DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

****

DECEMBER 2023

1 SALIENT FEATURES OF DELHI POWER SYSTEM

Sr. No.	Features	DEC. 2022	DEC. 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 Energ Plant)	16	16
	EDWPCL (Waste to Energ Plant)	10	10
	DMSWL (Waste to Energ Plant)	24	24
	TWEPL	25	25
	Total	**2181**	**2181**
2	**Maximum Unrestricted Demand (MW)**	**4965**	**4886**
	Date	25.12.22	29.12.23
	Time	10.27.36	10.43.50
3	**Peak Demand met (MW)**	**4965**	**4884**
	Date	25.12.22	29.12.23
	Time	10.27.36	10.43.50
4	Peak Availability (MW)	4933	4735
5	Shortage (-) / Surplus (+) in MW	(-) 32	(-) 149
6	Percentage Shortage (-) / Surplus (+)	(-) 0.64	(-) 3.05
7	Maximum Energy Consume in a day (Mus)	81.248	80.676
8	Energy Consumed during the month	**2184.903**	**2227.244**
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	0.00	0.00
	BRPL	0.00	0.00
	BYPL	0.00	0.00
	NDMC	0.00	0.00
	MES	0.00	0.00
iv)	Due to transmission Constraints in Central Sector	0.00	0.00
	Total due to Grid Restriction	**0.000**	**0.000**
B)	Due to Constraints in System in Mus		
	DTL	0.2246	0.233
	TPDDL	0.8004	0.019
	BRPL	0.0153	0.038
	BYPL	0.000	0.007
	NDMC	0.000	0.000
	MES	0.000	0.000
	Other Agencies	0.0011	0.001
	Total	**1.0414**	**0.299**
10	**Grand Total in Mus**	**1.0414**	**0.299**

2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING DECEMBER 2023

A) For the month of December 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	0.124	-0.124	--	--
2.	GT	28.212	1.418	26.794	80.39	25.999
3.	PPCL	2.683	0.083	2.600	103.34	243.605
4.	Bawana	230.847	8.013	222.834	100.01	612.276
	TOTAL	**261.742**	**9.638**	**252.104**	--	**881.88**

WASTE TO ENERGY GENERATING PLANTS WITHIN DELHI

S. No	Stations	Gross Generation	Aux. Consumption	Net Generation
5.	Towmcl	14.363	1.862	12.501
6.	EDWPCL	5.876	0.931	4.945
7.	DMSWL	14.795	2.221	12.573
8.	TWEPL	20.392	1.905	18.487
	TOTAL	**55.426**	**6.919**	**48.506**

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

Power Station	Effective Capacity (MW)	Net Generation in MUs for Dec. 2023	Availability (%) for Dec. 2023	Cumulative Generation in MUs upto Dec. 2023 for the year 2023-24	Cumulative Availability in % upto Dec. 2023 for the year 2023-24
RPH	135	-0.124	--	-0.976	--
GT	90	26.794	80.39	196.442	84.97
PPCL	330	2.600	103.34	641.784	97.60
Bawana	1372	222.834	100.01	1716.981	94.08
TOTAL	1927	**252.104**	--	**2554.231**	--

WASTE TO ENERGY GENERATING PLANTS WITHIN DELHI

Power Station	Effective Capacity (MW)	Net Generation in MUs for Dec. 2023	Cumulative Generation in MUs upto Dec. 2023 for the year 2023-24
Towmcl	16	12.501	112.881
EDWPCL	10	4.945	34.236
DMSWL	24	12.573	106.983
TWEPL	25	18.487	148.889
TOTAL	**75**	**48.506**	**402.989**

3 DETAILS OF OUTAGES OF GENERATING STNS. WITHIN DELHI FOR DECEMBER 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	01.12.23	00.00	31.12.23	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	27.12.23	04.05	27.12.23	14.42	GT # 6 tripped suddenly with TAD high
STG-1	30	NIL				
STG-2	30	NIL				
STG-3	30	07.12.23	22.25	09.12.23	17.24	Tripped with alarm Gen.Tran.over flux ST-1 relay operated & Gen. Prot. VT fuse failure.
		27.12.23	04.05	27.12.23	17.07	STG#3 stopped because GT#6 tripped suddenly with TAD high

