

DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

JUNE - 2020

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SALIENT FEATURES OF DELHI POWER SYSTEM

Sr. No.	Features	JUNE 2019	JUNE 2020
1	Effective Generation Capacity within Delhi in MW		
	Rajghat Power House	135	135
	Gas Turbine	270	270
	Pragati Power Corporation Ltd.	330	330
	Bawana CCGT	1371	1371
	TOWMCL (Waste to Energy Plant)	16	16
	EDWPCL (Waste to Energy Plant)	10	10
	DMSWL (Waste to Energy Plant)	24	24
	Total	2156	2156
2	Maximum Unrestricted Demand (MW)	6904	6314
	Date	12.06.2019	29.06.2020
	Time	15:34:28	15:33:17
3	Peak Demand met (MW)	6904	6314
	Date	12.06.2019	29.06.2020
	Time	15:34:28	15:33:17
4	Peak Availability (MW)	6784	6272
5	Shortage (-) / Surplus (+) in MW	(-)120	(-)42
6	Percentage Shortage (-) / Surplus (+)	(-)1.74	(-)0.67
7	Maximum Energy Consume in a day (Mus)	139.027	125.714
8	Energy Consumed during the month	3830.057	3109.029
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		
	TPDDL	0.030	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	0.030	0.000
B)	Due to Constraints in System in Mus		
	DTL	0.944	0.364
	TPDDL	0.121	0.037
	BRPL	1.301	0.381
	BYPL	0.178	0.012
	NDMC	0.000	0.000
	MES	0.000	0.000
	Other Agencies	0.000	0.149
	Total	2.543	0.943
10	Grand Total in Mus	2.573	0.943

2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING JUNE 2020

A) For the month of June 2020

All Figures in MUs

S. No	Stations	Gross Generation	Aux. Consumption	Net Generation	Plant Availability factor for the month (%)	Backing Down
1.	RPH	0.000	0.20	-0.120	0.00	0.000
2.	GT	45.127	1.835	43.292	84.49	116.399
3.	PPCL	163.777	3.832	159.945	93.25	55.050
4.	Bawana	275.376	9.984	265.392	91.89	617.746
5.	Towmcl	14.270	2.058	12.212	--	0.000
6.	EDWPCL	0.292	0.338	-0.046	--	0.000
7.	DMSWL	13.500	2.194	11.306	--	0.000
	TOTAL	512.342	20.441	491.981	--	789.195

B) For the Year 2020-21 (Upto June 2020)

Power Station	Effective Capacity (MW)	Net Generation in MUs for June 2020	Availability PLF (%) for June 2020	PLF (%) for June 2020	Cumulative Generation in MUs upto June 2020 for the year 2020-21	Cumulative Availability in % upto June 2020 for the year 2020-21
RPH	135	-0.120	0.00	0.000	-0.364	0.00
GT	270	43.292	84.49	18.99	108.786	85.48
PPCL	330	159.945	93.25	54.67	380.654	93.46
Bawana	1372	265.392	91.89	27.63	782.912	96.24
Towmcl	16	12.212	--	--	38.846	--
EDWPCL	10	-0.046	--	--	1.830	--
DMSWL	24	11.306	--	--	33.535	--
TOTAL	2936	491.981	--	--	1346.199	--

3 DETAILS OF OUTAGES OF GENERATING STNS. WITHIN DELHI W.E.F. APRIL 2020

RPH

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	67.5	08.05.15	13.40			Not in operation due to not meeting pollution norms.
2	67.5	21.05.15	10.20			Not in operation due to not meeting pollution norms.

(B) Gas Turbine

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	30	1-4-20	2:19	1-4-20	02:40	Unit tripped due to high LTTH
		1-4-20	8:30	16-4-20	16:05	Low Demand
		17-4-20	9:05	17-4-20	12:15	Low Demand
		21-4-20	03:15	25-4-20	10:40	GT tripped due to excitation trouble
		10-5-20	12:45	22-5-20	13:33	Low down
		23-5-20	5:40	23-5-20	9:45	Unit tripped due to failure of controller and I/O Pack
		26-5-20	12:45	26-5-20	13:30	Unit tripped due to fuse failure of field devices
		29-5-20	01:30	06-06-20	14:12	Low Demand
		06-06-20	18:10	09-06-20	13:40	Low Demand
		10-06-20	19:30	12-06-20	12:48	Low Demand
2	30	1-4-20	0:00	1-4-20	4:51	Low Demand
		16-4-20	15:30	16-4-20	16:05	GT tripped due to excitation trouble
		16-4-20	16:05	17-4-20	8:00	Low Demand
		17-4-20	11:40	17-4-20	13:30	GT tripped due to excitation trouble
		17-4-20	13:30	21-4-20	04:06	Low Demand
		25-4-20	10:10	25-4-20	10:40	Low Demand
		25-4-20	10:40	06-05-20	20:09	Low Demand
		22-5-20	11:52	22-5-20	18:33	Unit tripped due to tripping of both 160 MVA IBT TxS
06-06-20	13:43	06-06-20	17:25	Unit tripped due to start up fuel flow excessive trip and loss of flame trip.		
3	30	1-4-20	0:00	30-6-20	24:00	Low Demand
4	30	1-4-20	0:00	30-6-20	24:00	Low Demand
5	30	1-4-20	0:00	22-5-20	16:57	Low Demand
		22-5-20	19:58	30-6-20	24:00	Low Demand
6	30	1-4-20	0:00	24-5-20	19:00	Low Demand
		29-5-20	1:30	30-6-20	24:00	Low demand
ST G-1	30	1-4-20	1:52	1-4-20	8:24	Tripped due to operation of channel-1 & channel -II tripping
		16-4-20	15:30	16-4-20	18:36	STG stopped due to tripping of GT#2
		17-4-20	11:40	17-4-20	14:05	STG stopped due to tripping of GT#2
		21-4-20	3:15	21-4-20	06:08	STG stopped due to tripping of GT#1
		25-4-20	10:10	25-4-20	11:15	STG stopped due to tripping of GT#1
		22-5-20	11:52	22-5-20	19:36	Unit tripped due to Grid disturbance
		06-06-20	13:43	06-06-20	15:46	Unit tripped due to GT#2 tripped.
ST G-2	30	1-4-20	0:00	30-6-20	24:00	Low Demand
ST G-3	30	1-4-20	0:00	24-5-20	23:09	Low Demand
		24-5-20	23:22	25-5-20	02:49	Unit out due to high turbine Vibration
		29-5-20	1:30	30-6-20	24:00	Low Demand

(C) PRAGATI

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	104	01.04.20	00:00	17.04.20	17:33	GT-1 started swat GT-2
		17.04.20	16:24	30.04.20	24:00	GT-1 stopped
		02.05.20	07:09	02.05.20	10:45	To attend hot spot
		20.05.20	14:20	22.05.20	09:00	GT-1 started swat GT-2
		22.05.20	09:00	25.05.20	21:00	Shut-down for planned maintenance
		25.05.20	21:00	26.05.20	12:04	GT-1 started swat GT-2
		06.06.20	16:52	06.06.20	21:00	GT-1 started swat GT-2
		06.06.20	21:00	07.06.20	12:00	Internal Fault
		07.06.20	12:00	12.06.20	13:50	Low demand
2	104	17.04.19	18.47	18.04.19	12.45	Tripped on internal fault.
		01.05.20	00:00	20.05.20	12:00	GT-2 started swat GT-1
		22.05.20	12:50	22.05.20	14:00	Due to Grid Disturbance
		27.05.20	00:07	06.06.20	15:28	Low demand
STG	122	02.05.20	07:13	02.05.20	12:25	To attend hot spot
		20.05.20	14:48	20.05.20	16:46	STG tripped due to Grid Disturbance
		22.05.20	11:52	22.05.20	18:16	STG tripped due to Grid Disturbance
		24.05.20	06:23	24.05.20	07:33	Internal fault
		10.06.20	17:57	10.06.20	23:33	Due to Grid Disturbance

(D) BAWANA CCGT POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	216	27.06.20	23:10	28.06.20	18:00	Unit tripped due to fault in Thyristor Bridge Excitation Transformer
2	216	28.06.20	00:00	28.06.20	18:00	Unit take out of DC due to no back up supply
3	216	26.05.20	16:11	26.05.20	20:32	Unit tripped on closing of ASV along with ½ STG
4	216	13.06.20	14:00	14.06.20	06:49	To attend fault on Bus-1 'R' Phase
STG -1	254	27.06.20	00:00	28.06.20	00:00	½ STG taken out due to outage of GT-1.
		28.06.20	00:00	28.06.00	18:00	STG is taken out out due to non availability of GT-1 & 2
STG -2	254	21.05.20	16:41	21.05.20	17:51	Unit tripped due to Main Steam Temperature low
		26.05.20	16:11	26.05.20	21:30	Unit tripped on closing of ASV along with ½ GT-3
		13.06.20	14:00	14.06.20	06:49	½ STG taken out due to outage of GT-4
		29.06.20	02:16	29.06.20	04:18	Unit tripped on Pulse Failure in Channel-I & II due to UC voltage

4 ALLOCATION OF POWER TO DISCOMS

A) ALLOCATION OF DELHI AND DISCOMS (IN MW) FROM VARIOUS CENTRAL SECTOR, STATE SECTOR GENERATING STATIONS ALONG WITH LTAs w.e.f. 01.05.2020

Name of the Stn	Installed capacity in MW	Capacity Allocation to Delhi In%	Capacity Allocation to Delhi in MW	DISCOMWISE CAPACITY ALLOCATION IN MW						
				BRPL	BYPL	TPDDL	NDM C	MES	RPH	NR
GAS TURBINE	270	100	270	164.39	23.13	81.48	0.00	0.00	1.00	
PRAGATI	330	100	330	93	53	64	100	20		
BAWANA CCGT	1371	80	1097	427	247	298	100	25		
EDWPCL(WEP)	12	49	6	0	5.9	0	0	0		
Bawana(WEP)	24	100	24	10	6	7	1	0		
TOWMCL(WEP)Exbus	13	97.15	12.63	6.5	0	6.1	0			
TOTAL	2020		1739.3	701.1	334.6	456.4	201.3	45.0	1.00	0.0
CENTRAL SECTOR GENERATION										
<u>NTPC STATIONS</u>										
Singrauli STPS	2000	7.50	150.00	30	74	46	0	0		
Rihand Stage-I	1000	10.00	100.00	69	0	31	0	0		
Rihand Stage -II	1000	12.60	126.00	55	32	39	0	0		
Rihand Stage-III	1000	13.19	131.91	78	54	0	0	0		
ANTA GPS	419	10.50	44.00	19	11	13	0	0		
Auriya GPS	663.36	10.86	72.04	32	18	22	0	0		
Dadri GPS	829.78	10.96	90.94	40	23	28	0	0		
Dadri (Th)-I	840	90.00	756.00	559	62	10	125	0		
Dadri (Th) -II	980	74.24	727.53	543	175	10	0	0		
Unchahaar-I TPS	420	5.71	23.98	11	6	7	0	0		
Unchahaar-II TPS	420	11.19	47.00	21	12	14	0	0		
Unchahaar-III TPS	210	13.81	29.00	13	7	9	0	0		
Unchahaar-IV TPS	500									
Jhajjar	1500	46.20	693.00	10	69	614	0	0		
Farakka(From ER)	1600	1.39	22.24	10	6	7	0	0		
Kahalgaoon-I(From ER)	840	6.07	50.99	22	13	16	0	0		
Kahalgaoon-II(From ER)	1500	10.49	157.35	69	40	48	0	0		
TOTAL NTPC	15722		3221.98	1581	602	914	125	0	0	0
<u>NHPC (HYDRO)</u>										
Baira Suil HPS	180	11.00	19.80	8.7	5.0	6.1	0	0		
Salal HPS	690	11.62	80.18	59.8	20.4	0	0	0		
Tanakpur HEP	94	12.81	12.07	5.30	3.07	3.70	0	0		
Chamera HEP	540	7.90	42.66	18.7	10.8	13.1	0	0		
Chamera-II HEP	300	13.33	39.99	17.6	10.2	12.3	0	0		
Chamera-III HEP	231	12.73	29.42	12.9	7.5	9.0	0	0		
URI-I HEP	480	11.04	52.99	23.3	13.5	16.3	0	0		
URI-II HEP	240	13.45	32.28	14.2	8.2	9.9	0	0		
Sewa HEP	120	13.33	16.00	7.02	4.06	4.91	0	0		
Dhaul Ganga HEP	280	13.21	36.99	16.2	9.4	11.3	0	0		
Dulhasti HEP	390	12.83	50.04	22.0	12.7	15.4	0	0		
Parbati-III HEP	520	12.73	66.20	29.1	16.8	20.3	0	0		
Total NHPC	4065		478.61	234.81	121.6	122	0	0	0	0

