DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

****

MAY - 2020

1 SALIENT FEATURES OF DELHI POWER SYSTEM

Sr. No.	Features	MAY 2019	MAY 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 Energ Plant)	16	16
	EDWPCL (Waste to Energ Plant)	10	10
	DMSWL (Waste to Energ Plant)	24	24
	Total	2156	2156
2	**Maximum Unrestricted Demand (MW)**	**6461**	**5492**
	Date	31.05.19	27.05.20
	Time	15:50:19	**15:30:00**
3	**Peak Demand met (MW)**	**6461**	**5464**
	Date	31.05.19	26.05.20
	Time	15:50:19	**23:20:20**
4	Peak Availability (MW)	6400	5886
5	Shortage (-) / Surplus (+) in MW	(-)61	422
6	Percentage Shortage (-) / Surplus (+)	(-)0.94	7.72
7	Maximum Energy Consume in a day (Mus)		
8	Energy Consumed during the month	**3366.099**	**2522.628**
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	0.000	
	TPDDL	0.037	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	**0.037**	**0.000**
B)	Due to Constraints in System in Mus		
	DTL	0.336	0.801
	TPDDL	0.098	0.043
	BRPL	0.712	0.363
	BYPL	0.047	0.025
	NDMC	0.000	0.000
	MES	0.000	0.000
	Other Agencies	0.000	0.001
	Total	**1.193**	**1.233**
11	**Grand Total in Mus**	**1.230**	**1.233**

2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING MAY 2020

A) For the month of May 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	0.000	0.000	0.000	0.000
2.	**GT**	40.577	1.901	38.676	85.32	128.3180
3.	**PPCL**	112.137	2.604	109.533	89.73	104.211
4.	**Bawana**	329.904	9.914	319.990	96.10	562.8333
5.	**Towmcl**	14.496	2.117	12.379	--	--
6.	**EDWPCL**	2.164	0.830	1.334	--	--
7.	**DMSWL**	13.961	2.182	11.779	--	--
	TOTAL	**513.239**	**19.548**	**493.691**	**--**	**795.3623**

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

Power Station	Effective Capacity (MW)	Net Generation in MUs for May 2020	Availability (%) for May 2020	PLF (%) for May 2020	Cumulative Generation in MUs upto May 2020 for the year 2020-21	Cumulative Availability in % upto May 2020 for the year 2020-21
RPH	135	0.000	0.000	0.000	0.000	0.000
GT	270	38.676	85.32	19.69	65.494	85.97
PPCL	330	109.533	89.73	47.33	220.709	93.57
Bawana	1372	319.990	96.10	32.39	517.520	98.38
Towmcl	16	12.379	--	--	24.634	--
EDWPCL	10	1.334	--	--	1.876	--
DMSWL	24	11.779	--	--	22.229	--
TOTAL	2936	**493.691**	**--**	**--**	**852.462**	**--**

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.

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
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	31-5-20	0:00	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
3	30	1-4-20	0:00	31-5-20	0:00	Low Demand
4	30	1-4-20	0:00	31-5-20	0:00	Low Demand
5	30	1-4-20	0:00	22-5-20	16:57	Low Demand
		22-5-20	19:58	31-5-20	24:00	Low Demand
6	30	1-4-20	0:00	24-5-20	19:00	Low Demand
		29-5-20	1:30	31-5-20	0:00	Low demand

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
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
ST G-2	30	1-4-20	0:00	31-5-20	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	2:49	Unit out due to high turbine Vibration
		29-5-20	1:30	31-5-20	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
2	104	17.04.19	18.47	18.04.19	12.45	Tripped on internal fault.
STG	122	NIL				

(D) BAWANA CCGT POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	NIL					
2	216	NIL				
3	216	NIL				
4	216	NIL				
STG -1	254	NIL				
STG -2	254	NIL				

4 ALLOCATION OF POWER TO DISCOMS

A) ALLOCTION 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	NDMC	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										
NTPC STATIONS										
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		
Kahalgaon-I(From ER)	840	6.07	50.99	22	13	16	0	0		
Kahalgaon-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**
NHPC (HYDRO)										
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		
Dhauli 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	NDMC	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				
NPC (NUCLEAR)										
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**
Allocation from ER										
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**
Allocation from Long term Bilateral										
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) ALLOCTION 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	TPDDL	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										
NTPC STATIONS										
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**
NHPC (HYDRO)										
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		
Dhauli 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		
NPC (NUCLEAR)										
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 MAY 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	EDWPCL	DMSWL	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	23:27:07	37	144	320	18	-1	17	535	2987	3096	-109	3522	0	3522
2	23:32:28	37	143	271	19	-1	18	487	3014	3085	-71	3501	0	3501
3	00:00:52	38	143	293	17	-1	17	507	2950	2991	-41	3457	0	3457
4	23:16:51	37	145	271	19	-1	19	490	2690	2754	-64	3180	0	3180
5	23:21:06	37	144	319	18	-1	16	533	2887	2958	-71	3420	0	3420
6	00:00:00	37	146	320	19	-1	16	537	2850	2944	-94	3387	0	3387
7	23:16:15	77	143	272	18	-1	17	526	2925	2915	10	3451	0	3451
8	23:17:16	76	144	314	19	-1	18	570	3212	3176	36	3782	0	3782
9	23:29:12	76	143	626	18	3	16	882	3196	3254	-58	4078	0	4078
10	00:01:09	76	143	527	18	3	14	781	3263	3369	-106	4044	0	4044
11	23:20:06	38	146	588	15	2	6	795	2863	2959	-96	3658	0	3658
12	23:58:01	38	144	637	13	2	4	838	2960	2951	9	3798	0	3798
13	00:00:02	38	144	633	16	2	5	838	2864	2973	-109	3702	0	3702
14	00:00:29	38	146	487	18	3	6	698	2958	2951	7	3656	0	3656
15	23:19:38	38	136	545	16	8	7	750	2948	3039	-91	3698	0	3698
16	23:35:48	38	144	570	14	1	7	774	3101	3139	-38	3875	0	3875
17	23:20:41	38	144	586	18	4	10	800	3200	3235	-35	4000	0	4000
18	23:24:56	38	145	483	17	4	16	703	3426	3441	-15	4129	0.4	4129
19	23:24:13	38	143	592	13	0	17	803	3392	3507	-115	4195	0	4195
20	23:41:11	38	148	578	15	3	18	800	3476	3610	-134	4276	0	4276
21	23:26:57	38	147	536	13	6	15	755	3763	3801	-38	4518	0	4518
22	23:28:33	76	148	616	12	7	14	873	4050	4168	-118	4923	0	4923
23	23:20:46	75	145	605	18	0	19	862	4193	4335	-142	5055	0	5055
24	23:10:53	104	144	610	16	3	16	893	4375	4473	-98	5268	0	5268
25	23:36:24	109	139	564	17	3	18	850	4534	4637	-103	5384	0	5384
26	23:20:24	109	266	587	17	-1	19	997	4467	4889	-422	5464	0	5464
27	23:32:37	109	140	592	16	3	19	879	4546	4744	-198	5425	23	5448
28	00:01:37	110	140	572	18	4	19	863	4544	4552	-8	5407	0	5407
29	15:46:27	37	140	473	16	4	19	689	3713	3694	19	4402	0	4402
30	23:32:07	38	147	253	13	2	17	470	3675	3704	-29	4145	0	4145
31	00:00:11	38	147	253	13	0	17	468	3630	3608	22	4098	0	4098

6 POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF MAXIMUM UNRESTRICTED DEMAND DURING MAY 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	EDWPCL	DMSWL	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	23:27:07	37	144	320	18	-1	17	535	2987	3096	-109	3522	0	3522
2	23:32:28	37	143	271	19	-1	18	487	3014	3085	-71	3501	0	3501
3	00:00:52	38	143	293	17	-1	17	507	2950	2991	-41	3457	0	3457
4	23:16:51	37	145	271	19	-1	19	490	2690	2754	-64	3180	0	3180
5	23:21:06	37	144	319	18	-1	16	533	2887	2958	-71	3420	0	3420
6	00:00:00	37	146	320	19	-1	16	537	2850	2944	-94	3387	0	3387
7	23:16:15	77	143	272	18	-1	17	526	2925	2915	10	3451	0	3451
8	23:17:16	76	144	314	19	-1	18	570	3212	3176	36	3782	0	3782
9	23:29:12	76	143	626	18	3	16	882	3196	3254	-58	4078	0	4078
10	00:01:09	76	143	527	18	3	14	781	3263	3369	-106	4044	0	4044
11	23:20:06	38	146	588	15	2	6	795	2863	2959	-96	3658	0	3658
12	23:58:01	38	144	637	13	2	4	838	2960	2951	9	3798	0	3798
13	00:00:02	38	144	633	16	2	5	838	2864	2973	-109	3702	0	3702
14	00:00:29	38	146	487	18	3	6	698	2958	2951	7	3656	0	3656
15	23:19:38	38	136	545	16	8	7	750	2948	3039	-91	3698	0	3698
16	23:35:48	38	144	570	14	1	7	774	3101	3139	-38	3875	0	3875
17	23:20:41	38	144	586	18	4	10	800	3200	3235	-35	4000	0	4000
18	23:24:56	38	145	483	17	4	16	703	3426	3441	-15	4129	0.4	4129
19	23:24:13	38	143	592	13	0	17	803	3392	3507	-115	4195	0	4195
20	23:41:11	38	148	578	15	3	18	800	3476	3610	-134	4276	0	4276
21	23:26:57	38	147	536	13	6	15	755	3763	3801	-38	4518	0	4518
22	23:28:33	76	148	616	12	7	14	873	4050	4168	-118	4923	0	4923
23	23:20:46	75	145	605	18	0	19	862	4193	4335	-142	5055	0	5055
24	23:10:53	104	144	610	16	3	16	893	4375	4473	-98	5268	0	5268
25	23:36:24	109	139	564	17	3	18	850	4534	4637	-103	5384	0	5384
26	23:20:24	109	266	587	17	-1	19	997	4467	4889	-422	5464	0	5464
27	15:30:00	107	132	580	15	3	17	854	4485	4578	-93	5339	153	5492
28	00:01:37	110	140	572	18	4	19	863	4544	4552	-8	5407	0	5407
29	15:46:27	37	140	473	16	4	19	689	3713	3694	19	4402	0	4402
30	23:32:07	38	147	253	13	2	17	470	3675	3704	-29	4145	0	4145
31	00:00:11	38	147	253	13	0	17	468	3630	3608	22	4098	0	4098