(C) PRAGATI

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	104	01.12.23	00.00	22.12.23	14.15	Stopped due to low demand
		22.12.23	14.38	22.12.23	16.43	Tripped on Internal Fault
		23.12.23	00.00	23.12.23	16.30	Stopped due to low demand
		23.12.23	19.30	24.12.23	16.35	Stopped due to low demand
		24.12.23	19.30	31.12.23	23.59	Stopped due to low demand
2	104	01.12.23	00.00	13.12.23	17.15	Stopped due to low demand
		13.12.23	19.30	21.12.23	23.59	Stopped due to low demand
		22.12.23	15.49	23.12.23	18.10	Tripped on Internal Fault
		23.12.23	18.10	26.12.23	16.46	Stopped due to low demand
		26.12.23	19.36	31.12.23	23.59	Stopped due to low demand
STG	122	01.12.23	00.00	31.12.23	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	25.12.23	07.50	25.12.23	12.30	GT#1 tripped due to high filter DP
2	216	26.12.23	15.41	26.12.23	16.26	Due to stucking of part of carbon brush holder between slip ring and holder base at exciter of GT#2
3	216	NIL				
4	216	NIL				
STG -1	254	25.12.23	07.50	25.12.23	12.30	Due to above outage of GT#1.
		26.12.23	15.41	26.12.23	16.41	Due to above outage of GT#2
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 DECEMBER 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	EDWPCL	DMSWL	TWEPL	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	10.44.47	38	0	275	18	8	15	27	381	3642	3595	47	4023	0	4023
2	10.45.23	39	0	275	15	8	8	21	365	3360	3350	10	3725	0	3725
3	11.30.45	38	0	274	18	1	7	27	365	3473	3363	110	3838	0	3838
4	10.30.25	38	0	274	17	4	18	9	361	3474	3435	39	3835	0	3835
5	10.01.42	39	0	274	19	5	19	0	356	3480	3432	48	3836	0	3836
6	10.10.19	38	0	273	13	5	19	25	373	3514	3585	-71	3887	0	3887
7	10.02.47	39	0	274	12	7	18	24	374	3496	3482	14	3870	0	3870
8	10.43.45	29	0	273	12	8	18	28	369	3701	3671	30	4070	0	4070
9	10.15.13	30	0	273	13	8	19	26	368	3506	3435	71	3874	0	3874
10	10.37.22	35	0	272	16	6	17	25	371	3569	3552	17	3940	0	3940
11	10.34.17	39	0	274	19	3	18	27	380	3566	3597	-31	3946	0	3946
12	09.45.39	38	0	321	19	7	19	24	429	3579	3627	-48	4008	0	4008
13	10.04.23	50	0	273	19	10	19	24	395	3722	3698	24	4117	0	4117
14	10.33.06	39	0	275	19	10	0	26	369	3461	3610	-149	3830	0	3830
15	10.34.15	38	0	269	19	8	17	23	374	3869	3812	57	4243	0	4243
16	10.20.18	39	0	287	13	11	20	27	396	3638	3659	-21	4034	0	4034
17	11.10.12	39	0	272	19	7	17	27	381	3755	3735	20	4136	0	4136
18	10.00.48	39	0	274	16	8	19	27	383	3775	3882	-107	4158	0	4158
19	11.00.48	38	0	274	19	7	17	27	382	3969	3796	173	4351	0	4351
20	10.36.12	39	0	308	19	7	19	21	413	3948	3965	-17	4361	0	4361
21	10.13.22	39	0	318	19	7	19	28	429	3915	3864	51	4344	0	4344
22	10.03.26	39	89	320	19	7	19	26	518	4065	3993	72	4583	0	4583
23	09.54.07	39	0	318	19	8	19	16	419	3858	3850	8	4277	0	4277
24	11.00.23	39	0	317	19	7	18	24	425	3863	3787	76	4288	0	4288
25	11.48.05	39	0	20	19	7	18	23	126	4406	4182	224	4532	0	4532
26	10.20.21	39	0	205	19	19	18	27	327	3983	4029	-46	4310	0	4310
27	10.39.36	0	0	447	19	0	16	27	509	4022	4007	15	4531	0	4531
28	09.58.56	38	0	315	19	0	16	25	413	4165	3889	276	4578	0	4578
29	10.43.50	32	0	640	19	0	19	26	734	4148	3998	150	4884	2.4	4887
30	10.29.58	38	0	570	19	0	18	23	668	3888	3772	116	4556	0	4556
31	11.00.27	39	0	601	19	8	18	27	711	3923	3862	61	4634	0	4634

6 POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF MAXIMUM UNRESTRICTED DEMAND DURING DECEMBER 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	EDWPCL	DMSWL	TWEPL	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	10.44.47	38	0	275	18	8	15	27	381	3642	3595	47	4023	0	4023
2	10.45.23	39	0	275	15	8	8	21	365	3360	3350	10	3725	0	3725
3	11.30.45	38	0	274	18	1	7	27	365	3473	3363	110	3838	0	3838
4	10.30.25	38	0	274	17	4	18	9	361	3474	3435	39	3835	0	3835
5	10.01.42	39	0	274	19	5	19	0	356	3480	3432	48	3836	0	3836
6	10.10.19	38	0	273	13	5	19	25	373	3514	3585	-71	3887	0	3887
7	10.02.47	39	0	274	12	7	18	24	374	3496	3482	14	3870	0	3870
8	10.43.45	29	0	273	12	8	18	28	369	3701	3671	30	4070	0	4070
9	10.15.13	30	0	273	13	8	19	26	368	3506	3435	71	3874	0	3874
10	10.37.22	35	0	272	16	6	17	25	371	3569	3552	17	3940	0	3940
11	10.34.17	39	0	274	19	3	18	27	380	3566	3597	-31	3946	0	3946
12	09.45.39	38	0	321	19	7	19	24	429	3579	3627	-48	4008	0	4008
13	10.04.23	50	0	273	19	10	19	24	395	3722	3698	24	4117	0	4117
14	10.33.06	39	0	275	19	10	0	26	369	3461	3610	-149	3830	0	3830
15	10.34.15	38	0	269	19	8	17	23	374	3869	3812	57	4243	0	4243
16	10.20.18	39	0	287	13	11	20	27	396	3638	3659	-21	4034	0	4034
17	11.10.12	39	0	272	19	7	17	27	381	3755	3735	20	4136	0	4136
18	10.00.48	39	0	274	16	8	19	27	383	3775	3882	-107	4158	0	4158
19	11.00.48	38	0	274	19	7	17	27	382	3969	3796	173	4351	0	4351
20	10.36.12	39	0	308	19	7	19	21	413	3948	3965	-17	4361	0	4361
21	10.13.22	39	0	318	19	7	19	28	429	3915	3864	51	4344	0	4344
22	10.03.26	39	89	320	19	7	19	26	518	4065	3993	72	4583	0	4583
23	09.54.07	39	0	318	19	8	19	16	419	3858	3850	8	4277	0	4277
24	11.00.23	39	0	317	19	7	18	24	425	3863	3787	76	4288	0	4288
25	11.48.05	39	0	20	19	7	18	23	126	4406	4182	224	4532	0	4532
26	10.20.21	39	0	205	19	19	18	27	327	3983	4029	-46	4310	0	4310
27	10.39.36	0	0	447	19	0	16	27	509	4022	4007	15	4531	0	4531
28	09.58.56	38	0	315	19	0	16	25	413	4165	3889	276	4578	0	4578
29	10.43.50	32	0	640	19	0	19	26	734	4148	3998	150	4884	2.4	4887
30	10.29.58	38	0	570	19	0	18	23	668	3888	3772	116	4556	0	4556
31	11.00.27	39	0	601	19	8	18	27	711	3923	3862	61	4634	0	4634

