DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

****

AUG - 2019

1 SALIENT FEATURES OF DELHI POWER SYSTEM

Sr. No.	Features	AUG. 2018	AUG 2019
1	**Effective Generation Capacity within Delhi in MW**		
	Rajghat Power House	135	135
	Gas Turbine	270	270
	Pragati Power Corporation Ltd.	330	330
	Badapur Thermal Power Station	705	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)**	**5937**	**6473**
	Date	17.08.18	29.08.19
	Time	22.46.00	15.12.28
3	**Peak Demand met (MW)**	**5937**	**6473**
	Date	17.08.18	29.08.19
	Time	22.46.00	15.12.28
4	Peak Availability (MW)	5973	6379
5	Shortage (-) / Surplus (+) in MW	(+) 36	(-) 94
6	Percentage Shortage (-) / Surplus (+)	(+) 0.61	(-) 1.45
7	Maximum Energy Consume in a day (Mus)	125.273	132.612
8	Energy Consumed during the month	**3532.162**	**3545.520**
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	0.000	0.087
	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	**0.000**	**0.087**
B)	Due to Constraints in System in Mus		
	DTL	0.337	0.381
	NDPL	0.178	0.168
	BRPL	1.353	0.416
	BYPL	0.049	0.077
	NDMC	0.000	0.000
	MES	0.000	0.000
	Other Agencies	0.021	0.000
	Total	**1.938**	**1.042**
11	**Grand Total in Mus**	**1.938**	**1.129**

2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING AUG 2019

A) For the month of Aug 2019

All Figures in MUs

S. No	Stations	Gross Generation	Aux. Consumption	Net Generation	Availability (%)	Backing Down
1.	**RPH**	0.000	0.116	-0.116	0.00	0.00
2.	**GT**	46.195	1.816	44.379	87.22	125.06
3.	**PPCL**	127.984	3.041	134.943	95.87	288.31
4.	**BTPS**	0.000	0.538	-0.538	0.00	0.00
5.	**Rithala**	0.000	0.000	0.000	0.00	0.00
6.	**Bawana**	378.352	11.850	366.502	91.52	540.988
7.	**Towmcl**	13.932	2.078	11.854	--	--
8.	**EDWPCL**	0.674	0.394	0.280	--	-
9.	**DMSWL**	13.455	2.398	11.057	--	--
	TOTAL	**580.592**	**22.231**	**568.361**	**--**	**954.358**

B) For the Year 2019-20 (Upto Aug 2019)

Power Station	Effective Capacity (MW)	Net Generation in MUs for Aug 2019	Availability (%) for Aug 2019	PLF (%) for Aug 2019	Cumulative Generation in MUs upto Aug 2019 for the year 2019-20	Cumulative Availability in % upto Aug 2019 for the year 2019-20	Cumulative PLF in % upto Aug 2019 for the year 2019-20
RPH	135	-0.116	0.00	0.00	-0.640	0.00	-0.12
GT	270	44.379	87.22	23.03	258.120	85.23	26.82
PPCL	330	134.943	95.87	52.59	693.752	94.42	59.08
BTPS	705	-0.538	0.00	0.00	-2.919	--	--
Rithala	108	0.000	0.00	0.00	0.000	0.00	0.00
Bawana	1372	366.502	91.52	38.13	1681.372	86.25	34.71
Towmcl	16	11.854	--	120.94	62.520	--	--
EDWPCL	--	0.280	--	7.80	11.180	--	--
DMSWL	--	11.057	--	77.83	51.856	---	--
TOTAL	2936	**568.361**	--	--	**2755.241**	--	--

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.

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.

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.

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.

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

(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	

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	31.08.19	23.59	

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

(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.

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.

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.

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.

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	

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.

4 ALLOCATION OF POWER TO DELHI

A) Time block 00.00hrs. to 24.00hrs. @ 0% allocation from Unallocated Quota from 25.02.2019

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	728	665	0	0	665
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**	**2298**	**2073**	**0**	**0**	**2073**
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**	**3126**	**2852**	**0**	**0**	**2852**
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**	**4525**	**4122**	**0**	**0**	**4122**

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 AUGUST 2019

Date	Time of peak demand			Generation within Delhi							Import from the Grid	Schedule from the Grid	OD(-) / UD(+)	Demand met	Shedding	Un-Restricted Demand
		RPH	GT	PPCL	Bawana	Townmcd	East Delhi	DMS WL	BTPS	Total						
(1)	(2)	(3)	(4)	(5)	(7)	(8)				(9)= (3) to (8)	(10)	(11)	(12)= (11) - (10)	(13)= (11)+ (12)	(14)	(15)= (13)+ (14)
1	23.17.18	0	37	138	601	18	2	15	0	811	5161	5001	160	5972	0	5972
2	00.00.00	0	38	136	592	14	-2	14	0	792	4999	4935	64	5791	0	5791
3	00.01.26	0	65	144	483	17	3	14	0	726	4723	4718	5	5449	12	5461
4	22.53.44	0	65	142	306	12	4	10	0	539	5037	4737	300	5576	0	5576
5	22.53.36	0	74	243	613	14	-1	7	0	950	5105	4892	213	6055	0	6055
6	00.00.02	0	75	260	612	14	-1	4	0	964	4735	4613	122	5699	0	5699
7	22.49.58	0	63	142	469	14	4	16	0	708	4821	4833	-12	5529	0	5529
8	22.45.43	0	117	297	611	18	-2	16	0	1057	5076	4587	489	6133	0	6133
9	00.00.01	0	160	299	617	17	1	16	0	1110	4764	4098	666	5874	0	5874
10	23.27.55	0	2	149	470	10	0	13	0	644	4805	4670	135	5449	0	5449
11	23.11.09	0	2	148	575	17	0	18	0	760	5035	4960	75	5795	0	5795
12	22.50.35	0	2	150	594	18	0	18	0	782	4931	4868	63	5713	0	5713
13	15.19.58	0	35	149	498	17	0	16	0	715	4981	4895	86	5696	0	5696
14	23.10.41	0	68	150	610	18	0	16	0	862	4660	4558	102	5522	0	5522
15	00.00.31	0	68	150	587	16	0	17	0	838	4506	4552	-46	5344	0	5344
16	15.01.08	0	35	148	467	16	0	16	0	682	4435	4404	31	5117	2	5119
17	00.00.05	0	35	150	470	16	0	6	0	677	4244	4211	33	4921	0	4921
18	23.00.05	0	36	153	468	16	0	7	0	680	3735	3726	9	4415	0	4415
19	22.59.14	0	34	145	613	17	0	17	0	826	4379	4386	-7	5205	0	5205
20	23.06.05	0	34	149	520	17	0	16	0	736	4713	4658	55	5449	0	5449
21	22.49.23	0	68	149	605	17	0	20	0	859	5005	4991	14	5864	0	5864
22	00.00.52	0	68	149	544	17	0	19	0	797	4758	4722	36	5555	0	5555
23	22.55.21	0	67	142	557	18	0	18	0	802	5044	4981	63	5846	0	5846
24	00.00.44	0	67	149	470	18	0	17	0	721	4979	4595	384	5700	0	5700
25	23.01.44	0	72	148	431	19	0	17	0	687	4252	4245	7	4939	0	4939
26	23.10.11	0	72	149	510	18	0	16	0	765	4921	4873	48	5686	0	5686
27	22.41.28	0	106	265	606	17	0	18	0	1012	5088	4850	238	6100	0	6100
28	23.01.56	0	107	301	594	18	0	18	0	1038	5338	5370	-32	6376	0	6376
29	15.12.28	0	92	276	621	17	0	17	0	1023	5450	5356	94	6473	0	6473
30	23.09.59	0	73	141	699	18	0	17	0	948	5522	5455	67	6470	0	6470
31	23.19.26	0	77	142	1012	17	-1	16	0	1263	5022	4931	91	6285	0	6285