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

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

A (i) RPH	0.000
(ii) GT+STG	40.577
(iii) PRAGATI	112.137
(iv) RITHALA	0.000
(v) BAWANA CCGT	329.904
(vi) Timarpur – Okhla	14.496
EDWPCL	2.164
DMSWL	13.961
TOTAL	513.239
B) AVAILABILITY FROM BTPS	-0.420
C) AUXILIARY CONSUMPTION OF GENERATING STNs. EXCLUDING BTPS	19.672
D) NET GENERATION AVAILABLE WITHIN DELHI(A+B-C)	**493.147**

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	7.938	7.736	7.938	7.736
SALAL	52.447	51.381	52.447	51.381
SASAN	300.235	291.542	293.968	285.441
TANKAPUR	4.946	4.832	4.919	4.805
CHAMERA	24.857	24.288	24.857	24.288
CHAMERA -II	9.734	9.535	9.734	9.535
CHAMERA -III	18.126	17.715	18.126	17.715
DHAULIGANGA	16.697	16.320	16.697	16.320
SEWA -2	11.861	11.619	11.861	11.619
URI	39.033	38.331	39.033	38.331
URI-II	23.740	23.254	23.740	23.254
KOLDAM	0.000	0.000	0.000	0.000
KOTESHWAR	10.705	10.441	10.705	10.441
PARBATI3	6.534	6.387	6.534	6.387
ANTA (CRF)	0.000	0.000	0.000	0.000
ANTA (GAS)	0.000	0.000	0.000	0.000
ANTA (RLNG)	29.149	28.270	0.000	0.000
ANTA (LIQUID)	0.000	0.000	0.000	0.000
DADRI (CRF)	6.450	6.333	0.700	0.691
DADRI (GAS)	20.438	20.067	17.223	16.913
DADRI (RLNG)	37.118	36.448	1.470	1.444
DADRI (LIQUID)	0.000	0.000	0.000	0.000
AURAIYA (CRF)	6.078	5.904	0.608	0.594
AURAIYA (GAS)	16.865	16.395	11.979	11.646
AURAIYA (RLNG)	28.135	27.352	0.173	0.168
AURAIYA (LIQUID)	0.000	0.000	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	87.658	84.765	76.458	73.934
SINGRAULI_HYDRO	0.494	0.478	0.494	0.478
RIHAND -I	60.753	58.777	52.320	50.619
RIHAND -II	86.163	83.333	79.177	76.571
RIHAND -III	91.004	88.374	84.374	81.928
UNCHAHAR-I	16.009	15.562	1.706	1.667
UNCHAHAR-II	31.768	30.881	3.739	3.654
UNCHAHAR-III	19.635	19.087	12.316	11.972
UNCHAHAR-IV	0.000	0.000	0.000	0.000
DADRI (TH)	514.388	505.115	20.533	20.267
DADRI (TH) STAGE-II	510.155	500.959	179.019	175.807
BRBCL (NABIPUR-BIHAR)	3.520	3.459	2.106	2.069
TALCHER FOR AUX. OF BTPS	1.333	1.306	0.754	0.739
NAPP	28.608	27.812	28.601	27.805
RAPP 'B'	0.000	0.000	0.000	0.000
RAPP 'C'	38.210	36.760	38.210	36.760
NATHPA JHAKRI	68.183	66.486	68.183	66.486
DULASTI	36.621	35.871	36.621	35.871
TEHRI	15.175	14.799	15.175	14.799
JHAJJAR	485.945	477.186	0.000	0.000
KHELGAON	31.740	31.184	22.755	22.357
KHELGAON-II	86.819	85.326	68.796	67.611
FARAKA	13.029	12.770	6.940	6.802
TALA	11.206	10.993	11.205	10.992
DVC	203.011	201.818	201.818	200.530
TUTICORIN - BRPL	9.385	9.295	9.295	9.237
MADHYA PRADESH	1.477	1.463	1.463	1.455
GUJRAT	1.027	1.020	1.020	1.013
KARNATAKA	94.181	92.582	92.582	91.975
NAGALAND	1.862	1.851	1.851	1.839
CHATTISHGARH	0.632	0.622	0.622	0.618
SINGRAULI	0.071	0.070	0.070	0.069
RIHAND	0.030	0.030	0.030	0.030
RPREL (ADANI) CHATTISHGARH	0.030	0.030	0.030	0.030
KWHEP (HP)	0.010	0.010	0.010	0.010
DGEN (GUJRAT)	0.020	0.020	0.020	0.020
ASSAM	0.161	0.159	0.159	0.158
BIHAR	0.045	0.045	0.045	0.045
MAHARASHTRA	0.172	0.169	0.169	0.168
PUNJAB	0.140	0.139	0.139	0.139
TESTA -III (SIKKIM)	0.251	0.249	0.249	0.248
WEST BENGAL	0.300	0.298	0.298	0.297
TAMILNAIDU	51.271	50.744	50.744	50.510
SEIL PROJECT(ANDHRA PRADESH)	3.322	3.280	3.280	3.263
MEGHALAYA	8.014	7.916	7.916	7.878
ANDHRA	0.320	0.316	0.316	0.314
ESSAR_MAHAN (MP)	0.010	0.010	0.010	0.010

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
METHON POWER(NDPL)LT-06	154.253	153.346	153.346	152.366
DVC MEJIA (LT-08)(BYPL)	18.403	18.305	18.305	18.225
Acme_RUMS	0.791	0.784	0.784	0.779
Arinsun_RUMS	0.806	0.798	0.798	0.793
Mahindra_RUMS	0.728	0.721	0.721	0.716
URS	0.835	0.829	0.835	0.829
JAMMU & KASHMIR	14.272	14.146	14.146	14.057
HIMACHAL PRADESH	163.855	161.589	161.589	160.567
HIMACHAL PRADESH LT-59 DVC	4.637	4.572	4.572	4.543
HARYANA (LT-05)	6.668	6.641	6.641	6.614
MP(SOLAR RUMS)	18.573	18.387	18.387	18.268
HP TPDDL (NANTI)	4.647	4.583	4.583	4.554
ADHPL (HP)	17.761	17.513	17.513	17.400
ODHISHA	0.211	0.209	0.209	0.208
ORISSA MT-20 JITPL -DVC	2.867	2.836	2.836	2.818
D.B. POWER (CHATTISHGARH)	0.111	0.109	0.109	0.109
MIZORAM	2.474	2.416	2.416	2.400
RAJASTHAN(SOLAR) BRPL-LT36	3.669	3.599	3.599	3.575
RAJASTHAN(SOLAR) BYPL - LT-35	3.541	3.474	3.474	3.451
RAJASTHAN(SOLAR) TPDDL LT-31	3.482	3.415	3.415	3.393
HP TARANDA (RAILWAYS)	6.560	6.468	6.468	6.426
TO ANDHRA	-0.023	-0.023	-0.023	-0.023
TO WEST BENGAL	-0.094	-0.095	-0.095	-0.096
POWER EXCHANGE(IEX)	72.873	72.463	72.873	72.463
TO POWER EXCHANGE (IEX)	-92.310	-93.451	-92.310	-93.451
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)	-20.605	-20.846	-20.605	-20.846
TO SHARE PROJECT (PUNJAB)	-14.606	-14.766	-14.606	-14.766
REAL TIME MANAGEMENT (RTM)	0.004	0.004	0.004	0.004
TO REAL TIME MANAGEMENT (RTM)	-0.004	-0.004	-0.004	-0.004
TOTAL	**3659.627**	**3585.587**	**2104.309**	**2063.123**
AGENCY WISE BREAKUP OF ENERGY SCHEDULED DRAWAL FROM THE GRID				
NTPC - NR	1565.779	1531.558	544.395	530.424
NTPC - ER	131.589	129.281	98.491	96.770
NHPC	252.535	247.269	252.508	247.242
NPC	66.818	64.571	66.811	64.564
SASAN	300.235	291.542	293.968	285.441
KOTESHWAR	10.705	10.441	10.705	10.441
NATHPA JHAKRI	68.183	66.486	68.183	66.486
TALCHER FOR AUX. OF BTPS	1.333	1.306	0.754	0.739
TEHRI	15.175	14.799	15.175	14.799
TALA	11.206	10.993	11.205	10.992
JHAJJAR	485.945	477.186	0.000	0.000
RAJASTHAN SOLAR(BRPL)T-36	3.669	3.599	3.599	3.575
RAJASTHAN SOLAR(BYPL)T-35	3.541	3.474	3.474	3.451
RAJASTHAN SOLAR(TPDDL)T-31	3.482	3.415	3.415	3.393
DVC	203.011	201.818	201.818	200.530

