:55:54	0	3876	3876	9:55:54	3876	0
19.Feb.20	65.084	3888	10:02:09	0	3888	3888	10:02:09	3888	0
20.Feb.20	63.847	3734	10:00:47	0	3734	3734	10:00:47	3734	0
21.Feb.20	65.793	4200	10:08:00	0	4200	4200	10:08:00	4200	0
22.Feb.20	61.366	3673	10:35:13	0	3673	3673	10:35:13	3673	0
23.Feb.20	59.831	3605	10:42:36	0	3605	3605	10:42:36	3605	0
24.Feb.20	62.418	3738	9:54:23	0	3738	3738	9:54:23	3738	0
25.Feb.20	62.810	3573	11:09:04	0	3573	3573	11:09:04	3573	0
26.Feb.20	62.750	3558	10:05:19	0	3558	3558	10:05:19	3558	0
27.Feb.20	63.657	3514	10:26:30	0	3514	3514	10:26:30	3514	0
28.Feb.20	63.739	3678	11:31:29	0	3678	3678	11:31:29	3678	0
29.Feb.20	60.634	3407	10:04:35	0	3407	3407	10:04:35	3407	0
TOTAL	1904.604	4447 **07.02.20**	9:55:25	0	4447 **07.02.20**	4447	9:55:25	4447	0

10 LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING FEBRUARY 2020 ON 07.02.2020- 4447MW AT 09.55.25HRS.

All figures in MW

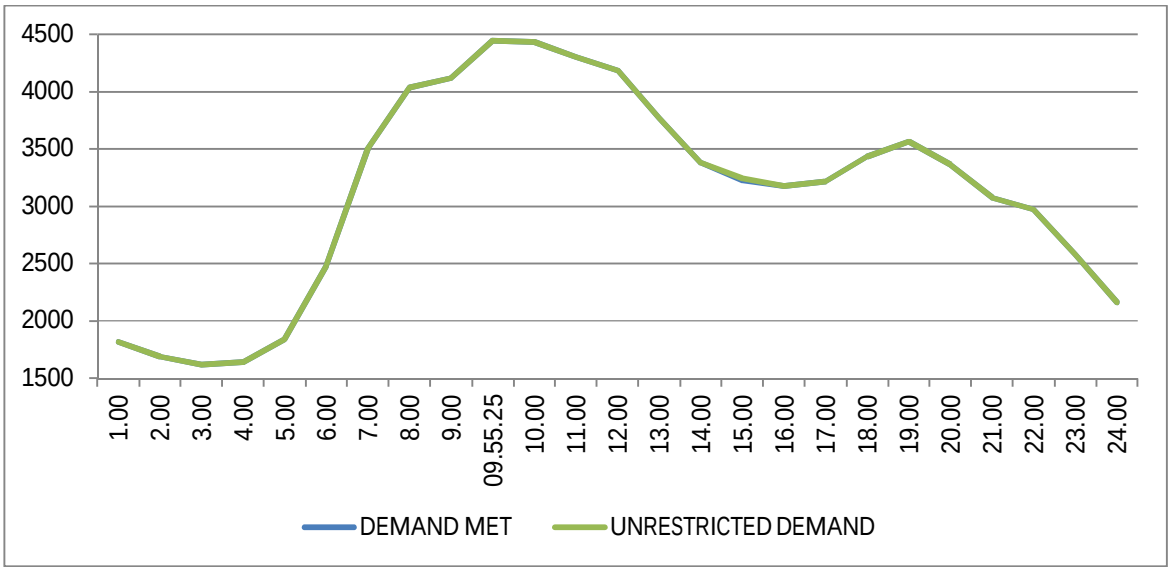
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1818	0	1818
2.00	1692	0	1692
3.00	1621	0	1621
4.00	1640	0	1640
5.00	1839	0	1839
6.00	2478	0	2478
7.00	3506	0	3506
8.00	4037	0	4037
9.00	4119	0	4119
09.55.25	4447	0	4447
10.00	4432	0	4432
11.00	4302	0	4302
12.00	4185	0	4185
13.00	3771	0	3771
14.00	3377	0	3377
15.00	3229	17	3246
16.00	3179	0	3179
17.00	3215	0	3215
18.00	3431	0	3431
19.00	3566	0	3566
20.00	3364	0	3364
21.00	3075	0	3075
22.00	2970	0	2970
23.00	2578	0	2578
24.00	2160	0	2160
Total (IN MUS)	**72.62**	**0.017**	**72.637**