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

(ALL FIGURES IN MUS)

GENERATION WITHIN DELHI	AVAILABILITY	SCHEDULE
Rajghat Power House	0.000	0.000
Gas Turbine	52.770	26.771
Pragati-I	246.840	3.235
Pragati-III (Bawana)	793.790	181.514
Rithala	0.000	0.000
Badarpur	0.000	0.000
Renewable (include WTE)	49.700	49.700
TOTAL DELHI GEN.	**1143.100**	**261.220**

NAME OF STATION	AVAILABILITY	SCHEDULE
ANTA G-GF	25.315	0.000
ANTA G-LF		0.000
ANTA G-RF		0.000
ANTA CRF		0.000
AURIYA G-GF	45.184	0.000
AURIYA G-LF		0.000
AURIYA G-RF		0.000
AURIYA CRF		0.247
DADRI G -GF	68.409	0.000
DADRI G -LF		0.000
DADRI G -RF		0.000
DADRI CRF		0.152
SINGRAULI STPS	89.723	89.249
RIHAND STPS	67.856	66.585
RIHAND-II STPS	70.587	69.882
RIHAND -III STPS	88.931	88.150
DADRI-II	489.034	369.773
UNCHAHAR-I TPS	6.176	3.781
UNCHAHAR-II TPS	31.557	24.636
UNCHAHAR-III TPS	19.204	10.926
UNCHAHAR-IV TPS	0.000	0.000
JHAJJAR	218.933	218.933
MEJA TPS	0.000	0.000
TRANDA-II TPS	0.000	0.000
FARAKA	10.783	10.314
KAHALGAON-I	22.244	21.829
KAHALGAON-II	93.543	92.852
SASAN	299.501	299.464
NABINAGAR STPS (BRBCL)	10.899	10.899
BAIRASIUL HEP	1.495	1.495

NAME OF STATION	AVAILABILITY	SCHEDULE
SALAL HEP	8.092	8.092
TANAKPUR HEP	1.624	1.624
CHAMERA HEP	2.761	2.761
CHAMERA HEP-II	4.540	4.540
CHAMERA-III	3.224	3.224
URI HEP	6.776	6.776
URI-II HEP	5.714	5.714
SEWA-II	1.257	1.257
DHAULIGANGA HEP	3.393	3.393
DULHASTI HEP	11.519	11.519
PARVATI-III	1.588	1.588
NATHPA JHAKRI HEP	20.238	20.238
TEHRI HEP	16.062	16.062
KOTESWAR	8.459	8.459
SINGRAULI SHEP	0.472	0.472
TALA	0.000	0.000
KISHAN GANGA	0.000	0.000
KOLDAM	0.000	0.000
RAMPUR	0.000	0.000
NAPP	0.190	0.185
RAPP C	0.185	40.409
RAPPPB-4 C	40.409	0.000
KUDGI STPS-I	0.000	0.000
Total	**1795.880**	**1515.482**
LTA	**809.436**	**809.436**
Short Term (Purchase)	**190.469**	**190.469**
Short Term (Sale)		**-507.563**
TOTAL AVAILABILITY	**3938.885**	**2269.045**

8. SHEDDING DETAILS DURING THE MONTH OF DECEMBER 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
01.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
02.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
03.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
04.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
05.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
06.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
07.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
09.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.12.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31.12.23	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 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
01.12.23	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
02.12.23	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
03.12.23	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
04.12.23	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
05.12.23	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
06.12.23	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
07.12.23	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
08.12.23	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
09.12.23	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
10.12.23	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
11.12.23	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
12.12.23	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
13.12.23	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
14.12.23	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
15.12.23	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
16.12.23	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
17.12.23	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
18.12.23	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
19.12.23	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
20.12.23	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
21.12.23	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
22.12.23	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
23.12.23	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
24.12.23	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
25.12.23	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
26.12.23	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
27.12.23	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
28.12.23	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
29.12.23	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
30.12.23	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
31.12.23	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**

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
01.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
02.12.23	0.005	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000
03.12.23	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.001	0.000
04.12.23	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000	0.000
05.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
06.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000
07.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000
08.12.23	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
09.12.23	0.000	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000
10.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11.12.23	0.001	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000
12.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000
13.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14.12.23	0.000	0.000	0.012	0.000	0.000	0.000	0.000	0.000	0.000
15.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.012	0.000
16.12.23	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000
17.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000
19.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
20.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.000
21.12.23	0.000	0.000	0.000	0.000	0.000	0.002	0.006	0.000	0.000
22.12.23	0.000	0.155	0.000	0.000	0.000	0.000	0.000	0.004	0.000
23.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.12.23	0.005	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000
26.12.23	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000
27.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.000	0.000
29.12.23	0.000	0.000	0.011	0.000	0.000	0.000	0.003	0.000	0.000
30.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31.12.23	0.000	0.001	0.000	0.000	0.000	0.000	0.003	0.000	0.000
TOTAL	0.018	0.163	0.053	0.000	0.000	0.007	0.038	0.019	0.000