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
TUTICORIN BRPL	9.385	9.295	9.295	9.237
MADHYA PRADESH	1.477	1.463	1.463	1.455
GUJRAT	1.027	1.020	1.020	1.013
KARNATAKA	94.181	92.582	92.582	91.975
NAGALAND	1.862	1.851	1.851	1.839
CHATTISHGARH	0.632	0.622	0.622	0.618
SINGRAULI	0.071	0.070	0.070	0.069
RIHAND	0.030	0.030	0.030	0.030
RPREL (ADANI)	0.030	0.030	0.030	0.030
KWHEP (HP)	0.010	0.010	0.010	0.010
DGEN (GUJRAT)	0.020	0.020	0.020	0.020
ASSAM	0.161	0.159	0.159	0.158
BIHAR	0.045	0.045	0.045	0.045
MAHARASHTRA	0.172	0.169	0.169	0.168
PUNJAB	0.140	0.139	0.139	0.139
TESTA -III (SIKKIM)	0.251	0.249	0.249	0.248
WEST BENGAL	0.300	0.298	0.298	0.297
TAMILNAIDU	51.271	50.744	50.744	50.510
SEIL PROJECT(ANDHRA PRADESH)	3.322	3.280	3.280	3.263
MEGHALAYA	8.014	7.916	7.916	7.878
ANDHRA	0.320	0.316	0.316	0.314
ESSAR_MAHAN (MP)	0.010	0.010	0.010	0.010
METHON POWER (NDPL)-LT-06	154.253	153.346	153.346	152.366
DVC MEJIA (LT-08)(BYPL)	18.403	18.305	18.305	18.225
Acme_RUMS	0.791	0.784	0.784	0.779
Arinsun_RUMS	0.806	0.798	0.798	0.793
Mahindra_RUMS	0.728	0.721	0.721	0.716
URS	0.835	0.829	0.835	0.829
JAMMU & KASHMIR	14.272	14.146	14.146	14.057
HIMACHAL PRADESH	163.855	161.589	161.589	160.567
HP LT-59 DVC(SURYA KANTA)	4.637	4.572	4.572	4.543
HARYANA (LT -05)	6.668	6.641	6.641	6.614
ADHPL (HP)	17.761	17.513	17.513	17.400
ODISHA	0.211	0.209	0.209	0.208
ORISSA MT-20 JITPL -DVC	2.867	2.836	2.836	2.818
D.B. POWER (CHATTISHGARH)	0.111	0.109	0.109	0.109
MIZORAM	2.474	2.416	2.416	2.400
MP(SOLAR RUMS)	18.573	18.387	18.387	18.268
HP TPDDL (NANTI)	4.647	4.583	4.583	4.554
HP TRANDA (RAILWAYS)	6.560	6.468	6.468	6.426
POWER EXCHANGE(IEX)	72.873	72.463	72.873	72.463
POWER EXCHANGE(PX)	0.000	0.000	0.000	0.000
REAL TIME MANAGEMENT (RTM)	0.004	0.004	0.004	0.004
TOTAL	**3787.268**	**3714.772**	**2231.951**	**2192.309**

b) 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 DELHI PERIPHERY	ALLOCATION MADE BY NRLDC AT POWER PLANT	ALLOCATION MADE BY NRLDC AT DELHI PERIPHERY
TO ANDHRA	-0.023	-0.023	-0.023	-0.023
TO WEST BENGAL	-0.094	-0.095	-0.095	-0.096
TO POWER EXCHANGE (IEX)	-92.310	-93.451	-92.310	-93.451
TO POWER EXCHANGE (PX)	0.000	0.000	0.000	0.000
TO SHARE PROJECT (HARYANA)	-20.605	-20.846	-20.605	-20.846
TO SHARE PROJECT (PUNJAB)	-14.606	-14.766	-14.606	-14.766
TO REAL TIME MANAGEMENT (RTM)	-0.004	-0.004	-0.004	-0.004
TOTAL	**-127.641**	**-129.185**	**-127.642**	**-129.186**
TOTAL SCHEDULED DRAWAL'FROM THE GRID	**3659.627**	**3585.587**	**2104.309**	**2063.123**
TOTAL CONSUMPTION INCLUDING AUX. OF GENERATING STNs				2542.300
NET CONSUMPTION				**2522.628**
AVAILABILITY WITHIN DELHI				493.147
ACTUAL DRAWAL FROM THE GRID				2029.481
OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID ON THE BASIS OF SCHEDULED ALLOCATION MADE BY NRLDC TO DELHI AT PERIPHERY				-33.642
LOAD SHEDDING				**1.233**
UNRESTRICTED DEMAND (GROSS)				2543.533
UNRESTRICTED DEMAND (NET)				2523.861
MAX. NET CONSUMPTION				111.822 27.05.2020
MAX. LOAD SHEDDING				334 MW ON 22.05.2020 AT 12.51 HRS.
PEAK LOAD	Peak Demand during the month			SHEDDING AT PEAK TIME
DAY PEAK	5407MW AT 00:01:37 HRS ON 28.05.2020			NIL
EVENING PEAK	5464MW AT 23:20:24 HRS ON 26.05.2020			NIL

8 SHEDDING DETAILS DURING THE MONTH OF MAY 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
01-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
02-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
03-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
04-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
05-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
06-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
07-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
09-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31-05-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**

ALL FIGURES IN MUs

Date	Shedding due to Transmission/Grid Constraints in Central Sector Stations / TTC / ATC VOILATION				DUE TO NEW GRID CODE REGULATION DEVIATOIN			Shedding due to Transmission/Grid Constraints in Central sector stations				Total	Total shedding due to grid restrictions
	BSES		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
01-05-20	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
02-05-20	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
03-05-20	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
04-05-20	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
05-05-20	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
06-05-20	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
07-05-20	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
08-05-20	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
09-05-20	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
10-05-20	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
11-05-20	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
12-05-20	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
13-05-20	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
14-05-20	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
15-05-20	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
16-05-20	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
17-05-20	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
18-05-20	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
19-05-20	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
20-05-20	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
21-05-20	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
22-05-20	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
23-05-20	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
24-05-20	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
25-05-20	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
26-05-20	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
27-05-20	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
28-05-20	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
29-05-20	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
30-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**

ALL FIGURES IN MUs

Date	DUE TO T&D CONSTRAINTS IN DELHI SYSTEM								
	DTL					DISCOMS			
	BSES		TPDDL	NDMC	MES	BSES		TPDDL	NDMC
	BYPL	BRPL				BYPL	BRPL		
1	26	27	28	29	30	31	32	33	34
01-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
02-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
03-05-20	0.017	0.000	0.000	0.000	0.000	0.000	0.023	0.003	0.000
04-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
05-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
06-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
07-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
08-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
09-05-20	0.000	0.065	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-05-20	0.010	0.000	**0.0004**	0.000	0.000	0.000	0.023	0.005	0.000
11-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.000
12-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14-05-20	**0.0003**	0.000	0.024	0.000	0.000	0.000	0.050	0.009	0.000
15-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16-05-20	0.000	0.011	0.001	0.000	0.000	0.000	0.012	0.000	0.000
17-05-20	0.000	0.000	0.003	0.000	0.000	0.000	0.002	**0.0010**	0.000
18-05-20	0.001	0.006	0.010	0.000	0.000	0.000	0.006	0.000	0.000
19-05-20	0.000	0.021	0.017	0.000	0.000	0.000	0.000	0.000	0.000
20-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000
21-05-20	0.000	0.066	0.000	0.000	0.000	0.010	0.007	0.006	0.000
22-05-20	0.090	0.024	0.001	0.017	0.000	0.000	0.058	0.005	0.000
23-05-20	0.000	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24-05-20	0.000	0.015	0.024	0.000	0.000	0.009	0.006	0.002	0.000
25-05-20	0.000	0.017	0.011	0.000	0.000	0.004	0.005	**0.0001**	0.000
26-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.000	0.000
27-05-20	0.000	0.291	0.001	0.000	0.000	0.000	0.106	0.001	0.000
28-05-20	0.001	0.000	0.013	0.000	0.000	0.002	0.006	**0.0001**	0.000
29-05-20	0.000	0.000	0.004	0.000	0.000	0.000	0.007	0.002	0.000
30-05-20	0.000	0.016	0.000	0.000	0.000	0.000	0.003	0.004	0.000
31-05-20	0.000	0.000	0.002	0.000	0.000	0.000	0.023	**0.0002**	0.000
TOTAL	**0.119**	**0.553**	**0.111**	**0.017**	**0.000**	**0.025**	**0.363**	**0.043**	**0.000**