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

Date	Time of peak demand			Generation within Delhi							Import from the Grid	Schedule from the Grid	OD(-) / UD(+)	Demand met	Shedding	Un-Restricted Demand
		RPH	GT	PPCL	Bawana	Townmcl	East Delhi	DMS WL	BTPS	Total						
(1)	(2)	(3)	(4)	(5)	(7)	(8)				(9)= (3) to (8)	(10)	(11)	(12)= (11) - (10)	(13)= (11)+ (12)	(14)	(15)= (13)+ (14)
1	23.17.18	0	37	138	601	18	2	15	0	811	5161	5001	160	5972	0	5972
2	00.00.00	0	38	136	592	14	-2	14	0	792	4999	4935	64	5791	0	5791
3	00.01.26	0	65	144	483	17	3	14	0	726	4723	4718	5	5449	12	5461
4	22.53.44	0	65	142	306	12	4	10	0	539	5037	4737	300	5576	0	5576
5	22.53.36	0	74	243	613	14	-1	7	0	950	5105	4892	213	6055	0	6055
6	00.00.02	0	75	260	612	14	-1	4	0	964	4735	4613	122	5699	0	5699
7	22.49.58	0	63	142	469	14	4	16	0	708	4821	4833	-12	5529	0	5529
8	22.45.43	0	117	297	611	18	-2	16	0	1057	5076	4587	489	6133	0	6133
9	00.00.01	0	160	299	617	17	1	16	0	1110	4764	4098	666	5874	0	5874
10	23.27.55	0	2	149	470	10	0	13	0	644	4805	4670	135	5449	0	5449
11	23.11.09	0	2	148	575	17	0	18	0	760	5035	4960	75	5795	0	5795
12	22.50.35	0	2	150	594	18	0	18	0	782	4931	4868	63	5713	0	5713
13	15.19.58	0	35	149	498	17	0	16	0	715	4981	4895	86	5696	0	5696
14	23.10.41	0	68	150	610	18	0	16	0	862	4660	4558	102	5522	0	5522
15	00.00.31	0	68	150	587	16	0	17	0	838	4506	4552	-46	5344	0	5344
16	15.01.08	0	35	148	467	16	0	16	0	682	4435	4404	31	5117	2	5119
17	00.00.05	0	35	150	470	16	0	6	0	677	4244	4211	33	4921	0	4921
18	23.00.05	0	36	153	468	16	0	7	0	680	3735	3726	9	4415	0	4415
19	22.59.14	0	34	145	613	17	0	17	0	826	4379	4386	-7	5205	0	5205
20	23.06.05	0	34	149	520	17	0	16	0	736	4713	4658	55	5449	0	5449
21	22.49.23	0	68	149	605	17	0	20	0	859	5005	4991	14	5864	0	5864
22	00.00.52	0	68	149	544	17	0	19	0	797	4758	4722	36	5555	0	5555
23	22.55.21	0	67	142	557	18	0	18	0	802	5044	4981	63	5846	0	5846
24	00.00.44	0	67	149	470	18	0	17	0	721	4979	4595	384	5700	0	5700
25	23.01.44	0	72	148	431	19	0	17	0	687	4252	4245	7	4939	0	4939
26	23.10.11	0	72	149	510	18	0	16	0	765	4921	4873	48	5686	0	5686
27	22.41.28	0	106	265	606	17	0	18	0	1012	5088	4850	238	6100	0	6100
28	23.01.56	0	107	301	594	18	0	18	0	1038	5338	5370	-32	6376	0	6376
29	15.12.28	0	92	276	621	17	0	17	0	1023	5450	5356	94	6473	0	6473
30	23.09.59	0	73	141	699	18	0	17	0	948	5522	5455	67	6470	0	6470
31	23.19.26	0	77	142	1012	17	-1	16	0	1263	5022	4931	91	6285	0	6285

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

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

A (i) RPH	0.000
(ii) GT+STG	46.195
(iii) PRAGATI	127.984
(iv) RITHALA	0.000
(v) BAWANA CCGT	378.352
(vi) Timarpur – Okhla	13.932
EDWPCL	0.674
DMSWL	13.455
TOTAL	580.592
B) AVAILABILITY FROM BTPS	-0.538
C) AUXILIARY CONSUMPTION OF GENERATING STNs. EXCLUDING BTPS	21.693
D) NET GENERATION AVAILABLE WITHIN DELHI(A+B-C)	**558.361**

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	4.796	4.677	4.796	4.677
SALAL	58.972	57.789	58.972	57.789
SASAN	249.767	243.041	249.455	242.737
TANKAPUR	8.116	7.933	8.116	7.933
CHAMERA	31.020	30.399	31.020	30.399
CHAMERA -II	13.031	12.769	13.031	12.769
CHAMERA -III	19.587	19.193	19.587	19.193
DHAULIGANGA	26.503	25.908	26.503	25.908
SEWA -2	8.980	8.801	8.980	8.801
URI	27.194	26.716	27.194	26.716
URI-II	20.809	20.443	20.809	20.443
KOLDAM	0.000	0.000	0.000	0.000
KOTESHWAR	11.241	10.989	11.241	10.989
PARBATI3	21.411	20.983	21.411	20.983
RAMPUR	0.000	0.000	0.000	0.000
MUNDRA_UMPP	0.000	0.000	0.000	0.000
ANTA (GAS)	0.286	0.279	0.021	0.020
ANTA (RLNG)	14.496	14.122	0.009	0.009
ANTA (LIQUID)	0.000	0.000	0.000	0.000
DADRI (GAS)	13.634	13.423	8.765	8.627
DADRI (RLNG)	50.901	50.137	0.198	0.194
DADRI (LIQUID)	0.021	0.021	0.000	0.000
AURAIYA (GAS)	13.271	12.946	8.878	8.661
AURAIYA (RLNG)	32.463	31.641	0.301	0.294
AURAIYA (LIQUID)	0.000	0.000	0.000	0.000
SINGRAULI	87.934	85.299	82.562	80.085
SINGRAULI_HYDRO	0.027	0.026	0.027	0.026
RIHAND -I	68.417	66.368	66.764	64.763
RIHAND -II	50.727	49.212	49.183	47.714
RIHAND -III	87.183	84.825	85.824	83.502
UNCHAHAR-I	16.345	15.978	12.343	12.065
UNCHAHAR-II	31.651	30.938	24.602	24.046
UNCHAHAR-III	19.293	18.858	15.200	14.856
UNCHAHAR-IV	0.000	0.000	0.000	0.000
DADRI (TH)	504.425	496.817	307.278	302.600
DADRI (TH) STAGE-II	362.961	357.533	295.583	291.151
TALCHER FOR AUX. OF BTPS	0.144	0.140	0.144	0.140
NAPP	29.456	28.719	29.456	28.719
RAPP 'B'	0.000	0.000	0.000	0.000
RAPP 'C'	39.044	37.681	39.044	37.681
NATHPA JHAKRI	105.062	102.948	105.062	102.948
DULASTI	27.741	27.183	27.741	27.183

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	20.094	19.643	20.094	19.643
JHAJJAR	486.148	478.802	103.016	101.334
KHELGAON	28.062	27.598	24.122	23.721
KHELGAON-II	102.743	101.054	91.479	89.971
FARAKA	14.622	14.349	12.308	12.078
TALA	21.284	20.829	21.284	20.829
TALCHER	0.000	0.000	0.000	0.000
DVC	176.793	175.654	175.654	174.744
TUTICORIN - BRPL	21.301	21.036	21.036	20.925
MADHYA PRADESH	78.653	77.868	77.868	77.463
UTTAR PRADESH	2.837	2.796	2.796	2.782
WEST BENGAL	0.217	0.214	0.214	0.213
SCLTPS (UP)	0.081	0.080	0.080	0.079
HARYANA	0.273	0.269	0.269	0.267
SEIL PROJECT(ANDHRA PRADESH)	21.960	21.737	21.737	21.616
MEGHALAYA	22.761	22.649	22.649	22.531
ANDHRA	116.907	115.742	115.742	115.141
KARNATAKA	0.184	0.180	0.180	0.180
PUNJAB	0.874	0.866	0.866	0.861
METHON POWER(NDPL)LT-06	151.470	150.489	150.489	149.696
DVC MEJIA (LT-08)(BYPL)	4.869	4.835	4.835	4.802
Acme_RUMS	10.945	10.827	10.827	10.771
Arinsun_RUMS	10.908	10.790	10.790	10.734
Mahindra_RUMS	2.918	2.887	2.887	2.872
URS	0.664	0.661	0.664	0.661
JAMMU & KASHMIR	78.929	78.033	78.033	77.628
HIMACHAL PRADESH	354.231	348.435	348.435	346.629
JHARKHAND	0.131	0.129	0.129	0.129
GUJRAT	3.850	3.784	3.784	3.765
JP NIGREE	0.396	0.388	0.388	0.386
NAGALAND	2.345	2.333	2.333	2.320
HIMACHAL PRADESH LT-59 DVC	7.950	7.820	7.820	7.780
HARYANA (LT-05)	54.997	54.649	54.649	54.363
ILF TNEB	0.151	0.149	0.149	0.148
ODHISHA	13.069	12.919	12.919	12.852
ORISSA MT-20 JITPL -DVC	5.102	5.045	5.045	5.019
RAJASTHAN	0.153	0.150	0.150	0.149
MANIPUR	21.525	21.365	21.365	21.254
RAJASTHAN(SOLAR) BRPL-LT36	3.269	3.207	3.207	3.190
RAJASTHAN(SOLAR) BYPL - LT-35	3.312	3.249	3.249	3.233
RAJASTHAN(SOLAR) TPDDL LT-31	3.485	3.420	3.420	3.402
TO JHARKHAND	0.000	0.000	0.000	0.000
TO ANDHRA	-0.197	-0.199	-0.199	-0.201
TO UTTAR PRADESH	0.000	0.000	0.000	0.000
TO WEST BENGAL	0.000	0.000	0.000	0.000
TO ASSAM	0.000	0.000	0.000	0.000
TO VLCPP 1800	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	0.000	0.000	0.000	0.000
TO GUJRAT	0.000	0.000	0.000	0.000
POWER EXCHANGE(IEX)	68.458	68.020	68.458	68.020
TO POWER EXCHANGE (IEX)	-60.496	-61.125	-60.496	-61.125
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)	-28.320	-28.607	-28.320	-28.607
TO SHARE PROJECT (PUNJAB)	-28.423	-28.711	-28.423	-28.711
TOTAL	**3858.394**	**3791.046**	**3048.084**	**3000.158**