Name of the Stn	Installed capacity in MW	Capacity Allocation to Delhi In%	Capacity Allocation to Delhi in MW	DISCOMWISE CAPACITY ALLOCATION IN MW						
				BRPL	BYPL	TPDDL	NDM C	MES	RPH	NR
Nathpa Jhakri HEP	1500	9	142.05	62	36	44	0	0		
Tehri Hydro	1000	6.30	63.00	44	0	19	0	0		
Koteshwar HEP	400	9.86	39.44	27	0	12	0	0		
Total THDC	1400		102.44	71.01	0	31.4	0	0	0	0
Singrauli Hyd	8	19.13	1.53	0	0	1.53				
<u>NPC (NUCLEAR)</u>										
Narora APS	440	10.68	46.99	33	0	14	0	0		
RAPP (C)	440	12.69	55.84	25	14	17	0	0		
TOTAL NPC	880		102.83	57	14	32	0	0	0	0
<u>Allocation from ER</u>										
Tala HEP	1020	2.94	29.99	13	8	9	0	0		
SASAN	3960	11.25	445.50	66.08	311.08	68.34	0	0		
DVC(CTPS7 &8)			300.00	131.00	82.00	83.76				
DVC(Mejia6)			100.00	44	25	31	0	0		
TOTAL	4980		875.49	254	426	192	0	0	0	0
<u>Allocation from Long term Bilateral</u>										
CLP Jhajjar(Th)	1320		124.00			124				
Mejia-7(Th)	500		119.00		119					
Methan(Th)	1050		281.25			281				
Surya Kanta(Hyd)			14.00			14				
Nanti Hydro			11.45			11				
Tutikoren(LT-61)			50.00	50						
SECI			60.00	20	20	20				
RUMS - DMRC			99.00	47.5	26.3	25.2				
Sun Edision (From 18.11.2019)			90.00			90				
Teranda (HYD)(From 08.1.2020)			12.65			12.65				
BRBCL (From 15.01.2020)			5.00							5
JIPTL			9.46							9.46
TOTAL	2870		875.81	117	166	579	0	0	0	14.46
Total in MW	33445		7540	3078	1700	2371	326	45	1	14.46

B) ALLOCATION OF DELHI AND DISCOMS (IN %AGE) FROM VARIOUS CENTRAL SECTOR, STATE SECTOR GENERATING STATIONS ALONG WITH LTAs w.e.f. 01.05.2020

Name of the Stn	Installed capacity in MW	Capacity Allocation to Delhi In%	Capacity Allocation to Delhi in MW	DISCOMWISE CAPACITY ALLOCATION IN PERCENTAGE (%AGE)						
				BRPL	BYPL	TPDD L	NDMC	MES	RPH	NR
STATE GENERATING STATIONS										
GAS TURBINE	270	100	270	60.89	8.57	30.18	0.00	0.00	0.37	
PRAGATI	330	100	330	28.29	16.07	19.28	30.30	6.06		
BAWANA CCGT	1371	80	1097	38.91	22.50	27.19	9.13	2.28		
EDWPCL(WEP)	12	49	6	0.00	100.00	0.00	0.00	0.00		
Bawana(WEP)	24	100	24	41.81	23.90	29.20	5.09	0.00		
TOWMCL(WEP)	13	97	12.63	50.00	0.00	47.15	0.00	0.00	0.00	
TOTAL	2020		1739.31	40.31	19.24	26.24	11.57	2.58	0.06	0.00
CENTRAL SECTOR GENERATION										
<u>NTPC STATIONS</u>										
Singrauli STPS	2000	7.50	150.00	19.76	49.56	30.68	0.00	0.00		
Rihand Stage-I	1000	10.00	100.00	69.32	0.00	30.68	0.00	0.00		
Rihand Stage -II	1000	12.60	126.00	43.92	25.40	30.68	0.00	0.00		
Rihand Stage-III	1000	13.19	131.91	59.26	40.74	0.00	0.00	0.00		
ANTA GPS	419	10.50	44.00	43.92	25.40	30.68	0.00	0.00		
Auriya GPS	663.36	10.86	72.04	43.92	25.40	30.68	0.00	0.00		
Dadri GPS	829.78	10.96	90.94	43.92	25.39	30.68	0.00	0.00		
Dadri (Th)-I	840	90.00	756.00	73.98	8.17	1.32	16.53	0.00		
Dadri (Th) -II	980	74.24	727.53	74.60	24.03	1.37	0.00	0.00		
Unchahaar-I TPS	420	5.71	23.98	43.92	25.39	30.68	0.00	0.00		
Unchahaar-II TPS	420	11.19	47.00	43.92	25.40	30.68	0.00	0.00		
Unchahaar-III TPS	210	13.81	29.00	43.92	25.40	30.68	0.00	0.00		
Unchahaar-IV TPS	500									
Jhajjar	1500	46.20	693.00	1.44	9.99	88.57	0.00	0.00		
Farakka	1600	1.39	22.24	43.92	25.40	30.68	0.00	0.00		
Kahalgaon-I	840	6.07	50.99	43.92	25.40	30.68	0.00	0.00		
Kahalgaon-II	1500	10.49	157.35	43.92	25.40	30.68	0.00	0.00		
TOTAL NTPC	15722		3221.98	49.06	18.70	28.37	3.88	0.00	0.00	0.00
<u>NHPC (HYDRO)</u>										
Baira Suil HPS	180	11.00	19.80	43.92	25.40	30.68	0.00	0.00		
Salal HPS	690	11.62	80.18	74.60	25.40	0.00	0.00	0.00		
Tanakpur HEP	94	12.81	12.07	43.92	25.40	30.68	0.00	0.00		
Chamera HEP	540	7.90	42.66	43.92	25.40	30.68	0.00	0.00		
Chamera-II HEP	300	13.33	39.99	43.92	25.40	30.68	0.00	0.00		
Chamera-III HEP	231	12.73	29.42	43.92	25.40	30.68	0.00	0.00		
URI-I HEP	480	11.04	52.99	43.92	25.40	30.68	0.00	0.00		
URI -II HEP	240	13.45	32.28	43.92	25.40	30.68	0.00	0.00		
Sewa HEP	120	13.33	16.00	43.92	25.40	30.68	0.00	0.00		
Dhaulti Ganga HEP	280	13.21	36.99	43.92	25.40	30.68	0.00	0.00		
Dulhasti HEP	390	12.83	50.04	43.92	25.40	30.68	0.00	0.00		
Parbati-III HEP	520	12.73	66.20	43.92	25.40	30.68	0.00	0.00		
Total NHPC	4065		478.60734	49.06	25.40	25.54	0.00	0.00		

Name of the Stn	Installed capacity in MW	Capacity Allocation to Delhi In%	Capacity Allocation to Delhi in MW	DISCOMWISE CAPACITY ALLOCATION IN PERCENTAGE (%AGE)						
				BRPL	BYPL	TPDDL	NDMC	MES	RPH	NR
Nathpa Jhakri HEP	1500	9	142.05	43.92	25.40	30.68	0.00	0.00		
Tehri Hydro	1000	6.30	63.00	69.32	0.00	30.68	0.00	0.00		
Koteshwar HEP	400	9.86	39.44	69.32	0.00	30.68	0.00	0.00		
Total THDC	1400		102.44	69.32	0.00	30.68	0.00	0.00		
Singrauli Hyd	8	19.13	1.53	0.00	0.00	100.00	0.00	0.00		
<u>NPC (NUCLEAR)</u>										
Narora APS	440	10.68	46.99	69.32	0.00	30.68	0.00	0.00		
RAPP (C)	440	12.69	55.84	43.92	25.40	30.68	0.00	0.00		
TOTAL NPC	880		102.828	55.53	13.79	30.68	0.00	0.00	0.00	0.00
Allocation from ER										
Tala HEP	1020	2.94	29.99	43.92	25.40	30.68	0.00	0.00		
SASAN	3960	11.25	445.50	14.83	69.83	15.34	0.00	0.00		
DVC(CTPS7 &8)			300.00	44.14	27.63	28.22				
DVC(Mejia6)			100.00	43.92	25.40	30.68	0.00	0.00		
TOTAL	4980		875.488	29.03	48.67	21.93	0.00	0.00	0.00	0.00
Allocation from Long term Bilateral										
CLP Jhajjar(Th)	1320		124.00			100.00				
Mejia-7(Th)	500		119.00		100.00					
Methan(Th)	1050		281.25			100.00				
Surya Kanta(Hyd)			14.00			100.00				
Nanti Hydro			11.45			100.00				
Tutikoren			50.00	100.00						
SECI			60.00	32.93	33.78	33.29				
RUMS - DMRC			99.00	47.98	26.57	25.45				
Sun Edision (From 18.11.2019)			90.00			100.00				
Teranda (HYD) (From 08.1.2020)			12.65			100.00				
BRBCL (From 15.01.2020)			5.00							100
JIPTL			9.46							100
TOTAL	2870		875.81	13.39	18.90	66.06	0.00	0.00	0.00	200.0
Total	33445		7540	40.83	22.55	31.45	4.33	0.60	0.01	0.19