ALL FIGURES IN MUs

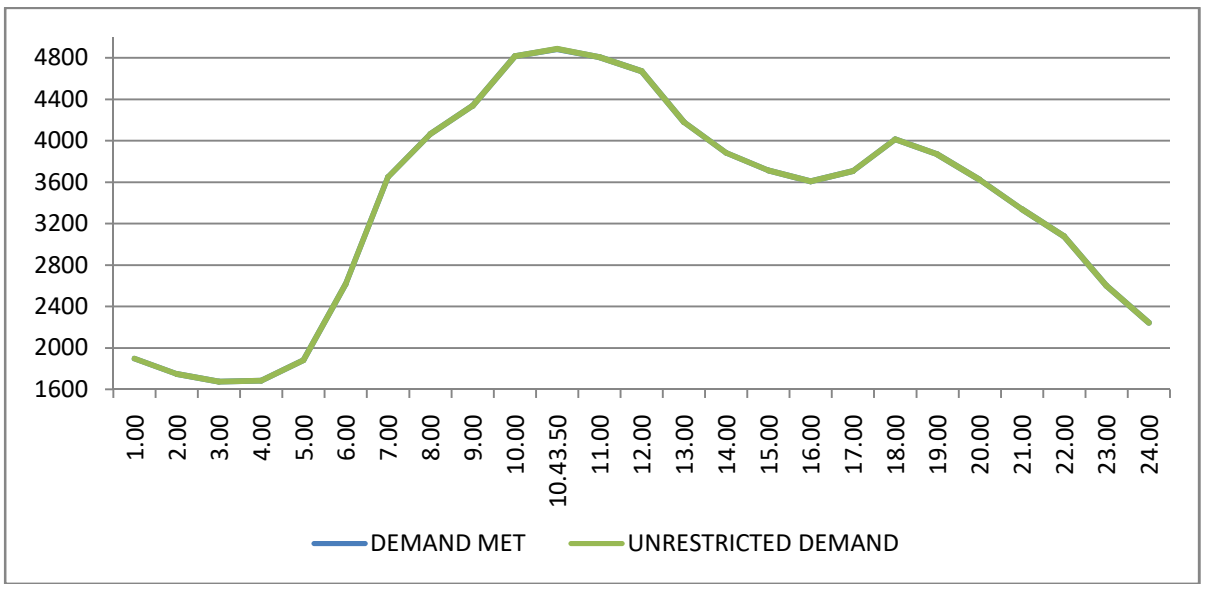
DATE	OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.				THEFT PRONE SHEDDING			TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE	GRAND TOTAL
	BSES		TPDDL	NDMC	BSES		TPDDL		
	BYPL	BRPL			BYPL	BRPL			
1	35	36	37	38	39	40	41	42= 26 to 41	43 = 25 + 42
01.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
02.12.23	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.009	0.009
03.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.006
04.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.020
05.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
06.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002
07.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002
08.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.006
09.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.003
10.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.003
12.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.003
13.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.012
15.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013	0.013
16.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001
17.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002
19.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001
20.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.005
21.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.008	0.008
22.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.160	0.160
23.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.012
26.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.004
27.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.006
29.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.015
30.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31.12.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.004
TOTAL	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.299	0.299

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
01.12.23	71.733	4023	10:44:47	0	4023	4023	10:44:47	4023	0
02.12.23	67.648	3725	10:45:23	0	3725	3725	10:45:23	3725	0
03.12.23	65.390	3838	11:30:45	0	3838	3838	11:30:45	3838	0
04.12.23	68.366	3835	10:30:25	0	3835	3835	10:30:25	3835	0
05.12.23	69.849	3836	10:01:42	0	3836	3836	10:01:42	3836	0
06.12.23	71.839	3887	10:10:19	0	3887	3887	10:10:19	3887	0
07.12.23	71.461	3870	10:02:47	0	3870	3870	10:02:47	3870	0
08.12.23	70.942	4070	10:43:45	1.8	4071.8	4071.8	10:43:45	4070	1.8
09.12.23	68.073	3874	10:15:13	0	3874	3874	10:15:13	3874	0
10.12.23	66.518	3940	10:37:22	0	3940	3940	10:37:22	3940	0
11.12.23	71.585	3946	10:34:17	0	3946	3946	10:34:17	3946	0
12.12.23	70.034	4008	9:45:39	0	4008	4008	9:45:39	4008	0
13.12.23	69.130	4117	10:04:23	0	4117	4117	10:04:23	4117	0
14.12.23	67.344	3830	10:33:06	0	3830	3830	10:33:06	3830	0
15.12.23	70.216	4243	10:34:15	0	4243	4243	10:34:15	4243	0
16.12.23	70.799	4034	10:20:18	0	4034	4034	10:20:18	4034	0
17.12.23	69.881	4136	11:10:12	0	4136	4136	11:10:12	4136	0
18.12.23	70.337	4158	10:00:48	0	4158	4158	10:00:48	4158	0
19.12.23	74.563	4351	11:00:48	0	4351	4351	11:00:48	4351	0
20.12.23	76.638	4361	10:36:12	0	4361	4361	10:36:12	4361	0
21.12.23	75.226	4344	10:13:22	0	4344	4344	10:13:22	4344	0
22.12.23	78.303	4582	10:03:26	0	4582	4582	10:03:26	4582	0
23.12.23	73.089	4277	9:54:07	0	4277	4277	9:54:07	4277	0
24.12.23	68.460	4288	11:00:23	0	4288	4288	11:00:23	4288	0
25.12.23	70.574	4532	11:48:05	0	4532	4532	11:48:05	4532	0
26.12.23	75.559	4400	10:20:21	0	4400	4400	10:20:21	4400	0
27.12.23	77.757	4531	10:39:36	0	4531	4531	10:39:36	4531	0
28.12.23	75.312	4578	9:58:56	0	4578	4578	9:58:56	4578	0
29.12.23	80.691	4884	10:43:50	2.4	4886.4	4886.4	10:43:50	4884	2.4
30.12.23	77.472	4556	10:29:58	0	4556	4556	10:29:58	4556	0
31.12.23	72.749	4634	11:00:27	0	4634	4634	11:00:27	4634	0
TOTAL	2227.540	4884				4886			
		29.12.23							

9. LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING DECEMBER 2023 ON 29.12.2023 - 4884MW AT 10.43.50HRS.

All figures in MW

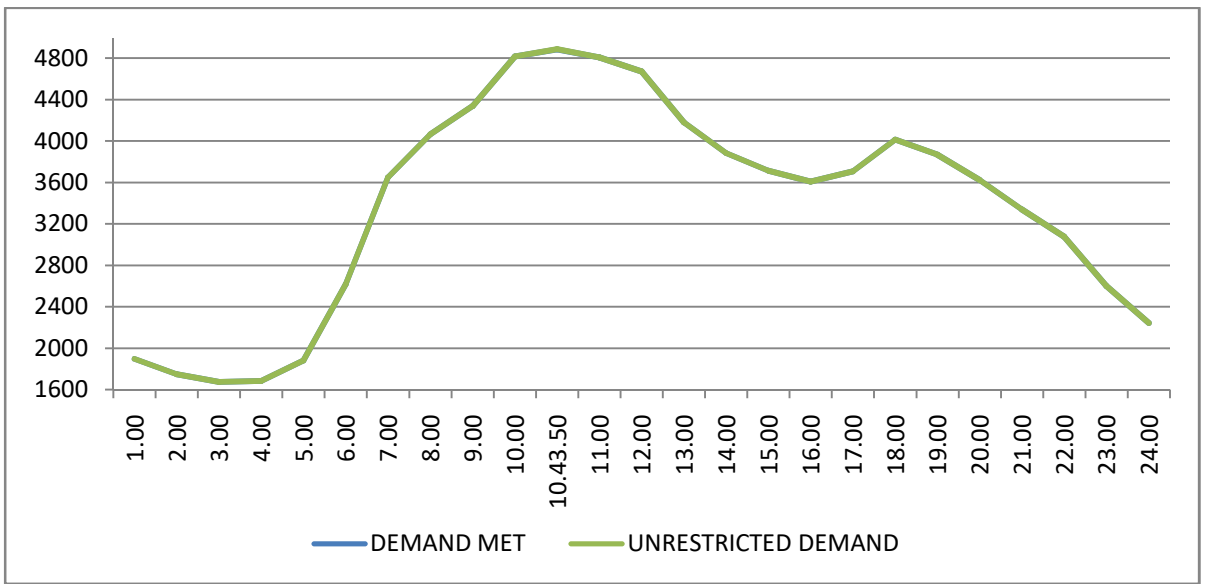
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1897	0	1897
2.00	1748	0	1748
3.00	1673	0	1673
4.00	1684	0	1684
5.00	1882	0	1882
6.00	2617	0	2617
7.00	3649	0	3649
8.00	4062	0	4062
9.00	4336	0	4336
10.00	4815	2.4	4817.4
10.43.50	4884	2.4	4886.4
11.00	4807	1.43	4808.43
12.00	4671	0	4671
13.00	4180	0	4180
14.00	3884	0	3884
15.00	3714	0	3714
16.00	3607	0	3607
17.00	3706	0	3706
18.00	4013	0	4013
19.00	3869	0	3869
20.00	3625	0	3625
21.00	3340	0	3340
22.00	3076	0	3076
23.00	2601	0	2601
24.00	2244	0	2244
Total (IN MUS)	**80.676**	**0.0148**	**80.691**



10 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING DECEMBER 2023 ON 29.12.2023-4886MW AT 10.43.50HRS.

All figures in MW

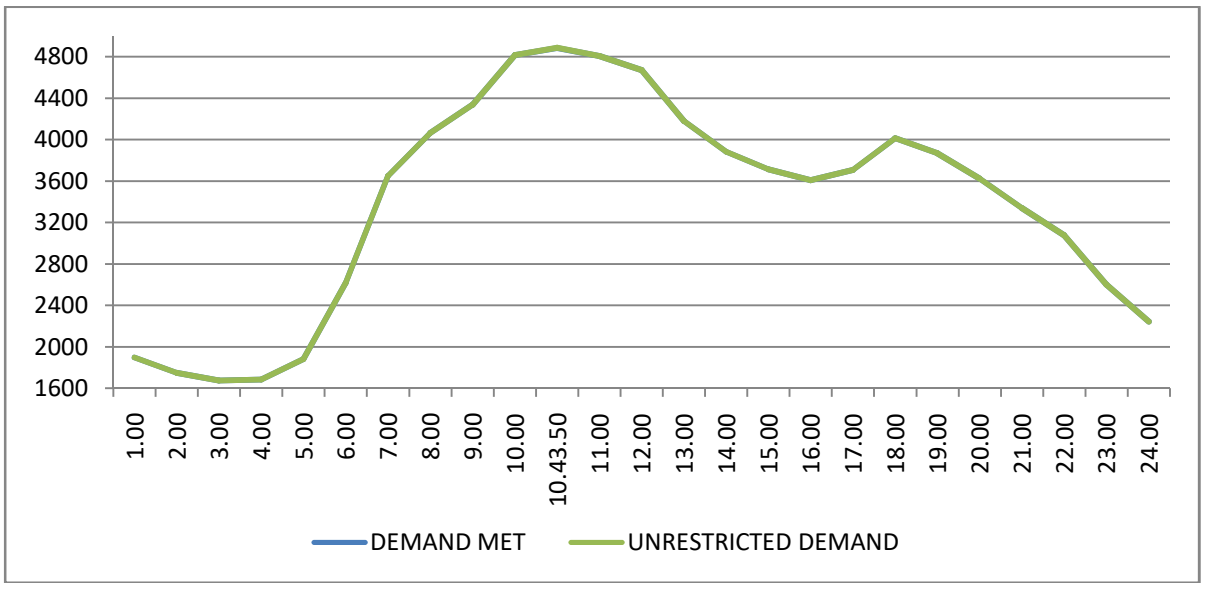
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1897	0	1897
2.00	1748	0	1748
3.00	1673	0	1673
4.00	1684	0	1684
5.00	1882	0	1882
6.00	2617	0	2617
7.00	3649	0	3649
8.00	4062	0	4062
9.00	4336	0	4336
10.00	4815	2.4	4817.4
10.43.50	4884	2.4	4886.4
11.00	4807	1.43	4808.43
12.00	4671	0	4671
13.00	4180	0	4180
14.00	3884	0	3884
15.00	3714	0	3714
16.00	3607	0	3607
17.00	3706	0	3706
18.00	4013	0	4013
19.00	3869	0	3869
20.00	3625	0	3625
21.00	3340	0	3340
22.00	3076	0	3076
23.00	2601	0	2601
24.00	2244	0	2244
Total (IN MUS)	**80.676**	**0.0148**	**80.691**