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	1354.036	1328.424	957.538	938.613
NTPC - ER	145.427	143.001	127.909	125.771
NHPC	268.161	262.794	268.161	262.794
NPC	68.500	66.400	68.500	66.400
SASAN	249.767	243.041	249.455	242.737
KOTESHWAR	11.241	10.989	11.241	10.989
MUNDRA_UMPP	0.000	0.000	0.000	0.000
NATHPA JHAKRI	105.062	102.948	105.062	102.948
TALCHER FOR AUX. OF BTPS	0.144	0.140	0.144	0.140
TEHRI	20.094	19.643	20.094	19.643
TALA	21.284	20.829	21.284	20.829
JHAJJAR	486.148	478.802	103.016	101.334
TALCHER	0.000	0.000	0.000	0.000
RAJASTHAN SOLAR(BRPL)T-36	3.269	3.207	3.207	3.190
RAJASTHAN SOLAR(BYPL)T-35	3.312	3.249	3.249	3.233
RAJASTHAN SOLAR(TPDDL)T-31	3.485	3.420	3.420	3.402
DVC	176.793	175.654	175.654	174.744
TUTICORIN BRPL	21.301	21.036	21.036	20.925
MADHYA PRADESH	78.653	77.868	77.868	77.463
UTTAR PRADESH	2.837	2.796	2.796	2.782
WEST BENGAL	0.217	0.214	0.214	0.213
SCLTPS (UP)	0.081	0.080	0.080	0.079
HARYANA	0.273	0.269	0.269	0.267
SEIL PROJECT(ANDHRA PRADESH)	21.960	21.737	21.737	21.616
MEGHALAYA	22.761	22.649	22.649	22.531
ANDHRA	116.907	115.742	115.742	115.141
KARNATAKA	0.184	0.180	0.180	0.180
PUNJAB	0.874	0.866	0.866	0.861
METHON POWER (NDPL)-LT-06	151.470	150.489	150.489	149.696
DVC MEJIA (LT-08)(BYPL)	4.869	4.835	4.835	4.802
Acme_RUMS	10.945	10.827	10.827	10.771
Arinsun_RUMS	10.908	10.790	10.790	10.734
Mahindra_RUMS	2.918	2.887	2.887	2.872
URS	0.664	0.661	0.664	0.661
JAMMU & KASHMIR	78.929	78.033	78.033	77.628
HIMACHAL PRADESH	354.231	348.435	348.435	346.629
JHARKHAND	0.131	0.129	0.129	0.129
GUJRAT	3.850	3.784	3.784	3.765
JP NIGREE (MP)	0.396	0.388	0.388	0.386
NAGALAND	2.345	2.333	2.333	2.320
HIMACHAL PRADESH LT-59 DVC	7.950	7.820	7.820	7.780
HARYANA (LT -05)	54.997	54.649	54.649	54.363
ILF TNEB	0.151	0.149	0.149	0.148
ODISHA	13.069	12.919	12.919	12.852
ORISSA MT-20 JITPL -DVC	5.102	5.045	5.045	5.019
RAJASTHAN	0.153	0.150	0.150	0.149
MANIPUR	21.525	21.365	21.365	21.254
POWER EXCHANGE(IEX)	68.458	68.020	68.458	68.020
POWER EXCHANGE(PX)	0.000	0.000	0.000	0.000
TOTAL	**3975.830**	**3909.688**	**3165.523**	**3118.802**

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	-0.197	-0.199	-0.199	-0.201
TO UTTAR PRADESH	0.000	0.000	0.000	0.000
TO WEST BENGAL	0.000	0.000	0.000	0.000
TO VLCPP 1800 (RJ)	0.000	0.000	0.000	0.000
TO ASSAM	0.000	0.000	0.000	0.000
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	0.000	0.000	0.000	0.000
TO GUJRAT	0.000	0.000	0.000	0.000
TO POWER EXCHANGE (IEX)	-60.496	-61.125	-60.496	-61.125
TO POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
TO SHARE PROJECT (HARYANA)	-28.320	-28.607	-28.320	-28.607
TO SHARE PROJECT (PUNJAB)	-28.423	-28.711	-28.423	-28.711
TOTAL	**-117.436**	**-118.642**	**-117.438**	**-118.644**
TOTAL SCHEDULED DRAWAL FROM THE GRID	**3858.394**	**3791.046**	**3048.084**	**3000.158**

TOTAL CONSUMPTION INCLUDING AUX. OF GENERATING STNs. EXCLUDING BTPS		3567.213
NET CONSUMPTION		**3545.520**
AVAILABILITY WITHIN DELHI		558.361
ACTUAL DRAWAL FROM THE GRID		2987.159
OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID ON THE BASIS OF SCHEDULED ALLOCATION MADE BY NRLDC TO DELHI AT PERIPHERY		-12.999
LOAD SHEDDING		1.128
UNRESTRICTED DEMAND (GROSS)		3568.341
UNRESTRICTED DEMAND (NET)		3546.648
MAX. NET CONSUMPTION		132.612 ON 29.08.2019
MAX. LOAD SHEDDING		195MW ON 17.08.2019 AT 09.52HRS.
PEAK LOAD	Peak Demand during the month	SHEDDING AT PEAK TIME
DAY PEAK	6473MW AT 15.12.28 HRS ON 29.08.2019	0 MW
EVENING PEAK	6470MW AT 23.09.59HRS ON 30.08.2019	0 MW
P.L.F. OF GENCO AND PRAGATI STNs.	RPH	0.00%
	GT	23.76%
	PRAGATI	53.87%
	RITHALA	0.00%
	BAWANA	38.33%
	Timarpur Okhla	120.94%
	EDWPCL	7.80%
	DMSWL	77.86%

9 SHEDDING DETAILS DURING THE MONTH OF AUGUST 2019.

ALL FIGURES IN MUs

DATE	No. of Under Freq. Relay Operated	Shedding due to under frequency relay operation in MUs					Shedding due to Grid Restrictions (Over drawal / low freq.)				
		BSES		NDPL	NDMC	TOTAL	BSES		NDPL	NDMC	MES
		BYPL	BRPL				BYPL	BRPL			
1	2	3	4	5	6	7=3 to 6	8	9	10	11	12
01.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.007	0.00	0.00
02.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
03.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
04.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
05.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
06.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
07.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
08.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.055	0.00	0.00
09.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
10.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
11.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
12.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
13.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
14.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
15.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
16.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
17.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
18.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.025	0.00	0.00
19.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
20.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
21.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
22.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
23.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
24.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
25.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
26.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
27.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
28.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
29.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
30.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
31.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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.Aug.19	0.000	0.000	0.003	0.000	0.000	0.004	0.000	0.000	0.000
02.Aug.19	0.000	0.000	0.005	0.000	0.000	0.000	0.002	0.002	0.000
03.Aug.19	0.000	0.000	0.000	0.000	0.000	0.000	0.039	0.000	0.000
04.Aug.19	0.000	0.000	0.000	0.000	0.000	0.000	**0.0003**	0.000	0.000
05.Aug.19	0.000	0.000	0.000	0.000	0.000	0.025	0.020	**0.0004**	0.000
06.Aug.19	0.000	0.000	0.000	0.000	0.000	0.014	0.021	0.004	0.000
07.Aug.19	0.002	0.000	0.006	0.000	0.000	0.000	0.010	0.000	0.000
08.Aug.19	0.000	0.000	0.000	0.000	0.000	0.000	0.013	0.007	0.000
09.Aug.19	0.000	0.000	0.004	0.000	0.000	0.003	0.009	0.000	0.000
10.Aug.19	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
11.Aug.19	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.006	0.000
12.Aug.19	0.000	0.004	0.002	0.000	0.000	0.000	0.020	0.000	0.000
13.Aug.19	0.000	0.004	0.000	0.000	0.000	0.000	0.032	0.000	0.000
14.Aug.19	0.000	0.000	0.023	0.000	0.000	0.004	0.008	0.001	0.000
15.Aug.19	0.115	0.000	0.015	0.000	0.000	0.000	0.043	0.000	0.000
16.Aug.19	0.000	0.000	0.000	0.000	0.000	0.005	0.017	0.002	0.000
17.Aug.19	0.095	0.002	0.004	0.000	0.000	0.004	0.032	0.012	0.000
18.Aug.19	0.000	0.000	0.002	0.000	0.000	0.000	0.001	0.054	0.000
19.Aug.19	0.000	0.000	0.000	0.000	0.000	0.000	0.028	**0.0002**	0.000
20.Aug.19	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.001	0.000
21.Aug.19	0.001	0.021	0.000	0.000	0.000	0.000	0.025	0.000	0.000
22.Aug.19	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.003	0.000
23.Aug.19	0.001	0.000	0.010	0.000	0.000	0.000	0.003	0.001	0.000
24.Aug.19	0.015	0.028	0.000	0.000	0.000	0.000	0.004	0.002	0.000
25.Aug.19	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.000
26.Aug.19	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000
27.Aug.19	0.000	0.000	0.000	0.000	0.000	0.012	0.003	0.041	0.000
28.Aug.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.000
29.Aug.19	0.000	0.000	0.000	0.000	0.000	0.000	0.033	0.013	0.000
30.Aug.19	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.007	0.000
31.Aug.19	0.000	0.009	0.000	0.000	0.000	0.005	0.035	0.004	0.000
TOTAL	**0.229**	**0.075**	**0.077**	**0.000**	**0.000**	**0.077**	**0.416**	**0.168**	**0.000**