5 POWER AVAILABILITY-DEMAND POSITION AT THE TIME OF PEAK DEMAND MET DURING JUNE 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
		GT	PPCL	Bawana	TOWMCL	EDW PCL	DMS WL	Total						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9) = (3) to (8)	(10)	(11)	(12)= (11) - (10)	(13)= (11)+ (12)	(14)	(15)= (13)+ (14)
1	23:28:50	38	145	285	11	2	6	487	3320	3549	-229	3807	0	3807
2	23:10:25	38	145	296	10	0	4	493	3565	3630	-65	4058	0	4058
3	23:14:10	38	146	295	12	-1	9	499	3751	3736	15	4250	0	4250
4	00:02:16	38	145	294	14	-1	9	499	3695	3707	-12	4194	0	4194
5	23:16:13	38	147	271	19	-1	18	492	3443	3547	-104	3935	0	3935
6	23:23:09	37	150	298	19	-1	18	521	3727	3752	-25	4248	0	4248
7	00:00:04	38	150	298	18	-1	17	520	3673	3620	53	4193	0	4193
8	23:23:11	38	149	310	19	-1	17	532	4079	4088	-9	4611	0	4611
9	23:30:32	73	146	306	19	0	19	563	4556	4699	-143	5119	0	5119
10	15:47:12	73	140	479	17	4	17	730	4468	4481	-13	5198	0	5198
11	23:22:55	37	146	596	17	0	7	803	4731	4927	-196	5534	0	5534
12	23:18:37	74	262	500	17	0	9	862	4729	4922	-193	5591	0	5591
13	00:01:02	75	262	499	19	0	8	863	4646	4842	-196	5509	0	5509
14	22:59:21	74	259	567	18	0	17	935	4636	4587	49	5571	0	5571
15	23:31:27	75	263	603	14	0	18	973	4832	4798	34	5805	0	5805
16	23:23:10	75	263	598	17	0	19	972	4927	5023	-96	5899	0	5899
17	23:12:51	75	263	599	17	0	16	970	5015	5127	-112	5985	0	5985
18	22:43:57	75	259	594	16	0	19	963	5230	5216	14	6193	0	6193
19	23:03:44	75	260	600	18	0	19	972	5273	5414	-141	6245	0	6245
20	00:01:27	75	261	600	18	0	19	973	5091	5098	-7	6064	0	6064
21	23:17:29	75	284	287	18	0	17	681	4562	4652	-90	5243	0	5243
22	23:26:51	74	296	302	19	0	18	709	4660	4752	-92	5369	0	5369
23	23:18:46	75	296	301	19	-1	17	707	4760	4792	-32	5467	0	5467
24	23:00	75	294	302	18	-1	16	704	4584	4849	-265	5288	0	5288
25	23:25:46	75	286	261	17	0	14	653	4679	4699	-20	5332	0	5332
26	23:25:27	75	276	303	19	0	17	690	4709	4726	-17	5399	0	5399
27	23:01:01	74	263	302	19	0	18	676	4885	4658	227	5561	0	5561
28	23:01:33	75	285	296	14	0	17	687	5409	5403	6	6096	0	6096
29	15:33:17	74	280	329	13	0	17	713	5601	5559	42	6314	0	6314
30	23:00:28	75	272	500	17	4	15	883	5012	5112	-100	5895	0	5895

POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF MAXIMUM UNRESTRICTED DEMAND DURING JUNE 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
		GT	PPCL	Bawana	TOWMCL	EDW PCL	DMS WL	Total						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9) = (3) to (8)	(10)	(11)	(12) = (11) - (10)	(13) = (11) + (12)	(14)	(15) = (13) + (14)
1	23:28:50	38	145	285	11	2	6	487	3320	3549	-229	3807	0	3807
2	23:10:25	38	145	296	10	0	4	493	3565	3630	-65	4058	0	4058
3	23:14:10	38	146	295	12	-1	9	499	3751	3736	15	4250	0	4250
4	00:02:16	38	145	294	14	-1	9	499	3695	3707	-12	4194	0	4194
5	23:16:13	38	147	271	19	-1	18	492	3443	3547	-104	3935	0	3935
6	23:23:09	37	150	298	19	-1	18	521	3727	3752	-25	4248	0	4248
7	00:00:04	38	150	298	18	-1	17	520	3673	3620	53	4193	0	4193
8	23:23:11	38	149	310	19	-1	17	532	4079	4088	-9	4611	0	4611
9	23:30:32	73	146	306	19	0	19	563	4556	4699	-143	5119	0	5119
10	15:47:12	73	140	479	17	4	17	730	4468	4481	-13	5198	0	5198
11	23:22:55	37	146	596	17	0	7	803	4731	4927	-196	5534	0	5534
12	23:18:37	74	262	500	17	0	9	862	4729	4922	-193	5591	0	5591
13	00:01:02	75	262	499	19	0	8	863	4646	4842	-196	5509	0	5509
14	22:59:21	74	259	567	18	0	17	935	4636	4587	49	5571	0	5571
15	23:31:27	75	263	603	14	0	18	973	4832	4798	34	5805	0	5805
16	23:23:10	75	263	598	17	0	19	972	4927	5023	-96	5899	0	5899
17	23:12:51	75	263	599	17	0	16	970	5015	5127	-112	5985	0	5985
18	22:43:57	75	259	594	16	0	19	963	5230	5216	14	6193	0	6193
19	23:03:44	75	260	600	18	0	19	972	5273	5414	-141	6245	0	6245
20	00:01:27	75	261	600	18	0	19	973	5091	5098	-7	6064	0	6064
21	23:17:29	75	284	287	18	0	17	681	4562	4652	-90	5243	0	5243
22	23:26:51	74	296	302	19	0	18	709	4660	4752	-92	5369	0	5369
23	23:18:46	75	296	301	19	-1	17	707	4760	4792	-32	5467	0	5467
24	23:00	75	294	302	18	-1	16	704	4584	4849	-265	5288	0	5288
25	23:25:46	75	286	261	17	0	14	653	4679	4699	-20	5332	0	5332
26	23:25:27	75	276	303	19	0	17	690	4709	4726	-17	5399	0	5399
27	23:01:01	74	263	302	19	0	18	676	4885	4658	227	5561	0	5561
28	23:01:33	75	285	296	14	0	17	687	5409	5403	6	6096	0	6096
29	15:33:17	74	280	329	13	0	17	713	5601	5559	42	6314	0	6314
30	23:00:28	75	272	500	17	4	15	883	5012	5112	-100	5895	0	5895

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

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

A (i) RPH	0.000
(ii) GT+STG	45.127
(iii) PRAGATI	163.777
(iv) RITHALA	0.000
(v) BAWANA CCGT	275.376
(vi) Timarpur – Okhla	14.270
EDWPCL	0.292
DMSWL	13.500
TOTAL	512.342
B) AVAILABILITY FROM BTPS	-0.338
C) AUXILIARY CONSUMPTION OF GENERATING STNs. EXCLUDING BTPS	20.361
D) NET GENERATION AVAILABLE WITHIN DELHI(A+B-C)	491.643

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
BAIRA SUIL	8.465	8.278	8.465	8.278
SALAL	57.223	56.240	57.223	56.240
SASAN	294.655	286.814	289.185	281.489
TANKAPUR	5.465	5.358	5.465	5.358
CHAMERA	27.589	27.047	27.589	27.047
CHAMERA -II	9.430	9.268	9.430	9.268
CHAMERA -III	20.671	20.265	20.671	20.265
DHAULIGANGA	22.647	22.202	22.647	22.202
SEWA -2	9.316	9.156	9.316	9.156
URI	38.195	37.633	38.195	37.633
URI-II	22.059	21.681	22.059	21.681
KOTESHWAR	17.151	16.773	17.151	16.773
PARBATI3	12.147	11.908	12.147	11.908
ANTA (CRF)	0.000	0.000	0.000	0.000
ANTA (GAS)	0.000	0.000	0.000	0.000
ANTA (RLNG)	25.938	25.237	0.000	0.000
ANTA (LIQUID)	0.000	0.000	0.000	0.000
DADRI (CRF)	7.423	7.314	2.847	2.805
DADRI (GAS)	19.264	18.978	15.491	15.261
DADRI (RLNG)	31.866	31.393	1.994	1.964
DADRI (LIQUID)	0.021	0.021	0.000	0.000
AURAIYA (CRF)	7.970	7.774	2.001	1.952
AURAIYA (GAS)	14.859	14.494	11.967	11.673
AURAIYA (RLNG)	25.847	25.212	1.166	1.137
AURAIYA (LIQUID)	0.344	0.335	0.000	0.000

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
SINGRAULI	84.922	82.413	71.528	69.413
SINGRAULI_HYDRO	0.570	0.553	0.570	0.553
RIHAND -I	65.041	63.119	52.497	50.945
RIHAND -II	83.668	81.197	71.609	69.492
RIHAND -III	89.039	86.671	78.864	76.765
UNCHAAR-I	15.399	15.021	9.131	8.907
UNCHAAR-II	30.793	30.036	19.928	19.437
UNCHAAR-III	19.001	18.534	12.657	12.346
DADRI (TH)	497.989	490.604	10.142	9.982
DADRI (TH) STAGE-II	493.698	486.376	178.025	175.388
BRBCL (NABIPUR-BIHAR)	3.072	3.022	2.128	2.093
TALCHER FOR AUX. OF BTPS	1.331	1.306	0.794	0.779
NAPP	28.724	28.018	28.651	27.946
RAPP 'B'	0.000	0.000	0.000	0.000
RAPP 'C'	37.239	35.955	37.239	35.955
NATHPA JHAKRI	101.794	99.541	101.794	99.541
DULASTI	34.398	33.807	34.398	33.807
TEHRI	21.147	20.680	21.147	20.680
JHAJJAR	470.270	463.361	0.000	0.000
KHELGAON	30.681	30.182	21.876	21.521
KHELGAON-II	81.287	79.969	60.329	59.351
FARAKA	14.605	14.332	8.047	7.896
TALA	18.079	17.742	18.079	17.742
DVC	212.554	211.188	211.188	210.157
TUTICORIN - BRPL	19.053	18.889	18.889	18.796
MADHYA PRADESH	1.068	1.057	1.057	1.052
GUJRAT	0.180	0.179	0.179	0.178
KARNATAKA	91.028	89.548	89.548	89.112
UTTRAKHAND	72.614	71.902	71.902	71.557
REGL (ADANI) CHATTISHGARH	80.706	79.502	79.502	79.113
SAINJ (HP)	7.556	7.463	7.463	7.426
BGTPP (ASSAM)	0.158	0.156	0.156	0.155
DBPL (CHATTISHGARH)	0.419	0.413	0.413	0.411
UTTAR PRADESH	0.354	0.348	0.348	0.346
BALCO (Chattishgarh)	0.394	0.388	0.388	0.386
FSTPP-III (WEST BENGAL)	0.023	0.023	0.023	0.023
TAMILNAIDU	143.344	142.083	142.083	141.388
SEIL PROJECT-II(ANDHRA PRADESH)	14.270	14.108	14.108	14.039
MEGHALAYA	3.923	3.876	3.876	3.857
ANDHRA	0.329	0.326	0.326	0.324
DGEN (GUJRAT)	0.106	0.105	0.105	0.105
ESSAR_MAHAN (MP)	0.128	0.127	0.127	0.127
METHON POWER(NDPL)LT-06	145.806	144.869	144.869	144.160
DVC MEJIA (LT-08)(BYPL)	59.956	59.569	59.569	59.278

