

DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

NOVEMBER 2023

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SALIENT FEATURES OF DELHI POWER SYSTEM

Sr. No.	Features	NOV. 2022	NOV. 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	25
	Total	2181	2181
2	Maximum Unrestricted Demand (MW)	3941	4320
	Date	08.11.22	01.11.23
	Time	18.43.42	12.31.40
3	Peak Demand met (MW)	3941	4320
	Date	08.11.22	01.11.23
	Time	18.43.42	12.31.40
4	Peak Availability (MW)	3694	4148
5	Shortage (-) / Surplus (+) in MW	(-) 247	(-) 172
6	Percentage Shortage (-) / Surplus (+)	(-) 6.27	(-) 3.98
7	Maximum Energy Consume in a day (Mus)	74.247	82.432
8	Energy Consumed during the month	2042.556	2116.068
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	0.000	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	0.000	0.000
B)	Due to Constraints in System in Mus		
	DTL	0.086	0.075
	TPDDL	0.0210	0.006
	BRPL	0.007	0.060
	BYPL	0.000	0.002
	NDMC	0.000	0.000
	MES	0.000	0.000
	Other Agencies	0.000	0.0004
	Total	0.114	0.1434
10	Grand Total in Mus	0.114	0.1434

2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING NOVEMBER 2023

A) For the month of November 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	27.418	1.421	25.997	80.70	25.179
3.	PPCL	0.000	0.057	-0.057	104.80	242.160
4.	Bawana	206.431	8.022	198.409	91.79	547.661
	TOTAL	233.849	9.62	224.229	--	815.000

WASTE TO ENERGY GENERATING PLANTS WITHIN DELHI

S. No	Stations	Gross Generation	Aux. Consumption	Net Generation
5.	Towmcl	15.145	1.881	13.264
6.	EDWPCL	5.618	1.033	4.585
7.	DMSWL	13.633	2.154	11.479
8.	TWEPL	17.633	1.687	15.946
	TOTAL	52.029	6.755	45.274

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

Power Station	Effective Capacity (MW)	Net Generation in MUs for Nov. 2023	Availability (%) for Nov. 2023	Cumulative Generation in MUs upto Nov. 2023 for the year 2023-24	Cumulative Availability in % upto Nov. 2023 for the year 2023-24
RPH	135	-0.120	--	-0.852	--
GT	90	25.997	80.70	169.648	80.55
PPCL	330	-0.057	104.80	639.184	96.88
Bawana	1372	198.409	91.79	1494.147	93.33
TOTAL	1927	224.229	--	2302.127	--

WASTE TO ENERGY GENERATING PLANTS WITHIN DELHI

Power Station	Effective Capacity (MW)	Net Generation in MUs for Nov. 2023	Cumulative Generation in MUs upto Nov. 2023 for the year 2023-24
Towmcl	16	13.264	100.38
EDWPCL	10	4.585	29.291
DMSWL	24	11.479	94.41
TWEPL	25	15.946	130.402
TOTAL	75	45.274	354.483

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

RPH

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	67.5					Not in operation due to not meeting pollution norms.
2	67.5					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	01.11.23	00.00	30.11.23	23.59	GT #1 is standby as there is no demand from SLDC
2	30	NIL				
3	30	NIL				
4	30	NIL				
5	30	NIL				
6	30	11.11.23	10.01	11.11.23	13.51	Unit stopped to replace generator filters as well as air inlet filters of GT # 6
		29.11.23	04.56	29.11.23	14.07	Unit tripped due to TAD high
STG-1	30	NIL				
STG-2	30	NIL				
STG-3	30	11.11.23	02.40	11.11.23	15.46	Unit tripped due to less load on GT # 6 on high TAD
		12.11.23	10.35	12.11.23	12.35	Unit stopped to attend CEP strainer chocking
		29.11.23	04.20	29.11.23	16.02	Unit tripped due to less load on GT # 6 on high TAD

(C) PRAGATI

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	104	01.11.23	00.00	30.11.23	23.59	Stopped due to low demand.
2	104	01.11.23	00.00	30.11.23	23.59	Stopped due to low demand.
STG	122	01.11.23	00.00	30.11.23	23.59	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	NIL				
STG -2	254	NIL				

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		
Dhauri 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		
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		
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 NOVEMBER 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	12.31.40	37	0	273	18	8	16	24	376	3944	3773	171	4320	0	4320
2	18.07.00	38	0	318	18	10	15	12	411	3787	3694	93	4198	0	4198
3	12.23.39	37	0	273	18	7	6	11	352	3879	3795	84	4231	0	4231
4	17.59.35	39	0	320	19	11	8	13	410	3518	3470	48	3928	0	3928
5	11.20.03	38	0	272	19	9	16	13	367	3478	3379	99	3845	0	3845
6	12.32.01	36	0	274	18	8	19	10	365	3709	3509	200	4074	0	4074
7	17.59.16	39	0	295	19	11	18	13	395	3660	3566	94	4055	0	4055
8	11.57.44	38	0	273	19	11	19	21	381	3760	3657	103	4141	0	4141
9	11.04.57	37	0	273	18	10	18	24	381	3686	3588	98	4067	0	4067
10	12.00.18	39	0	272	19	6	19	27	382	3755	3616	139	4137	0	4137
11	11.03.46	0	0	271	18	10	18	25	342	3264	3122	142	3606	0	3606
12	18.17.22	38	0	273	19	10	19	24	383	2685	2753	-68	3068	0	3068
13	10.26.05	38	0	274	18	9	19	24	382	2529	2556	-27	2911	0	2911
14	10.41.28	39	0	274	18	10	18	22	381	2965	2875	90	3346	0	3346
15	10.22.24	39	0	274	19	7	18	20	377	3224	3266	-42	3601	0.4	3601
16	10.53.34	36	0	374	19	6	18	25	478	3233	3132	101	3711	0	3711
17	10.45.13	39	0	274	19	1	18	26	377	3509	3349	160	3886	0	3886
18	10.30.23	39	0	274	19	0	18	26	376	3221	3171	50	3597	0	3597
19	11.17.23	39	0	274	18	7	18	25	381	3112	3084	28	3493	0	3493
20	11.01.33	39	0	273	18	4	18	28	380	3154	3111	43	3534	0	3534
21	11.37.05	39	0	275	19	5	18	24	380	3277	3164	113	3657	0	3657
22	11.00.00	39	0	274	16	7	19	27	382	3341	3300	41	3723	0	3723
23	18.06.36	39	0	321	16	0	17	27	420	3290	3172	118	3710	0	3710
24	11.00.58	39	0	272	16	0	19	27	373	3622	3385	237	3995	0	3995
25	10.33.22	39	0	275	13	7	17	26	377	3364	3226	138	3741	0	3741
26	10.58.10	39	0	274	15	8	17	26	379	3461	3254	207	3840	0	3840
27	10.53.29	39	0	273	18	8	17	25	380	3554	3306	248	3934	0	3934
28	10.57.29	39	0	273	18	7	18	26	381	3444	3369	75	3825	0	3825
29	10.14.13	0	0	245	19	2	17	25	308	3576	3547	29	3884	0	3884
30	10.17.40	38	0	274	19	3	15	27	376	3466	3461	5	3842	0	3842

POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF MAXIMUM UNRESTRICTED DEMAND DURING NOVEMBER 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	12.31.40	37	0	273	18	8	16	24	376	3944	3773	171	4320	0	4320
2	18.07.00	38	0	318	18	10	15	12	411	3787	3694	93	4198	0	4198
3	12.23.39	37	0	273	18	7	6	11	352	3879	3795	84	4231	0	4231
4	17.59.35	39	0	320	19	11	8	13	410	3518	3470	48	3928	0	3928
5	11.20.03	38	0	272	19	9	16	13	367	3478	3379	99	3845	0	3845
6	12.32.01	36	0	274	18	8	19	10	365	3709	3509	200	4074	0	4074
7	17.59.16	39	0	295	19	11	18	13	395	3660	3566	94	4055	0	4055
8	11.57.44	38	0	273	19	11	19	21	381	3760	3657	103	4141	0	4141
9	11.04.57	37	0	273	18	10	18	24	381	3686	3588	98	4067	0	4067
10	12.00.18	39	0	272	19	6	19	27	382	3755	3616	139	4137	0	4137
11	11.03.46	0	0	271	18	10	18	25	342	3264	3122	142	3606	0	3606
12	18.17.22	38	0	273	19	10	19	24	383	2685	2753	-68	3068	0	3068
13	10.26.05	38	0	274	18	9	19	24	382	2529	2556	-27	2911	0	2911
14	10.41.28	39	0	274	18	10	18	22	381	2965	2875	90	3346	0	3346
15	10.22.24	39	0	274	19	7	18	20	377	3224	3266	-42	3601	0.4	3601
16	10.53.34	36	0	374	19	6	18	25	478	3233	3132	101	3711	0	3711
17	10.45.13	39	0	274	19	1	18	26	377	3509	3349	160	3886	0	3886
18	10.30.23	39	0	274	19	0	18	26	376	3221	3171	50	3597	0	3597
19	11.17.23	39	0	274	18	7	18	25	381	3112	3084	28	3493	0	3493
20	11.01.33	39	0	273	18	4	18	28	380	3154	3111	43	3534	0	3534
21	11.37.05	39	0	275	19	5	18	24	380	3277	3164	113	3657	0	3657
22	11.00.00	39	0	274	16	7	19	27	382	3341	3300	41	3723	0	3723
23	18.06.36	39	0	321	16	0	17	27	420	3290	3172	118	3710	0	3710
24	11.00.58	39	0	272	16	0	19	27	373	3622	3385	237	3995	0	3995
25	10.33.22	39	0	275	13	7	17	26	377	3364	3226	138	3741	0	3741
26	10.58.10	39	0	274	15	8	17	26	379	3461	3254	207	3840	0	3840
27	10.53.29	39	0	273	18	8	17	25	380	3554	3306	248	3934	0	3934
28	10.57.29	39	0	273	18	7	18	26	381	3444	3369	75	3825	0	3825
29	10.14.13	0	0	245	19	2	17	25	308	3576	3547	29	3884	0	3884
30	10.17.40	38	0	274	19	3	15	27	376	3466	3461	5	3842	0	3842

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

(ALL FIGURES IN MUS)

GENERATION WITHIN DELHI	AVAILABILITY	SCHEDULE
Rajghat Power House	0.000	0.000
Gas Turbine	51.240	26.061
Pragati-I	242.160	0.000
Pragati-III (Bawana)	705.800	158.139
Rithala	0.000	0.000
Badarpur	0.000	0.000
Renewable (include WTE)	46.430	46.430
TOTAL DELHI GEN.	1045.630	230.630

NAME OF STATION	AVAILABILITY	SCHEDULE
ANTA G-GF	26.810	0.000
ANTA G-LF		0.000
ANTA G-RF		0.000
ANTA CRF		0.000
AURIYA G-GF	48.240	0.000
AURIYA G-LF		0.000
AURIYA G-RF		0.000
AURIYA CRF		0.000
DADRI G -GF	61.410	0.000
DADRI G -LF		0.000
DADRI G -RF		0.000
DADRI CRF		0.000
SINGRAULI STPS	87.560	87.293612
RIHAND STPS	63.140	62.936585
RIHAND-II STPS	82.150	81.157177
RIHAND -III STPS	88.320	88.242162
DADRI-II	244.470	196.152802
UNCHAHAHAR-I TPS	13.780	6.420444
UNCHAHAHAR-II TPS	29.390	20.203022
UNCHAHAHAR-III TPS	18.990	8.671375
UNCHAHAHAR-IV TPS	0.000	0.000
JHAJJAR	222.490	222.485252
MEJA TPS	0.000	0.000
TRANDA-II TPS	0.000	0.000
FARAKA	14.560	11.102547
KAHALGAON-I	32.100	28.094447
KAHALGAON-II	77.500	68.217858
SASAN	296.960	296.949134