ALL FIGURES IN MUs

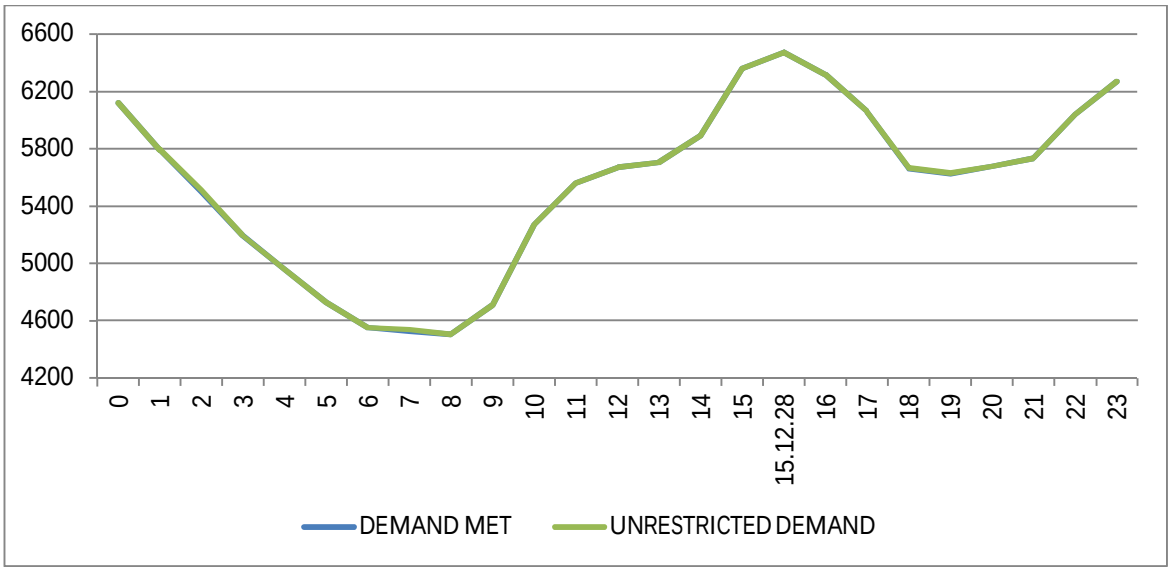
DATE	OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.				THEFT PRONE SHEDDING			TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE	GRAND TOTAL
	BSES		NDPL	NDMC	BSES		NDPL		
	BYPL	BRPL			BYPL	BRPL			
1	35	36	37	38	39	40	41	42= 26 to 41	43 = 25 + 42
01.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.007**	**0.014**
02.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.009**	**0.009**
03.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.039**	**0.039**
04.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.0003**	**0.0003**
05.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.046**	**0.046**
06.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.039**	**0.039**
07.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.018**	**0.018**
08.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.020**	**0.075**
09.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.016**	**0.016**
10.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.001**	**0.001**
11.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.009**	**0.009**
12.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.026**	**0.026**
13.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.036**	**0.036**
14.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.036**	**0.036**
15.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.173**	**0.173**
16.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.024**	**0.024**
17.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.149**	**0.149**
18.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.057**	**0.082**
19.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.028**	**0.028**
20.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.005**	**0.005**
21.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.047**	**0.047**
22.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.009**	**0.009**
23.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.015**	**0.015**
24.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.049**	**0.049**
25.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.005**	**0.005**
26.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.002**	**0.002**
27.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.056**	**0.056**
28.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.007**	**0.007**
29.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.046**	**0.046**
30.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.014**	**0.014**
31.Aug.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.053**	**0.053**
TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.041**	**1.128**

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.Aug.19	122.386	5972	23:17:18	0	5972	5972	23:17:18	5972	0
02.Aug.19	120.853	5791	00:00	0	5791	5791	00:00	5791	0
03.Aug.19	111.883	5449	00:01:26	12	5461	5461	00:01:26	5449	12
04.Aug.19	107.811	5576	22:53:44	0	5576	5576	22:53:44	5576	0
05.Aug.19	120.489	6055	22:53:36	0	6055	6055	22:53:36	6055	0
06.Aug.19	110.177	5699	00:00:02	0	5699	5699	00:00:02	5699	0
07.Aug.19	111.886	5529	22:49:58	0	5529	5529	22:49:58	5529	0
08.Aug.19	119.485	6133	22:45:43	0	6133	6133	22:45:43	6133	0
09.Aug.19	120.711	5874	00:00:01	0	5874	5874	00:00:01	5874	0
10.Aug.19	111.166	5449	23:27:55	0	5449	5449	23:27:55	5449	0
11.Aug.19	112.200	5795	23:11:09	0	5795	5795	23:11:09	5795	0
12.Aug.19	115.807	5713	22:50:35	0	5713	5713	22:50:35	5713	0
13.Aug.19	117.179	5696	15:19:58	0	5696	5696	15:19:58	5696	0
14.Aug.19	114.657	5522	23:10:41	0	5522	5522	23:10:41	5522	0
15.Aug.19	99.035	5344	00:00:31	0	5344	5344	00:00:31	5344	0
16.Aug.19	108.142	5117	15:01:08	2	5119	5119	15:01:08	5117	2
17.Aug.19	98.892	4921	00:00:05	0	4921	4921	00:00:05	4921	0
18.Aug.19	89.093	4415	23:00:05	0	4415	4415	23:00:05	4415	0
19.Aug.19	102.750	5205	22:59:14	0	5205	5205	22:59:14	5205	0
20.Aug.19	111.311	5449	23:06:05	0	5449	5449	23:06:05	5449	0
21.Aug.19	118.235	5864	22:49:23	0	5864	5864	22:49:23	5864	0
22.Aug.19	115.429	5555	00:00:52	0	5555	5555	00:00:52	5555	0
23.Aug.19	118.869	5846	22:55:21	0	5846	5846	22:55:21	5846	0
24.Aug.19	108.910	5700	00:00:44	0	5700	5700	00:00:44	5700	0
25.Aug.19	103.245	4939	23:01:44	0	4939	4939	23:01:44	4939	0
26.Aug.19	110.876	5686	23:10:11	0	5686	5686	23:10:11	5686	0
27.Aug.19	120.411	6100	22:41:28	0	6100	6100	22:41:28	6100	0
28.Aug.19	129.688	6376	23:01:56	0	6376	6376	23:01:56	6376	0
29.Aug.19	132.612	6473	15:12:28	0	6473	6473	15:12:28	6473	0
30.Aug.19	131.983	6470	23:09:59	0	6470	6470	23:09:59	6470	0
31.Aug.19	129.349	6285	23:19:26	0	6285	6285	23:19:26	6285	0
TOTAL	3545.520	6473 29.08.19	15:12:28	0	6473 29.08.19	6473	15:12:28	6473	0