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING DECEMBER 2023 – 29.12.2023 – 80.676Mus

All figures in MW

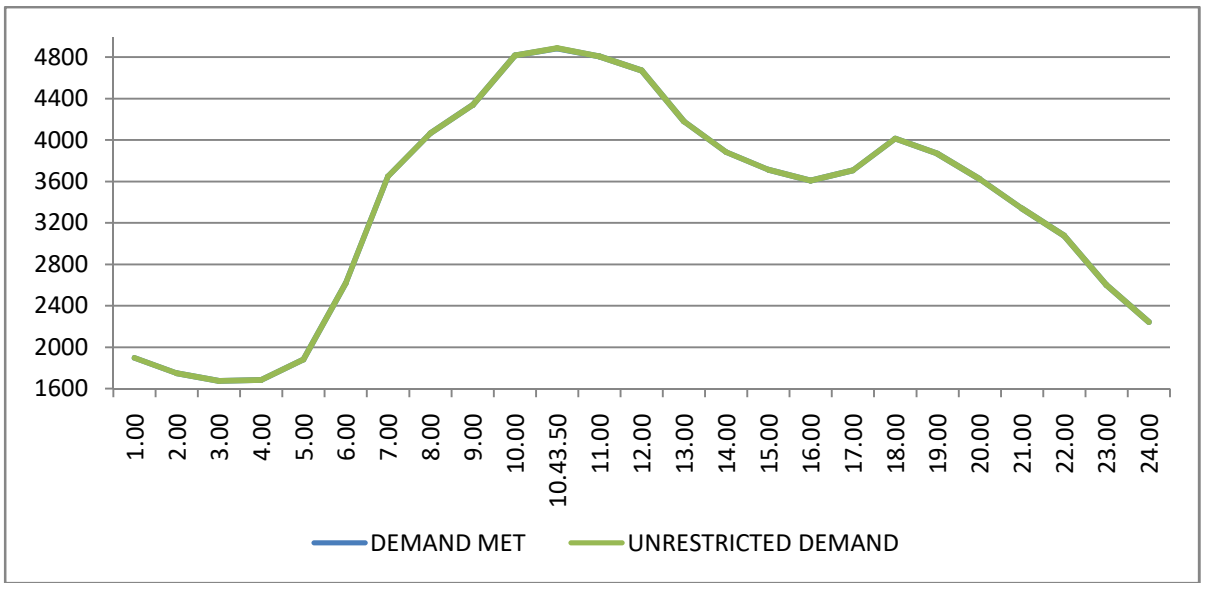
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1897	0	1897
2.00	1748	0	1748
3.00	1673	0	1673
4.00	1684	0	1684
5.00	1882	0	1882
6.00	2617	0	2617
7.00	3649	0	3649
8.00	4062	0	4062
9.00	4336	0	4336
10.00	4815	2.4	4817.4
10.43.50	4884	2.4	4886.4
11.00	4807	1.43	4808.43
12.00	4671	0	4671
13.00	4180	0	4180
14.00	3884	0	3884
15.00	3714	0	3714
16.00	3607	0	3607
17.00	3706	0	3706
18.00	4013	0	4013
19.00	3869	0	3869
20.00	3625	0	3625
21.00	3340	0	3340
22.00	3076	0	3076
23.00	2601	0	2601
24.00	2244	0	2244
Total (IN MUS)	**80.676**	**0.0148**	**80.691**



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

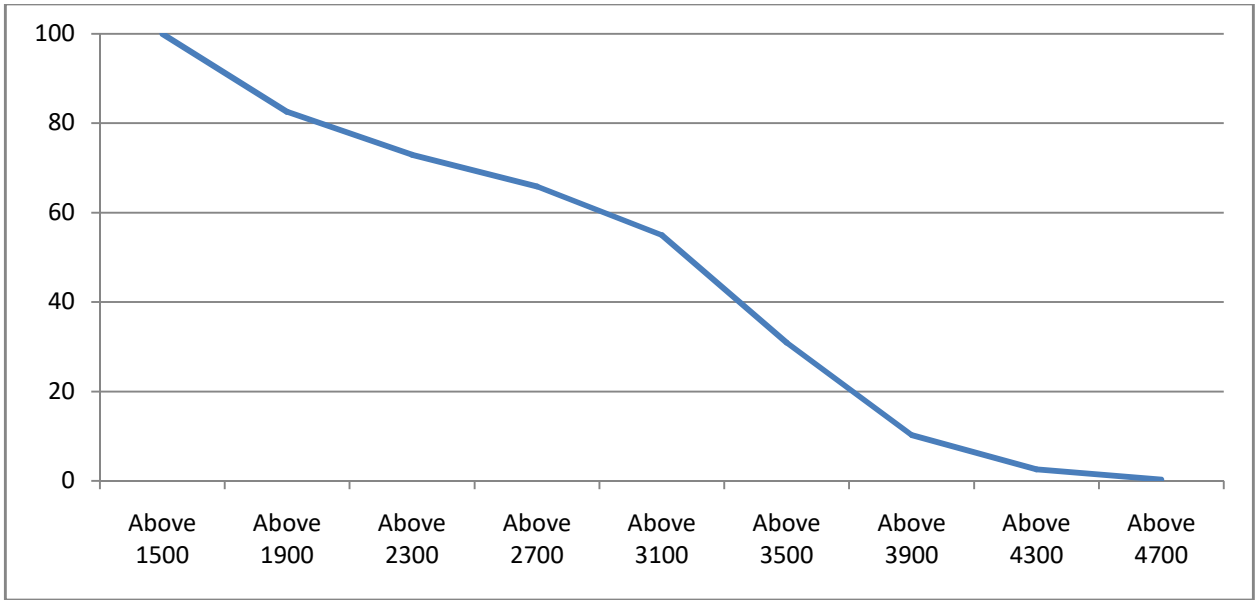
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1897	0	1897
2.00	1748	0	1748
3.00	1673	0	1673
4.00	1684	0	1684
5.00	1882	0	1882
6.00	2617	0	2617
7.00	3649	0	3649
8.00	4062	0	4062
9.00	4336	0	4336
10.00	4815	2.4	4817.4
10.43.50	4884	2.4	4886.4
11.00	4807	1.43	4808.43
12.00	4671	0	4671
13.00	4180	0	4180
14.00	3884	0	3884
15.00	3714	0	3714
16.00	3607	0	3607
17.00	3706	0	3706
18.00	4013	0	4013
19.00	3869	0	3869
20.00	3625	0	3625
21.00	3340	0	3340
22.00	3076	0	3076
23.00	2601	0	2601
24.00	2244	0	2244
Total (IN MUS)	**80.676**	**0.0148**	**80.691**