NAME OF STATION	AVAILABILITY	SCHEDULE
NABINAGAR STPS (BRBCL)	12.800	13.4976295
BAIRASIUL HEP	1.770	1.772428
SALAL HEP	11.700	11.699191
TANAKPUR HEP	3.610	3.608256
CHAMERA HEP	4.020	4.022517
CHAMERA HEP-II	5.870	5.872833
CHAMERA-III	1.370	1.369289
URI HEP	9.450	9.445024
URI-II HEP	7.930	7.929914
SEWA-II	1.770	1.769489
DHAULIGANGA HEP	4.440	4.444256
DULHASTI HEP	15.330	15.332156
PARVATI-III	2.160	2.164251
NATHPA JHAKRI HEP	25.760	25.758433
TEHRI HEP	15.310	15.3094454
KOTESWAR	7.970	7.9672894
SINGRAULI SHEP	0.420	0.4198316
TALA	0.110	0.108413
KISHAN GANGA	0.000	0.000
KOLDAM	0.000	0.000
RAMPUR	0.000	0.000
NAPP	2.650	2.650741
RAPP C	34.470	34.467030
RAPPPB-4 C	0.000	0.000
KUDGI STPS-I	60.640	60.636
Total	1637.420	1408.171
LTA	767.29	767.29
Short Term (Purchase)	192.29	192.29
Short Term (Sale)		-469.000875
TOTAL AVAILABILITY	3642.630	2129.380

8. SHEDDING DETAILS DURING THE MONTH OF NOVEMBER 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
01.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
02.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
03.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
04.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
05.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
06.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
07.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
09.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29.11.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.11.23	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
01.11.23	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
02.11.23	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
03.11.23	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
04.11.23	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
05.11.23	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
06.11.23	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
07.11.23	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
08.11.23	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
09.11.23	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
10.11.23	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
11.11.23	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
12.11.23	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
13.11.23	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
14.11.23	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
15.11.23	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
16.11.23	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
17.11.23	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
18.11.23	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
19.11.23	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
20.11.23	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
21.11.23	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
22.11.23	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
23.11.23	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
24.11.23	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
25.11.23	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
26.11.23	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
27.11.23	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
28.11.23	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
29.11.23	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
30.11.23	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
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
01.11.23	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000
02.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
03.11.23	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
04.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.000	0.000
05.11.23	0.000	0.002	0.000	0.000	0.000	0.000	0.004	0.000	0.000
06.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
07.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.000	0.000
08.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
09.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.11.23	0.004	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11.11.23	0.000	0.001	0.003	0.000	0.000	0.000	0.000	0.000	0.000
12.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.000	0.000
13.11.23	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.11.23	0.000	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
17.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18.11.23	0.000	0.003	0.000	0.000	0.000	0.000	0.004	0.000	0.000
19.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.11.23	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21.11.23	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
23.11.23	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
25.11.23	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.000	0.000
27.11.23	0.001	0.000	0.000	0.000	0.000	0.000	0.006	0.003	0.000
28.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000
29.11.23	0.000	0.000	0.021	0.000	0.000	0.002	0.003	0.001	0.000
30.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.008	0.041	0.026	0.000	0.000	0.002	0.060	0.006	0.000

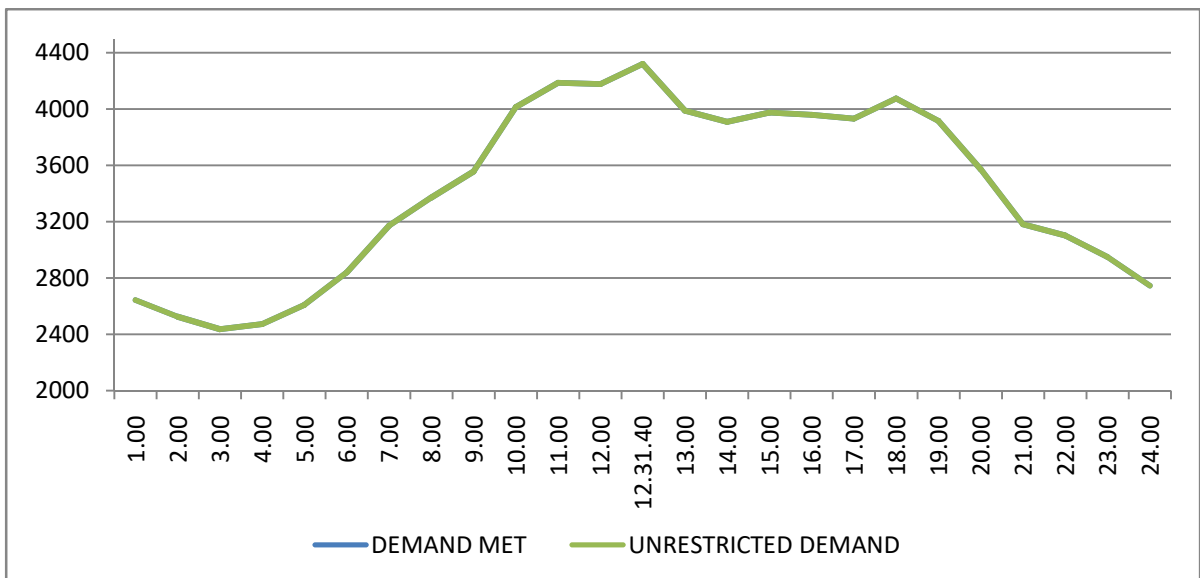
DATE	OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.				THEFT PRONE SHEDDING			TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE	GRAND TOTAL
	BSES		TPDDL	NDMC	BSES		TPDDL		
	BYPL	BRPL			BYPL	BRPL			
1	35	36	37	38	39	40	41	42= 26 to 41	43 = 25 + 42
01.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002
02.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
03.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002
04.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.017
05.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.006
06.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
07.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.006
08.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
09.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.012
11.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.004
12.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.006
13.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.005
14.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.016
16.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001
17.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18.11.23	0.000	0.000	0.0004	0.000	0.000	0.000	0.000	0.006	0.006
19.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.003
21.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002
22.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001
23.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001
24.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001
25.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002
26.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.004
27.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010
28.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.007
29.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.027	0.027
30.11.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.000	0.000	0.0004	0.000	0.000	0.000	0.000	0.1434	0.1434