10 LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING AUG-2019 ON 29.08.2019- 6473MW AT 15.12.28HRS.

All figures in MW

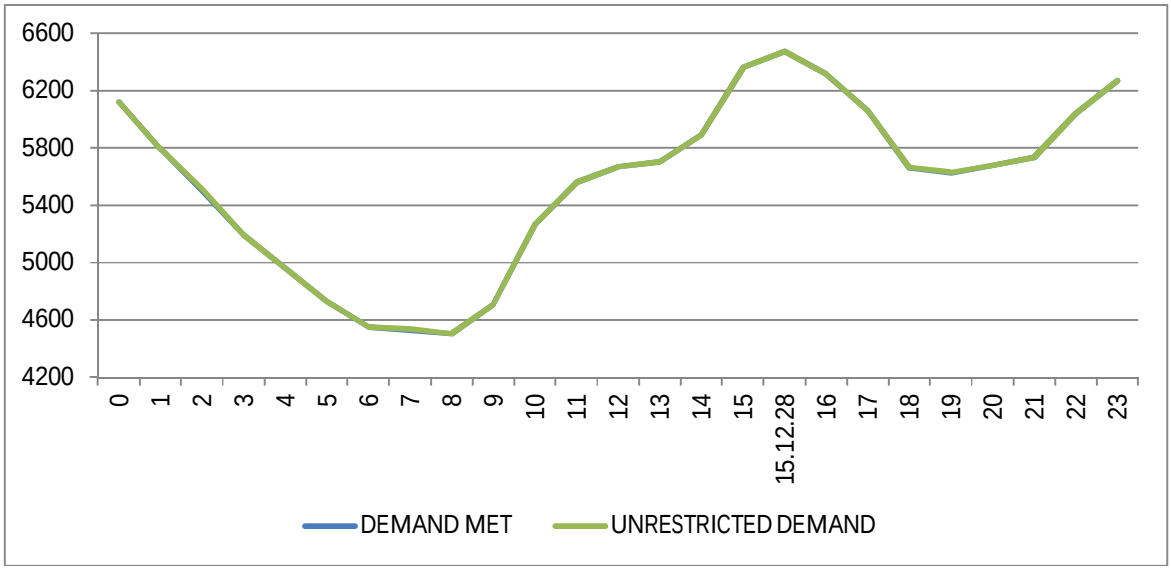
Hrs.	Demand	Load Shedding	Un-Restricted Demand
00.00	6119	0	6119
01.00	5794	0	5794
02.00	5500	10	5510
03.00	5195	0	5195
04.00	4958	0	4958
05.00	4731	0	4731
06.00	4551	0	4551
07.00	4524	16	4540
08.00	4502	0	4502
09.00	4710	0	4710
10.00	5269	0	5269
11.00	5560	0	5560
12.00	5668	0	5668
13.00	5704	0	5704
14.00	5892	0	5892
15.00	6358	0	6358
15.12.28	6473	0	6473
16.00	6317	0	6317
17.00	6058	0	6058
18.00	5659	5	5664
19.00	5627	3	5630
20.00	5678	0	5678
21.00	5733	0	5733
22.00	6038	0	6038
23.00	6268	0	6268
24.00	6054	0	6054
Total (IN MUS)	**132.612**	**0.046**	**132.658**



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING AUG 2019 ON 29.08.2019- 6473MW AT 15.12.28HRS.

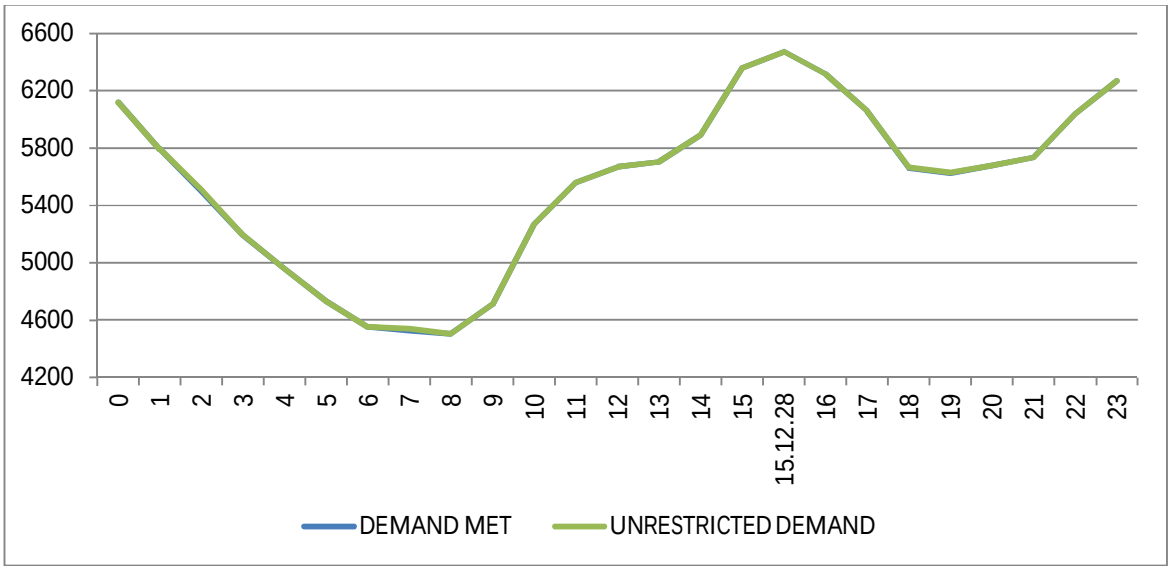
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
00.00	6119	0	6119
01.00	5794	0	5794
02.00	5500	10	5510
03.00	5195	0	5195
04.00	4958	0	4958
05.00	4731	0	4731
06.00	4551	0	4551
07.00	4524	16	4540
08.00	4502	0	4502
09.00	4710	0	4710
10.00	5269	0	5269
11.00	5560	0	5560
12.00	5668	0	5668
13.00	5704	0	5704
14.00	5892	0	5892
15.00	6358	0	6358
15.12.28	6473	0	6473
16.00	6317	0	6317
17.00	6058	0	6058
18.00	5659	5	5664
19.00	5627	3	5630
20.00	5678	0	5678
21.00	5733	0	5733
22.00	6038	0	6038
23.00	6268	0	6268
24.00	6054	0	6054
Total (IN MUS)	**132.612**	**0.046**	**132.658**



12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING AUG 2019 – 29.08.2019 – 132.612Mus All figures in MW

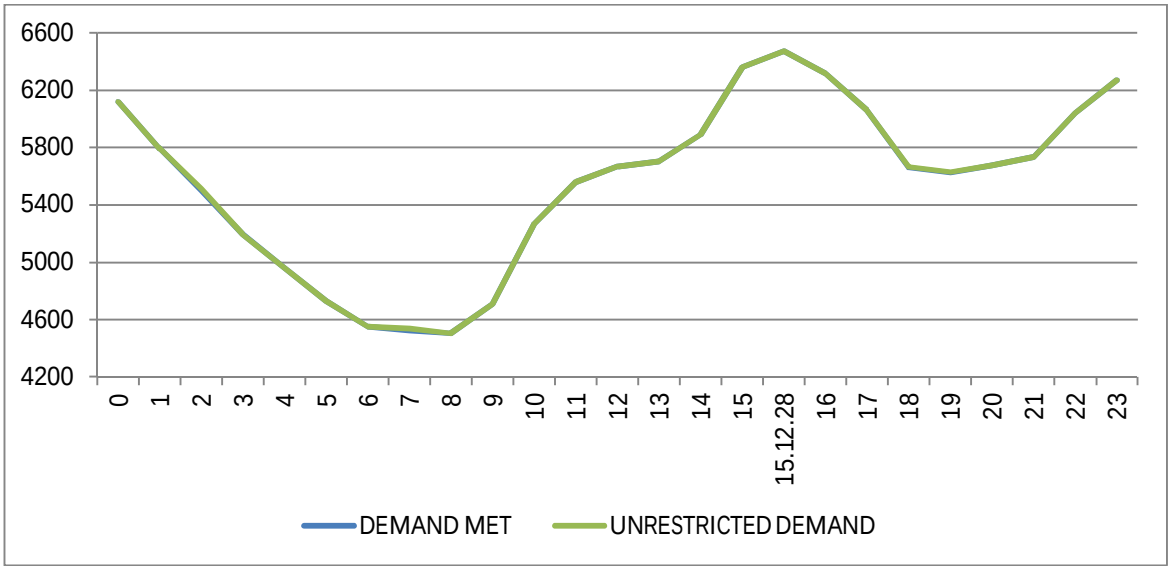
Hrs.	Demand	Load Shedding	Un-Restricted Demand
00.00	6119	0	6119
01.00	5794	0	5794
02.00	5500	10	5510
03.00	5195	0	5195
04.00	4958	0	4958
05.00	4731	0	4731
06.00	4551	0	4551
07.00	4524	16	4540
08.00	4502	0	4502
09.00	4710	0	4710
10.00	5269	0	5269
11.00	5560	0	5560
12.00	5668	0	5668
13.00	5704	0	5704
14.00	5892	0	5892
15.00	6358	0	6358
15.12.28	6473	0	6473
16.00	6317	0	6317
17.00	6058	0	6058
18.00	5659	5	5664
19.00	5627	3	5630
20.00	5678	0	5678
21.00	5733	0	5733
22.00	6038	0	6038
23.00	6268	0	6268
24.00	6054	0	6054
Total (IN MUS)	**132.612**	**0.046**	**132.658**