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING FEBRUARY 2020 ON 07.02.2020- 4447MW AT 09.55.25HRS.

All figures in MW

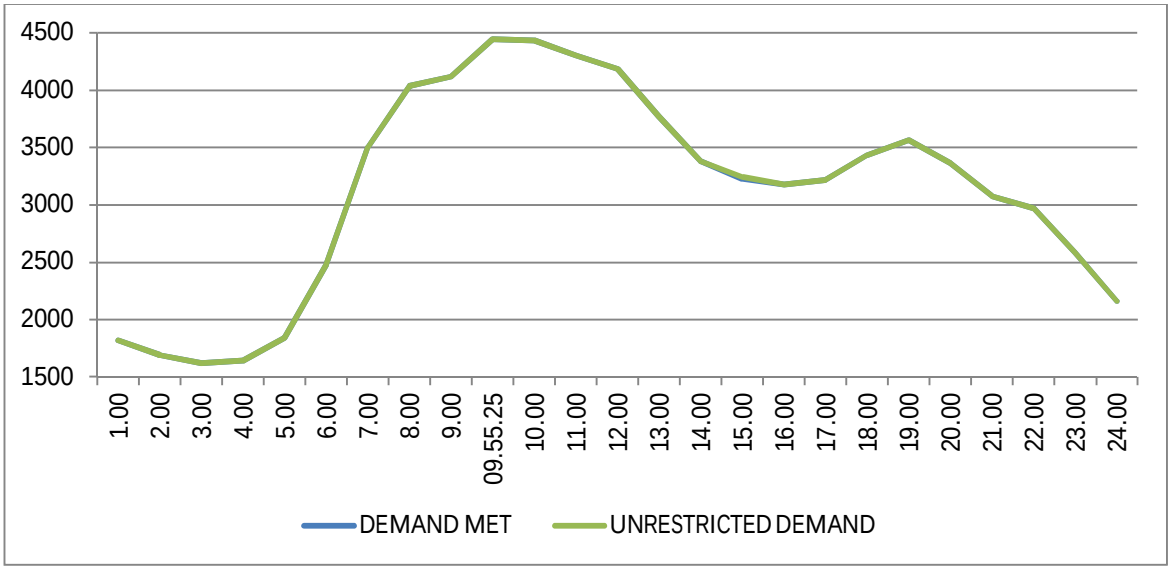
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1818	0	1818
2.00	1692	0	1692
3.00	1621	0	1621
4.00	1640	0	1640
5.00	1839	0	1839
6.00	2478	0	2478
7.00	3506	0	3506
8.00	4037	0	4037
9.00	4119	0	4119
09.55.25	4447	0	4447
10.00	4432	0	4432
11.00	4302	0	4302
12.00	4185	0	4185
13.00	3771	0	3771
14.00	3377	0	3377
15.00	3229	17	3246
16.00	3179	0	3179
17.00	3215	0	3215
18.00	3431	0	3431
19.00	3566	0	3566
20.00	3364	0	3364
21.00	3075	0	3075
22.00	2970	0	2970
23.00	2578	0	2578
24.00	2160	0	2160
Total (IN MUS)	**72.62**	**0.017**	**72.637**



12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING FEBRUARY 2020 – 07.02.2020 – 72.6207Mus