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
01.11.23	82.432	4320	12:31:40	0	4320	4320	12:31:40	4320	0
02.11.23	81.036	4199	18:07:00	0	4199	4199	18:07:00	4199	0
03.11.23	81.821	4231	12:23:39	0	4231	4231	12:23:39	4231	0
04.11.23	77.801	3928	17:59:35	0	3928	3928	17:59:35	3928	0
05.11.23	77.823	3845	11:20:03	0	3845	3845	11:20:03	3845	0
06.11.23	76.721	4074	12:32:01	0	4074	4074	12:32:01	4074	0
07.11.23	77.619	4055	17:59:16	0	4055	4055	17:59:16	4055	0
08.11.23	79.264	4141	11:57:44	0	4141	4141	11:57:44	4141	0
09.11.23	78.853	4067	11:04:57	0	4067	4067	11:04:57	4067	0
10.11.23	77.993	4136	12:00:18	0	4136	4136	12:00:18	4136	0
11.11.23	67.793	3606	11:03:46	0	3606	3606	11:03:46	3606	0
12.11.23	59.924	3060	18:17:22	0	3060	3060	18:17:22	3060	0
13.11.23	59.351	2911	10:26:05	0	2911	2911	10:26:05	2911	0
14.11.23	59.476	3345	10:41:28	0	3345	3345	10:41:28	3345	0
15.11.23	64.312	3601	10:22:24	0.4	3601.4	3601.4	10:22:24	3601	0.4
16.11.23	68.123	3611	10:53:34	0	3611	3611	10:53:34	3611	0
17.11.23	68.931	3886	10:45:13	0	3886	3886	10:45:13	3886	0
18.11.23	66.69	3597	10:30:23	0	3597	3597	10:30:23	3597	0
19.11.23	63.051	3493	11:17:23	0	3493	3493	11:17:23	3493	0
20.11.23	65.554	3534	11:01:33	0	3534	3534	11:01:33	3534	0
21.11.23	68.357	3657	11:37:05	0	3657	3657	11:37:05	3657	0
22.11.23	69.436	3723	11:00:00	0	3723	3723	11:00:00	3723	0
23.11.23	68.573	3710	18:06:36	0	3710	3710	18:06:36	3710	0
24.11.23	70.65	3995	11:00:58	0	3995	3995	11:00:58	3995	0
25.11.23	66.443	3741	10:33:22	0	3741	3741	10:33:22	3741	0
26.11.23	64.002	3839	10:58:10	0	3839	3839	10:58:10	3839	0
27.11.23	65.617	3934	10:53:29	0	3934	3934	10:53:29	3934	0
28.11.23	68.563	3825	10:57:29	0	3825	3825	10:57:29	3825	0
29.11.23	70.341	3884	10:14:13	0	3884	3884	10:14:13	3884	0
30.11.23	69.432	3842	10:17:40	0	3842	3842	10:17:40	3842	0
TOTAL	2115.982	4320	12.31.40						
		01.11.23							

9. **LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING NOVEMBER 2023 ON 01.11.2023 - 4320MW AT 12.31.40HRS.**

All figures in MW

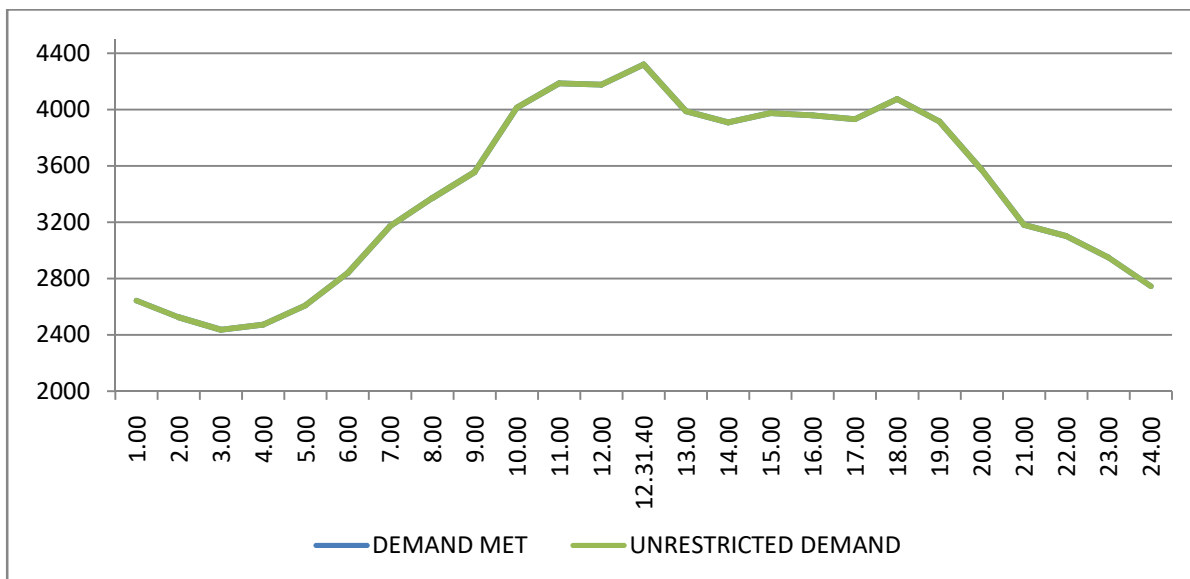
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	2642	0	2642
2.00	2526	0	2526
3.00	2437	0	2437
4.00	2472	0	2472
5.00	2610	0	2610
6.00	2839	0	2839
7.00	3169	0	3169
8.00	3370	0	3370
9.00	3557	0	3557
10.00	4013	0	4013
11.00	4185	0	4185
12.00	4177	0	4177
12.31.40	4320	0	4320
13.00	3988	0	3988
14.00	3908	0	3908
15.00	3974	0	3974
16.00	3958	0	3958
17.00	3932	0	3932
18.00	4073	0	4073
19.00	3914	0	3914
20.00	3573	0	3573
21.00	3182	0	3182
22.00	3103	0	3103
23.00	2950	0	2950
24.00	2746	0	2746
Total (IN MUS)	82.432	0.0020	82.434



10 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING NOVEMBER 2023 ON 01.11.2023-4320MW AT 12.31.40HRS.

