

DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

APRIL 2023

S. No.	CONTENTS	Page No.
1.	Salient Features of Delhi Power System	3
2.	Performance of Generating Stations within Delhi	4
3.	Details of Outage of Generating Stations within Delhi	5-6
4.	Allocation of Power to Delhi Discoms from of various generating stations	7-10
5.	Power Availability Demand Position of Delhi at the time of occurrence of Peak Demand	11
6.	Power Availability Demand Position of Delhi at the time of occurrence of Maximum Un-Restricted Demand	12
7.	Source wise scheduled drawl from grid and Availability within Delhi	13-15
8.	Shedding Details	16-20
9.	Load Curve for the Day of Peak Demand	21
10.	Load Curve for the day of occurrence of Maximum Un-Restricted Demand	22
11.	Load Curve for the day of Maximum Energy Consumed	23
12.	Load Curve for the day of Maximum Un-Restricted Energy Demand	24
13.	Load Duration Curve	25
14.	Frequency Analysis	26
15.	Voltage Profile for significant 220kV Sub-Stations	27
16.	Voltage Profile for significant 400kV Sub-Stations	28-29
17.	Tripping Details of 400/220 KV System in Delhi Power System	30-31
18.	Details of Under frequency Relay operations in Delhi Power System	32

SALIENT FEATURES OF DELHI POWER SYSTEM

Sr. No.	Features	APR. 2022	APR. 2023
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
	TWEPL	--	25
	Total	2156	2181
2	Maximum Unrestricted Demand (MW)	6197	5422
	Date	29.04.22	18.04.23
	Time	15.31.57	15.19.41
3	Peak Demand met (MW)	6197	5422
	Date	29.04.22	18.04.23
	Time	15.31.57	15.19.41
4	Peak Availability (MW)	6193	5379
5	Shortage (-) / Surplus (+) in MW	(-) 3	(-) 43
6	Percentage Shortage (-) / Surplus (+)	(-) 0.05	(-) 0.79
7	Maximum Energy Consume in a day (Mus)	126.145	109.818
8	Energy Consumed during the month	3101.370	2569.062
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	0.004	0.000
	BRPL	0.000	0.000
	BYPL	0.108	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	0.112	0.000
B)	Due to Constraints in System in Mus		
	DTL	0.463	0.112
	TPDDL	0.044	0.040
	BRPL	0.012	0.090
	BYPL	0.018	0.010
	NDMC	0.00	0.000
	MES	0.000	0.000
	Other Agencies	0.005	0.0003
	Total	0.542	0.2523
10	Grand Total in Mus	0.654	0.2523

2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING APRIL 2023

A) For the month of Apr 2023

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	0.120	-0.120	--	--
2.	GT	27.059	1.494	25.565	32.02	34.45
3.	PPCL	0.000	0.094	-0.094	100.60	231.86
4.	Bawana	111.020	6.588	104.432	80.30	666.51
5.	Towmcl	10.459	1.513	8.946	--	--
6.	EDWPCL	3.385	0.763	2.622	--	--
7.	DMSWL	14.862	2.319	12.543	--	--
8.	TWEPL	20.176	1.774	18.402	--	--
	TOTAL	186.961	14.665	172.296	--	932.82

B) For the Year 2023-24 (Upto Apr 2023)

Power Station	Effective Capacity (MW)	Net Generation in MUs for Apr 2023	Availability (%) for Apr 2023	PLF (%) For Apr 2023	Cumulative Generation in MUs upto Apr 2023 for the year 2023-24	Cumulative Availability in % upto Apr 2023 or the year 2023-24
RPH	135	-0.120	--	--	-0.120	--
GT	270	25.565	32.02	41.25	25.565	32.02
PPCL	330	-0.094	100.60	00.00	-0.094	100.60
Bawana	1372	104.432	80.30	10.85	104.432	80.30
Towmcl	16	8.946	--	--	8.946	--
EDWPCL	10	2.622	--	--	2.622	--
DMSWL	24	12.543	--	--	12.543	--
TWEPL	25	18.402	--	--	18.402	--
TOTAL	2182	172.296	--	--	172.296	--

3 DETAILS OF OUTAGES OF GENERATING STNS. WITHIN DELHI FOR APRIL 2023

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	01.04.23	00.00	17.04.23	09.48	Unit stopped due to low demand
2	30	01.04.23	00.00	30.04.23	23.59	Unit stopped due to low demand
3	30	NIL				
4	30	NIL				
5	30	01.04.23	00.00	30.04.23	23.59	Unit stopped due to low demand
6	30	17.04.23	18.38	29.04.23	12.15	Unit stopped due to low demand
		19.04.23	12.25	29.04.23	12.25	Run upto FSNL for testing purpose
		29.04.23	12.25	30.04.23	23.59	Unit stopped due to low demand
STG-1	30	01.04.23	00.00	17.04.23	09.48	Unit stopped due to low demand
STG-2	30	NIL				
STG-3	30	17.04.23	18.42	30.04.23	23.59	Unit stopped due to low demand

(C) PRAGATI

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	104	01.04.23	00.00	30.04.23	23.59	Unit stopped due to low demand
2	104	01.04.23	00.00	30.04.23	23.59	Unit stopped due to low demand
STG	122	01.04.23	00.00	30.04.23	23.59	Unit stopped due to low demand

(D) BAWANA CCGT POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	216	NIL				
2	216	NIL				
3	216	NIL				
4	216	NIL				
STG -1	254	01.04.23	00.00	30.04.23	23.59	Overhauling of STG
STG -2	254	15.04.23	04.58	14.04.23	13.23	Oil leakage in STG 2 .

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						NR
				BRPL	BYPL	TPDDL	NDM C	MES	RPH	
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		
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
<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		
Dhaulti 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										
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		
Kahalgaoon-I	840	6.07	50.99	43.92	25.40	30.68	0.00	0.00		
Kahalgaoon-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		
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(Meja6)			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				
Meja-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