All figures in MW

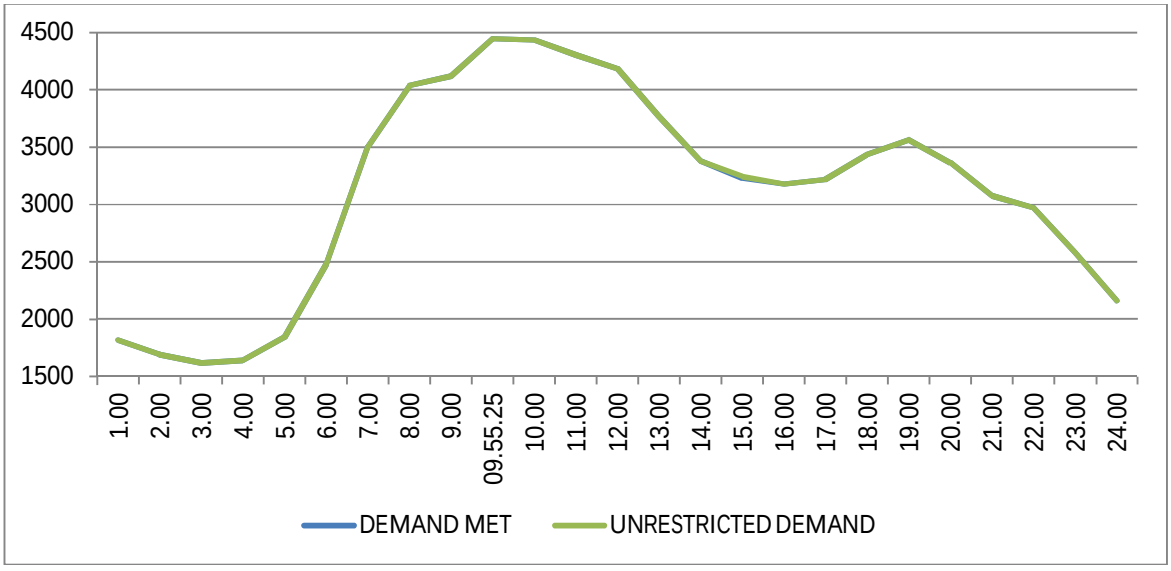
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1818	0	1818
2.00	1692	0	1692
3.00	1621	0	1621
4.00	1640	0	1640
5.00	1839	0	1839
6.00	2478	0	2478
7.00	3506	0	3506
8.00	4037	0	4037
9.00	4119	0	4119
09.55.25	4447	0	4447
10.00	4432	0	4432
11.00	4302	0	4302
12.00	4185	0	4185
13.00	3771	0	3771
14.00	3377	0	3377
15.00	3229	17	3246
16.00	3179	0	3179
17.00	3215	0	3215
18.00	3431	0	3431
19.00	3566	0	3566
20.00	3364	0	3364
21.00	3075	0	3075
22.00	2970	0	2970
23.00	2578	0	2578
24.00	2160	0	2160
Total (IN MUS)	**72.62**	**0.017**	**72.637**



13 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING FEBRUARY 2020 – 07.02.2020 – 72.637 Mus