13 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING AUG 2019 – 29.08.2019 – 132.658 Mus

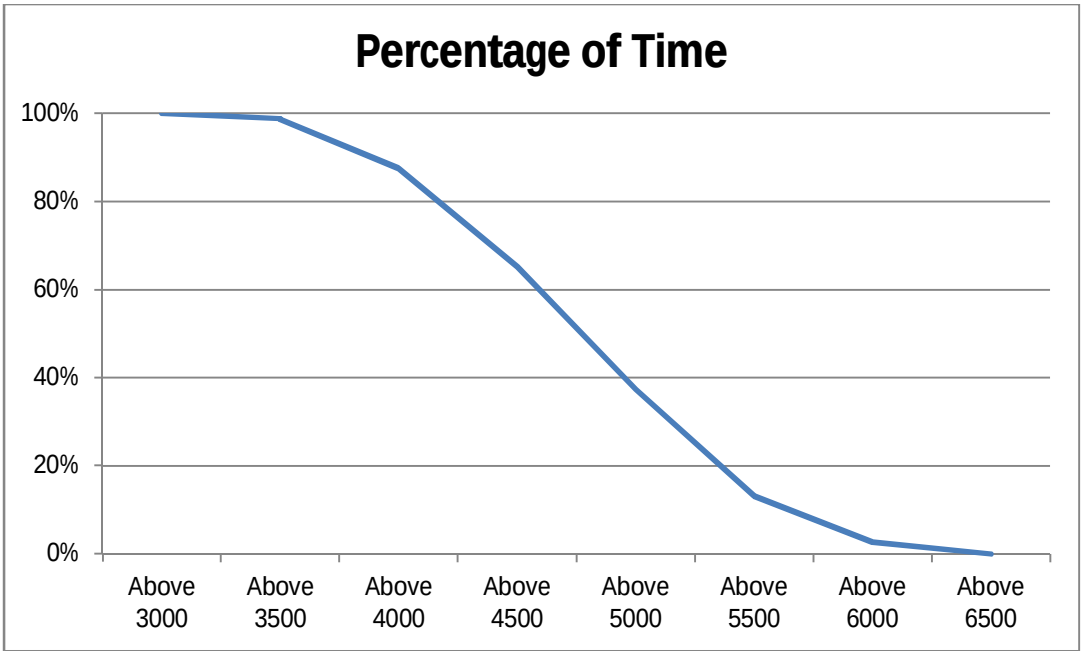
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
00.00	6119	0	6119
01.00	5794	0	5794
02.00	5500	10	5510
03.00	5195	0	5195
04.00	4958	0	4958
05.00	4731	0	4731
06.00	4551	0	4551
07.00	4524	16	4540
08.00	4502	0	4502
09.00	4710	0	4710
10.00	5269	0	5269
11.00	5560	0	5560
12.00	5668	0	5668
13.00	5704	0	5704
14.00	5892	0	5892
15.00	6358	0	6358
15.12.28	6473	0	6473
16.00	6317	0	6317
17.00	6058	0	6058
18.00	5659	5	5664
19.00	5627	3	5630
20.00	5678	0	5678
21.00	5733	0	5733
22.00	6038	0	6038
23.00	6268	0	6268
24.00	6054	0	6054
Total (IN MUS)	**132.612**	**0.046**	**132.658**



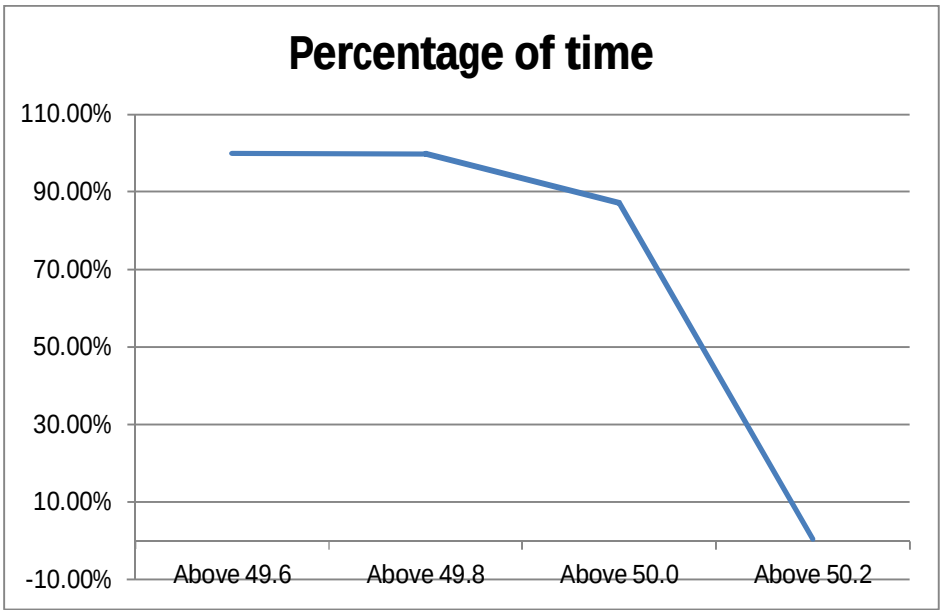
14 LOAD DURATION CURVE FOR AUGUST 2019

Load in MW	Percentage of Time
Above 3000	100%
Above 3500	98.72%
Above 4000	87.47%
Above 4500	65.22%
Above 5000	37.30%
Above 5500	13.17%
Above 6000	2.62%
Above 6500	0.00%



15 FREQUENCY ANALYSIS FOR THE MONTH OF AUGUST 2019

Frequency Range in Hz.	Percentage of time
Above 49.6	99.96%
Above 49.8	99.83%
Above 50.0	87.23%
Above 50.2	0.67%



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

All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
01.Aug.19	229.17	217.31	231.88	217.95
02.Aug.19	228.92	219.63	231.75	219.24
03.Aug.19	231.49	220.4	233.3	221.44
04.Aug.19	230.59	219.5	234.59	220.15
05.Aug.19	228.53	217.7	231.37	217.31
06.Aug.19	231.75	220.15	233.04	223.5
07.Aug.19	230.59	218.21	233.82	218.98
08.Aug.19	229.3	217.57	232.78	218.34
09.Aug.19	229.3	218.21	232.01	218.86
10.Aug.19	229.82	218.21	232.14	219.11
11.Aug.19	228.14	216.53	232.14	217.82
12.Aug.19	228.92	218.21	230.85	218.34
13.Aug.19	228.53	220.27	230.85	220.53
14.Aug.19	231.37	219.5	233.3	218.98
15.Aug.19	232.4	220.92	236.4	221.05
16.Aug.19	231.11	220.53	233.17	221.56
17.Aug.19	232.14	223.37	235.75	226.34
18.Aug.19	236.4	220.27	240.14	219.11
19.Aug.19	231.75	219.11	233.43	219.89
20.Aug.19	230.59	219.76	233.04	220.27
21.Aug.19	230.21	217.57	233.04	219.5
22.Aug.19	229.43	219.11	232.4	220.79
23.Aug.19	228.79	219.24	233.04	217.7
24.Aug.19	224.4	222.47	233.04	222.98
25.Aug.19	223.5	223.5	234.59	226.34
26.Aug.19	223.5	223.5	235.11	219.76
27.Aug.19	223.76	215.12	232.53	217.05
28.Aug.19	226.21	215.24	231.37	215.37
29.Aug.19	226.21	216.92	230.21	217.57
30.Aug.19	227.5	214.73	232.14	216.53
31.Aug.19	226.85	217.7	231.24	218.98