**POWER AVAILABILITY-DEMAND POSITION AT THE TIME OF PEAK DEMAND
MET DURING APRIL 2023**

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	TWE PL	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	10.24.25	40	0	-4	11	0	20	27	94	3373	3265	108	3467	0	3467
2	10.58.46	50	0	-4	12	0	18	26	102	3286	3254	32	3388	0	3388
3	10.26.25	38	0	-2	16	1	18	16	87	3551	3508	43	3638	0	3638
4	10.44.03	38	0	-2	10	0	19	26	91	3517	3390	127	3608	0	3608
5	10.31.05	38	0	-2	13	3	18	28	98	3633	3637	-4	3731	0	3731
6	10.31.48	38	0	-3	10	2	19	28	94	3577	3633	-56	3671	0	3671
7	11.43.44	36	0	-2	13	5	19	25	96	3707	3671	36	3803	0	3803
8	10.49.16	37	0	-4	13	5	19	27	97	3465	3357	108	3562	0	3562
9	10.41.00	35	0	-3	10	3	19	27	91	3366	3404	-38	3457	0	3457
10	10.40.23	36	0	-3	13	0	19	26	91	3781	3746	35	3872	0	3872
11	17.25.05	35	0	-3	10	5	18	28	93	3871	3876	-5	3964	0	3964
12	11.31.08	34	0	-3	12	3	17	26	89	4100	4047	53	4189	0	4189
13	16.25.45	34	0	-7	12	6	18	27	90	4243	4298	-55	4333	0	4333
14	16.08.47	33	0	-11	12	4	19	26	83	4286	4241	45	4369	0	4369
15	15.37.12	34	0	269	10	4	18	26	361	4022	3934	88	4383	0	4383
16	22.58.11	36	0	310	11	0	20	27	404	4002	4047	-45	4406	0	4406
17	16.06.58	58	0	271	13	3	19	24	388	4747	4700	47	5135	0	5135
18	15.19.51	33	0	270	10	7	19	24	363	5059	5102	-43	5422	0	5422
19	15.30.49	34	0	472	10	4	17	25	562	4746	4916	-170	5308	0	5308
20	15.31.46	35	0	478	13	4	19	27	576	4525	4377	148	5101	0	5101
21	15.41.27	35	0	272	11	4	17	28	367	4395	4396	-1	4762	0	4762
22	00.00.13	38	0	273	15	5	18	27	376	3941	3837	104	4317	0	4317
23	00.01.02	37	0	269	13	5	17	24	365	3569	3637	-68	3934	0	3934
24	16.02.17	37	0	272	13	5	8	24	359	3791	3872	-81	4150	0	4150
25	15.35.03	37	0	270	11	8	9	22	357	3892	3908	-16	4249	0	4249
26	15.40.48	36	0	270	12	0	19	25	362	4128	4053	75	4490	0	4490
27	15.33.12	35	0	269	12	0	18	21	355	4359	4406	-47	4714	0	4714
28	15.31.03	36	0	271	11	-1	19	26	362	4066	4120	-54	4428	0	4428
29	12.30.12	37	0	272	12	10	18	10	359	3796	3642	154	4155	0	4155
30	00.00.07	39	0	-6	12	10	20	13	88	3710	3693	17	3798	0	3798

POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF MAXIMUM UNRESTRICTED DEMAND DURING APIRL 2023

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	TWE PL	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	10.24.25	40	0	-4	11	0	20	27	94	3373	3265	108	3467	0	3467
2	10.58.46	50	0	-4	12	0	18	26	102	3286	3254	32	3388	0	3388
3	10.26.25	38	0	-2	16	1	18	16	87	3551	3508	43	3638	0	3638
4	10.44.03	38	0	-2	10	0	19	26	91	3517	3390	127	3608	0	3608
5	10.31.05	38	0	-2	13	3	18	28	98	3633	3637	-4	3731	0	3731
6	10.31.48	38	0	-3	10	2	19	28	94	3577	3633	-56	3671	0	3671
7	11.43.44	36	0	-2	13	5	19	25	96	3707	3671	36	3803	0	3803
8	10.49.16	37	0	-4	13	5	19	27	97	3465	3357	108	3562	0	3562
9	10.41.00	35	0	-3	10	3	19	27	91	3366	3404	-38	3457	0	3457
10	10.40.23	36	0	-3	13	0	19	26	91	3781	3746	35	3872	0	3872
11	17.25.05	35	0	-3	10	5	18	28	93	3871	3876	-5	3964	0	3964
12	11.31.08	34	0	-3	12	3	17	26	89	4100	4047	53	4189	0	4189
13	16.25.45	34	0	-7	12	6	18	27	90	4243	4298	-55	4333	0	4333
14	16.08.47	33	0	-11	12	4	19	26	83	4286	4241	45	4369	0	4369
15	15.37.12	34	0	269	10	4	18	26	361	4022	3934	88	4383	0	4383
16	22.58.11	36	0	310	11	0	20	27	404	4002	4047	-45	4406	0	4406
17	16.06.58	58	0	271	13	3	19	24	388	4747	4700	47	5135	0	5135
18	15.19.51	33	0	270	10	7	19	24	363	5059	5102	-43	5422	0	5422
19	15.30.49	34	0	472	10	4	17	25	562	4746	4916	-170	5308	0	5308
20	15.31.46	35	0	478	13	4	19	27	576	4525	4377	148	5101	0	5101
21	15.41.27	35	0	272	11	4	17	28	367	4395	4396	-1	4762	0	4762
22	00.00.13	38	0	273	15	5	18	27	376	3941	3837	104	4317	0	4317
23	00.01.02	37	0	269	13	5	17	24	365	3569	3637	-68	3934	0	3934
24	16.02.17	37	0	272	13	5	8	24	359	3791	3872	-81	4150	0	4150
25	15.35.03	37	0	270	11	8	9	22	357	3892	3908	-16	4249	0	4249
26	15.40.48	36	0	270	12	0	19	25	362	4128	4053	75	4490	0	4490
27	15.33.12	35	0	269	12	0	18	21	355	4359	4406	-47	4714	0	4714
28	15.31.03	36	0	271	11	-1	19	26	362	4066	4120	-54	4428	0	4428
29	12.30.12	37	0	272	12	10	18	10	359	3796	3642	154	4155	0	4155
30	00.00.07	39	0	-6	12	10	20	13	88	3710	3693	17	3798	0	3798

SOURCEWISE SCHEDULED DRAWL FROM NORTHERN GRID AS WELL AS AVAILABILITY WITHIN DELHI FOR APRIL 2023

(ALL FIGURES IN MUS)

GENERATION WITHIN DELHI	AVAILABILITY	SCHEDULE
Rajghat Power House	0.000	0.000
Gas Turbine	60.375	25.927
Pragati-I	231.861	0.000
Pragati-III (Bawana)	770.958	104.442
Rithala	0.000	0.000
Badarpur	0.000	0.000
Renewable (include WTE)	43.743	43.743
TOTAL DELHI GEN.	1106.937	174.112

NAME OF STATION	AVAILABILITY	SCHEDULE
SINGRAULI STPS	94.290	94.290
RIHAND STPS	60.536	60.536
DADRI TPS	0.000	0.000
UNCHAHAR-I TPS	6.351	6.351
UNCHAHAR-II TPS	24.321	24.321
ANTA GPP-GF	0.000	0.000
ANTA GPP-LF	0.000	0.000
ANTA GPP-RF	0.175	0.175
ANTA CRF	0.000	0.000
AURAIYA GPP-GF	0.000	0.000
AURAIYA GPP-LF	0.000	0.000
AURAIYA GPP-RF	0.410	0.410
AURIYA CRF	0.005	0.005
DADRI GPP-GF	0.000	0.000
DADRI GPP-LF	0.028	0.028
DADRI GPP-RF	0.895	0.895
DADRI CRF	0.000	0.000
BAIRASIUL HEP	7.810	7.810
SALAL HEP	28.318	28.318
TANAKPUR HEP	0.732	0.732
CHAMERA HEP	12.178	12.178
URI HEP	33.757	33.757
NATHPA JHAKRI HEP	26.447	26.447
CHAMERA HEP-II	14.273	14.273
RIHAND-II STPS	86.828	86.828
DHAULIGANGA HEP	4.860	4.860
TEHRI HEP	13.845	13.845
UNCHAHAR-III TPS	13.250	13.250
DULHASTI HEP	21.202	21.202
DADRI II	323.273	323.273