All figures in MW

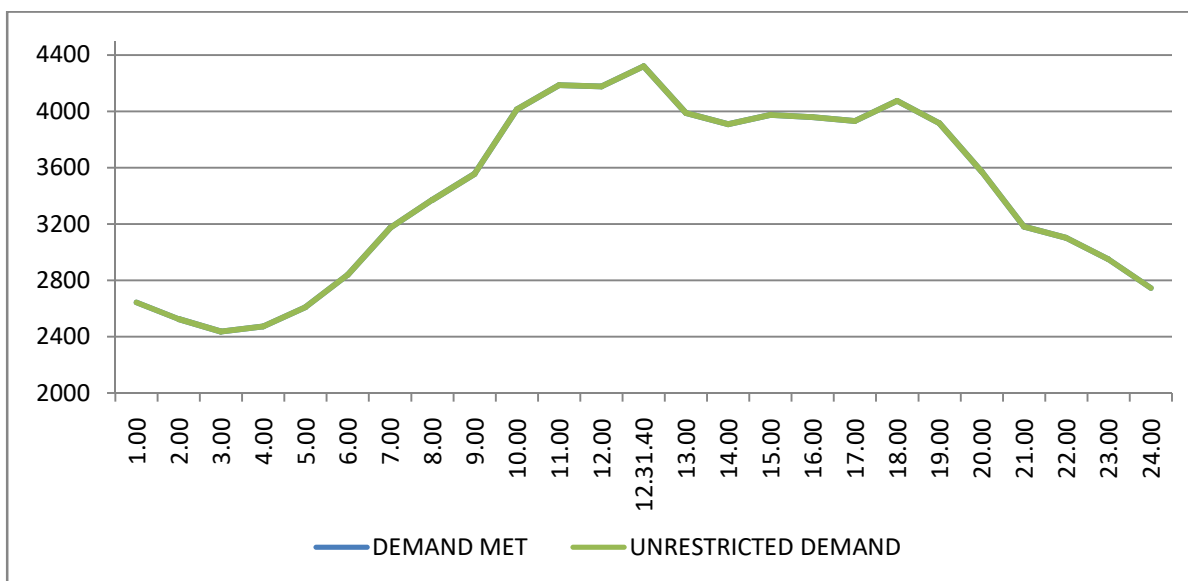
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	2642	0	2642
2.00	2526	0	2526
3.00	2437	0	2437
4.00	2472	0	2472
5.00	2610	0	2610
6.00	2839	0	2839
7.00	3169	0	3169
8.00	3370	0	3370
9.00	3557	0	3557
10.00	4013	0	4013
11.00	4185	0	4185
12.00	4177	0	4177
12.31.40	4320	0	4320
13.00	3988	0	3988
14.00	3908	0	3908
15.00	3974	0	3974
16.00	3958	0	3958
17.00	3932	0	3932
18.00	4073	0	4073
19.00	3914	0	3914
20.00	3573	0	3573
21.00	3182	0	3182
22.00	3103	0	3103
23.00	2950	0	2950
24.00	2746	0	2746
Total (IN MUS)	82.432	0.0020	82.434



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING NOVEMBER 2023 – 01.11.2023 – 82.432Mus

All figures in MW

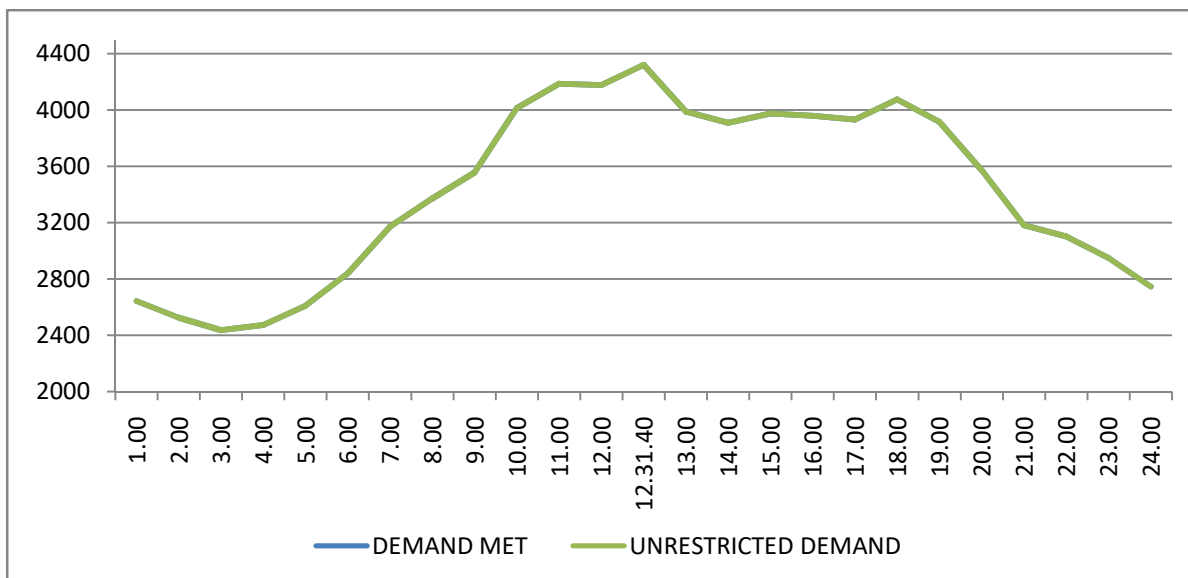
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	2642	0	2642
2.00	2526	0	2526
3.00	2437	0	2437
4.00	2472	0	2472
5.00	2610	0	2610
6.00	2839	0	2839
7.00	3169	0	3169
8.00	3370	0	3370
9.00	3557	0	3557
10.00	4013	0	4013
11.00	4185	0	4185
12.00	4177	0	4177
12.31.40	4320	0	4320
13.00	3988	0	3988
14.00	3908	0	3908
15.00	3974	0	3974
16.00	3958	0	3958
17.00	3932	0	3932
18.00	4073	0	4073
19.00	3914	0	3914
20.00	3573	0	3573
21.00	3182	0	3182
22.00	3103	0	3103
23.00	2950	0	2950
24.00	2746	0	2746
Total (IN MUS)	82.432	0.0020	82.434



12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING NOVEMBER ON 01.11.2023- 82.434MUs