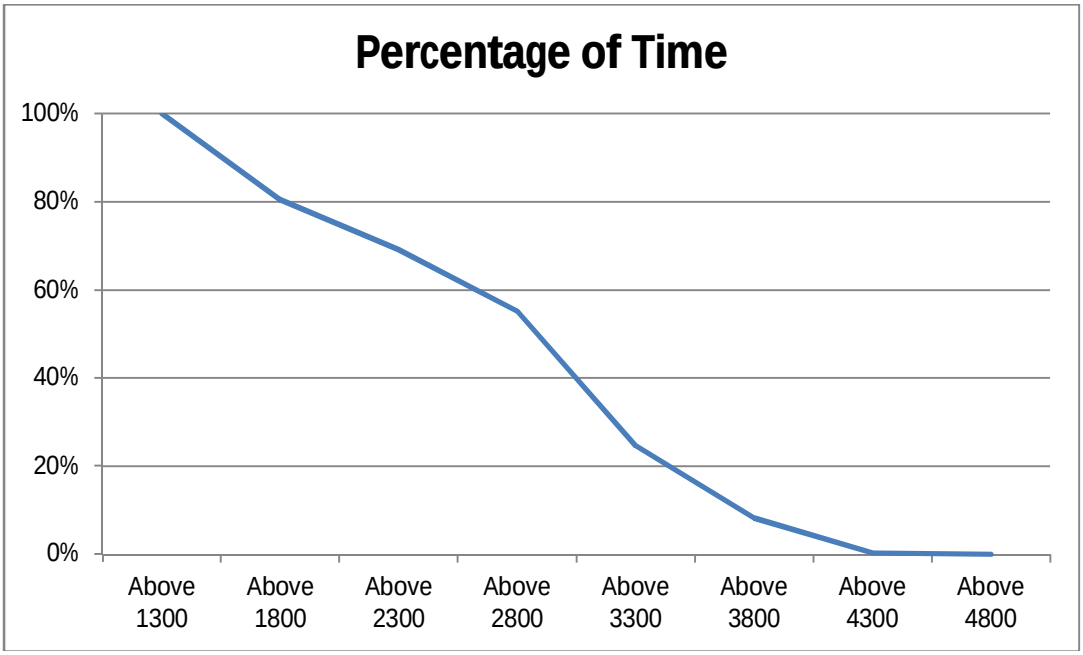
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1818	0	1818
2.00	1692	0	1692
3.00	1621	0	1621
4.00	1640	0	1640
5.00	1839	0	1839
6.00	2478	0	2478
7.00	3506	0	3506
8.00	4037	0	4037
9.00	4119	0	4119
09.55.25	4447	0	4447
10.00	4432	0	4432
11.00	4302	0	4302
12.00	4185	0	4185
13.00	3771	0	3771
14.00	3377	0	3377
15.00	3229	17	3246
16.00	3179	0	3179
17.00	3215	0	3215
18.00	3431	0	3431
19.00	3566	0	3566
20.00	3364	0	3364
21.00	3075	0	3075
22.00	2970	0	2970
23.00	2578	0	2578
24.00	2160	0	2160
Total (IN MUS)	**72.62**	**0.017**	**72.637**



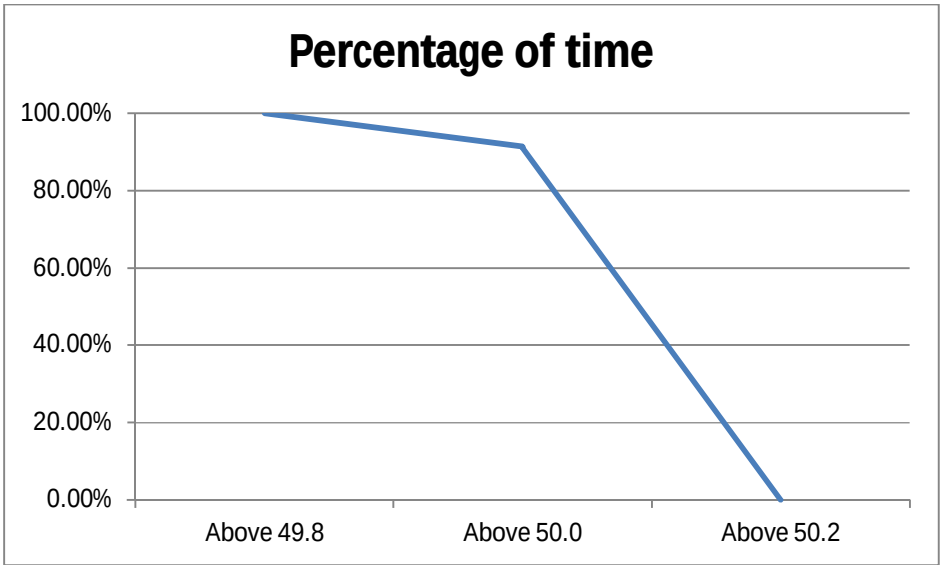
14 LOAD DURATION CURVE FOR FEBRUARY 2020