NAME OF STATION	AVAILABILITY	SCHEDULE
SEWA-II	13.038	13.038
jhajjar	321.105	321.105
NAPP	34.228	34.228
RAPP C	46.967	46.967
RAPPB_4 C	0.000	0.000
KOTESWAR	7.977	7.977
SASAN	230.044	230.044
CHAMERA III	9.179	9.179
RIHAND3	91.077	91.077
KAHALGAON1	23.673	23.673
KAHALGAON2	86.490	86.490
TALA	0.008	0.008
FARAKA	11.148	11.148
URI 2 HEP	23.993	23.993
Parvati3	2.646	2.646
Koldam	1.035	1.035
SINGRAULI SHEP	0.735	0.735
UNCHAHAR - IV TPS	0.707	0.707
TALCHER (BTPS)	0.000	
Nabinagar STPS(BRBCL)	10.287	10.287
Meja TPS	7.638	7.638
Tanda-II TPS	2.909	2.909
Rampur	0.810	0.810
Kishan Ganag	3.199	3.199
Surya kanta Hydro	0.000	0.000
Nanti Hydro	0.000	0.000
Teranda hydro	0.000	0.000
Ramagundum STPS I&II	5.342	5.342
Ramagundum STPS III	1.399	1.399
TALCHER STPS-II	1.983	1.983
SIMHADRI STPS -II	1.329	1.329
KUDGI STPS -I	5.650	5.650
NLC TPS(II)-1	0.675	0.675
NLC TPS(II)-2	0.836	0.836
NLC TPS(E)-1	1.303	1.303
NLC TPS(E)-2	0.912	0.912
NLC-NNTPS	0.144	0.144
NTECL-Vallur STPS	2.289	2.289
NTPL- Tutlcorin	2.656	2.656
NPCIL-MAPS	0.178	0.178
NPCIL-KAIGA GS-1&2	1.448	1.448
NPCIL-KAIGA GS-3&4	1.570	1.570
NPCIL-KKNPP-1	0.842	0.842
KSTPS I&II	2.042	2.042
KSTPS7	0.962	0.962

NAME OF STATION	AVAILABILITY	SCHEDULE
VSTPS I	1.679	1.679
VSTPS II	1.328	1.328
VSTPS III	1.396	1.396
VSTPS IV	1.915	1.915
VSTPS-V	0.953	0.953
KAWAS KGPP	0.001	0.001
GANDHAR GGPP	0.001	0.001
SIPAT I	3.087	3.087
SIPAT II	1.343	1.343
MSTPS-I (MOUDA)	1.345	1.345
MSTPS-II (MOUDA_II)	2.435	2.435
SSTPP(SOLAPUR)	1.816	1.816
GSTPP(GADARWARA-I)	2.750	2.750
LSTPP9LARA-I)	2.734	2.734
KHTPP(KHARGONE-I)	2.154	2.154
KAPP	0.676	0.676
TAPP 3&4 (TAPS-II)	0.984	0.984
TOTAL	1760.832	1760.832
LTA	730.709	730.709
TOTAL (ISGS+LTA)	2491.541	2491.541
TOTAL AVAILABILITY	3598.478	2665.653
BILATERAL ARRANGEMENS	365.752	365.752

8. SHEDDING DETAILS DURING THE MONTH OF APRIL 2023

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
01.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
02.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
03.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
04.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
05.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
06.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
07.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
09.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.04.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	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 VOILATION				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		TPDDL	BSES		TPDDL	NDMC		
	BYPL	BRPL			BYPL	BRPL		BYPL	BRPL				
1	13	14	15	16	17	18	19	20	21	22	23	24=8 to 23	25=7+24
01.04.23	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
02.04.23	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
03.04.23	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
04.04.23	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
05.04.23	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
06.04.23	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
07.04.23	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
08.04.23	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
09.04.23	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
10.04.23	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
11.04.23	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
12.04.23	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
13.04.23	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
14.04.23	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
15.04.23	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
16.04.23	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
17.04.23	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
18.04.23	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
19.04.23	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
20.04.23	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
21.04.23	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
22.04.23	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
23.04.23	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
24.04.23	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
25.04.23	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
26.04.23	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
27.04.23	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
28.04.23	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
29.04.23	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
30.04.23	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
	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
01.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
02.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.000
03.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
04.04.23	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000
05.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000
06.04.23	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000
07.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000
09.04.23	0.000	0.000	0.016	0.000	0.000	0.001	0.000	0.000	0.000
10.04.23	0.000	0.000	0.001	0.000	0.000	0.003	0.000	0.006	0.000
11.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000
12.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000
13.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000
14.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000
15.04.23	0.000	0.047	0.018	0.000	0.000	0.000	0.000	0.000	0.000
16.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.04.23	0.000	0.000	0.007	0.000	0.000	0.000	0.001	0.000	0.000
18.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
20.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.000
22.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.04.23	0.000	0.000	0.000	0.000	0.000	0.007	0.005	0.000	0.000
26.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
27.04.23	0.000	0.000	0.003	0.000	0.000	0.000	0.066	0.008	0.000
28.04.23	0.000	0.015	0.000	0.000	0.000	0.000	0.001	0.000	0.000
29.04.23	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000
30.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000
TOTAL	0.000	0.063	0.049	0.000	0.000	0.010	0.090	0.040	0.000