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
Acme_RUMS	0.905	0.897	0.897	0.892
Arinsun_RUMS	0.900	0.892	0.892	0.888
Mahindra_RUMS	0.829	0.822	0.822	0.818
URS	0.688	0.684	0.688	0.684
JAMMU & KASHMIR	13.993	13.890	13.890	13.823
HIMACHAL PRADESH	308.770	304.950	304.950	303.465
JHABUA (MP)	0.135	0.134	0.134	0.134
GOA	2.698	2.686	2.686	2.673
KERALA	38.244	37.818	37.818	37.637
ARUNACHAL PRADESH	16.677	16.478	16.478	16.397
HIMACHAL PRADESH LT-59 DVC	6.317	6.239	6.239	6.208
HARYANA (LT-05)	34.964	34.794	34.794	34.625
MP(SOLAR RUMS)	14.434	14.298	14.298	14.228
HP TPDDL (NANTI)	6.893	6.807	6.807	6.774
ADHPL (HP)	22.009	21.737	21.737	21.631
ODHISHA	0.050	0.050	0.050	0.049
ORISSA MT-20 JITPL -DVC	4.297	4.248	4.248	4.227
MIZORAM	1.593	1.554	1.554	1.547
RAJASTHAN(SOLAR) BRPL-LT36	3.635	3.572	3.572	3.554
RAJASTHAN(SOLAR) BYPL - LT-35	3.583	3.521	3.521	3.504
RAJASTHAN(SOLAR) TPDDL LT-31	3.528	3.467	3.467	3.450
HP TARANDA (RAILWAYS)	7.960	7.862	7.862	7.823
POWER EXCHANGE(IEX)	62.379	62.067	62.379	62.067
TO POWER EXCHANGE (IEX)	-91.835	-92.745	-91.835	-92.745
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)	-21.780	-21.998	-21.780	-21.998
TO SHARE PROJECT (PUNJAB)	-21.807	-22.024	-21.807	-22.024
REAL TIME MANAGEMENT (RTM)	11.297	11.241	11.297	11.241
TO REAL TIME MANAGEMENT (RTM)	-13.944	-14.084	-13.944	-14.084
TOTAL	4172.677	4101.793	2672.275	2632.109

AGENCY WISE BREAKUP OF ENERGY SCHEDULED DRAWAL 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	1516.726	1488.303	542.547	530.115
NTPC - ER	126.574	124.483	90.252	88.768
NHPC	267.603	262.843	267.603	262.843
NPC	65.964	63.972	65.891	63.901
SASAN	294.655	286.814	289.185	281.489
KOTESHWAR	17.151	16.773	17.151	16.773
NATHPA JHAKRI	101.794	99.541	101.794	99.541
TALCHER FOR AUX. OF BTPS	1.331	1.306	0.794	0.779
TEHRI	21.147	20.680	21.147	20.680
TALA	18.079	17.742	18.079	17.742

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	470.270	463.361	0.000	0.000
RAJASTHAN SOLAR(BRPL)T-36	3.635	3.572	3.572	3.554
RAJASTHAN SOLAR(BYPL)T-35	3.583	3.521	3.521	3.504
RAJASTHAN SOLAR(TPDDL)T-31	3.528	3.467	3.467	3.450
DVC	212.554	211.188	211.188	210.157
TUTICORIN BRPL	19.053	18.889	18.889	18.796
MADHYA PRADESH	1.068	1.057	1.057	1.052
GUJRAT	0.180	0.179	0.179	0.178
KARNATAKA	91.028	89.548	89.548	89.112
UTTRAKHAND	72.614	71.902	71.902	71.557
REGL (ADANI) CHATTISHGARH	80.706	79.502	79.502	79.113
SAINJ (HP)	7.556	7.463	7.463	7.426
BGTPP (ASSAM)	0.158	0.156	0.156	0.155
DBPL (CHATTISHGARH)	0.419	0.413	0.413	0.411
UTTAR PRADESH	0.354	0.348	0.348	0.346
BALCO (Chattishgarh)	0.394	0.388	0.388	0.386
FSTPP -III (WEST BENGAL)	0.023	0.023	0.023	0.023
TAMILNAIDU	143.344	142.083	142.083	141.388
SEIL PROJECT-II(ANDHRA PRADESH)	14.270	14.108	14.108	14.039
MEGHALAYA	3.923	3.876	3.876	3.857
ANDHRA	0.329	0.326	0.326	0.324
DGEN (GUJRAT)	0.106	0.105	0.105	0.105
ESSAR_MAHAN (MP)	0.128	0.127	0.127	0.127
METHON POWER (NDPL)-LT-06	145.806	144.869	144.869	144.160
DVC MEJIA (LT-08)(BYPL)	59.956	59.569	59.569	59.278
Acme_RUMS	0.905	0.897	0.897	0.892
Arinsun_RUMS	0.900	0.892	0.892	0.888
Mahindra_RUMS	0.829	0.822	0.822	0.818
URS	0.688	0.684	0.688	0.684
JAMMU & KASHMIR	13.993	13.890	13.890	13.823
HIMACHAL PRADESH	308.770	304.950	304.950	303.465
JHABUA (MP)	0.135	0.134	0.134	0.134
GOA	2.698	2.686	2.686	2.673
KERALA	38.244	37.818	37.818	37.637
ARUNACHAL PRADESH	16.677	16.478	16.478	16.397
HP LT-59 DVC(SURYA KANTA)	6.317	6.239	6.239	6.208
HARYANA (LT -05)	34.964	34.794	34.794	34.625
ADHPL (HP)	22.009	21.737	21.737	21.631
ODISHA	0.050	0.050	0.050	0.049
ORISSA MT-20 JITPL -DVC	4.297	4.248	4.248	4.227
D.B. POWER (CHATTISHGARH)	0.000	0.000	0.000	0.000
MIZORAM	1.593	1.554	1.554	1.547
MP(SOLAR RUMS)	14.434	14.298	14.298	14.228
HP TPDDL (NANTI)	6.893	6.807	6.807	6.774
HP TRANDA (RAILWAYS)	7.960	7.862	7.862	7.823
POWER EXCHANGE(IEX)	62.379	62.067	62.379	62.067
POWER EXCHANGE(PX)	0.000	0.000	0.000	0.000
REAL TIME MANAGEMENT (RTM)	11.297	11.241	11.297	11.241
TOTAL	4322.044	4252.643	2821.642	2782.960

AGENCY WISE BREAKUP OF ENERGY SCHEDULED BY NRLDC FOR EXPORT TO OTHER UTILITIES FROM DELHI

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
TO POWER EXCHANGE (IEX)	-91.835	-92.745	-91.835	-92.745
TO POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
TO SHARE PROJECT (HARYANA)	-21.780	-21.998	-21.780	-21.998
TO SHARE PROJECT (PUNJAB)	-21.807	-22.024	-21.807	-22.024
TO REAL TIME MANAGEMENT (RTM)	-13.944	-14.084	-13.944	-14.084
TOTAL	-149.367	-150.850	-149.367	-150.850
TOTAL SCHEDULED DRAWAL FROM THE GRID	4172.677	4101.793	2672.275	2632.109
TOTAL CONSUMPTION INCLUDING AUX. OF GENERATING STNs				3129.390
NET CONSUMPTION				3109.029
AVAILABILITY WITHIN DELHI				491.643
ACTUAL DRAWAL FROM THE GRID				2617.386
OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID ON THE BASIS OF SCHEDULED ALLOCATION MADE BY NRLDC TO DELHI AT PERIPHERY				-14.723
LOAD SHEDDING				0.943
UNRESTRICTED DEMAND (GROSS)				3130.333
UNRESTRICTED DEMAND (NET)				3109.972
MAX. NET CONSUMPTION				125.714 On 19.06.20
MAX. LOAD SHEDDING				488 MW ON 10.06.2020 AT 17.57 HRS.
PEAK LOAD	Peak Demand during the month			SHEDDING AT PEAK TIME
DAY PEAK	6314 MW AT 15:33:17 HRS ON 29.06.2020			NIL.
EVENING PEAK	6245 MW AT 23:03:44 HRS ON 19.06.2020			NIL

8 SHEDDING DETAILS DURING THE MONTH OF JUNE 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		TPDDL	NDMC	TOTAL	BSES		TPDDL	NDMC	MES
		BYPL	BRPL				BYPL	BRPL			
1	2	3	4	5	6	7=3 to 6	8	9	10	11	12
01-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
02-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
03-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
04-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
05-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
06-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
07-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
09-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30-06-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ALL FIGURES IN MUs

Date	Shedding due to Transmission/Grid Constraints in Central Sector Stations / TTC / ATC VIOLATION				DUE TO NEW GRID CODE REGULATION DEVIATION			Shedding due to Transmission/Grid Constraints in Central sector stations				Total	Total shedding due to grid restrictions
	BSES		TPDDL	NDMC	BSES			BSES		TPDDL	NDMC		
	BYPL	BRPL			BYPL	BRPL	TPDDL	BYPL	BRPL				
1	13	14	15	16	17	18	19	20	21	22	23	24=8 to 23	25=7+24
01-06-20	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
02-06-20	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
03-06-20	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
04-06-20	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
05-06-20	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
06-06-20	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
07-06-20	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
08-06-20	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
09-06-20	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
10-06-20	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
11-06-20	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
12-06-20	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
13-06-20	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
14-06-20	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
15-06-20	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
16-06-20	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
17-06-20	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
18-06-20	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
19-06-20	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
20-06-20	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
21-06-20	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
22-06-20	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
23-06-20	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
24-06-20	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
25-06-20	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
26-06-20	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
27-06-20	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
28-06-20	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
29-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30-06-20	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

Date	DUE TO T&D CONSTRAINTS IN DELHI SYSTEM								
	DTL					DISCOMS			
	BSES		TPDDL	NDMC	MES	BSES		TPDDL	NDMC
	BYPL	BRPL				BYPL	BRPL		
1	26	27	28	29	30	31	32	33	34
01-06-20	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
02-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
03-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
04-06-20	0.000	0.025	0.000	0.000	0.000	0.001	0.001	0.000	0.000
05-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.013	0.000
06-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000
07-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000
08-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.001	0.000
09-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.002	0.000
10-06-20	0.000	0.088	0.0170	0.000	0.000	0.006	0.065	0.002	0.000
11-06-20	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-06-20	0.006	0.000	0.000	0.000	0.000	0.000	0.014	0.011	0.000
13-06-20	0.000	0.000	0.000	0.000	0.000	0.003	0.002	0.000	0.000
14-06-20	0.0160	0.000	0.000	0.000	0.000	0.000	0.048	0.000	0.000
15-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.061	0.000	0.000
16-06-20	0.000	0.000	0.000	0.000	0.000	0.002	0.015	0.000	0.000
17-06-20	0.000	0.000	0.004	0.000	0.000	0.000	0.003	0.0000	0.000
18-06-20	0.008	0.077	0.000	0.000	0.000	0.000	0.020	0.000	0.000
19-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.023	0.000	0.000
21-06-20	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.008	0.000	0.000
23-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.023	0.000	0.000
24-06-20	0.000	0.022	0.001	0.000	0.000	0.000	0.004	0.000	0.000
25-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.019	0.0000	0.000
26-06-20	0.002	0.000	0.035	0.000	0.000	0.000	0.003	0.001	0.000
27-06-20	0.005	0.000	0.000	0.000	0.000	0.000	0.018	0.000	0.000
28-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0020	0.000
29-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.041	0.000	0.000
30-06-20	0.042	0.000	0.002	0.000	0.000	0.000	0.000	0.001	0.000
TOTAL	0.082	0.224	0.058	0.000	0.000	0.012	0.381	0.037	0.000