ALL FIGURES IN MUs

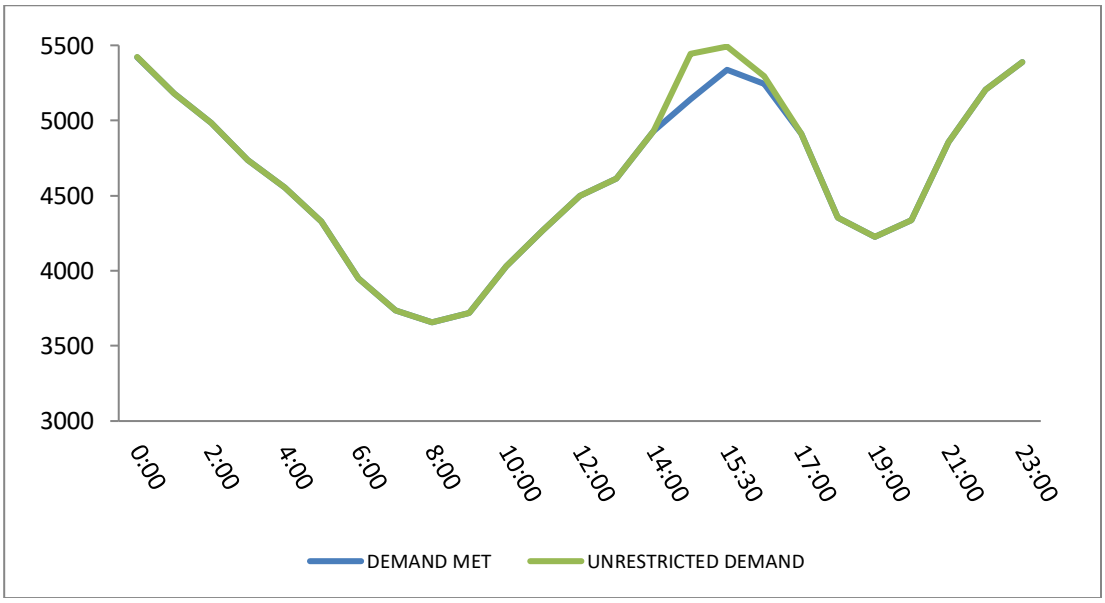
DATE	OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.				THEFT PRONE SHEDDING			TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE	GRAND TOTAL
	BSES		TPDDL	NDMC	BSES		TPDDL		
	BYPL	BRPL			BYPL	BRPL			
1	35	36	37	38	39	40	41	**42= 26 to 41**	**43 = 25 + 42**
01-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.000**
02-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.000**
03-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.043**	**0.043**
04-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.000**
05-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.001**	**0.001**
06-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.001**	**0.001**
07-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.001**	**0.001**
08-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.001**	**0.001**
09-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.065**	**0.065**
10-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.038**	**0.038**
11-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.004**	**0.004**
12-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.000**
13-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.000**
14-05-20	0.000	0.000	**0.0002**	0.000	0.000	0.000	0.000	**0.084**	**0.084**
15-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**	**0.000**
16-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.024**	**0.024**
17-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.006**	**0.006**
18-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.023**	**0.023**
19-05-20	0.000	0.000	0.001	0.000	0.000	0.000	0.000	**0.039**	**0.039**
20-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.003**	**0.003**
21-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.089**	**0.089**
22-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.195**	**0.195**
23-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.021**	**0.021**
24-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.056**	**0.056**
25-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.037**	**0.037**
26-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.020**	**0.020**
27-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.399**	**0.399**
28-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.022**	**0.022**
29-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.013**	**0.013**
30-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.023**	**0.023**
31-05-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**0.025**	**0.025**
TOTAL	**0.000**	**0.000**	**0.001**	**0.000**	**0.000**	**0.000**	**0.000**	**1.233**	**1.233**

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
01-05-20	71.819	3522	23:27:07	0	3522	3522	08:35:27	3522	0
02-05-20	69.676	3501	23:32:28	0	3501	3501	07:59:51	3501	0
03-05-20	66.416	3457	00:00:52	0	3457	3457	08:45:02	3457	0
04-05-20	63.435	3180	23:16:51	0	3180	3180	08:42:25	3180	0
05-05-20	67.417	3420	23:21:06	0	3420	3420	10:48:33	3420	0
06-05-20	70.319	3387	00:00	0	3387	3387	19:49:26	3387	0
07-05-20	66.157	3451	23:16:15	0	3451	3451	10:16:53	3451	0
08-05-20	73.711	3782	23:17:16	0	3782	3782	08:27:37	3782	0
09-05-20	76.797	4078	23:29:12	0	4078	4078	19:34:19	4078	0
10-05-20	70.671	4044	00:01:09	0	4044	4044	21:00:49	4044	0
11-05-20	68.873	3658	23:20:06	0	3658	3658	21:25:17	3658	0
12-05-20	73.166	3798	23:58:01	0	3798	3798	21:25:21	3798	0
13-05-20	75.951	3702	00:00:02	0	3702	3702	22:42:22	3702	0
14-05-20	74.348	3656	00:00:29	0	3656	3656	23:01:19	3656	0
15-05-20	73.596	3698	23:19:38	0	3698	3698	22:58:18	3698	0
16-05-20	74.489	3875	23:35:48	0	3875	3875	23:01:06	3875	0
17-05-20	76.353	4000	23:20:41	0	4000	4000	23:18:45	4000	0
18-05-20	80.981	4129	23:24:56	0.4	4129	4129	00:00:10	4129	0.4
19-05-20	83.043	4195	23:24:13	0	4195	4195	23:01:06	4195	0
20-05-20	84.765	4276	23:41:11	0	4276	4276	00:20:38	4276	0
21-05-20	86.608	4518	23:26:57	0	4518	4518	23:16:27	4518	0
22-05-20	92.415	4923	23:28:33	0	4923	4923	22:54:26	4923	0
23-05-20	97.660	5055	23:20:46	0	5055	5055	23:19:55	5055	0
24-05-20	102.726	5268	23:10:53	0	5268	5268	23:24:52	5268	0
25-05-20	103.237	5384	23:36:24	0	5384	5384	23:24	5384	0
26-05-20	110.271	5464	23:20:24	0	5464	5464	00:00	5464	0
27-05-20	111.822	5425	23:32:37	23	5448	5492	15:30	5339	153
28-05-20	108.754	5407	00:01:37	0	5407	5407	23:08:51	5407	0
29-05-20	90.801	4402	15:46:27	0	4402	4402	23:00	4402	0
30-05-20	83.260	4145	23:32:07	0	4145	4145	23:16:26	4145	0
31-05-20	73.091	4098	00:00:11	0	4098	4098	23:16:26	4098	0
TOTAL	2522.628	5464 **26.05.20**	23:20:24	0	5448 **26.05.20**	5492 27.05.20	15:30	5339	153

9. LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING MAY 2020 ON 26.05.2020 - 5464 MW AT 23:20:24HRS.

All figures in MW

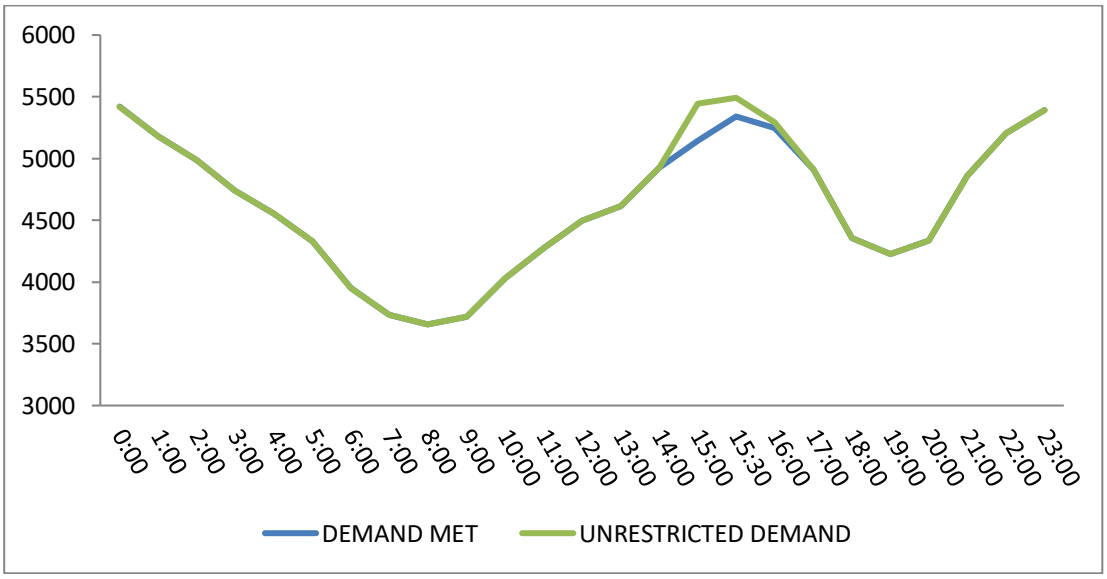
Hrs.	Demand	Load Shedding	Un-Restricted Demand
0:00	5345	0	5345
1:00	5158	0	5158
2:00	4897	0	4897
3:00	4673	0	4673
4:00	4450	0	4450
5:00	4234	0	4234
6:00	3890	0	3890
7:00	3650	0	3650
8:00	3548	0	3548
9:00	3574	0	3574
10:00	3873	0	3873
11:00	4064	0	4064
12:00	4322	0	4322
13:00	4558	0	4558
14:00	4787	0	4787
15:00	5071	0	5071
16:00	5099	0	5099
17:00	4644	20	4664
18:00	4117	0	4117
19:00	3815	0	3815
20:00	4167	0	4167
21:00	4644	0	4644
22:00	5187	0	5187
23:00	5422	0	5422
23:20:24	**5464**	0	5464
Total (IN MUS)	**110.271**	**0.020**	**110.291**



10 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING MAY 2020 ON 27.05.2020 - 5492 MW AT 15:30 HRS.