Load in MW	Percentage of Time
Above 1300	100%
Above 1800	80.39%
Above 2300	69.14%
Above 2800	55.20%
Above 3300	24.56%
Above 3800	8.15%
Above 4300	0.25%
Above 4800	0.00%



15 FREQUENCY ANALYSIS FOR THE MONTH OF FEBRUARY 2020

Frequency Range in Hz.	Percentage of time
Above 49.8	100.00%
Above 50.0	91.27%
Above 50.2	0.03%



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

All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
01.Feb.20	233.69	217.57	239.1	--
02.Feb.20	234.46	219.11	240.91	225.3
03.Feb.20	234.33	220.15	241.55	224.4
04.Feb.20	234.33	218.34	240.39	220.92
05.Feb.20	234.33	219.24	238.97	225.05
06.Feb.20	234.46	218.98	238.85	222.85
07.Feb.20	233.69	216.53	241.04	222.98
08.Feb.20	233.43	218.47	242.2	229.17
09.Feb.20	233.3	219.63	240.39	228.92
10.Feb.20	233.69	220.79	242.84	226.59
11.Feb.20	232.78	216.41	240.26	224.66
12.Feb.20	234.07	218.6	240.52	225.43
13.Feb.20	234.59	220.4	238.97	224.66
14.Feb.20	233.95	218.98	237.94	224.66
15.Feb.20	234.46	221.18	239.23	227.24
16.Feb.20	232.66	220.27	239.23	228.01
17.Feb.20	233.43	218.98	238.46	226.59
18.Feb.20	232.66	218.86	238.85	226.72
19.Feb.20	234.98	219.5	240.91	226.59
20.Feb.20	234.07	220.4	239.62	227.63
21.Feb.20	234.98	223.37	239.88	228.79
22.Feb.20	235.23	222.98	240.26	228.14
23.Feb.20	234.59	223.37	239.62	227.5
24.Feb.20	233.69	220.15	239.1	225.95
25.Feb.20	233.04	220.79	238.59	225.56
26.Feb.20	234.33	219.11	238.97	223.37
27.Feb.20	233.43	221.44	240.14	227.5
28.Feb.20	234.98	220.4	239.88	226.98
29.Feb.20	234.46	221.44	239.88	229.82

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

All figures in kV

Date	400kV Bamnauli Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01.Feb.20	419.5	00:01	390.19	09:46	408.3
02.Feb.20	419.5	23:59	391.36	09:37	410.56
03.Feb.20	419.73	00:00	396.05	11:10	410.48
04.Feb.20	420.2	04:01	392.06	09:24	407.58
05.Feb.20	418.09	04:01	394.41	09:46	407.76
06.Feb.20	416.92	02:01	390.89	09:23	407.98
07.Feb.20	418.09	01:30	388.54	09:50	407.33
08.Feb.20	418.32	01:04	389.95	09:18	407.96
09.Feb.20	417.86	17:35	391.36	09:32	408.54
10.Feb.20	417.15	04:00	393.47	09:46	407.39
11.Feb.20	415.98	22:00	389.95	10:34	405.46
12.Feb.20	416.68	04:00	389.72	06:57	406.11
13.Feb.20	418.09	13:20	390.19	08:47	406.7
14.Feb.20	415.04	02:59	390.19	09:12	406.52
15.Feb.20	417.86	04:00	395.81	09:21	406.88
16.Feb.20	415.74	17:31	393.7	09:12	407.94
17.Feb.20	418.32	04:00	392.3	09:38	407.4
18.Feb.20	415.98	20:55	393.23	10:53	406.28
19.Feb.20	420.2	04:01	393.94	10:36	408.61
20.Feb.20	416.92	23:59	393.7	10:46	407.06
21.Feb.20	418.56	04:01	396.05	08:44	410.34
22.Feb.20	420.2	04:00	395.81	09:14	409.81
23.Feb.20	419.03	04:00	399.1	09:25	411.75
24.Feb.20	418.32	01:10	395.81	09:45	408.61
25.Feb.20	417.15	01:16	396.28	09:21	407.23
26.Feb.20	420.2	04:01	391.12	09:32	408.03
27.Feb.20	419.26	04:01	393.7	09:33	408.05
28.Feb.20	419.5	04:00	392.06	09:28	409.04
29.Feb.20	419.26	04:00	395.11	08:24	410.64