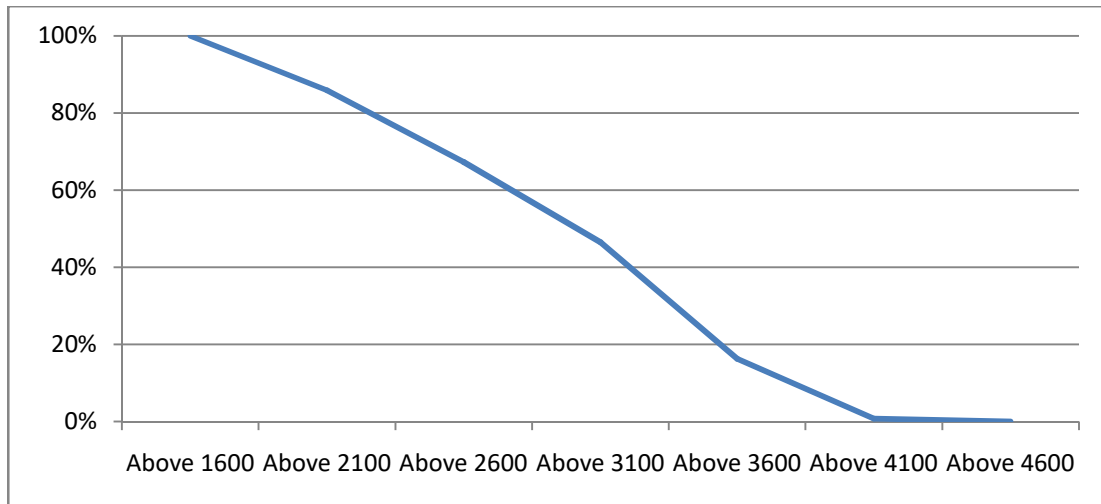
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	2642	0	2642
2.00	2526	0	2526
3.00	2437	0	2437
4.00	2472	0	2472
5.00	2610	0	2610
6.00	2839	0	2839
7.00	3169	0	3169
8.00	3370	0	3370
9.00	3557	0	3557
10.00	4013	0	4013
11.00	4185	0	4185
12.00	4177	0	4177
12.31.40	4320	0	4320
13.00	3988	0	3988
14.00	3908	0	3908
15.00	3974	0	3974
16.00	3958	0	3958
17.00	3932	0	3932
18.00	4073	0	4073
19.00	3914	0	3914
20.00	3573	0	3573
21.00	3182	0	3182
22.00	3103	0	3103
23.00	2950	0	2950
24.00	2746	0	2746
Total (IN MUS)	82.432	0.0020	82.434



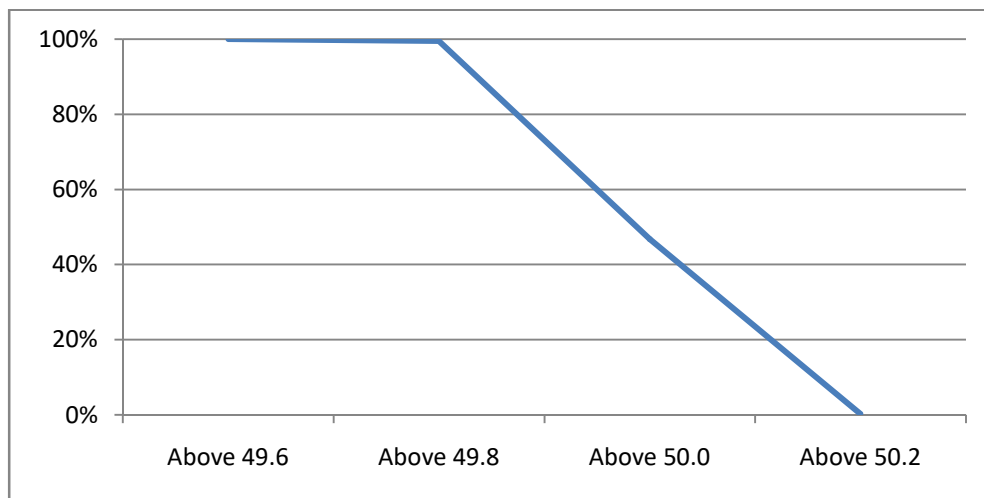
13 LOAD DURATION CURVE FOR NOVEMBER 2023

LOAD REMAINED ABOVE IN MW	(%) OF TIME
Above 1600	100%
Above 2100	85.83%
Above 2600	67.29%
Above 3100	46.46%
Above 3600	16.28%
Above 4100	0.76%
Above 4600	0.00%



14 FREQUENCY ANALYSIS FOR THE MONTH OF NOVEMBER 2023

FREQUENCY REMAINED ABOVE IN HZ	(%) OF TIME
Above 49.6	100%
Above 49.8	99.43%
Above 50.0	46.76%
Above 50.2	0.21%



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

All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
01.11.23	231.00	219.59	239.24	226.93
02.11.23	231.80	218.85	241.62	225.07
03.11.23	231.04	217.48	240.43	225.79
04.11.23	232.16	219.21	241.61	227.62
05.11.23	233.04	220.34	240.32	227.02
06.11.23	232.82	214.81	239.76	224.99
07.11.23	231.53	218.21	239.68	225.28
08.11.23	229.93	217.48	237.43	225.33
09.11.23	231.24	218.92	240.17	226.22
10.11.23	231.36	218.63	241.61	225.17
11.11.23	231.60	220.99	239.44	228.43
12.11.23	232.25	224.50	239.22	232.25
13.11.23	233.94	223.22	239.87	226.93
14.11.23	233.09	222.45	238.90	227.83
15.11.23	233.33	219.43	240.75	226.67
16.11.23	231.40	220.52	237.97	227.36
17.11.23	233.51	216.98	240.59	224.08
18.11.23	232.35	218.00	238.79	225.67
19.11.23	231.90	220.01	238.62	226.97
20.11.23	231.51	217.59	238.25	223.92
21.11.23	228.83	218.38	236.87	224.59
22.11.23	231.42	218.73	236.81	225.70
23.11.23	232.69	218.84	237.81	224.41
24.11.23	231.26	218.37	234.55	225.33
25.11.23	231.74	218.44	237.99	228.08
26.11.23	231.27	216.98	239.81	222.97
27.11.23	231.50	217.28	236.37	223.97
28.11.23	232.73	217.89	237.57	222.08
29.11.23	231.18	217.53	237.42	224.24
30.11.23	230.78	219.69	238.19	225.82