All figures in MW

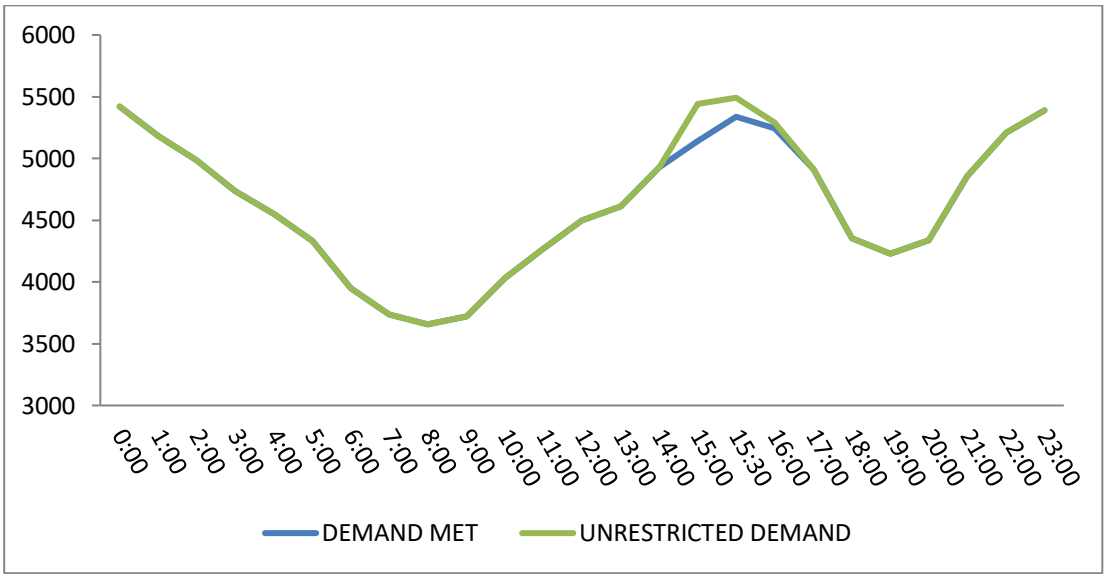
Hrs.	Demand	Load Shedding	Un-Restricted Demand
0:00	5421	0	5421
1:00	5182	0	5182
2:00	4986	0	4986
3:00	4737	0	4737
4:00	4552	0	4552
5:00	4330	0	4330
6:00	3951	0	3951
7:00	3736	0	3736
8:00	3657	0	3657
9:00	3719	0	3719
10:00	4031	0	4031
11:00	4270	0	4270
12:00	4498	0	4498
13:00	4614	0	4614
14:00	4927	0	4927
15:00	5142	301	5443
15:30	5339	153	**5492**
16:00	5245	48	5293
17:00	4912	0	4912
18:00	4355	0	4355
19:00	4228	0	4228
20:00	4335	0	4335
21:00	4858	0	4858
22:00	5206	0	5206
23:00	5390	0	5390
Total (IN MUS)	**111.822**	**0.399**	**112.221**



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING MAY 2020 – 27.05.2020 – 111.822 Mus

All figures in MW

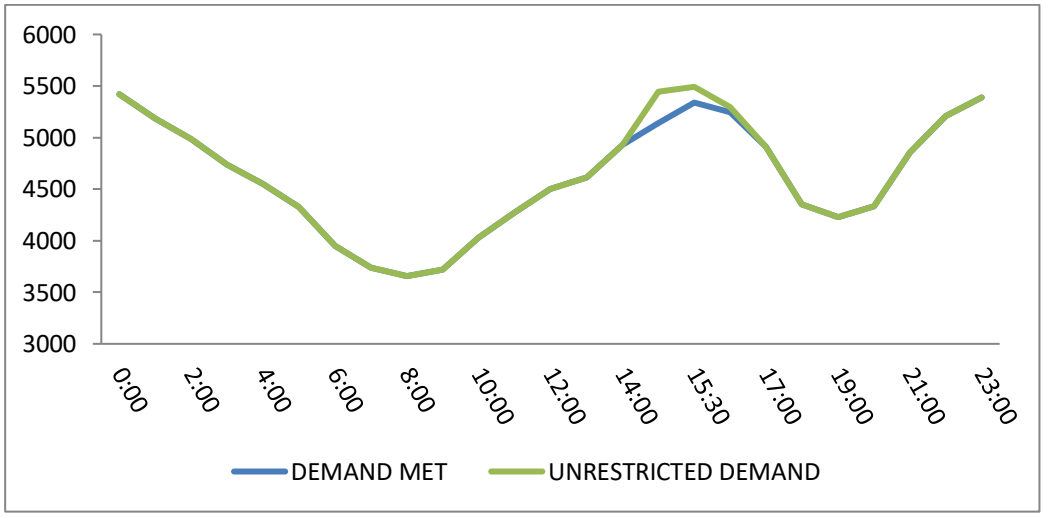
Hrs.	Demand	Load Shedding	Un-Restricted Demand
0:00	5421	0	5421
1:00	5182	0	5182
2:00	4986	0	4986
3:00	4737	0	4737
4:00	4552	0	4552
5:00	4330	0	4330
6:00	3951	0	3951
7:00	3736	0	3736
8:00	3657	0	3657
9:00	3719	0	3719
10:00	4031	0	4031
11:00	4270	0	4270
12:00	4498	0	4498
13:00	4614	0	4614
14:00	4927	0	4927
15:00	5142	301	5443
16:00	5245	48	5293
17:00	4912	0	4912
18:00	4355	0	4355
19:00	4228	0	4228
20:00	4335	0	4335
21:00	4858	0	4858
22:00	5206	0	5206
23:00	5390	0	5390
Total (IN MUS)	**111.822**	0.399	112.221



12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING MAY 2020 – 27.05.2020 – 112.221 MUs

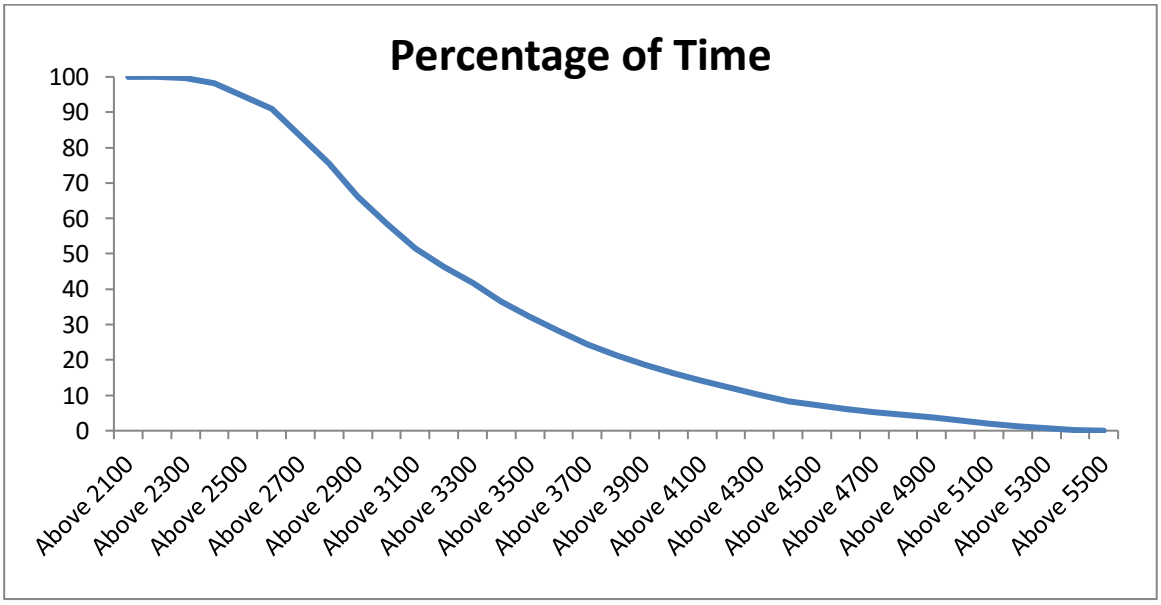
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
0:00	5421	0	5421
1:00	5182	0	5182
2:00	4986	0	4986
3:00	4737	0	4737
4:00	4552	0	4552
5:00	4330	0	4330
6:00	3951	0	3951
7:00	3736	0	3736
8:00	3657	0	3657
9:00	3719	0	3719
10:00	4031	0	4031
11:00	4270	0	4270
12:00	4498	0	4498
13:00	4614	0	4614
14:00	4927	0	4927
15:00	5142	301	5443
16:00	5245	48	5293
17:00	4912	0	4912
18:00	4355	0	4355
19:00	4228	0	4228
20:00	4335	0	4335
21:00	4858	0	4858
22:00	5206	0	5206
23:00	5390	0	5390
Total (IN MUS)	**111.822**	0.399	112.221