All figures in kV

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01.Feb.20	428.41	00:01	402.14	09:45	417.39
02.Feb.20	427.94	01:59	403.08	09:42	419.05
03.Feb.20	428.41	02:55	405.43	11:16	419.51
04.Feb.20	426.77	02:00	402.14	09:47	416.14
05.Feb.20	427.23	04:01	405.19	10:29	417.71
06.Feb.20	426.77	02:01	405.19	09:28	418.25
07.Feb.20	427.23	01:33	401.44	09:46	417.41
08.Feb.20	426.53	01:03	403.08	09:19	418.42
09.Feb.20	426.77	01:00	404.25	09:31	418.77
10.Feb.20	425.59	03:00	406.83	10:35	418.73
11.Feb.20	428.64	22:00	402.85	10:33	417.59
12.Feb.20	427.7	01:01	404.02	09:16	418.57
13.Feb.20	428.88	01:57	404.02	09:11	418.53
14.Feb.20	426.06	21:42	404.49	09:41	417.99
15.Feb.20	427.47	03:59	407.77	09:19	417.81
16.Feb.20	426.3	20:58	406.37	09:11	418.67
17.Feb.20	427.47	04:00	404.49	09:44	417.91
18.Feb.20	427.7	20:56	405.43	10:49	416.86
19.Feb.20	429.58	04:01	406.37	10:36	419.9
20.Feb.20	428.88	23:59	406.6	10:46	418.45
21.Feb.20	430.28	01:42	411.52	08:42	422.12
22.Feb.20	429.58	03:59	409.65	09:18	420.71
23.Feb.20	429.11	01:18	412.23	09:23	422.3
24.Feb.20	427.47	00:51	408.01	09:49	419.1
25.Feb.20	427.47	01:17	408.71	09:47	414.26
26.Feb.20	426.53	21:10	404.02	09:35	415.05
27.Feb.20	427.47	04:00	409.88	09:33	419.2
28.Feb.20	428.64	04:00	407.3	09:32	420.43
29.Feb.20	429.11	04:01	409.65	08:18	422.18