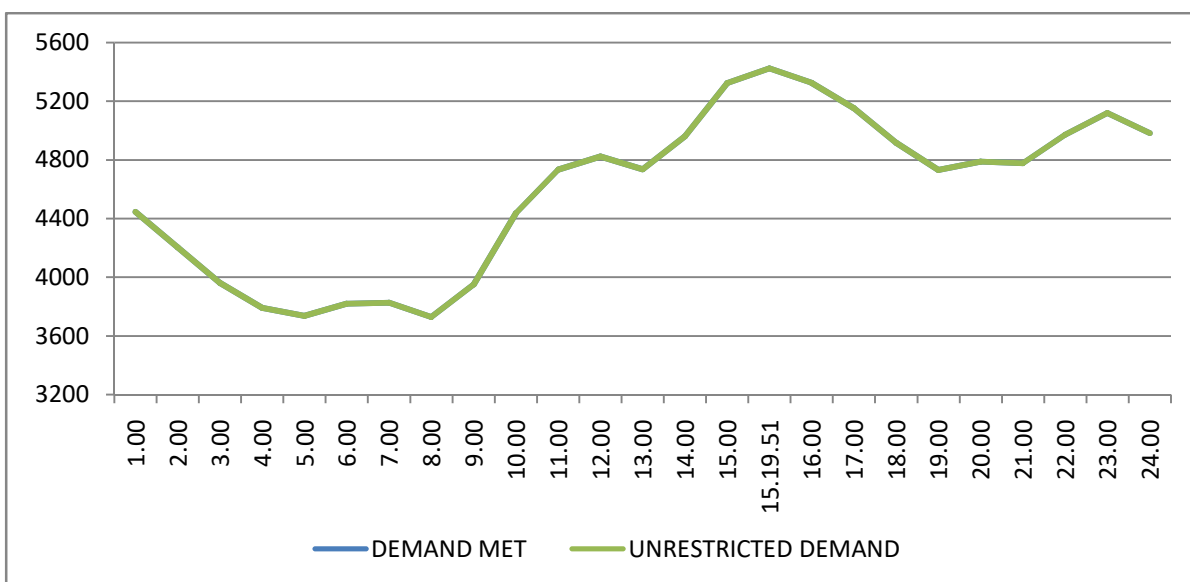
DATE	OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.				THEFT PRONE SHEDDING			TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE	GRAND TOTAL
	BSES		TPDDL	NDMC	BSES		TPDDL		
	BYPL	BRPL			BYPL	BRPL			
1	35	36	37	38	39	40	41	42= 26 to 41	43 = 25 + 42
01.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0010	0.0010
02.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0105	0.0105
03.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000
04.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0027	0.0027
05.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0015	0.0015
06.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0016	0.0016
07.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000
08.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0031	0.0031
09.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0169	0.0169
10.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0101	0.0101
11.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0067	0.0067
12.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0032	0.0032
13.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0034	0.0034
14.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0022	0.0022
15.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0648	0.0648
16.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0005	0.0005
17.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0082	0.0082
18.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000
19.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0006	0.0006
20.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0004	0.0004
21.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0052	0.0052
22.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000
23.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000
24.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000
25.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0116	0.0116
26.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0014	0.0014
27.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0773	0.0773
28.04.23	0.000	0.000	0.0003	0.000	0.000	0.000	0.000	0.0165	0.0165
29.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0012	0.0012
30.04.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0019	0.0019
TOTAL	0.000	0.000	0.0003	0.000	0.000	0.000	0.000	0.2523	0.2523

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
01.04.23	67.587	3467	10:24:25	0	3467	3467	10:24:25	3467	0
02.04.23	64.349	3388	10:58:46	0	3388	3388	10:58:46	3388	0
03.04.23	70.887	3638	10:26:05	0	3638	3638	10:26:05	3638	0
04.04.23	70.77	3607	10:44:03	0	3607	3607	10:44:03	3607	0
05.04.23	73.706	3730	10:31:05	0	3730	3730	10:31:05	3730	0
06.04.23	74.591	3671	10:31:48	0	3671	3671	10:31:48	3671	0
07.04.23	74.294	3803	11:43:44	0	3803	3803	11:43:44	3803	0
08.04.23	72.057	3562	10:49:16	0	3562	3562	10:49:16	3562	0
09.04.23	70.885	3457	10:41:00	0	3457	3457	10:41:00	3457	0
10.04.23	77.679	3872	11:40:23	0	3872	3872	11:40:23	3872	0
11.04.23	81.282	3963	17:25:05	0	3963	3963	17:25:05	3963	0
12.04.23	85.621	4189	11:31:08	0	4189	4189	11:31:08	4189	0
13.04.23	89.03	4333	16:25:45	0	4333	4333	16:25:45	4333	0
14.04.23	88.759	4369	16:08:47	0	4369	4369	16:08:47	4369	0
15.04.23	92.459	4383	15:37:12	0	4383	4383	15:37:12	4383	0
16.04.23	92.162	4406	22:58:11	0	4406	4406	22:58:11	4406	0
17.04.23	101.833	5135	16:06:58	0	5135	5135	16:06:58	5135	0
18.04.23	109.818	5422	15:19:51	0	5422	5422	15:19:51	5422	0
19.04.23	107.667	5308	15:30:49	0	5308	5308	15:30:49	5308	0
20.04.23	103.968	5101	15:31:46	0	5101	5101	15:31:46	5101	0
21.04.23	99.341	4762	15:41:27	0	4762	4762	15:41:27	4762	0
22.04.23	90.217	4317	0:00:13	0	4317	4317	0:00:13	4317	0
23.04.23	81.389	3934	0:01:02	0	3934	3934	0:01:02	3934	0
24.04.23	86.501	4150	16:02:17	0	4150	4150	16:02:17	4150	0
25.04.23	88.152	4249	15:35:03	0	4249	4249	15:35:03	4249	0
26.04.23	92.348	4490	15:40:48	0	4490	4490	15:40:48	4490	0
27.04.23	95.58	4714	15:33:12	0	4714	4714	15:33:12	4714	0
28.04.23	94.361	4428	15:31:03	0	4428	4428	15:31:03	4428	0
29.04.23	89.519	4155	12:30:12	0	4155	4155	12:30:12	4155	0
30.04.23	81.912	3798	0:00:07	0	3798	3798	0:00:07	3798	0
TOTAL	2568.724	5422	15.19.51			5422	15.19.51		
		18.04.23							

9. **LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING APRIL 2023 ON 18.04.2023 - 5422MW AT 15.19.51HRS.**