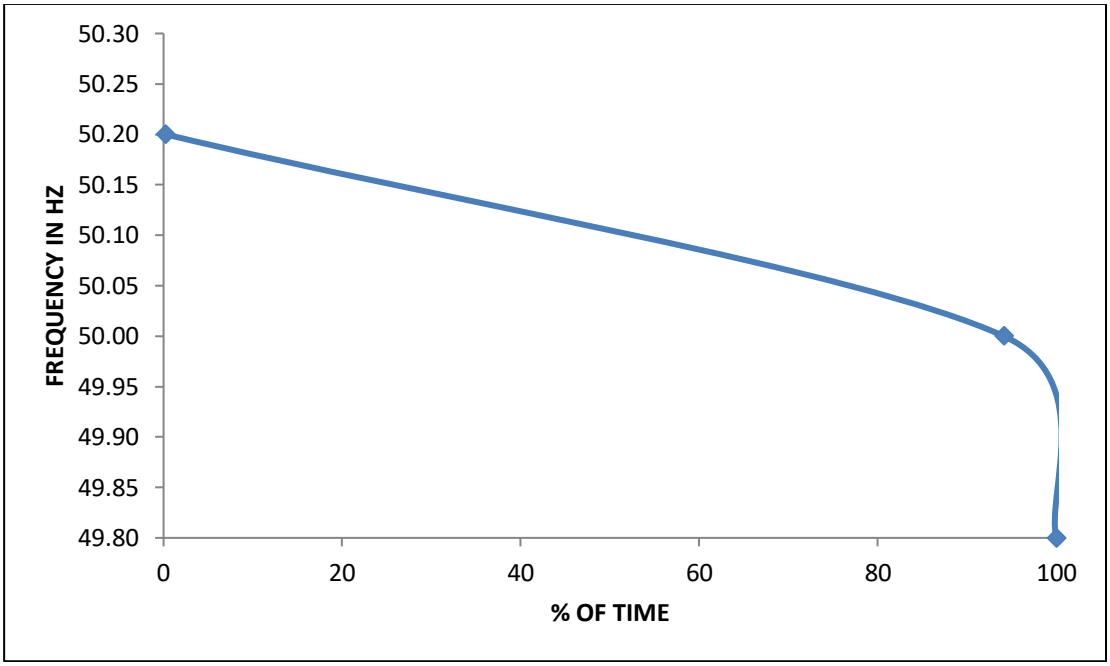
13 LOAD DURATION CURVE FOR MAY 2020

Load in MW	Percentage of Time	Load in MW	Percentage of Time
Above 2100	100.00	Above 3900	18.65
Above 2200	99.97	Above 4000	16.26
Above 2300	99.70	Above 4100	14.05
Above 2400	98.22	Above 4200	12.03
Above 2500	94.56	Above 4300	10.11
Above 2600	90.93	Above 4400	8.23
Above 2700	83.17	Above 4500	7.16
Above 2800	75.60	Above 4600	6.18
Above 2900	66.23	Above 4700	5.31
Above 3000	58.57	Above 4800	4.47
Above 3100	51.58	Above 4900	3.70
Above 3200	46.27	Above 5000	2.92
Above 3300	41.77	Above 5100	2.05
Above 3400	36.59	Above 5200	1.31
Above 3500	32.09	Above 5300	0.77
Above 3600	28.26	Above 5400	0.24
Above 3700	24.36	Above 5500	0.00
Above 3800	21.34		



14 FREQUENCY ANALYSIS FOR THE MONTH OF MAY 2020

FREQUENCY REMAINED ABOVE IN MW	DURATION IN HOURS	(%) OF TIME
50.40	0.00	0.00
50.20	1.75	0.24
50.00	700.25	94.12
49.80	744.00	100.00



15 VOLTAGE PROFILE OF 220 KV SUB-STATIONS IN DELHI DURING MAY 2020

All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
01-05-20	228.92	216.28	233.82	221.44
02-05-20	231.37	217.31	236.27	223.50
03-05-20	231.49	220.27	236.01	225.95
04-05-20	231.37	218.86	237.30	224.40
05-05-20	228.66	219.63	233.17	222.47
06-05-20	230.46	220.53	234.98	225.43
07-05-20	231.88	217.82	236.27	222.21
08-05-20	230.72	218.21	234.46	221.82
09-05-20	230.08	218.98	234.07	223.37
10-05-20	234.33	218.98	239.10	224.27
11-05-20	228.79	218.60	234.33	224.01
12-05-20	231.11	218.86	235.62	223.37
13-05-20	229.95	218.98	233.17	224.14
14-05-20	232.40	219.11	235.88	223.63
15-05-20	231.49	219.63	235.62	223.76
16-05-20	229.43	218.86	234.07	223.11
17-05-20	230.46	215.76	235.88	220.53
18-05-20	227.37	213.95	232.66	219.76
19-05-20	228.14	214.73	233.30	217.95
20-05-20	228.79	216.66	233.17	220.27
21-05-20	228.14	213.31	232.78	219.76
22-05-20	226.98	214.60	231.37	214.08
23-05-20	228.66	216.41	231.49	217.70
24-05-20	228.14	215.63	231.37	217.70
25-05-20	228.27	215.76	231.11	215.12
26-05-20	228.66	214.73	232.40	215.12
27-05-20	228.53	216.02	231.37	215.76
28-05-20	230.21	216.92	236.01	220.15
29-05-20	229.30	220.15	235.75	222.21
30-05-20	230.08	222.85	237.17	226.98
31-05-20	233.04	224.14	238.46	229.30

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

All figures in kV

Date	400kV Bamnauli Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01-05-20	410.12	14:02:39	382.92	22:21:40	402.24
02-05-20	414.57	10:30:32	391.36	19:36:24	404.80
03-05-20	415.04	15:49:48	390.19	19:24:58	406.52
04-05-20	412.70	04:00:29	388.54	22:11:23	404.49
05-05-20	409.18	16:01:46	388.78	22:15:47	401.61
06-05-20	413.17	18:00:26	391.36	22:15:52	403.67
07-05-20	412.46	05:01:43	384.32	22:17:36	403.26
08-05-20	413.17	18:00:49	386.20	22:15:40	401.96
09-05-20	411.52	18:00:54	390.19	22:15:34	400.99
10-05-20	420.67	12:01:06	388.78	22:21:59	406.29
11-05-20	410.12	04:01:30	388.08	22:19:43	400.40
12-05-20	411.99	05:02:14	389.01	22:13:18	401.89
13-05-20	411.06	06:01:29	391.59	22:19:32	401.64
14-05-20	416.21	18:01:15	386.67	22:11:06	401.54
15-05-20	412.46	06:01:47	387.84	22:14:10	402.37
16-05-20	409.65	18:00:34	388.78	22:16:15	401.09
17-05-20	411.29	06:00:46	387.37	23:05:49	401.58
18-05-20	408.48	18:17:23	382.68	22:20:03	398.59
19-05-20	409.65	04:01:04	381.51	22:15:40	398.89
20-05-20	410.82	18:04:12	386.43	22:08:12	400.01
21-05-20	409.18	06:01:23	381.98	22:11:06	397.60
22-05-20	407.30	18:02:10	379.40	22:17:31	396.33
23-05-20	412.70	18:02:15	386.67	22:54:46	402.32
24-05-20	408.94	18:33:19	383.15	22:33:20	399.62
25-05-20	408.71	06:00:52	381.51	22:12:37	398.87
26-05-20	411.52	19:02:19	379.40	22:30:10	397.10
27-05-20	408.48	18:27:54	382.92	22:16:05	395.81
28-05-20	413.40	18:01:28	384.09	15:20:08	401.09
29-05-20	411.99	04:01:40	388.54	14:14:02	402.02
30-05-20	411.52	01:54:45	395.58	14:17:26	404.40
31-05-20	415.04	17:01:01	400.50	00:02:28	407.99

All figures in kV

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01-05-20	419.26	17:02:25	391.36	22:21:06	410.42
02-05-20	423.25	10:23:37	398.63	19:28:09	412.81
03-05-20	423.25	15:53:13	404.25	00:02:19	414.66
04-05-20	422.08	03:59:34	398.39	22:11:16	414.04
05-05-20	420.43	16:01:59	400.27	22:16:00	411.47
06-05-20	421.61	06:02:51	402.14	22:10:13	412.90
07-05-20	422.78	05:01:04	407.77	00:01:03	414.95
08-05-20	422.55	18:00:23	397.92	22:15:49	411.43
09-05-20	420.90	18:00:32	399.57	22:20:00	410.25
10-05-20	425.36	13:01:28	398.16	22:20:56	414.69
11-05-20	419.03	18:02:03	400.27	22:19:17	410.46
12-05-20	423.25	05:02:27	400.74	22:13:01	412.33
13-05-20	421.84	06:01:31	401.44	22:34:24	411.62
14-05-20	427.47	18:01:07	397.45	22:13:08	411.54
15-05-20	423.72	06:02:09	399.80	22:12:01	413.26
16-05-20	419.73	17:59:54	400.27	22:10:22	411.69
17-05-20	421.84	06:00:37	396.99	23:05:50	411.49
18-05-20	417.15	18:01:33	392.06	22:16:23	407.49
19-05-20	418.56	04:00:44	393.94	22:13:46	408.32
20-05-20	419.73	05:03:27	396.99	22:08:20	409.14
21-05-20	418.09	06:00:41	392.30	22:22:24	406.31
22-05-20	414.81	06:00:44	390.19	22:17:57	404.23
23-05-20	420.43	06:01:50	397.22	22:10:00	410.91
24-05-20	418.32	18:33:03	397.22	22:07:44	409.51
25-05-20	418.32	06:01:25	393.94	22:13:18	409.15
26-05-20	419.73	19:04:21	393.47	22:19:41	406.84
27-05-20	418.09	18:31:14	396.99	14:49:14	408.18
28-05-20	423.25	18:02:28	397.45	15:20:07	414.56
29-05-20	422.08	18:02:50	403.08	14:12:40	413.89
30-05-20	422.08	01:20:27	407.77	13:51:53	415.23
31-05-20	425.36	17:01:06	412.23	12:39:05	418.57