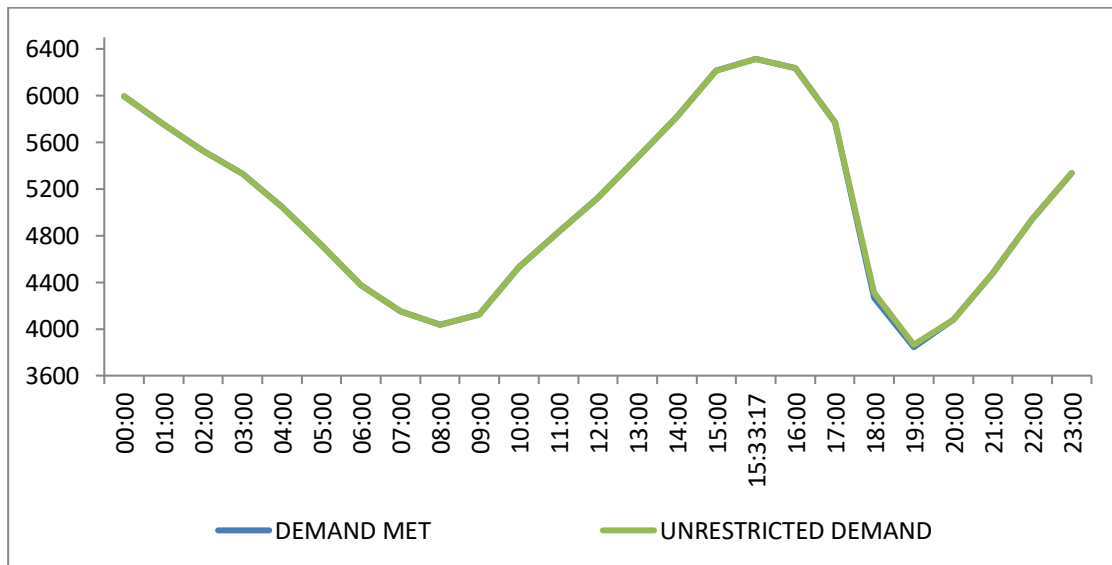
DATE	OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.				THEFT PRONE SHEDDING			TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE 42= 26 to 41	GRAND TOTAL 43 = 25 + 42
	BSES		TPDDL	NDMC	BSES		TPDDL		
	BYPL	BRPL			BYPL	BRPL			
1	35	36	37	38	39	40	41		
01-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.003
02-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001
03-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001
04-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.027	0.027
05-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.015
06-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.003
07-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002
08-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.004
09-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.006
10-06-20	0.021	0.106	0.002	0.011	0.000	0.000	0.000	0.318	0.318
11-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.006
12-06-20	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.040	0.040
13-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.005
14-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.064	0.064
15-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.061	0.061
16-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.017
17-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.007
18-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.105	0.105
19-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.023	0.023
21-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.006
22-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.009
23-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.023	0.023
24-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.027	0.027
25-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.019	0.019
26-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.041	0.041
27-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.023	0.023
28-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002
29-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.041	0.041
30-06-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.044	0.044
TOTAL	0.030	0.106	0.002	0.011	0.000	0.000	0.000	0.943	0.943

DATE	(NET CONS.)	MAXI DEMAND MET DURING THE DAY	TIME OF OCCURRENCE OF MAX DEMAND	SHEDDING AT THIS TIME	UN-RESTRICTED DEMAND	MAXIMUM UN-RESTRICTED 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
01-06-20	77.011	3807	23:28:50	0	3807	3807	23:28:50	3807	0
02-06-20	80.756	4058	23:10:25	0	4058	4058	23:10:25	4058	0
03-06-20	88.213	4250	23:14:10	0	4250	4250	23:14:10	4250	0
04-06-20	86.378	4194	00:02:16	0	4194	4194	00:02:16	4194	0
05-06-20	83.020	3935	23:16:13	0	3935	3935	23:16:13	3935	0
06-06-20	82.458	4248	23:23:09	0	4248	4248	23:23:09	4248	0
07-06-20	82.206	4193	00:00:04	0	4193	4193	00:00:04	4193	0
08-06-20	88.015	4611	23:23:11	0	4611	4611	23:23:11	4611	0
09-06-20	100.711	5119	23:30:32	0	5119	5119	23:30:32	5119	0
10-06-20	104.940	5198	15:47:12	0	5198	5198	15:47:12	5198	0
11-06-20	109.306	5534	23:22:55	0	5534	5534	23:22:55	5534	0
12-06-20	114.793	5591	23:18:37	0	5591	5591	23:18:37	5591	0
13-06-20	108.165	5509	00:01:02	0	5509	5509	00:01:02	5509	0
14-06-20	104.461	5571	22:59:21	0	5571	5571	22:59:21	5571	0
15-06-20	114.393	5805	23:31:27	0	5805	5805	23:31:27	5805	0
16-06-20	117.678	5899	23:23:10	0	5899	5899	23:23:10	5899	0
17-06-20	120.293	5985	23:12:51	0	5985	5985	23:12:51	5985	0
18-06-20	120.683	6193	22:43:57	0	6193	6193	22:43:57	6193	0
19-06-20	125.714	6245	23:03:44	0	6245	6245	23:03:44	6245	0
20-06-20	108.017	6064	00:01:27	0	6064	6064	00:01:27	6064	0
21-06-20	98.939	5243	23:17:29	0	5243	5243	23:17:29	5243	0
22-06-20	103.295	5369	23:26:51	0	5369	5369	23:26:51	5369	0
23-06-20	108.128	5467	23:18:46	0	5467	5467	23:18:46	5467	0
24-06-20	108.221	5288	23:00	0	5288	5288	23:00	5288	0
25-06-20	106.091	5332	23:25:46	0	5332	5332	23:25:46	5332	0
26-06-20	108.653	5399	23:25:27	0	5399	5399	23:25:27	5399	0
27-06-20	107.959	5561	23:01:01	0	5561	5561	23:01:01	5561	0
28-06-20	113.488	6096	23:01:33	0	6096	6096	23:01:33	6096	0
29-06-20	119.617	6314	15:33:17	0	6314	6314	15:33:17	6314	0
30-06-20	117.427	5895	23:00:28	0	5895	5895	23:00:28	5895	0
TOTAL	3109.029	6314	15:33:17	0	6314	6314	15:33:17	6314	0
		29.06.20			29.06.20				

9. **LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING JUNE 2020 ON 29.06.2020 - 6314 MW AT 15:33:17 HRS.**

All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
00:00	5993	0	5993
01:00	5752	0	5752
02:00	5526	0	5526
03:00	5331	0	5331
04:00	5043	0	5043
05:00	4723	0	4723
06:00	4374	0	4374
07:00	4153	0	4153
08:00	4037	0	4037
09:00	4122	0	4122
10:00	4530	0	4530
11:00	4830	0	4830
12:00	5122	0	5122
13:00	5465	0	5465
14:00	5820	0	5820
15:00	6211	0	6211
15:33:17	6314	0	6314
16:00	6235	0	6235
17:00	5771	0	5771
18:00	4264	46	4310
19:00	3844	21	3865
20:00	4082	0	4082
21:00	4474	0	4474
22:00	4938	0	4938
23:00	5336	0	5336
Total in MUs	119.617	0.041	119.658

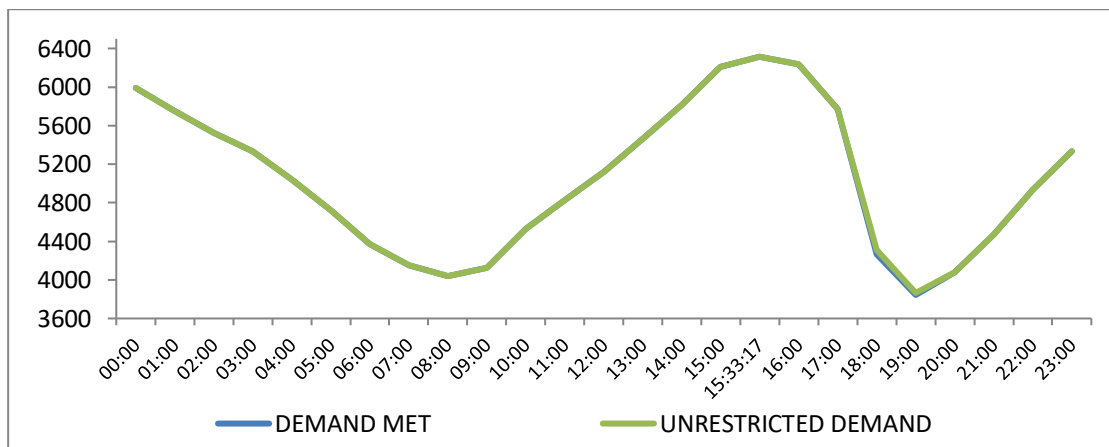


10

LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING JUNE 2020 ON 29.06.2020 - 6314 MW AT 15:33:17 HRS.

All figures in MW

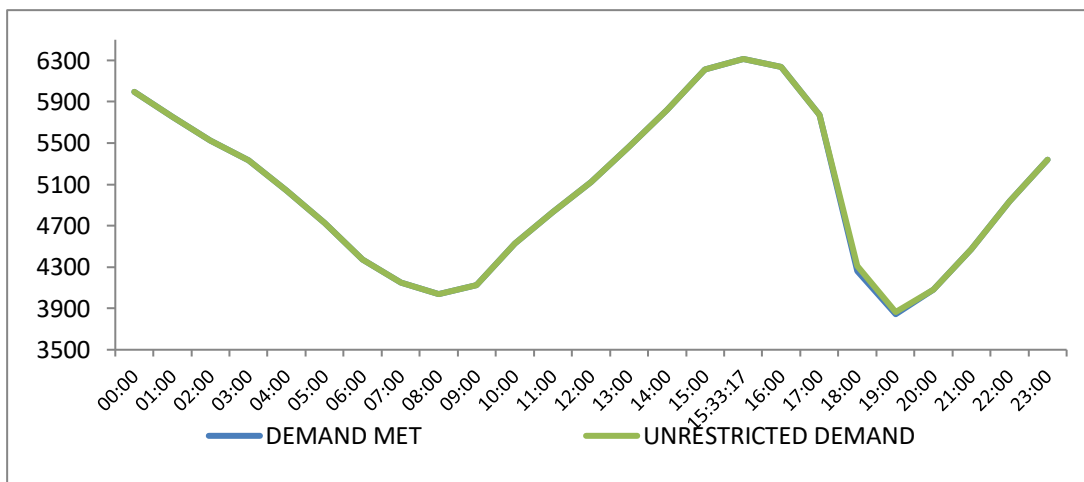
Hrs.	Demand	Load Shedding	Un-Restricted Demand
00:00	5993	0	5993
01:00	5752	0	5752
02:00	5526	0	5526
03:00	5331	0	5331
04:00	5043	0	5043
05:00	4723	0	4723
06:00	4374	0	4374
07:00	4153	0	4153
08:00	4037	0	4037
09:00	4122	0	4122
10:00	4530	0	4530
11:00	4830	0	4830
12:00	5122	0	5122
13:00	5465	0	5465
14:00	5820	0	5820
15:00	6211	0	6211
15:33:17	6314	0	6314
16:00	6235	0	6235
17:00	5771	0	5771
18:00	4264	46	4310
19:00	3844	21	3865
20:00	4082	0	4082
21:00	4474	0	4474
22:00	4938	0	4938
23:00	5336	0	5336
Total in MUs	119.617	0.041	119.658



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING JUNE 2020 – 19.06.2020 – 125.714 Mus