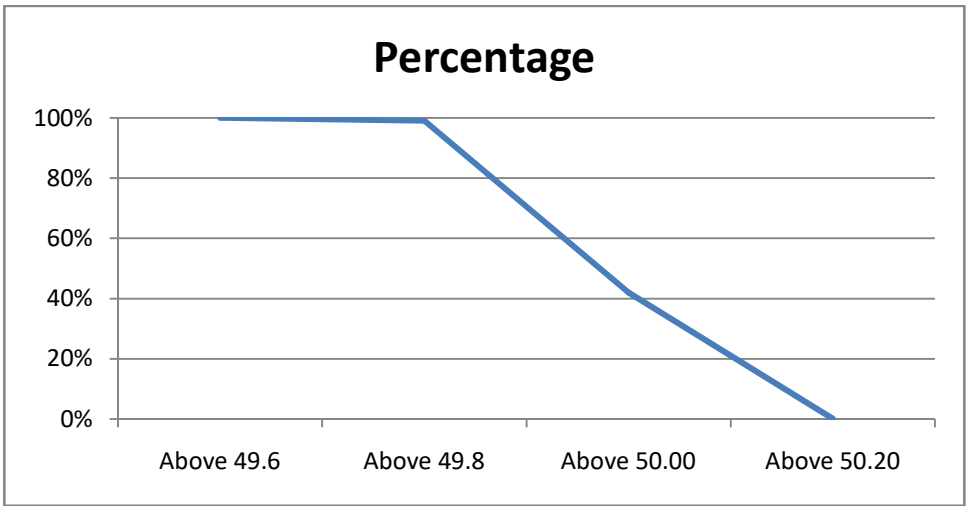
13 LOAD DURATION CURVE FOR DECEMBER 2023

LOAD REMAINED ABOVE IN MW	(%) OF TIME
Above 1500	100
Above 1900	82.49
Above 2300	72.91
Above 2700	65.79
Above 3100	54.97
Above 3500	30.91
Above 3900	10.18
Above 4300	2.55
Above 4700	0.26



14 FREQUENCY ANALYSIS FOR THE MONTH OF DECEMBER 2023

FREQUENCY REMAINED ABOVE IN HZ	(%) OF TIME
Above 49.6	100%
Above 49.8	99.00%
Above 50.00	42.00%
Above 50.20	0.13%



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

All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
01.12.23	231.90	217.92	238.90	225.44
02.12.23	230.67	218.02	237.28	217.62
03.12.23	232.54	219.08	239.84	224.28
04.12.23	232.48	217.54	239.13	226.65
05.12.23	229.72	217.15	237.27	224.53
06.12.23	230.51	0.00	236.59	224.23
07.12.23	230.67	216.00	236.61	220.61
08.12.23	231.05	217.18	237.48	224.44
09.12.23	230.21	219.19	236.88	226.90
10.12.23	231.96	219.90	239.84	227.98
11.12.23	233.00	217.07	236.86	225.84
12.12.23	231.49	218.08	237.68	225.11
13.12.23	231.16	217.10	238.38	224.08
14.12.23	231.49	217.30	237.15	225.09
15.12.23	232.91	215.07	237.70	224.30
16.12.23	230.45	217.55	237.24	225.94
17.12.23	231.77	216.54	238.95	228.00
18.12.23	230.45	215.14	238.18	225.63
19.12.23	230.47	216.54	237.87	227.29
20.12.23	229.72	215.52	237.77	224.85
21.12.23	230.07	217.15	237.84	226.75
22.12.23	230.58	216.03	236.25	223.94
23.12.23	231.82	218.02	237.12	225.58
24.12.23	231.16	215.87	238.26	224.78
25.12.23	231.98	214.90	236.13	223.46
26.12.23	229.50	216.90	233.84	224.02
27.12.23	228.42	214.94	235.29	221.74
28.12.23	230.63	217.12	235.00	221.81
29.12.23	229.55	215.77	233.78	222.93
30.12.23	230.57	215.66	236.77	223.06
31.12.23	230.48	215.51	237.50	225.53