17 DETAILS OF BREAK-DOWNS / TRIPPING DURING THE MONTH OF MAY 2020

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
01	01.05.20	17.02	400KV MUNDKA – JHAJJAR CKT-II	01.05.20	19.02	CKT. TRIPPED ON SOTF AUTO RECLOSE, 186 LOCK OUT, DIST PROT `R' PHASE AT MUNDKA.
02	03.05.20	19.25	220KV WAZIRABAD – GEETA COLONY CKT-I	01.05.20	20.15	FOLLOWING TRIPPINGS OCCURRED:- AT WAZIRABAD CKT-I.: DIST PROT YB PHASE ZONE-II CKT-II: DIST PROT Y PHASE ZONE-I AT GEETA COLONY CKT-I : NO TRIPPING CKT-II: DIST PRPT ZONE-II
03	03.05.20	19.25	220KV IP – PATPARGANJ CKT-I	01.05.20	21.20	CKT. TRIPPEDO N DIST PROT ABC PHASE AT IP ONLY.
04	05.05.20	06.06	220/66KV 160MVA PR. TR. AT KANJHAWALA	01.05.20	06.48	TR. TRIPPED ON OVER FLUX
05	05.05.20	06.29	220KV BAWANA – DSIDC CKT-II	05.05.20	06.35	CKT TRIPPED ON RYB PHASE DIFFERENTIAL AT DSIDC.
06	08.05.20	18.23	220KV GEETA COLONY – PATPARGANJ CKT-I	08.05.20	19.19	CKT. TRIPPED ON DIST PROT ZONE-I, O/C AT GEETA COLONY
07	09.05.20	14.14	220KV NAJAFGARH – KANJHAWALA CKT.	09.05.20	20.10	CKT TRIPPED ON DIST PROT B PHASE ZONE-I AT NAJAFGARH AND ON DIST PROT ZONE-II AT KANJHAWALA. CKT TRIED AT 14.57HRS AND CKT HOLD BUT AGAIN TRIPPED AT 15.07HRS ON DIST PROT R PHASE ZONE-II AT KANJHAWALA AND ON DIST PROT B PHASE ZONE-I AT NAJAFGARH. CKT.FINALLY CHARGED AT 20.10HRS.
08	09.05.20	14.21	220KV BAMNAULI – NAJAFGARH CKT-II	09.05.20	15.35	CKT. TRIPPED ON B PHASE ZONE-I AT BAMNAULI
09	09.05.20	15.10	220/66KV 160MVA PR. TR-III AT NAJAFGARH	09.05.20	19.30	TR. TRIPPED ON Y PHASE DIFFERENTIAL, 86
10	09.05.20	17.38	220KV NARELA – ROHTAK ROAD CKT-II	09.05.20	18.56	CKT. TRIPPED ON DIST PROT RYB PHASE ZONE-I, 186 AT NARELA.
11	09.05.20	19.23	20KV GEETA COLONY – PATPARGANJ CKT-I	09.05.20	19.41	CKT. TRIPPED ON DIST PROT C PHASE, E/F AT GEETA COLONY
12	10.05.20	06.20	220/33KV 100MVA PR. TR.-IV AT OKHLA	10.05.20	07.15	TR. TRIPPED LV REF
13	10.05.20	11.31	220KV WAZIRABAD – GEETA COLONY CKT-II	10.05.20	13.10	CKT. TRIPPED ON DIST PROT `R' PHASE ZONE-II AT GEETA COLONY AND ON DIST PROT 'R' PHASE ZONE-I AT WAZIRABAD
14	10.05.20	11.36	400KV JHATIKARA – BAMNAULI CKT-I	10.05.20	14.56	CB-1852 OF CKT. TRIPPED ON DIST PROT B PHASE ZONE-I AT BAMNAULI
15	10.05.20	11.41	220KV MAHARANI BAGH – LODHI ROAD CKT-II	10.05.20	15.03	CKT. TRIPPED ON DIST PROT B PHASE ZONE-I AT MAHARANI BAGH. NO TRIPPING AT LODHI ROAD
16	10.05.20	11.42	220KV GAZIPUR – NOIDA SEC-62 CKT	10.05.20	22.16	NO TRIPPING AT GAZIPUR
17	10.05.20	11.42	220KV GAZIPUR – NOIDA SEC-20 CKT.	10.05.20	13.03	NO TRIPPING AT GAZIPUR
18	10.05.20	12.00	220KV MUNDKA – PEERA GARHI CKT-I	10.05.20	16.07	CKT. TRIPPED ON UNDER VOLTAGE GROUP-A ACTIVE, 86 AT MUNDKA. NO TRIPPING AT PEERA GARHI.
19	10.05.20	12.05	220KV PATPARGANJ – GAZIPUR CKT.	10.05.20	12.40	CKT. TRIPPED ON OVER VOLTAGE AT GAZIPUR
20	11.05.20	05.29	220KV PANIPAT – NARELA CKT-I	11.05.20	05.45	CKT TRIPPED ON DIST PROT ZONE RYB PHASE ZONE-I AT NARELA.
21	14.05.20	17.20	400KV JHATIKARA – MUNDKA CKT-I	14.05.20	19.47	CKT. TRIPPED ON DIST PROT R PHASE ZONE-I, 86 AT MUNDKA. R PHASE CVT DAMAGED AT MUNDKA.
22	14.05.20	17.32	220/33KV 100MVA PR. TR.-I AT SHALIMAR BAGH	14.05.20	17.35	TR. TRIPPED ON 30B, WT, 86 ALONG WITH 33KV I/C-I WHICH TRIPPED ON R PHASE O/C, 86
23	14.05.20	17.38	220KV MANDOLA – GOPALPUR CKT-II	15.05.20	18.15	CKT. TRIPPED ON DIST PROT R PHASE AT MANDOLA AND ON DIST PROT R PHASE 186ABC, RY PHASE TRIP AT GOPALPUR

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
24	14.05.20	17.49	400KV MANDOLA – BAWANA CKT-I	15.05.20	19.25	CKT. TRIPPED ON DIST PROT RYB PHASE ZONE-II 86, 186A&B AT BAWANA,
25	14.05.20	17.49	400KV MANDOLA – BAWANA CKT-II	14.05.20	22.20	CKT. TRIPPED ON DIST PROT RUB PHASE ZONE-II AT BAWANA
26	14.05.20	18.22	220KV BTPS – OKHLA CKT-I	14.05.20	21.00	CKT. TRIPPED ON DIST PROT B PHASE ZONE-I AT BTPS AND ON DIST PROT B PHASE ZONE-I AT OKHLA.
27	14.05.20	17.49	220KV MANDOLA – WAZIRABAD CKT-IV	15.05.20	18.24	CKT. TRIPPED ON DIST PROT B PHASE AT WAZIRABAD.
28	14.05.20	17.37	220/33KV 100MMVA PR. TR.-I & II AT SUBZI MANDI	14.05.20	18.25	TR. TRIPPED ON R&B PHASE, 86 AND TR-II TRIPPED ON R PHASE, 86. SUPPLY OF 220KV GOPALPUR CKT-I DISAPPEARED. CKT CHARGED AT 1754HRS. TR-I & II CHARGED AT 18.06HRS AND 18.25HRS RESPECTIVELY.
29	14.05.20	22.58	220/33KV 100MVA PR. TR.-I AT SHALIMAR BAGH	15.05.20	02.03	TR. TRIPPED ON 30B, WT, 86
30	15.05.20	10.57	400KV DADRI – HARSH VIHAR CKT-II	17.05.20	13.06	CKT. TRIPPED ON DIST PROT B PHASE ZONE-I AT HARSH VIHAR. CKT. TRIED AT 13.06HRS BUT AGAIN TRIPPED ON DIST PROT RYB PHASE ZONE-I AT HARSH VIHAR.
31	16.05.20	12.56	220KV BAMNAULI – NAJAFGARH CKT-II	16.05.20	15.32	CKT TRIPPED ON DIST PROT B PHASE AT BAMNAULI. NO TRIPPING AT NAJAFGARH
32	16.05.20	16.55	220KV MANDOLA – GOPALPUR CKT-II	16.05.20	19.00	CKT. TRIPPED ON DIST PROT `R' PHASE AT GOPALPUR
33	16.05.20	16.55	220KV GOPALPUR – SUBZI MANDI CKT-II	16.05.20	17.01	CKT. TRIPPED ON DIST PROT YB PHASE, 86, DIFFERENTIAL AT GOPALPUR
34	16.05.20	18.03	220KV GOPALPUR – SUBZI MANDI CKT-II	18.05.20	18.50	CKT. TRIPPED ON DIST PROT RY PHASE ZONE-I, C PHASE DIFFERENTIAL OPERATED.
35	17.05.20	16.02	220/33KV 100MVA PR. TR-II AT SUBZI MANDI	17.05.20	18.03	TR. TRIPPED ON SPR, 86
36	17.05.20	07.22	220/33KV 100MVA PR. TR.-II AT NARAINA	17.05.22	20.40	TR. TRIPPED ON 86B ALONG WITH 33KV I/C-I, II & III. 33KV I/C-I & III CHARGED AT 07.52HRS. 33KV I/C-II COULD BE CHARGED AT 20.40HRS.
37	18.05.20	13.05	220KV NARELA – ROHTAK ROAD CKT-I	18.05.20	15.09	CKT. TRIPPED ON 186, REL 650, GEN TRIP THREE PHASE ZONE-I AT NARELA.
38	18.05.20	18.04	220/33KV 100MVA PR. TR.-I AT SUBZI MANDI	18.05.20	20.50	TR. TRIPPED ON SPR, 86, 186
39	18.05.20	11.29	220KV BAWANA – KANJHAWALA CKT-I & II	18.05.20	11.50	CKT-I TRIPPED ON Y&B PHASE, 86 ABC AND CKT-II TRIPPED ON B PHASE DIFFERENTIAL AT BAWANA. AT KANJHAWALA, CKT-I TRIPPED ON E/F, Y&B PHASE 220KV BUS COUPLER AT KANJHAWALA TRIPPED ON B&C PHASE O/C, E/F. B PHASE JUMPER OF 220KV NAJAFGARH CKT SNAPPED. CKT-I & II CHARGED AT 13.31HRS AND 11.50HRS RESPECTIVELY. 220KV BUS COUPLER CHARGED AT 19.20HRS.
40	18.05.20	17.25	220KV MEHRAULI – DIAL CKT-II	18.05.20	18.15	CKT. TRIPPED ON 186 AT MEHRAULI. NO TRIPPING AT DIAL. 220KV BUS COUPLER AT MEHRAULI TRIPPED ON O/C.
41	18.05.20	17.45	20KV TUGLAKABAD – MEHRAULI CKT-II	18.05.20	18.09	CKT. TRIPPED ON DIST PROT Y&B PHASE ZONE-II AT TUGLAKABAD.
42	20.05.20	12.55	220KV DSIDC – NARELA CKT-II	20.05.20	17.42	CKT. TRIPPED ON DIST PROT AT DSIDC AND ON DIFFERENTIAL B PHASE, ACTIVE GROUP-I AT NARELA.
43	20.05.20	14.48	220KV WAZIRABAD – GOPALPUR CKT-II	20.05.20	16.09	CKT TRIPPED ON DIST PROT R&B PHASE AT WAZIRABAD.
44	21.05.20	16.37	220/66KV 160MVA PR. TR.-III AT PAPPANKALAN-I	21.05.20	18.00	TR. TRIPPED ON 86A&B ALONG WITH ITS 66KV I/C-III WHICH TRIPPED WITHOUT INDICATION