17 VOLTAGE PROFILE OF 400 KV SUB-STATIONS IN DELHI DURING JUNE 2019

All figures in kV

Date	400kV Bamnauli Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01.Aug.19	412.46	08:00:26	387.84	20:38:25	400.34
02.Aug.19	411.52	05:32:26	393.47	22:19:59	402.25
03.Aug.19	414.81	06:02:40	394.41	14:40:11	403.19
04.Aug.19	415.74	08:02:53	390.89	20:13:26	404.3
05.Aug.19	410.12	03:47:56	387.84	14:45:48	400.07
06.Aug.19	413.4	07:29:30	396.99	00:05:59	404.23
07.Aug.19	413.17	03:39:13	389.25	14:35:05	401.36
08.Aug.19	411.99	04:01:57	388.54	22:22:09	400.71
09.Aug.19	411.06	08:01:21	392.06	14:40:12	402.21
10.Aug.19	411.06	06:01:14	390.89	22:18:27	401.03
11.Aug.19	412.46	08:02:08	389.01	22:16:11	402.69
12.Aug.19	410.35	06:00:52	391.36	22:19:35	401.21
13.Aug.19	412.46	08:01:16	395.58	22:08:59	403.54
14.Aug.19	414.34	08:00:51	389.95	12:46:40	402.22
15.Aug.19	416.92	08:02:13	393.23	21:07:36	406.35
16.Aug.19	412.23	05:33:27	395.11	14:43:38	403.64
17.Aug.19	416.68	17:20:24	401.91	10:50:51	409.43
18.Aug.19	422.08	08:00:14	387.37	19:11:06	408.45
19.Aug.19	413.4	05:28:17	392.3	19:15:19	403.28
20.Aug.19	413.17	04:04:51	392.06	19:19:13	402.59
21.Aug.19	412.23	05:02:55	390.19	14:46:06	401.04
22.Aug.19	411.29	08:01:59	391.12	22:28:51	401.24
23.Aug.19	410.12	04:01:32	388.08	14:31:23	400.05
24.Aug.19	409.88	06:04:26	393.7	00:07:55	402.2
25.Aug.19	411.52	16:02:21	398.16	22:27:42	404.79
26.Aug.19	412.46	03:59:43	386.2	14:47:45	400.51
27.Aug.19	409.18	05:04:58	385.26	14:35:59	398.86
28.Aug.19	407.77	04:02:21	384.56	14:27:43	397.71
29.Aug.19	408.94	08:01:55	387.84	14:41:06	398.14
30.Aug.19	409.18	06:02:19	385.5	14:43:30	398.32
31.Aug.19	408.71	06:02:23	389.25	22:11:05	398.5

All figures in kV

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01.Aug.19	414.34	08:00:48	396.75	22:45:20	405.03
02.Aug.19	414.34	13:08:01	400.27	22:19:59	406.29
03.Aug.19	417.15	06:01:55	400.74	22:28:20	407.94
04.Aug.19	416.68	08:03:16	398.16	20:57:06	408.08
05.Aug.19	413.63	03:59:52	396.05	14:55:11	404.25
06.Aug.19	415.98	08:01:14	399.57	00:10:49	407.73
07.Aug.19	415.74	03:39:10	397.22	14:35:59	406.58
08.Aug.19	413.87	03:42:49	396.99	14:51:28	405.31
09.Aug.19	413.87	05:01:10	398.63	00:07:16	406.62
10.Aug.19	413.4	06:01:20	398.63	22:17:53	405.62
11.Aug.19	413.4	08:01:31	396.75	22:16:12	406.12
12.Aug.19	412.7	08:02:21	397.45	22:19:21	404.64
13.Aug.19	413.87	08:01:39	399.33	22:08:50	405.38
14.Aug.19	414.57	08:00:58	396.75	14:14:43	404.71
15.Aug.19	416.21	07:14:17	397.92	21:21:58	408.42
16.Aug.19	413.87	08:02:47	398.16	14:44:52	405.45
17.Aug.19	419.26	17:20:14	404.25	00:06:29	411.91
18.Aug.19	424.42	07:48:25	396.75	19:10:54	413.1
19.Aug.19	414.57	05:28:13	397.45	14:42:50	406.31
20.Aug.19	413.87	07:03:03	396.75	22:22:55	405.31
21.Aug.19	411.99	05:03:01	395.58	14:40:24	403.3
22.Aug.19	410.12	07:04:01	395.81	22:29:44	403
23.Aug.19	410.35	08:02:01	393.23	14:30:23	402.02
24.Aug.19	412.46	17:03:48	397.45	00:08:24	405.7
25.Aug.19	415.51	16:02:26	404.02	00:52:44	409.77
26.Aug.19	414.81	03:59:05	396.28	14:46:14	406.01
27.Aug.19	412.23	08:02:28	392.76	14:33:53	403.59
28.Aug.19	408.94	04:01:34	394.64	14:30:23	402.57
29.Aug.19	410.12	08:01:46	396.75	10:27:58	402.55
30.Aug.19	410.82	05:22:54	397.22	14:49:21	404.75
31.Aug.19	412.7	05:15:03	400.27	11:49:09	406.21

20 DETAILS OF BREAK-DOWNS DURING THE MONTH OF AUGUST 2019

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
1	1.8.19	12:07	220KVBAWANA- ROHINI CKT-II	1.8.19	00:00	DIFFERENTIAL, 86, DIST PROT, DIST 679MTS.
2	2.8.19	11:18	220kV GOPALPUR- MANDOLACKT-I	2.8.19	14:15	AT GOPALPUR : DIFFERENTIAL, DIST PROT, ZONE-I.
3	3.8.19	08:16	220kV GEETA COLONY- PATPARGANJ CKT-I	3.8.19	08:32	AT GEETA COLONY : DIST PROT, ZONE-I, DIST 1.8KM.
4	3.8.19	08:27	220KV MUNDKA-PEERAGARHI CKT-I	3.8.19	08:49	AT MUNDKA : DIST PROT, ZONE-I, O/C.
5	6.8.19	07:24	PAPPANKALAN-II 220/66kV 100MVA Tx-I	6.8.19	09:39	86
6	6.8.19	14:50	SARITA VIHAR 220/66kV 100MVA Tx-III	6.8.19	16:25	TRIPPED WITHOUT INDICATION.
7	6.8.19	14:50	SARITA VIHAR 220/66kV 100MVA Tx-III	6.8.19	16:25	TRIPPED WITHOUT INDICATION.
8	6.8.19	14:50	SARITA VIHAR 220/66kV 100MVA Tx-III	6.8.19	16:25	TRIPPED WITHOUT INDICATION.
9	7.8.19	14:05	220kV PRAGATI - SARITA VIHAR CKT - I	7.8.19	14:42	AT PRAGATI : DIST PROT, ZONE-I, ACTIVE GROUP -I. AT SARITA VIHAR : DIST PROT, DIST 8.47KM, B PHASE.
10	7.8.19	18:35	220kV GOPALPUR- MANDOLACKT-II	7.8.19	20:09	AT GOPALPUR : DIST PROT, ZONE-III, DIST 26.7KM, 86.
11	8.8.19	11:27	220 KV GOPALPUR-WAZIRABAD CKT-2	8.8.19	12:58	AT WAZIRABAD : DIST PROT, ZONE-I, DIST 4.8KM.
12	8.8.19	12:12	220kV MUNDKA-KANJHAWALA CKT	8.8.19	12:49	AT MUNDKA : DIST PROT, ZONE-I&II, DIST 15.46KM.
13	9.8.19	10:28	NARELA 66/11kV, 20MVA Tx-II	9.8.19	16:20	86, E/F, DIFFERENTIAL.
14	9.8.19	10:52	220KVBAWANA- ROHINI CKT-II	9.8.19	00:00	AT ROHINI -I : T R PHASE, DIFFERENTIAL, 86RYB, 186 A&B. AT BAWANA : DIST PROT, DIST 10.63K, 186A&B.
15	9.8.19	13:56	PAPPANKALAN-III 220/66kV 160MVA Tx-I	9.8.19	14:06	O/C.
16	9.8.19	16:23	220kV GEETA COLONY- PATPARGANJ CKT -II	9.8.19	04:05	AT GEETA COLONY : DIST PROT, ZONE-I, DIST 3.404KM.
17	10.8.19	10:50	GOPALPUR 220/66kV 100MVA Tx-II	10.8.19	20:40	O/C
18	10.8.19	18:32	220kV PRAGATI - SARITA VIHAR CKT-II	10.8.19	23:19	AT PRAGATI : DIST PROT, DIST 11.06KM, 86. AT SARITA VIHAR : DIST PROT, DIST 3.79KM, ZONE-I
19	11.8.19	15:42	220kV BAMNAULI-PAPPANKALAN-I CKT-II	11.8.19	15:58	AT PAPANKALAN-I : DIST PROT, DIST 4.9KM.
20	11.8.19	18:50	220kV PRAGATI - SARITA VIHAR CKT - I	11.8.19	20:35	AT SARITA VIHAR : DIST PROT, ZONE-I, DIST 3.9KM. AT PRAGATI : DIST PROT, ZONE-I, DIST 10.42.
21	11.8.19	23:54	SHALIMAR BAGH 220/33kV 100MVA Tx-I	12.8.19	01:53	OLTC
22	12.8.19	03:28	PEERA GARHI 220/33kV 100MVA Tx-III	12.8.19	06:33	86
23	14.8.19	05:27	NARELA 220/66kV 100MVA Tx-II	14.8.19	09:55	186
24	14.8.19	07:22	PAPPANKALAN-III 220/66kV 160MVA Tx-II	14.8.19	09:25	BUCHOLZ.
25	14.8.19	12:46	400kV Bamnauli-Jhatikara Ckt-I	14.8.19	13:14	AT BAMNAULI : DIST PROT, ZONE-I.
26	14.8.19	16:45	MEHRAULI 220/66kV 100MVA Tx-II	14.8.19	20:50	86