All figures in MW

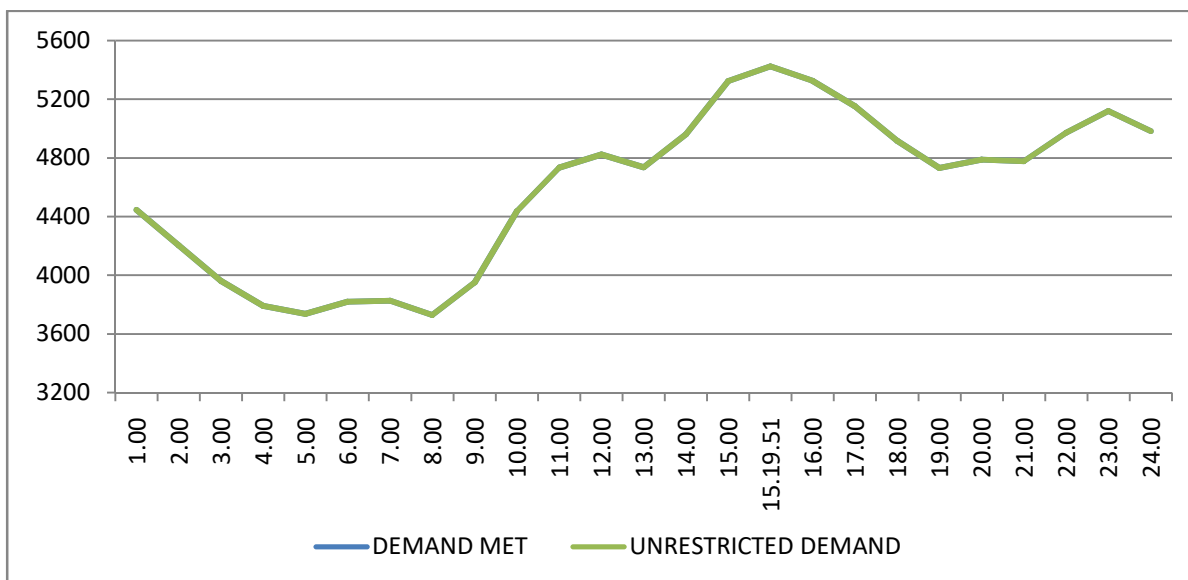
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	4446	0	4446
2.00	4203	0	4203
3.00	3961	0	3961
4.00	3792	0	3792
5.00	3736	0	3736
6.00	3819	0	3819
7.00	3825	0	3825
8.00	3729	0	3729
9.00	3951	0	3951
10.00	4436	0	4436
11.00	4733	0	4733
12.00	4822	0	4822
13.00	4735	0	4735
14.00	4961	0	4961
15.00	5322	0	5322
15.19.51	5422	0	5422
16.00	5324	0	5324
17.00	5152	0	5152
18.00	4916	0	4916
19.00	4730	0	4730
20.00	4787	0	4787
21.00	4777	0	4777
22.00	4972	0	4972
23.00	5119	0	5119
24.00	4981	0	4981
Total (IN MUS)	109.818	0.000	109.818



10 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING APRIL 2023 ON 18.04.2023-5422MW AT 16.17.48HRS.

All figures in MW

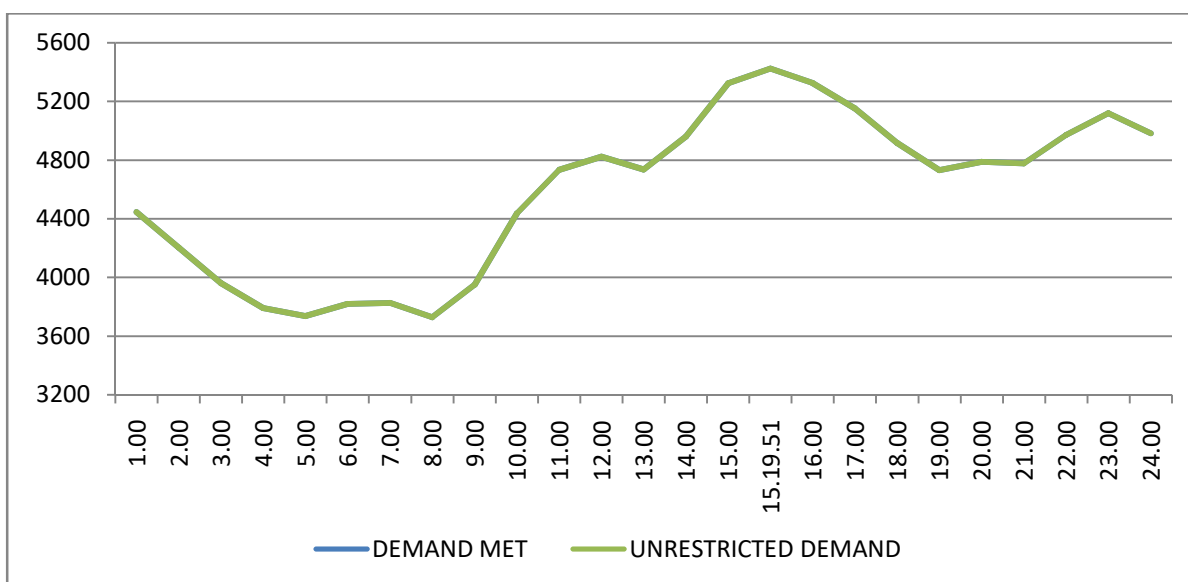
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	4446	0	4446
2.00	4203	0	4203
3.00	3961	0	3961
4.00	3792	0	3792
5.00	3736	0	3736
6.00	3819	0	3819
7.00	3825	0	3825
8.00	3729	0	3729
9.00	3951	0	3951
10.00	4436	0	4436
11.00	4733	0	4733
12.00	4822	0	4822
13.00	4735	0	4735
14.00	4961	0	4961
15.00	5322	0	5322
15.19.51	5422	0	5422
16.00	5324	0	5324
17.00	5152	0	5152
18.00	4916	0	4916
19.00	4730	0	4730
20.00	4787	0	4787
21.00	4777	0	4777
22.00	4972	0	4972
23.00	5119	0	5119
24.00	4981	0	4981
Total (IN MUS)	109.818	0.000	109.818



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING APRIL 2023 – 18.04.2023 – 109.818Mus

All figures in MW

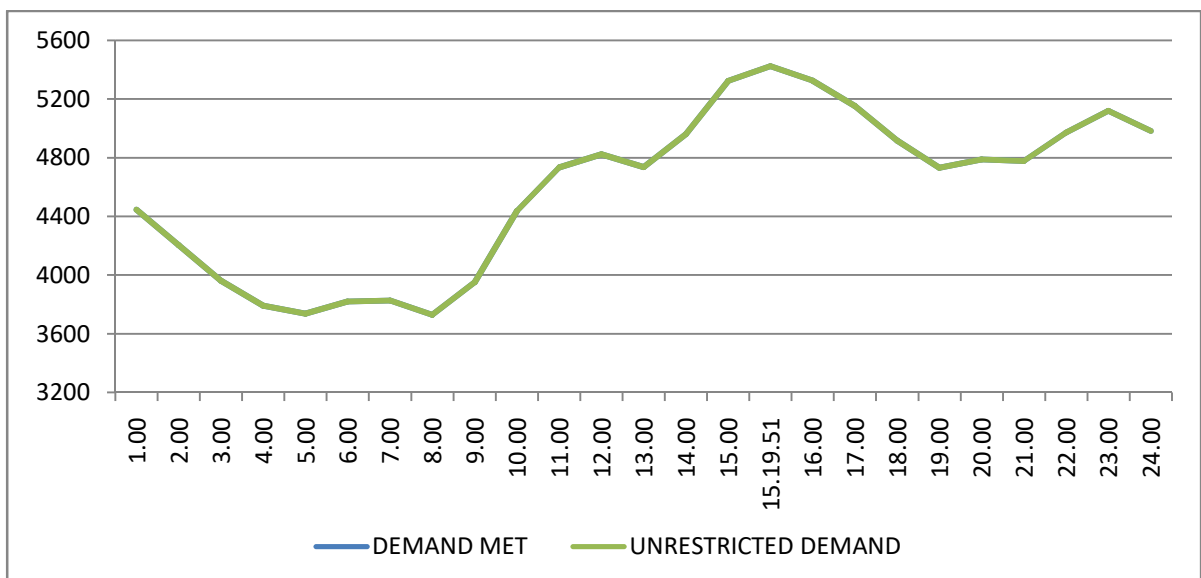
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	4446	0	4446
2.00	4203	0	4203
3.00	3961	0	3961
4.00	3792	0	3792
5.00	3736	0	3736
6.00	3819	0	3819
7.00	3825	0	3825
8.00	3729	0	3729
9.00	3951	0	3951
10.00	4436	0	4436
11.00	4733	0	4733
12.00	4822	0	4822
13.00	4735	0	4735
14.00	4961	0	4961
15.00	5322	0	5322
15.19.51	5422	0	5422
16.00	5324	0	5324
17.00	5152	0	5152
18.00	4916	0	4916
19.00	4730	0	4730
20.00	4787	0	4787
21.00	4777	0	4777
22.00	4972	0	4972
23.00	5119	0	5119
24.00	4981	0	4981
Total (IN MUS)	109.818	0.000	109.818