All figures in MW

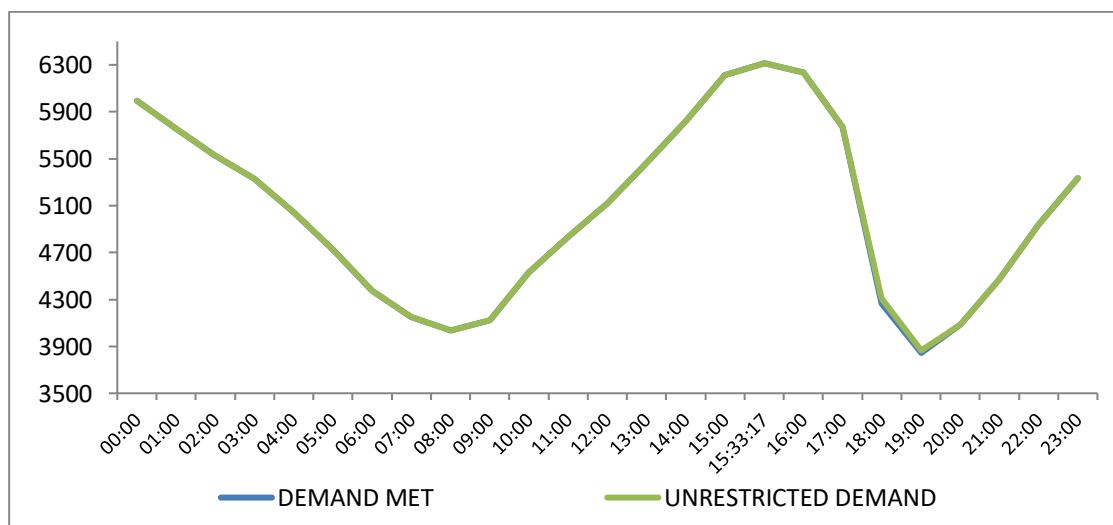
Hrs.	Demand	Load Shedding	Un-Restricted Demand
00:00	6048	0	6048
01:00	5844	0	5844
02:00	5587	0	5587
03:00	5292	0	5292
04:00	5044	0	5044
05:00	4707	0	4707
06:00	4346	0	4346
07:00	4146	0	4146
08:00	4082	0	4082
09:00	4192	0	4192
10:00	4618	0	4618
11:00	4941	0	4941
12:00	5232	0	5232
13:00	5490	0	5490
14:00	5842	0	5842
15:00	6198	0	6198
16:00	6142	0	6142
17:00	5759	0	5759
18:00	5159	0	5159
19:00	4751	0	4751
20:00	5018	0	5018
21:00	5508	0	5508
22:00	6006	0	6006
23:00	6236	0	6236
23:03:44	6245	0	6245
Total in MUs	125.714	0.000	125.714



12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING JUNE 2020 – ON 19.06.2020 – 125.714 – MUs

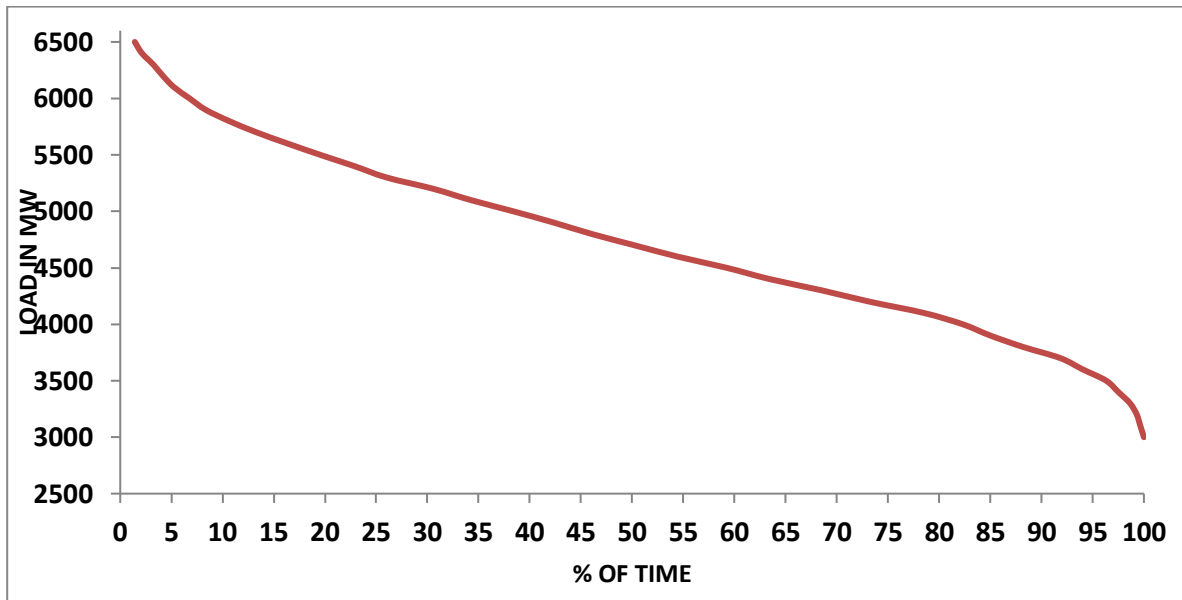
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
00:00	6048	0	6048
01:00	5844	0	5844
02:00	5587	0	5587
03:00	5292	0	5292
04:00	5044	0	5044
05:00	4707	0	4707
06:00	4346	0	4346
07:00	4146	0	4146
08:00	4082	0	4082
09:00	4192	0	4192
10:00	4618	0	4618
11:00	4941	0	4941
12:00	5232	0	5232
13:00	5490	0	5490
14:00	5842	0	5842
15:00	6198	0	6198
16:00	6142	0	6142
17:00	5759	0	5759
18:00	5159	0	5159
19:00	4751	0	4751
20:00	5018	0	5018
21:00	5508	0	5508
22:00	6006	0	6006
23:00	6236	0	6236
23:03:44	6245	0	6245
Total in MUs	125.714	0.000	125.714



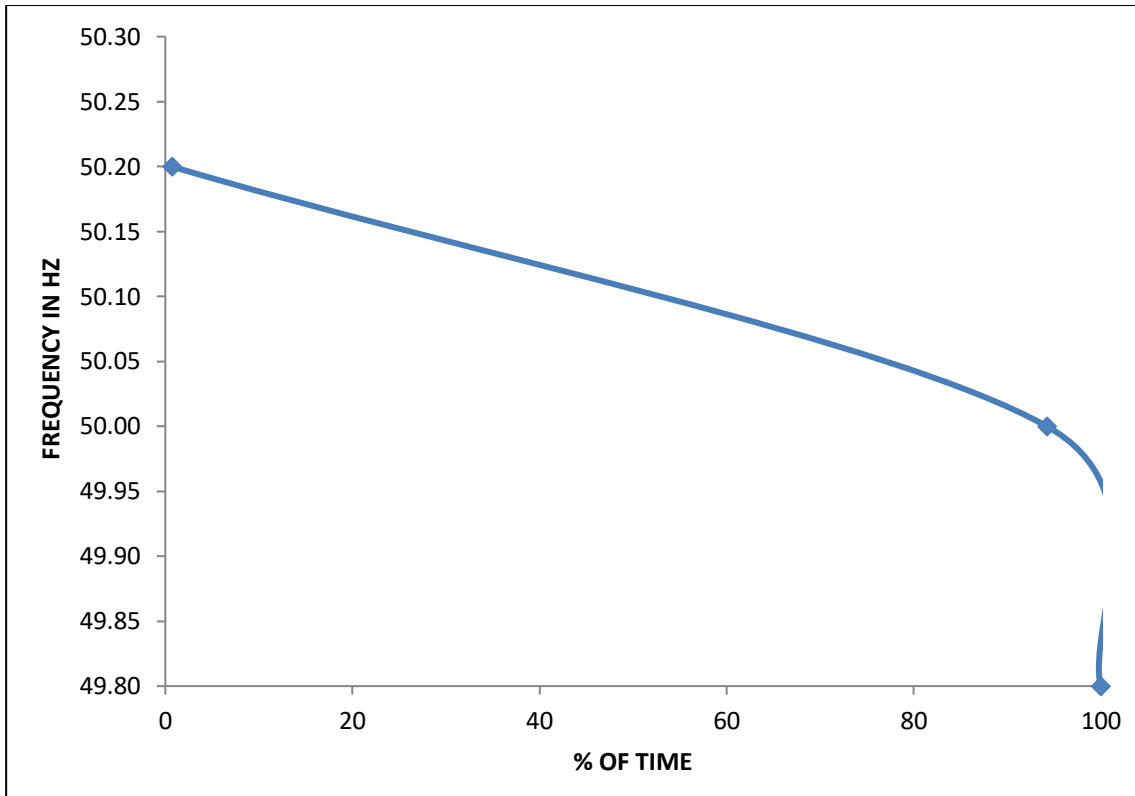
13 **LOAD DURATION CURVE FOR JUNE 2020**

Load in MW	Percentage of Time	Load in MW	Percentage of Time
Above 6200	0.3	Above 4300	46.04
Above 6100	0.73	Above 4200	50.21
Above 6000	1.42	Above 4100	54.41
Above 5900	2.12	Above 4000	59.24
Above 5800	3.23	Above 3900	63.44
Above 5700	4.17	Above 3800	68.54
Above 5600	5.24	Above 3700	73.19
Above 5500	6.77	Above 3600	78.51
Above 5400	8.33	Above 3500	82.29
Above 5300	10.63	Above 3400	85.00
Above 5200	13.30	Above 3300	88.16
Above 5100	16.35	Above 3200	91.84
Above 5000	19.55	Above 3100	94.03
Above 4900	22.88	Above 3000	96.32
Above 4800	26.01	Above 2900	97.50
Above 4700	30.56	Above 2800	98.65
Above 4600	34.24	Above 2700	99.31
Above 4500	38.40	Above 2600	99.65
Above 4400	42.36	Above 2500	100.00



14 FREQUENCY ANALYSIS FOR THE MONTH OF JUNE 2020

FREQUENCY REMAINED ABOVE IN MW	DURATION IN HOURS	(%) OF TIME
50.20	5.00	0.69
50.00	678.50	94.24
49.80	719.75	99.97
49.60	719.75	99.97
49.40	720.00	100.00



15 VOLTAGE PROFILE OF 220 KV SUB-STATIONS IN DELHI DURING JUNE 2020
All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
01-06-20	232.40	219.50	235.36	221.69
02-06-20	230.08	217.95	233.82	220.79
03-06-20	228.01	217.70	231.75	220.53
04-06-20	228.92	220.15	232.01	221.05
05-06-20	229.95	219.89	232.78	221.18
06-06-20	230.21	217.82	233.95	221.44
07-06-20	229.43	219.24	235.11	224.92
08-06-20	229.17	215.12	233.82	220.40
09-06-20	227.63	216.41	233.30	218.34
10-06-20	228.66	214.73	233.69	214.73
11-06-20	227.50	213.70	232.78	217.05
12-06-20	226.85	213.83	232.40	213.83
13-06-20	228.66	216.92	233.30	221.05
14-06-20	228.92	215.24	233.43	220.27
15-06-20	225.30	215.24	232.01	219.24
16-06-20	225.95	211.50	232.78	219.11
17-06-20	225.05	213.31	231.75	217.95
18-06-20	224.92	212.79	230.72	219.24
19-06-20	225.05	213.83	231.88	219.63
20-06-20	229.43	214.99	233.04	218.60
21-06-20	227.88	216.02	234.98	220.79
22-06-20	227.50	214.73	233.95	220.15
23-06-20	225.43	214.60	231.88	220.53
24-06-20	225.05	216.53	231.49	222.21
25-06-20	227.24	216.28	233.04	222.08
26-06-20	226.59	214.73	232.40	220.40
27-06-20	225.43	214.34	232.66	219.50
28-06-20	225.43	212.79	232.14	219.89
29-06-20	227.88	210.21	233.30	215.37
30-06-20	225.05	212.54	232.66	217.70