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
45	22.05.20	10.00	220KV KANJHAWALA – NAJAFGARH CKT-II	22.05.20	17.10	CKT. TRIPPED ON B PHASE ZONE-II AT KANJHAWALA
46	22.05.20	11.52	220KV WAZIRABAD – GEETA COLONY CKT-II	22.05.20	12.10	CKT. TRIPPED ON DIST PROT B PHASE ZONE-I AT WAZIRABAD AND ON DIST PROT C PHASE AT GEETA COLONY
47	22.05.20	12.48	220KV WAZIRABAD – GEETA COLONY CKT-II	22.05.20	18.41	CKT. TRIPPED ON DIST PROT B PHASE ZONE-I AT WAZIRABAD AND ON DIST PROT BC PHASE, O/C, E/F AT GEETA COLONY
48	22.05.20	12.48	220KV PATPARGANJ – GEETA COLONY CKT-II	22.05.20	13.01	CKT. TRIPPED ON DIST PROT ABC PHASE, C PHASE DIFFERENTIAL AT PATPARGANJ.
49	22.05.20	11.51	220KV PATPARGANJ – PREET VIHAR CKT-II	23.05.20	20.21	CKT. TRIPPED ON 186 AT PATPARGANJ
50	22.05.20	13.02	220KV IP – PATPARGANJ CKT-II	22.05.20	13.17	CKT. TRIPPEDON 86, RYB PHASE O/C, E/F AT IP AND ON 86, 186 AT PATPARGANJ
51	22.05.20	11.42	220KV PRAGATI – PARK STREET CKT-I & II	22.05.20	12.40	BOTH CKT. TRIPPED ALONG WITH STG UNIT OF PRAGATI.
52	22.05.20	12.50	220KV PRAGATI – PARK STREET CKT-II	22.05.20	13.05	CKT. TRIPPED AT PRAGATI ALONG WITH 160MVA PR. TR-I & II AND IP CKT-I & II
53	22.05.20	16.25	400KV BAWANA – MUNDKA CKT-II	22.05.20	18.25	CKT. TRIPPED ON 186A, 186B AT BAWANA.
54	22.05.20	18.51	220KV BAMNAULI – DIAL CKT-II	23.05.20	15.07	CKT. TRIPPED ON DIFFERENTIAL B PHASE, 186A, 186B AT DIAL
55	23.05.20	13.50	220KV BAMNAULI – PAPPANKALAN-I CKT-II	23.05.20	16.45	CKT. TRIPPEDON DIST PROT R PHASE ZONE-II AT BAMNAULI
56	23.05.20	14.16	220KV BAWANA – SHALIMAR BAGH CKT-I	23.05.20	18.00	CKT. TRIPPED ON DIST PROT AUTO RECLOSE AT SHALIMAR BAGH AND ON 186, DIRECTIONAL O/C, AUTO RECLOSE, 86A, 86B, 86C AT BAWANA.
57	24.05.20	15.07	220KV NARELA – ROHTAK ROAD CKT-I	24.05.20	16.03	CKT. TRIPPED ON DIST PROT RYB PHASE ZONE-I AT NARELA
58	24.05.20	18.15	220KV PAPPANKALAN-I – NARAINA CKT	25.05.20	09.25	CKT. TRIPPEDON DIST PROT R&B PHASE, ZONE-I AT PAPPANKALAN-I.
59	24.05.20	23.47	220KV BAWANA – KANJHAWALA CKT-I & II	25.05.20	00.05	FOLLOWING TRIPPINGS OCCURRED: AT BAWANA : KANJHAWALA CKT-I : NO TRIPPING KANJHAWALA CKT-II : O/C, RYB PHASE, AT KANJHAWALA BAWANA CKT-I : DIST PROT YB PHASE, O/C, RYB, 86 BAWANA CKT-II : DID NOT TRIP CKT-I &II CHARGED AT 00.05HRS (25.05.20)
60	25.05.20	01.40	400KV BAMNAULI – TUGLAKABAD CKT-II	25.05.20	02.10	CKT. TRIPPED ON DIST PROT B PHASE AT BAMNAULI.
61	26.05.20	13.10	400/220KV 315MVA ICT-II AT HARSH VIHAR	27.05.20	23.18	ICT TRIPPED ON 86, HARMONIC BUCHLOZ ALARM
62	26.05.20	16.28	400/22KV 315MVA ICT-III AT MUNDKA	26.05.20	22.22	ICT TRIPPED ON BUCHLOZ RELAY ALONG WITH 220KV I/C-III WHICH TRIPPED ON GROUPA&B, 86A&B
63	27.05.20	13.21	220KV BAMNAULI – NAJAFGARH CKT-II	27.05.20	13.51	CKT. TRIPPED ON 86T, ABC, 186, SOTF AT BAMNAULI. NO TRIPPING AT NAJAFGARH
64	27.05.20	14.06	220KV KANJHAWALA – NAJAFGARH CKT	27.05.20	19.47	CKT. TRIPPEDON DIST PROT B PHASE ZONE-I AT KANJHAWALA.
65	27.05.20	14.12	400/220KV 315MVA ICT-III & IV AT MUNDKA	27.05.20	16.17	ICT-III TRIPPED ON 86A&B, O/C AND ICT-IV TRIPPED ON 86A&B, O/C. ICT-III & IV CHARGED AT 15.35HRS. AND 16.17HRS. RESPECTIVELY
66	27.05.20	14.45	220KV BAMNAULI – NAJAFGARH CKT-II	27.05.20	17.35	CKT. TRIPPED ON DIST PROT RB PHASE ZONE-I AT BAMNAULI. NO TRIPPING AT NAJAFGARH
67	28.05.20	08.12	220/33KV 100MVA PR. TR.-I AT GOPALPUR	28.05.20	18.43	TR. TRIPPED ON 86 ALONG WITH 33KV I/C-I & III WHICH TRIPPED ON E/F. I/C-I & III CHARGED AT 08.45HRS AND 08.40HRS. RESPECTIVELY.
68	28.05.20	13.21	220KV WAZIRABAD – KASHMIRI GATE CKT-II	28.05.20	14.22	CKT. TRIPPED ON DIST PROT R PHASE ZONE-I AT WAZIRABAD AND LINE DIFFERENTIAL, R PHASE AUTO RECLOSE R PHASE AT KASHMIRI GATE.

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
69	29.05.20	17.12	220KV BTPS – TUGLAKABAD CKT-I	29.05.20	19.13	CKT-I TRIPPED ON GENERAL TRIP ZONE-I RYB PHASE AND CKT-II TRIPPED ON GENERAL TRIP ZONE-I AT BTPS.
70	29.05.20	17.12	220KV TUGLAKABAD – OKHLA CKT-II	29.05.20	19.13	CKT. TRIPPEDON ZONE-I Y&B PHASE AT TUGLAKABAD.
71	30.05.20	07.50	220/66KV 100MVA PR. TR.-III AT MEHRAULI	30.05.20	08.07	TR. TRIPPED ON 86 ALONG WITH 66KV I/C-I, II & III. 66KV I/C-I & II TRIPPED ON 51CX AND 66KV I/C-III TRIPPED ON 86, 51AX, 51BX, 51CX.
72	31.05.20	09.05	220/33KV 100MVA PR. TR.-I AT SUBZI MANDI	31.05.20	13.09	TR. TRIPPED ON SPR, 86, 186
73	31.05.20	03.05	66/11KV 20MVA PR. TR.-IV AT WAZIRABAD	31.05.20	11.27	TR. TRIPPED ON BUCHLOZ.
74	31.05.20	15.30	220KV MEHRAULI – VASANT KUNJ CKT-II	31.05.20	19.50	CKT. TRIPPED ON SUPERVISION RELAY, B&C PH., 86 AT MEHRAULI AND ON DIST PROT ZONE-I, B PH. AT VASANT KUNJ
75	31.05.20	15.38	220KV PATPARGANJ – GEETA COLONY CKT-I	31.05.20	16.28	CKT. TRIPPED ON DIST PROT ZONE-I Y&B PHASE AT PATPARGANJ AND ON DIST PROT ZONE-I, RYB PHASE, O/C, E/F AT GEETA COLONY

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

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