12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING APRIL 2023 - ON 18.04.2023- 109.818MUs

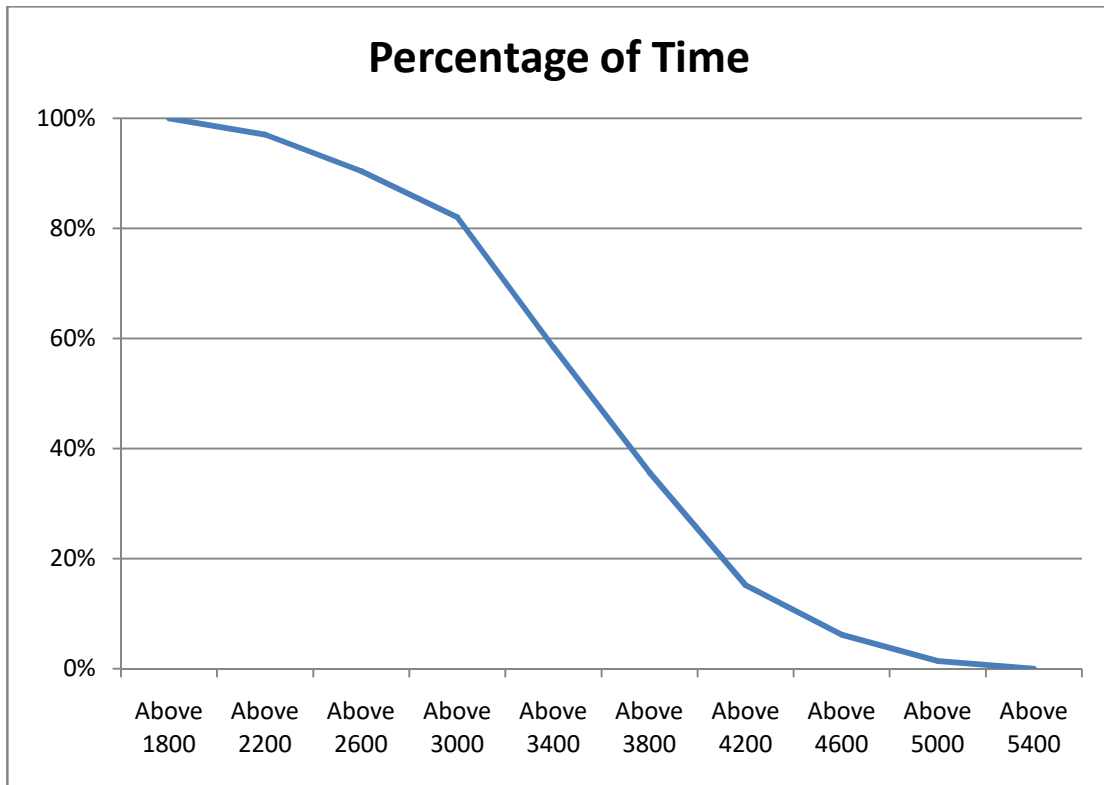
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	4446	0	4446
2.00	4203	0	4203
3.00	3961	0	3961
4.00	3792	0	3792
5.00	3736	0	3736
6.00	3819	0	3819
7.00	3825	0	3825
8.00	3729	0	3729
9.00	3951	0	3951
10.00	4436	0	4436
11.00	4733	0	4733
12.00	4822	0	4822
13.00	4735	0	4735
14.00	4961	0	4961
15.00	5322	0	5322
15.19.51	5422	0	5422
16.00	5324	0	5324
17.00	5152	0	5152
18.00	4916	0	4916
19.00	4730	0	4730
20.00	4787	0	4787
21.00	4777	0	4777
22.00	4972	0	4972
23.00	5119	0	5119
24.00	4981	0	4981
Total (IN MUS)	109.818	0.000	109.818



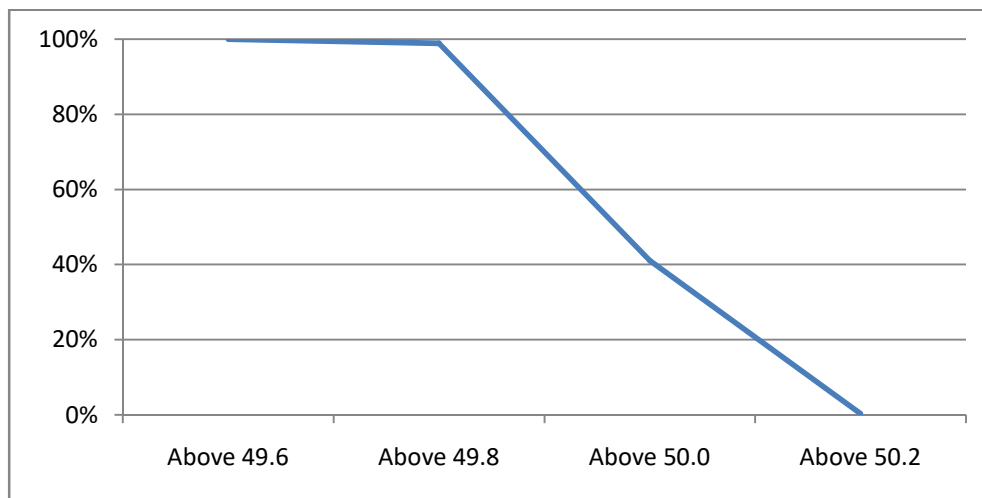
13 LOAD DURATION CURVE FOR APRIL 2023

LOAD REMAINED ABOVE IN MW	(%) OF TIME
Above 1800	100%
Above 2200	97.01%
Above 2600	90.41%
Above 3000	82.01%
Above 3400	58.36%
Above 3800	35.62%
Above 4200	15.21%
Above 4600	6.21%
Above 5000	1.39%
Above 5400	0.00%