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

All figures in kV

Date	400kV Bamnauli Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01.11.23	421.58	2:00:32	402.6	9:25:56	412.03
02.11.23	421.91	4:01:08	398.88	11:50:43	410.71
03.11.23	421.54	4:01:15	398.59	10:14:45	411.23
04.11.23	422.7	4:02:29	400.03	9:21:36	411.55
05.11.23	423.69	4:02:39	401.51	11:49:05	413.14
06.11.23	423.39	4:00:43	400.46	9:51:43	410.6
07.11.23	420.41	4:00:50	399.5	9:32:18	410.41
08.11.23	419.48	4:00:56	397.72	9:18:04	410.36
09.11.23	421.39	4:02:03	399.49	9:42:48	410.55
10.11.23	422.75	3:58:51	398.65	9:48:21	413.79
11.11.23	423.34	3:59:35	404.24	9:43:16	413.91
12.11.23	423.38	16:01:47	409.21	5:23:13	415.78
13.11.23	424.18	4:00:26	406.72	18:08:23	415.94
14.11.23	423.22	4:01:35	405.08	11:21:15	414.86
15.11.23	424.17	4:01:49	401.48	9:20:17	414.34
16.11.23	420.85	23:59:53	403.26	11:40:32	413.05
17.11.23	424.75	4:02:42	398.29	10:22:23	412.66
18.11.23	422.47	4:00:28	398	9:47:58	412.46
19.11.23	422.3	19:28:02	402.39	9:33:15	414.22
20.11.23	424.94	21:24:50	0	9:11:47	236.78
21.11.23	416.33	0:00:00	400.17	11:27:57	412.79
22.11.23	416.87	19:44:11	401.06	11:50:28	411.18
23.11.23	418.9	1:31:05	415.02	21:32:07	417.85
24.11.23	418.58	20:00:03	402.4	12:25:22	413.55
25.11.23	422.24	4:01:43	399.13	9:16:33	412.15
26.11.23	420.85	4:00:16	396.3	10:14:56	413.93
27.11.23	420.39	0:03:17	396.43	9:32:14	412.06
28.11.23	422.69	4:01:29	398.13	9:22:50	413.3
29.11.23	422.34	0:00:38	397.05	9:19:16	411.98
30.11.23	422.82	4:01:52	402.68	9:47:09	413.33

All figures in kV

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01.11.23	420.88	2:00:32	399.17	11:36:29	411.55
02.11.23	422.03	4:01:03	397.61	11:51:06	410.63
03.11.23	421.45	4:01:13	396.42	10:14:27	410.85
04.11.23	422.72	4:01:19	398.85	10:13:00	411.4
05.11.23	423.58	4:02:51	399.64	12:07:22	413.2
06.11.23	423.64	4:00:38	400.21	10:27:53	411.79
07.11.23	421.13	4:00:47	398.85	10:48:15	410.82
08.11.23	420.26	4:01:04	399.32	10:08:28	411.33
09.11.23	422.67	4:02:07	400.71	11:43:48	411.69
10.11.23	422.78	3:30:43	400.22	9:45:05	414.66
11.11.23	423.49	3:55:09	406.09	11:52:56	414.87
12.11.23	423.08	16:02:12	408.92	10:36:07	416.64
13.11.23	426.07	4:00:43	407.2	18:10:11	416.69
14.11.23	423.43	4:01:25	404.87	11:21:36	415.79
15.11.23	426.51	4:01:54	402.83	10:11:25	415.88
16.11.23	422.2	23:59:36	404.32	11:46:39	414.3
17.11.23	425.39	4:03:01	398.42	10:22:12	413.86
18.11.23	423.31	4:00:28	400.36	9:47:58	413.8
19.11.23	421.68	2:00:09	403.77	10:12:17	415.14
20.11.23	421.89	21:25:13	396.66	10:45:32	411.78
21.11.23	417.26	21:59:05	398.92	11:27:59	412.15
22.11.23	418.67	4:00:25	399.19	11:49:01	411.08
23.11.23	422.47	4:01:15	399.04	10:54:09	411.74
24.11.23	419.22	3:58:38	397.38	12:25:10	411.77
25.11.23	420.5	4:01:41	400.1	9:16:19	411.25
26.11.23	419.38	4:00:22	398.27	10:14:53	413.37
27.11.23	418.57	19:52:49	398.46	9:32:54	411.77
28.11.23	421.45	4:02:26	398.97	9:22:54	412.51
29.11.23	419.49	0:00:36	398.42	9:17:49	409.77
30.11.23	418.79	4:01:53	401.28	9:47:12	410.93