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
27	14.8.19	17:01	220kV PRAGATI - SARITA VIHAR CKT - I	14.8.19	20:42	AT SARITA VIHAR : DIST PROT, ZONE-I, DIST 3.952KM AT PRAGATI : DIST PROT, ZONE-I, DIST 10.70KM.
28	14.8.19	17:21	220kV MAHARANI BAGH - SARITA VIHAR CKT	14.8.19	20:42	AT SARIA VIHAR : DIST PROT, ZONE-I, DIST 3.461KM. AT MAHARANI BAGH : DIST PROT, ZONE-I.
29	15.8.19	08:10	220kV MAHARANI BAGH - SARITA VIHAR CKT	15.8.19	09:50	AT SARITA VIHAR : DIST PROT, ZONE-I, DIST 3.06KM. AT MAHARANI BAGH : DIST PROT, ZONE-I, DIST 6.6KM.
30	15.8.19	11:32	220KV BAWANA-SHALIMARBAGH CKT-II	15.8.19	11:49	AT SHALIMARBAGH : RYB PHASE.
31	15.8.19	11:32	220KV BAWANA-SHALIMARBAGH CKT-I	15.8.19	14:15	AT SHALIMARBAGH : DIST PROT, ZONE-II, DIST 8.666KM.
32	15.8.19	11:52	220kV GOPALPUR- MANDOLACKT-I	15.8.19	15:00	AT GOPALPUR : 86.
33	15.8.19	13:09	220kV BAWANA-DSIIDC BAWANA CKT-I	15.8.19	18:12	AT BAWANA : 86.
34	15.8.19	14:00	WAZIRABAD 220/66kV 100MVA Tx-III	15.8.19	14:35	O/C
35	15.8.19	14:00	WAZIRABAD 220/66kV 100MVA Tx-II	15.8.19	14:35	O/C
36	15.8.19	14:00	WAZIRABAD 220/66kV 100MVA Tx-I	15.8.19	14:35	O/C
37	15.8.19	14:00	WAZIRABAD 220/66kV 160MVA Tx-I	15.8.19	14:55	O/C
38	15.8.19	14:11	220KV WAZIRABAD - MANDOLA CKT-I	16.8.19	00:26	AT WAZIRABAD : DIST PROT, ZONE-I, DIST 5.275KM.
39	15.8.19	15:19	220kV ROHINI-SHALIMARBAGH CKT-II	15.8.19	16:43	AT ROHINI : DIST PROT, ZONE-I, 86.
40	15.8.19	16:20	220kV GOPALPUR- MANDOLACKT-I	15.8.19	18:09	AT GOPALPUR: DIFFERENTIAL, RYB PHASE.
41	15.8.19	17:30	220kV GOPALPUR- MANDOLACKT-II	16.8.19	02:37	AT GOPALPUR : SUPPLY FAIL.
42	15.8.19	18:54	220kV GOPALPUR- MANDOLACKT-I	16.8.19	02:35	AT GOPAPUR : 86.
43	15.8.19	21:35	220kV WAZIRABAD-GEETA COLONY CKT-I	16.8.19	21:58	AT GEETA COLONY : DIFFERENTIAL.
44	15.8.19	21:35	220kV GEETA COLONY- PATPARGANJ CKT -II	15.8.19	21:58	AT GEETA COLONY : O/C
45	15.8.19	21:35	220kV WAZIRABAD-GEETA COLONY CKT-II	15.8.19	21:58	AT GEETA COLONY : DIFFERENTIAL.
46	16.8.19	22:10	220kV GEETA COLONY- PATPARGANJ CKT-I	16.8.19	22:30	AT GEETA COLONY : DIST PROT,ZONE-IV, O/C
47	17.8.19	07:00	DSIIDC Bawana 220/66kV 100MVA Tx-II	17.8.19	19:15	E/F, 86.
48	17.8.19	09:51	220kV WAZIRABAD-GEETA COLONY CKT-II	17.8.19	10:46	AT WAZIRABAD : DIST PROT, ZONE-III, DIST 384MTS.
49	17.8.19	09:51	220KV WAZIRABAD - MANDOLA CKT-I	17.8.19	10:46	AT WAZIRABAD : DIST PROT, ZONE-III, DIST 384MTS. AT MANDOLA : NO TRIPPING.
50	17.8.19	09:51	220KV WAZIRABAD - MANDOLA CKT-III	17.8.19	10:46	AT WAZIRABAD : DIST PROT, ZONE-III, DIST 332MTS. AT MANDOLA : NO TRIPPING.
51	17.8.19	09:51	220kV WAZIRABAD-GEETA COLONY CKT-I	17.8.19	10:46	AT WAZIRABAD : DIST PROT, ZONE-III, 86. AT GEETA COLONY : NO TRIPPING.
52	17.8.19	09:51	220KV WAZIRABAD - MANDOLA CKT-IV	17.8.19	10:46	AT WAZIRABAD : DIST PROT, ZONE-III, DIST 3544MTS. AT MANDOLA : NO TRIPPING.
53	17.8.19	23:10	INDRAPRASTHA POWER 220/33kV 100MVA Tx-I	18.8.19	00:09	E/F, O/C, 86.
54	17.8.19	23:10	INDRAPRASTHA POWER 220/33kV 100MVA Tx-I	18.8.19	00:09	86
55	18.8.19	04:39	SUBZI MANDI 33/11kV, 16MVA Tx-II	18.8.19	12:25	86
56	18.8.19	11:31	220kV WAZIRABAD - KASHMEREGATE CKT-II	18.8.19	14:40	AT KASHMIR GATE: DIFFERENTIAL, 86 AT WAZIRBAD : DIST PROT, ZONE-I, DIST 1.562KM.

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
57	18.8.19	22:02	BAWANA 400/220kV 315MVA ICT-V	18.8.19	23:17	86
58	19.8.19	17:56	220kV BAMNAULI-NAJAFGARH CKT-I	19.8.19	20:36	AT BAMNAULI : DIST PROT,ZONE-I, DIST 5.3KM.
59	20.8.19	13:38	220kV OKHLA - BTPS CKT.- I	20.8.19	16:18	AT OKHLA : DIST PROT, ZONE-I, DIST 5.492KM. AT BTPS : DIST PROT, ZONE-I, DIST 0.8KM.
60	21.8.19	09:58	INDRAPRASTHA POWER 220/33kV 100MVA Tx-III	21.8.19	10:50	O/C
61	22.8.19	10:45	220kV MEHRAULI - VASANT KUNJ CKT.-II	22.8.19	11:00	AT MEHRAULI : SUPERVISION RELAY.
62	22.8.19	14:24	220kV ROHINI-SHALIMARBAGH CKT-II	22.8.19	17:08	DIFFERENTIAL.
63	22.8.19	15:10	MEHRAULI 220/66kV 100MVA Tx-II	22.8.19	16:15	POLE DISCRIPANCY.
64	23.8.19	17:30	220kV GOPALPUR- MANDOLACKT-I	23.8.19	21:24	AT GOPALPUR : 86.
65	23.8.19	18:05	220 KV GOPALPUR-WAZIRABAD CKT-2	23.8.19	20:00	AT WAZIRABAD : DIST PROT, ZONE-I, DIST 4.239KM.
66	24.8.19	05:45	INDRAPRASTHA POWER 220/33kV 100MVA Tx-II	24.8.19	06:05	O/C
67	24.8.19	11:10	PATPARGANJ 220/66kV 100MVA Tx-I	24.8.19	12:50	86
68	25.8.19	11:57	220kV PRAGATI - SARITA VIHAR CKT - I	25.8.19	00:00	AT SARITA VIHAR : DIST PROT, ZONE-I, DIST 4.162KM. AT PRAGATI : DIST PROT, ZONE-I, DIT 10.87KM.
69	27.8.19	11:46	220kV BAWANA-DSIIDC BAWANA CKT-I	27.8.19	14:02	86
70	28.8.19	11:10	220kV BAMNAULI-PAPPANKALAN-I CKT-II	28.8.19	15:20	AT PAPANKALAN-I : POLE DISCREPANCY.
71	30.8.19	13:23	220kV BAMNAULI-NAJAFGARH CKT-II	30.8.19	14:45	AT BAMNAULI : DIST PROT, ZONE-I, DIST 5.54KM.

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

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