14 FREQUENCY ANALYSIS FOR THE MONTH OF APRIL 2023

FREQUENCY REMAINED ABOVE IN HZ	(%) OF TIME
Above 49.6	100%
Above 49.8	98.89%
Above 50.0	41.07%
Above 50.2	0.31%



15 VOLTAGE PROFILE OF 220 KV SUB-STATIONS IN DELHI DURING APRIL 2023

All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
01.04.23	233.41	222.22	235.61	226.41
02.04.23	232.43	222.32	233.56	224.12
03.04.23	231.66	222.41	234.02	225.33
04.04.23	231.28	222.16	233.92	224.72
05.04.23	232.03	221.78	233.48	222.03
06.04.23	231.97	220.46	232.54	222.79
07.04.23	232.44	220.49	232.77	221.75
08.04.23	232.14	219.82	230.99	220.42
09.04.23	231.36	220.87	233.91	224.4
10.04.23	231.79	220.47	231.98	224.07
11.04.23	230.27	220.04	231.88	222.93
12.04.23	230.17	217.67	231.61	218.52
13.04.23	229.61	218.87	230.9	219.14
14.04.23	230.57	219.89	230.91	221.64
15.04.23	229	217.93	229.77	220.63
16.04.23	228.68	219.7	232.26	223.51
17.04.23	226.39	218.51	230.54	221.84
18.04.23	227.45	219.08	231.34	219.8
19.04.23	231.22	217.73	231.51	217.9
20.04.23	228.4	221.26	228.37	220.6
21.04.23	229.58	220.71	229.79	221.17
22.04.23	229.98	220.48	230.07	220.52
23.04.23	232.05	222.54	232.58	221.14
24.04.23	229.17	220.58	228.26	219.16
25.04.23	230.48	220.61	229.46	218.85
26.04.23	229.78	218.79	229.75	0
27.04.23	229.97	218.52	231.68	219.29
28.04.23	230.38	218.8	231.38	219.25
29.04.23	229.2	217.83	233.38	221.45
30.04.23	229.73	221.08	235.83	226.34

16 VOLTAGE PROFILE OF 400 KV SUB-STATIONS IN DELHI DURING APRIL 2023

All figures in kV

Date	400kV Bamnauli Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01.04.23	425.14	3:02:03	407.78	8:35:16	416.89
02.04.23	424.98	16:34:59	410.07	19:09:58	417.83
03.04.23	424.26	2:58:53	402.57	10:45:49	414.17
04.04.23	421.94	4:01:59	404.01	19:31:20	414.01
05.04.23	423.62	1:29:10	404.96	19:26:05	414.09
06.04.23	423	2:59:09	401.1	19:14:14	413.92
07.04.23	424.31	3:58:31	402.92	9:31:49	414.05
08.04.23	422.6	13:02:59	401.94	19:15:14	414.02
09.04.23	422.99	14:01:36	405.21	19:09:11	415.91
10.04.23	425.23	13:01:50	404.58	19:11:08	414.23
11.04.23	422.51	13:28:59	404.95	19:13:07	412.99
12.04.23	423.15	13:03:03	400.05	19:11:45	412.6
13.04.23	421.1	13:02:48	402.15	19:18:15	411.93
14.04.23	422.56	13:07:47	401.9	22:12:12	411.28
15.04.23	419.83	13:29:30	400.88	19:08:50	409.49
16.04.23	421.1	15:09:27	403.49	22:12:20	412.66
17.04.23	417.64	13:21:04	401.53	22:14:19	410.2
18.04.23	415.87	6:02:45	401.95	19:12:27	409.46
19.04.23	420.24	4:56:52	398.59	19:23:54	409.27
20.04.23	415.94	13:03:05	403.67	0:23:53	409.25
21.04.23	418.37	5:01:48	403.9	19:23:26	410.86
22.04.23	419.7	13:05:50	403.74	19:14:31	412.36
23.04.23	421.74	8:59:56	405.92	19:36:26	414.75
24.04.23	419.61	13:19:27	403.22	19:11:25	411.27
25.04.23	420.21	4:02:21	403.39	19:28:09	411.62
26.04.23	418.38	4:33:26	401.79	19:28:18	409.62
27.04.23	418.84	4:02:23	400.86	9:46:10	410.22
28.04.23	419.11	4:04:35	402.25	11:49:02	409.89
29.04.23	420.17	4:02:33	403.52	11:49:28	412.05
30.04.23	423.2	18:02:51	408.48	10:06:48	416.64

All figures in kV

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01.04.23	424.13	3:02:11	408.74	10:31:54	416.38
02.04.23	423.3	4:00:43	407.3	10:37:32	416.04
03.04.23	422.22	2:58:33	403.96	10:47:27	414.21
04.04.23	422.49	4:56:25	405.2	10:18:32	414.73
05.04.23	422.96	1:29:09	404.57	19:31:18	413.9
06.04.23	421.46	2:58:02	402.33	19:14:03	413.69
07.04.23	423.5	3:58:44	403.55	10:22:59	414
08.04.23	422.03	2:59:20	402.29	19:17:12	413.58
09.04.23	421.43	2:57:43	404.99	19:09:13	415.23
10.04.23	419.95	2:57:58	403.39	19:11:32	412.99
11.04.23	420.07	13:29:07	402.02	19:12:21	411.63
12.04.23	417.15	2:41:56	396.8	19:11:27	409.46
13.04.23	416.48	4:32:20	397.63	19:18:20	408.62
14.04.23	416.15	13:07:06	398.17	19:27:39	407.06
15.04.23	414.81	13:29:51	397.64	10:41:20	406.28
16.04.23	416.9	15:18:49	401.71	22:22:34	409.72
17.04.23	412.75	13:03:53	396	19:10:57	405.62
18.04.23	410.61	13:04:01	393.65	19:12:21	402.9
19.04.23	414.66	4:41:40	391.17	19:25:03	402.16
20.04.23	410.76	18:01:35	397.44	8:44:15	404.13
21.04.23	415.41	5:01:55	400.42	19:23:22	407.63
22.04.23	415.62	4:33:51	400.06	19:14:21	408.27
23.04.23	418.29	9:00:00	402.94	19:36:20	411.48
24.04.23	414.23	13:19:24	400.19	19:11:48	408.11
25.04.23	417.78	4:02:30	399.58	19:28:09	408.06
26.04.23	415.71	4:33:23	396.75	11:47:17	405.83
27.04.23	413.28	20:59:03	399.16	12:11:28	409.08
28.04.23	416.81	4:04:33	396.43	11:49:30	406.61
29.04.23	417.54	4:02:34	398.77	11:49:28	409.3
30.04.23	419.93	18:02:31	404.39	10:48:48	414.41