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

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
1	01.11.23	10:21	220kV PRAGATI - SARITA VIHAR CKT - I	01.11.23	12:29	AT SARITA VIHAR : DIST PROT, ZONE-I, DIST 3.8KM, 86ABC, 186A&B AT PRAGATI : DIST PROT, ZONE-II, DIST 11.61KM.
2	01.11.23	17:39	GOPALPUR 220/66kV 160MVA Tx	01.11.23	20:41	O/C, E/F, 86.
3	01.11.23	22:56	GOPALPUR 220/66kV 160MVA Tx	01.11.23	23:10	O/C, E/F, 86.
4	02.11.23	0:47	PARKSTREET 220/33kV 100MVA Tx-II	02.11.23	1:09	R PHASE BUS FLASH.
5	02.11.23	9:30	OKHLA 66/11kV, 20MVA Tx-II	02.11.23	9:44	DIFFERENTIAL, RY PHASE, LV REF, 86
6	03.11.23	5:46	PATPARGANJ 33/11kV, 20MVA Tx	03.11.23	6:50	DIFFERENTIAL, 86, OSR
	05.11.23	11:28	220KV PAPAN KALAN-I - DWARKA CKT. -II	STILL	OUT	AT PAPAN KALAN-I : DIFFERENTIAL, R PHASE.
7	06.11.23	4:10	RAJGHAT 220/33kV 100MVA Tx-I	06.11.23	5:44	R PHASE, 86, B PHASE TRIP, 186A&B
8	06.11.23	12:04	PARKSTREET 66/33kV, 30MVA Tx-II	06.11.23	14:24	BUCHOLZ, 30ABC.
9	08.11.23	11:20	220kV GOPALPUR- MANDOLACKT-II	08.11.23	15:05	AT GOPALPUR : DIST PROT, DIST 19.7KM, B PHASE, 86.
10	10.11.23	3:12	GAZIPUR 220/66kV 100MVA Tx-I	10.11.23	3:31	I/C TRIPPED ON NO INDICATION.
11	10.11.23	3:12	GAZIPUR 220/66kV 160MVA Tx-I	10.11.23	8:55	O/C, RYB PHASE, E/F, GEN TRIP.
12	10.11.23	3:12	GAZIPUR 220/66kV 100MVA Tx-II	10.11.23	4:21	O/C, R&B PHASE.
13	10.11.23	13:10	OKHLA 66/11kV, 20MVA Tx-II	10.11.23	17:45	O/C, RYB PHASE.
14	11.11.23	1:03	220KV BAWANA- ROHINI CKT-I	11.11.23	6:50	AT BAWANA : DIST PROT, ZONE-I, DIST 9.2KM.
15	11.11.23	1:31	220KV WAZIRABAD - MANDOLA CKT-I	11.11.23	11:06	AT WAZIRABAD : DIST PROT, ZONE-I, DSIT 7.92KM.
16	11.11.23	4:09	MEHRAULI 66/11kV, 20MVA Tx-II	11.11.23	16:06	86
	11.11.23	21:47	220KV MEHRAULI - TUGALAKABD CKT. -I	11.11.23	11:05	AT MEHRAULI : DIST PROT, ZONE-I, B PHASE, DIST 4.5KM, DIFFERENTIAL, RYB PHASE. AT TUGLAKABAD : DIST PROT, ZONE-II, DSIT 11.5KM, DIFFERENTIAL B PHASE.
17	12.11.23	0:36	TUGHLAKABAD 220/66kV 160MVA PR. TR. -I	12.11.23	3:23	RYB PHASE, DIFFERENTIAL.
18	12.11.23	13:38	INDRAPRASTHA POWER 220/33kV 100MVA Tx-I	12.11.23	19:20	DIFFERENTIAL, RYB PHASE.
	13.11.23	1:59	220KV TUGLAKABAD - MASJID MOTH CKT. -I	13.11.23	7:25	AT TUGLAKABAD : RYB PHASE, DIST PROT, DIST 0KM.
19	13.11.23	2:22	220kV VASANT KUNJ - R.K.PURAM CKT.-I	13.11.23	7:37	AT R.K.PURAM : DIST PROT, ZONE-I&II, R&B PHASE, 86AB
20	13.11.23	4:25	VASANT KUNJ 66/11kV, 20MVA Tx-II	13.11.23	17:57	O/C, RYB PHASE, 86.
21	15.11.23	1:46	220kV BAMNAULI-PAPAN KALAN-II CKT-II	15.11.23	1:40	AT BAMNAULI : B PHASE, DIFFERENTIAL, 86ABC, 186A&B
22	15.11.23	4:00	220kV VASANT KUNJ - R.K.PURAM CKT.-I	15.11.23	4:07	AT VASANT KUNJ : DIST PROT, GROUP AB, 86
23	15.11.23	14:25	PAPAN KALAN-I 220/66kV 100MVA Tx-III	15.11.23	14:52	O/C, B PHASE, E/F
24	15.11.23	14:25	PAPAN KALAN-I 220/66kV 100MVA Tx-I	15.11.23	17:15	E/F, B PHASE.
25	15.11.23	14:25	PAPAN KALAN-I 220/66kV 100MVA Tx-II	15.11.23	14:49	O/C, E/F., B PHASE.
26	18.11.23	19:52	220kV MEHRAULI - VASANT KUNJ CKT.- II	20.11.23	11:01	AT VASANT KUNJ : E/F, RYB PHASE.
27	20.11.23	5:35	OKHLA 66/11kV, 20MVA Tx-II	20.11.23	12:10	O/C, RYB PHASE.
28	20.11.23	9:06	LODHI RD 220/33kV 100MVA TR. - III	21.11.23	16:13	86A&B.

SL N O	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
29	21.11.23	2:40	PARKSTREET 220/33kV 100MVA Tx-I	21.11.23	18:50	DIFFERENTIAL, RYB PHASE.
30	21.11.23	7:10	220kV KHANJHAWALA- NAJAFGARH CKT	23.11.23	11:33	AT KHANJAWALA : DIST PROT, ZONE-II, Y PHASE.
31	23.11.23	1:10	INDRAPRASTHA POWER 220/33kV 100MVA Tx-I	23.11.23	5:00	DC SUPPLY FAIL.
32	23.11.23	7:35	DSIIDC Bawana 220/66kV 100MVA Tx-II	23.11.23	11:14	86, BUCHOLZ, 30A&B.
33	23.11.23	12:30	VASANT KUNJ 220/66kV 160MVA Tx-I	25.11.23	12:50	ANY TRIP.
34	25.11.23	8:35	GAZIPUR 220/66kV 160MVA Tx-I	25.11.23	12:11	I/C TRIPPED ON GEN TIP, RYB PHASE, O/C, E/F.
35	25.11.23	8:35	GAZIPUR 220/66kV 100MVA Tx-II	27.11.23	9:10	I/C TRIPPED WITHOUT INDICATION.
36	27.11.23	12:20	RAJGHAT 220/33kV 100MVA Tx-I	29.11.23	12:55	186A&B,
37	29.11.23	4:59	220kV GOPALPUR- MANDOLACKT-I	29.11.23	6:10	AT GOPALPUR : DIST PROT, ZONE-I, B PHASE, 86.
38	29.11.23	5:56	220kV BAWANA - KHANJHAWALA CKT - 1	29.11.23	6:49	AT KHANJAWALA : Y PHASE, DIFFERENTIAL, 86.
39	29.11.23	5:56	220kV BAWANA - KHANJHAWALA CKT-2	29.11.23	10:53	AT KHANJAWALA : Y PHASE, DIFFERENTIAL, 86, DIST PROT, DIST 14.26KM.
40	29.11.23	5:56	220kV MUNDKA-KHANJHAWALA CKT	29.11.23	12:10	AT KHANJAWALA : DIST PROT, Y PHASE, 86.
41	29.11.23	15:06	220KV BAWANA-SHALIMARBAGH CKT-I	29.11.23	16:13	AT SHALIMARBAGH : RYB DIFFERENTIAL, 86.

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

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