20 DETAILS OF BREAK-DOWNS DURING THE MONTH OF FEBRUARY 2020 (Beakdown report will be updated later)

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
1	1.2.20	10:00	220KV GAZIPUR - MAHARANIBAGH CKT. -II	1.2.20	10:08	E/F
2	1.2.20	10:00	220KV GAZIPUR - MAHARANIBAGH CKT. -I	1.2.20	10:08	E/F
3	2.2.20	17:10	220kV PAPPANKALAN-I-NARAINA CKT-I	2.2.20	17:40	AT PAPANKALAN-III : DISTPROT, ZONE-II, 86AB
4	7.2.20	09:46	220 KV GOPALPUR-WAZIRABAD CKT - 1	7.2.20	09:47	AT GOPALPUR : 86.
5	8.2.20	09:37	220kV GOPALPUR- MANDOLACKT-I	8.2.20	17:40	AT GOPALPUR : DIFFERENTIAL, 86.
6	8.2.20	13:17	220kV GAZIPUR- PATPARGANJ CKT	8.2.20	13:18	AT PATPARGANJ : WITHOUT INDICATION.
7	13.2.20	17:54	220KV WAZIRABAD - MANDOLA CKT-IV	13.2.20	19:12	AT WAZIRABAD : DIST PROT, ZONE-I, DIST 1.726KM. AT MANDOLA DIST PRO, DIST 12.67KM.
8	14.2.20	16:55	220KV SHALIMARBAGH-WAZIRPUR CKT-I	14.2.20	18:34	AT WAZIRPUR : POLE DISCRIPANCY.
9	16.2.20	11:25	220kV PRAGATI - SARITA VIHAR CKT - I	16.2.20	14:09	AT PRAGATI : DIST PROT, ZONE-I, DIST 8.55KM.
10	16.2.20	14:45	INDRAPRASTHA POWER 220/33kV 100MVA Tx-III	16.2.20	16:25	86
11	18.2.20	10:10	OKHLA 66/11kV, 20MVA Tx-I	18.2.20	10:50	86
12	19.2.20	16:32	PAPPANKALAN-I 66/11kV, 20MVA Tx-III	19.2.20	18:18	CHECK TRIPPED TRANSFORMER.
13	20.2.20	10:15	220KV MUNDKA-PEERAGARHI CKT-I			AT PEERAGARHI : DIST PROT, ZONE-I.
14	20.2.20	13:09	220kV DSIIDC BAWANA-NARELA CKT-II	20.2.20	16:19	AT NARELA : 186, DIST PROT, DIST 6.521KM.
15	20.2.20	13:12	220kV DSIIDC BAWANA-NARELA CKT-I	20.2.20	16:19	AT NARELA : DIST PROT, DIST 6.28KM, ACTIVE GROUP-I.
16	20.2.20	22:19	KANJHAWALA 66/11kV, 20MVA Tx-I	20.2.20	22:46	86, PRV.
17	21.2.20	06:35	OKHLA 220/33kV 100MVA Tx-III	21.2.20	06:58	E/F.
18	21.2.20	06:35	OKHLA 220/33kV 100MVA Tx-IV	21.2.20	10:28	86
19	21.2.20	09:11	SHALIMAR BAGH 220/33kV 100MVA Tx-III	21.2.20	17:18	86, DIFFERENTIAL.
20	22.2.20	08:02	220kV PRAGATI - SARITA VIHAR CKT - I	22.2.20	10:31	AT PRAGATI : 86ABC, DIST PROT, DIST 2.616KM.
21	24.2.20	07:30	PAPPANKALAN-I 66/11kV, 20MVA Tx-II	24.2.20	18:50	FIRE IN TRENCH.
22	24.2.20	20:07	SUBZI MANDI 33/11kV, 16MVA Tx-I	24.2.20	23:20	86
23	25.2.20	12:41	220KV MUNDKA-PEERAGARHI CKT-II	26.2.20	12:15	AT MUNDKA : 86A&B.
24	27.2.20	15:20	220kV SHALIMAR BAGH - DMRC CKT			AT SHLIMARBAGH : DIST PROT, O/C, E/F.
25	27.2.20	15:21	220KV BAWANA-SHALIMARBAGH CKT-II	27.2.20	15:59	AT BAWANA : O/C, MASTER TRIP, DIST PROT,ZONE-II, DIST 9.7KM.
26	27.2.20	15:21	BAWANA 400/220kV 315MVA ICT-III	27.2.20	20:32	86
27	29.2.20	19:35	400kV Mandola-Bawana Ckt-I	29.2.20	20:36	AT BAWANA : TRIPPED WITHOUT INDICATION.
28	29.2.20	20:07	BAWANA 400/220kV 315MVA ICT-II	1.3.20	18:17	86
29	29.2.20	20:08	220kV BAWANA - KANJHAWALA CKT-2	29.2.20	16:51	AT KHANJAWALA : 86.

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

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