DETAILS OF BREAK-DOWNS/TRIPPING DURING THE MONTH OF APRIL 2023

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
1	01.04.23	21:59	220kV ROHINI-SHALIMARBAGH CKT-I	01.04.23	23:01	AT ROHINI : BREAKER TRIPPED. 86ABC.
2	02.04.23	18:34	220KV GAZIPUR - MAHARANIBAGH CKT. -I	02.04.23	19:49	AT MAHARANI BAGH : DIST PROT, ZONE-I, DIST 6KM
3	03.04.23	4:20	220kV ROHINI-SHALIMARBAGH CKT-I	03.04.23	7:30	AT ROHINI : 86A&B
4	04.04.23	13:48	220kV KANJHAWALA-NAJAFGARH CKT	04.04.23	18:13	AT NAJAFGARH : DIST PROT, ZONE-I, B PHASE DIST 6.8KM. RYB PHASE.
5	05.04.23	15:30	PARKSTREET 220/66kV 100MVA Tx-II	05.04.23	19:04	86, SPR, 30E, 86ABC
6	06.04.23	14:55	220kV MUNDKA-KANJHAWALA CKT	06.04.23	18:46	AT KHANJAWALA : DIST PROT, ZONE-I, R PHASE, DIST 9.9KM.
7	08.04.23	7:36	TRAUMA CENTER 220/33kV 100MVA Tx-II	08.04.23	16:08	86, Y&B PHASE
8	08.04.23	9:37	SUBZI MANDI 33/11kV, 16MVA Tx-I	08.04.23	9:55	DIFFERENTIAL.
9	08.04.23	9:37	SUBZI MANDI 33/11kV, 16MVA Tx-II	08.04.23	9:55	86, DIFFERENTIAL, C PHASE.
10	09.04.23	2:11	PARKSTREET 220/66kV 100MVA Tx-II	15.04.23	15:10	86A&B, HV REF.
11	09.04.23	11:23	220KV BAWANA-SHALIMARBAGH CKT-I	09.04.23	17:37	AT BAWANA : DIST PROT, ZONE-I, DIST 58.64MTS.
12	09.04.23	11:23	220KV SHALIMAR BAGH - DMRC CKT	10.04.23	4:01	AT SHALIMARBAGH : DIST PROT, LBB, SOTF.
13	10.04.23	12:53	220KV GAZIPUR - MAHARANIBAGH CKT. -II	10.04.23	13:12	AT GAZIPUR : 86
14	10.04.23	13:01	220KV MUNDKA-KANJHAWALA CKT	10.04.23	14:59	AT MUNDKA : 86, OV, RYB PHASE.
15	11.04.23	12:33	220kV NARELA - MANDOLA CKT-II	11.04.23	14:22	AT NARELA : DIFFERENTIAL, B PHASE, 86A&B.
16	12.04.23	17:25	400KV BAWANA - MAHARANIBAGH CKT. -II	12.04.23	20:31	AT BAWANA : DIST PROT, ZONE-I, DIST 26.29KM, B&C PHASE.
17	13.04.23	12:29	220KV MEHRAULI - TUGLAKABAD CKT. -II	13.04.23	15:44	AT TUGLAKABAD : DIST PROT, SONE-II, DIST 11.70KM, R PHASE, DIFFERENTIAL.
18	13.04.23	19:22	TUGHLAKABAD 220/66KV 160MVA PR. TR. -I	14.04.23	12:30	GEN TRIP, RYB PHASE, DIFFERENTIAL.
19	15.04.23	12:12	220KV DWARKA - PAPANKALAN-I CKT. -II	15.04.23	17:44	AT DWARKA : DIFFERENTIAL, C PHASE FAULTY, DIST PROT, DIST 1.7KM.
20	15.04.23	11:16	220kV BAMNAULI-NARAINA CKT-I	15.04.23	14:23	AT NAJAFGARH : DIST PROT, ZONE-I, DIST 1.3KM, 86ABC.
21	15.04.23	11:16	220kV BAMNAULI-NAJAFGARH CKT-II	16.04.23	14:23	AT NAJAFGARH : RYB PHSE, DIFFERENTIAL, 86ABC.
22	15.04.23	16:45	MEHRAULI 220/66kV 160MVA Tx-I	15.04.23	17:05	O/C, RY PHASE.
23	15.04.23	16:45	MEHRAULI 220/66kV 100MVA Tx-II	15.04.23	17:05	RYB PHASE, O/C
24	15.04.23	22:38	220kV MUNDKA-KANJHAWALA CKT	16.04.23	10:04	AT KHANJAWALA : DIST PROT ,ZONE-I, C PHASE TRIP, E/F
25	15.04.23	22:55	220KV BAMNAULI - NAJAFGARH CKT. -I	15.04.23	22:57	AT NAJAFGARH :- 86, ABC PHASE.
26	16.04.23	18:18	220kV MEHRAULI - TUGLAKABAD CKT. -II	16.04.23	20:14	AT MEHRAULI : DIFFERENTIAL, RYB PHASE, DIST PROT, ZONE-I, DIST 6.437KM.

SL N O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
27	17.04.23	13:01	220kV BAMNAULI-NAJAFGARH CKT-II	17.04.23	16:30	AT BAMNAULI : DIST PROT, ZONE-I, B PHASE, DIST 4.25KM, 1286AB.
28	18.04.23	14:14	220kV MASJID MOTH - TUGLAKABD CKT. -i	18.04.23	16:50	AT TUGLAKABAD : GRA TRIP, DIFFERENTIAL, RYB PHASE
29	21.04.23	12:02	220kV PRAGATI - I.P.CKT - I	21.04.23	13:35	AT I.P. : TRIPPED WITHOUT INDICATION
30	23.04.23	2:10	SUBZI MANDI 33/11kV, 16MVA Tx-II	23.04.23	16:05	DIFFERENTIAL.
31	26.04.23	22:50	KANJHAWALA 66/11kV, 20MVA Tx-I	27.04.23	3:15	86
32	28.04.23	5:55	OKHLA 220/33kV 100MVA Tx-V	28.04.23	7:45	I/C -V tripped without indication.
33	28.04.23	5:55	OKHLA 220/33kV 100MVA Tx-IV	28.04.23	7:45	I/C-IV tripped, ST-1, O/C, 86.
34	28.04.23	5:55	OKHLA 220/33kV 100MVA Tx-III	28.04.23	14:06	Tr. Tripped on OLTC, OSR, HV LB operated. I/C-III Tripped on O/C, Stage-1, B Phase, 86.
35	28.04.23	9:03	OKHLA 66/11kV, 20MVA Tx-I	28.04.23	9:18	86
36	29.04.23	8:42	OKHLA 66/11kV, 20MVA Tx-I	29.04.23	8:57	O/C, E/F.

18 DETAILS OF UNDER FREQUENCY RELAY OPERATIONS IN DELHI POWER SYSTEM DURING THE MONTH OF APRIL 2023

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