16 VOLTAGE PROFILE OF 400 KV SUB-STATIONS IN DELHI DURING JUNE 2020

All figures in kV

Date	400kV Bamnauli Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01-06-20	414.57	05:01:43	391.12	22:51:16	404.02
02-06-20	411.52	06:01:57	387.37	22:32:01	400.29
03-06-20	408.01	04:00:03	385.73	22:17:04	399.08
04-06-20	411.52	17:54:48	391.12	00:00:00	402.01
05-06-20	410.82	01:52:59	391.59	12:09:51	402.29
06-06-20	412.70	04:00:43	385.50	22:33:36	400.78
07-06-20	412.46	08:01:18	391.36	22:32:51	404.64
08-06-20	410.12	06:01:22	382.68	22:14:25	398.93
09-06-20	409.18	03:06:15	383.15	22:12:49	398.01
10-06-20	408.01	18:15:33	381.51	22:21:13	395.26
11-06-20	410.12	06:01:45	354.54	18:26:47	397.20
12-06-20	410.82	06:01:29	386.90	22:13:41	399.07
13-06-20	415.74	18:02:24	389.95	00:10:32	403.11
14-06-20	414.57	07:52:06	389.95	22:22:48	403.86
15-06-20	410.12	07:15:30	388.54	23:35:12	399.52
16-06-20	409.65	07:34:04	385.26	22:07:46	397.81
17-06-20	410.12	07:40:48	387.37	14:46:19	398.06
18-06-20	408.94	07:48:52	386.90	23:35:24	397.79
19-06-20	409.88	08:00:45	389.72	14:38:27	398.34
20-06-20	412.70	18:46:51	0.00	08:12:59	326.59
21-06-20	419.50	08:57:03	394.41	22:24:25	408.04
22-06-20	418.09	07:00:56	392.76	22:12:59	404.85
23-06-20	412.46	04:01:50	388.78	22:18:03	400.96
24-06-20	408.71	07:00:25	392.06	22:11:06	400.72
25-06-20	411.99	08:01:28	391.12	22:14:50	401.16
26-06-20	410.82	07:00:41	388.08	22:15:14	399.62
27-06-20	411.06	06:20:55	385.50	22:22:48	399.45
28-06-20	410.12	08:00:40	386.43	22:16:52	399.13
29-06-20	410.82	18:35:15	381.51	13:57:55	397.56
30-06-20	410.82	03:18:37	384.09	14:53:09	397.14

All figures in kV

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01-06-20	425.12	05:01:57	400.27	22:14:10	413.34
02-06-20	419.73	06:02:21	396.75	22:33:25	408.52
03-06-20	415.74	06:02:03	395.58	22:17:15	407.26
04-06-20	418.56	17:54:27	400.74	00:00:00	409.96
05-06-20	419.26	04:02:49	400.27	12:09:50	410.62
06-06-20	420.43	04:00:51	396.28	22:16:34	409.40
07-06-20	419.73	08:03:25	400.74	22:32:47	412.47
08-06-20	418.09	06:00:53	390.19	22:15:46	406.73
09-06-20	414.57	05:00:41	393.47	22:12:53	404.43
10-06-20	412.70	06:01:04	390.89	22:13:56	402.12
11-06-20	413.17	06:01:27	391.36	13:46:28	401.82
12-06-20	413.63	18:30:24	392.06	11:48:41	403.07
13-06-20	418.09	18:02:15	395.11	00:10:13	405.97
14-06-20	416.68	07:00:46	394.64	22:10:38	407.45
15-06-20	411.99	07:44:09	392.30	23:37:21	401.73
16-06-20	412.23	07:35:13	389.72	22:08:15	401.10
17-06-20	412.23	07:40:46	391.36	14:18:17	400.92
18-06-20	409.88	08:00:45	391.12	23:41:32	400.02
19-06-20	410.35	08:00:42	390.89	02:18:02	401.09
20-06-20	416.92	08:06:56	395.58	22:12:57	404.65
21-06-20	417.86	08:57:18	396.99	22:16:40	407.50
22-06-20	415.98	04:01:11	394.41	22:13:03	404.39
23-06-20	412.70	08:01:14	393.94	22:18:46	403.42
24-06-20	411.29	08:00:17	396.75	00:05:18	404.63
25-06-20	413.87	08:01:40	398.16	22:08:42	405.06
26-06-20	413.63	07:00:43	396.99	22:15:15	404.93
27-06-20	414.34	06:17:36	393.70	23:05:48	405.34
28-06-20	414.34	08:00:49	395.11	22:16:51	404.79
29-06-20	415.98	17:46:34	389.72	13:57:23	404.32
30-06-20	414.34	03:16:35	393.23	14:53:06	403.37

DETAILS OF BREAK-DOWNS / TRIPPING DURING THE MONTH OF JUNE 2020

SL N O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
01	01.06.20	05:30	220kV WAZIPUR – PEERA GARHI CKT.-I	01.06.20	06:40	CKT. TRIPPED ON OVER VOLTAGE, 86 AT WAZIRPUR
02	02.06.20	11:04	220/66KV 160MVA PR. TR.-II AT DIAL	03.06.20	16:27	TR. TRIPPED ON 86
03	04.06.20	17:10	220KV MUNDKA – KANJHAWALA CKT.	04.06.20	18:00	CKT. TRIPPED ON DIST PROT ZONE-II AT MUNDKA
04	04.06.20	18:20	220/66KV 160MVA PR. TR-III AT PAPPANKALAN-II	04.06.20	22:00	TR. TRIPPED ON DIFFERENTIAL, 86
05	04.06.20	20:44	220KV MAHARANI BAGH – MASJID MOTH CKT-II	08.06.20	11:58	CKT. TRIPPED ON 86 Y PHASE ZONE-I AT MAHARANI BAGH. NO TRIPPING AT MASJID MOTH
06	06.06.20	11:12	400KV BAMNAULI – JHATIKARA CKT-I	06.06.20	17:47	CKT. TRIPPED ON 86, 186, 86LO
07	06.06.20	12:13	220KV BTPS – ALWAR CKT.	07.06.20	01:24	CKT. TRIPPED ON DIST PROT Y PHASE ZONE-I AT BTPS.
08	06.06.20	19:12	220KV TUGLAKABAD – OKHLA CKT-II	07.06.20	08:55	CKT. TRIPPED ON DIST PROT Y PHASE ZONE-I AT TUGLAKABAD AND ON DIST PROT Y PHASE AT OKHLA
09	07.06.20	07:02	220/66KV 100MVA PR. TR.-I AT VASANT KUNJ	07.06.20	12:17	TR. TRIPPED ON 86, 96, 30D ALONG WITH 66KV I/C-I WHICH TRIPPED ON 86
10	07.06.20	10:52	220KV PRAGATI – SARITA VIHAR CKT	07.06.20	14:28	CKT. TRIPPED ON DIST PROT ZONE-I Y PHASE AT SARITA VIHAR AND ON DIST PROT Y PHASE ZONE-I AT PRAGATI.
11	09.06.20	02:35	220KV PANIPAT – NARELA CKT-I	09.06.20	12:48	CKT. TRIPPED ON DIST PROT RYB PHASE ZONE-I AT NARELA
12	10.06.20	17:56	400KV DADRI-MAHARANI BAGH CKT	10.06.20	19:11	AT DADRI: B-N FAULT, 17.1KM AT MAHARANI BAGH: CKT DID NOT TRIP
13	10.06.20	17:56	400KV BALLABHGARH-MAHARANI BAGH CKT	10.06.20	19:02	AT BALLABHGARH: B-N FAULT, 26.3KM AT MAHARANI BAGH: CKT DID NOT TRIP
14	10.06.20	17:00	400KV BAWANA-MANDOLA CKT-I	10.06.20	20:38	AT BAWANA:C PHASE, Z-1, DIST. PROT., DISTANCE-18.49KM AT MANDOLA:C PHASE, Z-18.49KM
15	10.06.20	17:30	220KV MAHARANI BAGH-SARITA VIHAR CKT	10.06.20	20:27	AT MAHARANI BAGH: L-3 N, 6.7KM, 86 AT SARITA VIHAR:86ABC, DIST. PROT., DIST-4.119KM
16	10.06.20	17:34	220KV PRAGATI-SARITA VIHAR CKT	10.06.20	18:12	AT PRAGATI:Z-2, Y PHASE AT SARITA VIHAR: : CKT DID NOT TRIP
17	10.06.20	17:33	220KV BTPS-SARITA VIHAR CKT-I	10.06.20	21:36	AT BTPS:GEN TRIP, ZONE-II,R PHASE, 86A & 86B, 3.3KM AT SARITA VIHAR: CKT DID NOT TRIP
18	10.06.20	17:33	220KV BTPS-SARITA VIHAR CKT-II	10.06.20	21:36	AT BTPS: GEN TRIP, ZONE-II,B PHASE, 86A & 86B, 3.1KM AT SARITA VIHAR:: C PHASE, DIST. PROT.
19	10.06.20	17:37	220KV BTPS-TUGHALAKABAD CKT-I	10.06.20	19:57	AT TUGHLAKABAD: DIFFERENTIAL TRIP, A PHASE AT BTPS: : CKT DID NOT TRIP
20	10.06.20	17:37	220KV BTPS- TUGHALAKABAD CKT-II	10.06.20	19:58	AT TUGHLAKABAD: DIFFERENTIAL TRIP, RYB PHASE AT BTPS: CKT DID NOT TRIP
21	10.06.20	17:35	220KV BTPS-OKHLA CKT-I	10.06.20	20:45	AT BTPS:ZONE-I, B PHASE, DIST-3.9KM AT OKHLA: RYB PHASE, Z-1, GROUP AB
22	10.06.20	18:12	220KV PAPPANKALAN-I – DWARAKA CKT	11.06.20	03:17	AT PAPPANKALAN-I: AUTO RECLOSE, B PHASE, E/F, 186A, 186B AT DWARAKA: CKT DID NOT TRIP
23	10.06.20	17:01	220KV BAWANA-ROHINI-II CKT-II	10.06.20	20:21	AT BAWANA:R PHASE, Z-2,86 AB. AT ROHINI-II: R PHASE,DIFFERENTIAL, Z-1, SOTF.
24	10.06.20	17:13	220KV MANDOLA-GOPALPUR CKT-I	10.06.20	19:29	AT MANDOLA:Y PH., DIST. PROT. 186ABC AT GOPALPUR:RY PHASE, DIFFERENTIAL, 186AB

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
25	10.06.20	17:12	220KV MANDOLA-GOPALPUR CKT-II	10.06.20	20:34	AT MANDOLA:Y PH, DIST. PROT. 86ABC AT GOPALPUR:DIFFERENTIAL, Y PHASE, 186ABC
26	10.06.20	17:00	220KV MANDOLA-NARELA CKT-II	10.06.20	19:30	AT NARELA: B PHASE, DIFFERENTIAL , 86 C, 7.21KM
27	10.06.20	17:01	220KV PANIPAT-NARELA CKT-I	10.06.20	20:06	AT NARELA: ABC PHASE, Z-1, DIST.- 1.255KM
28	10.06.20	17:33	220/66KV 100MVA TRX.-II ALONGWITH 66KV I/C-II AT SARITA VIHAR	10.06.20	18:15	TRX TRIPPED ON E/F, 51N, IDMT, 86. 66KV I/C-II TRIPPED ON 86
29	10.06.20	17:33	220/66KV 100MVA TRX.-III ALONG WITH I/C-III AT SARITA VIHAR	10.06.20	18:30	O/C , E/F, GEN. TRIP, 86 AB
30	10.06.20	18:12	66KV I/C-II OF 220/66KV 100MVA TRX.-II AT PAPPANKALAN-I	10.06.20	19:05	64, 51N
31	10.06.20	18:12	220/66KV 100MVA TX.-III ALONG WITH 66KV I/C-III AT PAPPANKALAN-I	10.06.20	19:48	TRX. TRIPPED ON O/C, E/F 66KV I/C-III TRIPPED ON E/F, O/C, B PHASE
32	10.06.20	18:12	66KV I/C-IV OF 220/66KV 100MVA TRX.-IV AT PAPPANKALAN-I	10.06.20	19:08	O/C, E/F
33	10.06.20	18:12	66KV I/C-V OF 220/66KV 160MVA TRX.-V AT PAPPANKALAN-I	10.06.20	19:23	86, O/C, E/F
34	10.06.20	17:56	220/33KV 100MVA TRX-IV AT PATPARGANJ	10.06.20	18:05	OVER FLUX, 86, GROUP B
35	10.06.20	17:40	220/66KV 160MVA TRX-I AT OKHLA	10.06.20	19:12	86X, 51.
35	11.06.20	16:47	220/66KV 100MVA PR. TR-III AT MUNDKA	11.06.20	20:35	TR. TRIPPED ON GROUP-A ALONG WITH 66KV I/C-II WHICH TRIPPED ON INTER TRIPPING
36	11.06.20	18:27	220KV BTPS – SARITA VIHAR CKT-II	12.06.20	06:45	CKT. TRIPPED ON DIST PROT RY PHASE ZONE-I AT BTPS AND ON DIST PROT RYB PHASE AT SARITA VIHAR
37	11.06.20	18:27	220/66KV 100MVA PR. TR.-III AT SARITA VIHAR	12.06.20	18:50	TR. TRIPPED ON O/C, E/F ALONG WITH ITS 66KV I/C-III WHICH TRIPPED ON 86A, 86B
38	11.06.20	18:27	220KV BTPS – OKHLA CKT-II	11.06.20	19:34	CKT. TRIPPED ON 86, 86B, DIST PROT AT BTPS. NO TRIPPING AT OKHLA
39	12.06.20	13:50	400KV DADRI - HARSH VIHAR CKT-I	12.06.20	14:44	CKT TRIPPED ON DIST PROT ZONE-I RYB PHASE, SOTF AT HARSH VIHAR
40	13.06.20	09:18	400/220KV 315MVA ICT-I & IV AT BAWANA	13.06.20	13:08	ICT-I & IV TRIPPED ON 86. ICT-I & IV CHARGED AT 13.07HRS & 13.08HRS RESPECTIVELY.
41	13.06.20	16:04	220KV TUGLAKABAD – BTPS CKT-I	13.06.20	21:45	CKT. TRIPPED ON DIST PROT R PHASE ZONE-I, 86A AT BTPS AND ON DIST PROT R PHASE ZONE-I AT TUGLAKABAD
42	14.06.20	02:42	220KV PANIPAT – NARELA CKT-I	14.06.20	04:05	CKT. TRIPPED ON DIST PROT ZONE-I AT NARELA
43	14.06.20	18:06	220KV BTPS – ALWAR CKT	14.06.20	20:24	CKT. TRIPPED ON DIST PROT Y PHASE ZONE-I AT BTPS.
44	16.06.20	10:11	220KV PRAGATI – SARITA VIHAR CKT	16.06.20	12:14	CKT. TRIPPED ON DIST PROT ZONE-II AT PRAGATI AND ON DIST PROT AUTO RECLOSE LOCK OUT, 86, ABC, DIFFERENTIAL AT SARITA VIHAR.
45	16.06.20	13:44	220KV SHALIMAR BAGH – SGTN CKT-II	16.06.20	14:25	CKT. TRIPPED AT SHALIMAR BAGH END ONLY.
46	16.06.20	15:00	220KV PRAGATI – SARITA VIHAR CKT	16.06.20	18:30	CKT. TRIPPED ON DIST PROT ZONE-I C-N PHASE AT PRAGATI AND ON DIST PROT ZONE-I AT SARITA VIHAR.
47	16.06.20	16:00	220KV SHALIMAR BAGH – SGTN CKT-II	16.06.20	18:50	CKT. TRIPPED AT SHALIMAR BAGH END ONLY.
48	17.06.20	13:31	400KV DADRI – HARSH VIHAR CKT-II	17.06.20	17:24	CKT. TRIPPED ON DIST PROT B PHASE ZONE-I, 86 AT HARSH VIHAR
49	17.06.20	13:40	220KV SHALIMAR BAGH – SGTN CKT-II	17.06.20	14:09	CKT. TRIPPED ON 86 AT SHALIMAR BAGH.
50	18.06.20	12:37	220KV BTPS – ALWAR CKT.	18.06.20	14:18	CKT. TRIPPED ON DIST PROT Y PHASE ZONE-I AT BTPS. NO TRIPPING AT ALWAR.

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
51	18.06.20	14:25	220/33KV 100MVA PR. TR.-I AT GEETA COLONY	18.06.20	22:49	TR. TRIPPED ON DIFFERENTIAL RYB PHASE ALONG WITH 33KV I/C-I. FIRE REPORTED IN 'Y' PHASE PT OF 33KV I/C-I
52	18.06.20	22:47	220KV BTPS – SARITA VIHAR CKT-I & II	18.06.20	23:25	BOTH CKTS TRIPPED WITHOUT INDICATION AT SARITA VIHAR
53	18.06.20	22:47	220/66KV 100MVA PR. TR.-II & III AT SARITA VIHAR	18.06.20	23:25	BOTH TRANSFORMERS TRIPPED WITHOUT INDICATION. 220KV BUS COUPLER TRIPPED ON TRIP SUPERVISION RELAY.
54	19.06.20	18:34	220KV GEETA COLONY – PATPARGANJ CKT-I	19.06.20	19:20	CKT. TRIPPED ON DIST PROT B PHASE ZONE-I AT GEETA COLONY AND ON DIST PROT ZONE-I YB PHASE AT PATPARGANJ
55	20.06.20	04:55	220KV WAZIRABAD – GEETA COLONY CKT-I	20.06.20	07:04	CKT. TRIPPED ON DIST PROT B PHASE ZONE-II AT WAZIRABAD AND ON DIST PROT R PHASE, ZONE-I, E/F R PHASE AT GEETA COLONY
56	20.06.20	04:53	220/33KV 100MVA PR. TR.-I AT PATPARGANJ	20.06.20	06:20	TR. TRIPPED ON O/C B PHASE, 86
57	20.06.20	05:01	220KV PRAGATI – SARITA VIHAR CKT	20.06.20	06:02	CKT. TRIPPED ON DIST PROT C PHASE ZONE-I AT SARITA VIHAR AND ON DIST. PROT C PHASE ZONE-I AT PRAGATI
58	21.06.20	06:08	220KV BALLABHGARH – BTPS CKT-II	21.06.20	09:23	CKT. TRIPPED ON DIST PROT RY PHASE ZONE-I AT BTPS.
59	21.06.20	11L:28	220KV TUGLAKABAD – BTPS CKT-II	21.06.20	12:21	CKT. TRIPPED ON DIST PROT R PHASE ZONE-I AT BTPS. NO TRIPPING AT TUGLAKABAD.
60	22.06.20	06:20	220/33KV 100MVA PR. TR.-II AT MASJID MOTH	22.06.20	09:35	TR. TRIPPED ON PRV TRIP, NON DIRECTIONAL, 86 ALONG WITH ITS 33KV I/C-II WHICH TRIPPED ON 86
61	23.06.20	10:38	220KV BTPS – SARITA VIHAR CKT-I	23.06.20	19:30	CKT. TRIPPED ON DIST PROT YB PHASE ZONE-I AT BTPS AND ON DIST PROT YB PHASE ZONE-II, 186A, 186B AT SARITA VIHAR.
62	24.06.20	18:07	220KV BALLABHGARH – BTPS CKT-II	24.06.20	23:52	CKT. TRIPPED ON DIST PROT ZONE-IV RY PHASE AT BTPS. CKT. TRIED TO CLOSE AT 19:15HRS BUT AGAIN TRIPPED. CKT. FINALLY CHARGED AT 23:52HRS.
63	24.06.20	17:17	220KV RIDGE VALLEY – NARAINA CKT	24.06.20	18:43	AT NARAINA, CKT. TRIPPED ON TRIP SUPERVISION RELAY, UNDER FREQUENCY RELAY ALONG WITH 220KV I/C-I & III WHICH ALSO TRIPPED ON TRIP SUPERVISION RELAY. 33KV I/C-I & III ALSO TRIPPED ON GENERAL TRIP. CKT TRIED TO CLOSE AT 17:30HRS BUT DID NOT HOLD. CKT. FINALLY CHARGED AT 18:23HRS AND 100MVA PR-I & III CHARGED AT 18:14HRS. AND 18:43HRS RESPECTIVELY ALONG WITH THEIR 33KV I/CS
64	24.06.20	2:39	220KV BTPS – ALWAR CKT	25.06.20	00:05	CKT. TRIPPED ON DIST PROT R PHASE ZONE-I AT BTPS.
65	25.06.20	14:07	220KV PANIPAT – NARELA CKT-III	26.06.20	09:05	CKT. TRIPPED ON DIST PROT ABC PHASE ZONE-I, O/C AT NARELA.
66	26.06.20	14:40	220KV MANDOLA – GOPALPUR CKT-I & II	26.06.20	15:02	BOTH CKT. TRIPPED WITHOUT INDICATION AT GOPALPUR.
67	29.06.20	16:08	220/33KV 100MVA PR. TR.-IV AT PATPARGANJ	29.06.20	18:49	CKT. TRIPPED ON E/F, DIFFERENTIAL, R&B PHASE, 86A&B. 33KV SIDE B PHASE LINE ISOLATOR AND INSULATOR DAMAGED.

SL N O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
68	29.06.20	18:04	220KV MEHRAULI – VASANT KUNJ CKT-I	29.06.20	19:49	CKT. TRIPPED ON DIST PROT RY PHASE ZONE-I AT MEHRAULI AND ON DIST PROT R PHASE ZONE-I, 86ABC AT VASANT KUNJ
69	29.06.20	17:51	220KV BTPS – ALWAR CKT	29.06.20	19:14	AUTO RECLOSE OPERATED AT BTPS. CKT. TRIPPED AT ALWAR END.
70	30.06.20	06:22	220KV WAZIRABAD – KASHMIRI GATE CKT-I	30.06.20	08:14	THE FOLLOWING TRIPPINGS OCCURRED AT WAZIRABAD : CKT-I : DIST PROT B PHASE ZONE-I, SNTP CKT-II : DIST PROT B PHASE ZONE-I, SNTP FAILURE AT KASHMIRI GATE: CKT-I : NO TRIPPING CKT-II : DIST PROT B PHASE DIFFERENTIAL RY PHASE, 186A&B CKT-I & II CHARGED AT 06.38HRS AND 08.14HRS.

18 DETAILS OF UNDER FREQUENCY RELAY OPERATIONS IN DELHI POWER SYSTEM DURING THE MONTH OF JUNE 2020

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