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

All figures in kV

Date	400kV Bamnauli Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01.12.23	422.84	4:01:04	400.62	10:11:33	412.7
02.12.23	419.74	4:00:51	400.04	10:13:39	411.98
03.12.23	423.14	23:33:01	402.58	10:44:55	414.43
04.12.23	423.21	0:01:33	398.2	9:48:31	412.5
05.12.23	419.32	4:00:56	395.28	9:49:13	410.72
06.12.23	418.92	0:00:47	397.01	9:36:16	410.37
07.12.23	419.87	23:50:40	394.46	9:43:21	409.86
08.12.23	419.87	0:00:10	397.15	9:25:49	410.23
09.12.23	418.18	4:01:47	396.26	9:18:23	410.06
10.12.23	423.43	15:02:06	399.05	9:13:26	412.78
11.12.23	422.74	2:00:19	396.96	10:19:16	411.22
12.12.23	420.29	3:00:06	397.21	9:38:18	410.65
13.12.23	419.96	3:59:56	397.64	10:50:29	410.27
14.12.23	420.86	4:01:44	395.97	9:12:30	410.51
15.12.23	423.93	4:00:58	393.09	9:18:14	409.18
16.12.23	419.5	0:23:10	396.54	9:13:17	409.56
17.12.23	421.24	2:02:30	399.17	10:49:48	411.74
18.12.23	422.44	23:59:59	395.29	11:19:03	409.43
19.12.23	422.44	0:00:00	394.53	10:24:02	409.09
20.12.23	419.58	4:02:05	394.7	10:52:42	409.55
21.12.23	421	15:48:34	395.38	9:09:13	410.52
22.12.23	420.13	23:59:08	396.37	9:18:19	409.42
23.12.23	421.82	3:01:26	398.08	9:16:33	411.86
24.12.23	421.02	4:00:58	396.77	11:49:02	412.46
25.12.23	421.45	2:00:56	393.73	9:18:38	410.15
26.12.23	417.74	3:00:43	397.74	9:40:04	408.66
27.12.23	417.16	19:11:33	395.81	10:46:13	408.6
28.12.23	419.07	4:01:08	394.45	9:21:53	408.87
29.12.23	417.76	2:59:43	393.75	9:32:52	408.82
30.12.23	419.26	2:01:25	394.51	10:45:53	408.73
31.12.23	421.64	15:30:41	394.95	9:07:41	410.56

All figures in kV

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01.12.23	420.48	4:00:59	400.3	10:16:30	411.54
02.12.23	417.26	4:00:51	398.81	10:13:44	410.84
03.12.23	421.73	23:30:42	402.35	10:44:55	413.16
04.12.23	422.02	0:01:44	397.58	9:48:40	411.57
05.12.23	419.53	20:56:48	398.51	9:49:04	410.85
06.12.23	417.44	0:00:50	396.64	9:36:18	409.23
07.12.23	417.63	3:59:22	395.45	9:43:13	408.93
08.12.23	416.44	3:00:25	396.9	9:27:02	408.45
09.12.23	415.76	4:01:50	397.64	9:18:22	408.56
10.12.23	420	15:02:17	399.38	9:13:42	411.96
11.12.23	416.53	20:36:07	395.86	10:34:19	411.61
12.12.23	419.8	3:00:02	396.89	10:48:21	410.23
13.12.23	418.2	3:59:55	395.67	12:38:08	409.6
14.12.23	418.95	4:01:19	395.87	11:30:02	409.94
15.12.23	421.84	4:00:59	395.03	11:20:37	408.69
16.12.23	417.84	0:22:14	396.7	12:16:39	409.06
17.12.23	420.15	2:02:21	398.67	10:49:44	411.14
18.12.23	419.26	23:59:52	395.4	11:19:01	408.96
19.12.23	419.26	0:00:00	395.13	10:24:12	408.43
20.12.23	417.15	4:02:00	393.79	10:52:47	408.5
21.12.23	416.96	15:35:32	396.57	9:20:27	408.67
22.12.23	417.53	23:59:11	395.14	11:45:22	408.53
23.12.23	419.39	3:01:30	399.54	11:08:30	410.38
24.12.23	421.53	15:38:47	397.67	11:41:10	412.91
25.12.23	420.64	2:01:58	393.77	10:45:52	409.91
26.12.23	416.54	3:00:45	398.68	11:53:29	406.86
27.12.23	414.22	3:02:02	393.59	12:24:12	407.55
28.12.23	416.04	4:00:35	392.88	12:18:12	406.8
29.12.23	414.53	23:59:20	393.61	18:07:39	407.06
30.12.23	416.65	2:01:36	395.28	12:18:20	407.92
31.12.23	417.1	15:30:41	396.94	10:34:48	410.07

17 DETAILS OF BREAK-DOWNS/TRIPPING DURING THE MONTH OF DECEMBER 2023

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
1	01.12.23	8:25	220kV MAHARANI BAGH - SARITA VIHAR CKT	01.12.23	10:44	AT SARITA VIHAR : AIR PRESSURE LOW.
2	01.12.23	17:05	SUBZI MANDI 220/33kV 100MVA Tx-II	01.12.23	20:53	DIFFERENTIAL ABC.
3	02.12.23	6:18	220kV BAMNAULI - DIAL CKT-II	02.12.23	12:57	AT BAMNAULI : DIST PROT, ZONE-I, DIST 8.324KM, B PHASE.
4	02.12.23	7:07	220kV BAMNAULI-NAJAFGARH CKT-I	02.12.23	7:23	AT BAMNAULI : R PLAHSE, DIST PROT, ZONE-I, DIST 6.485KM.
5	02.12.23	8:46	PARKSTREET 220/33kV 100MVA Tx-II	02.12.23	9:43	ANY TRIP, O/C, Y&B PHASE, 83.
6	02.12.23	8:46	PARKSTREET 220/33kV 100MVA Tx-I	02.12.23	9:43	ANY TRIP, O/C, 86.R PHASE, E/F
7	03.12.23	23:10	220KV BAWANA-SHALIMARBAGH CKT-I	04.12.23	0:38	AT BAWANA : DIFFERENTIAL, Y PHASE, INTER TRIP.
8	04.12.23	13:42	220kV OKHLA - BTPS CKT.- I	04.12.23	14:08	AT BTPS : GEN MTC, DIST PROT, ZONE-I, O/V, 86A&B.
9	04.12.23	13:53	220KV BAWANA-SHALIMARBAGH CKT-I	04.12.23	14:02	AT BAWANA : DIFFERENTIAL.
10	04.12.23	13:53	WAZIRPUR 220/33kV 100MVA Tx-I	04.12.23	14:18	TRIPPED WITHOUT INDICATION.
11	04.12.23	13:53	WAZIRPUR 220/33kV 100MVA Tx-II	04.12.23	14:18	TRIPPED WITHOUT INDICATION.
12	04.12.23	14:20	220KV BAWANA-SHALIMARBAGH CKT-I	04.12.23	17:30	AT BAWANA : DIFFERENTIAL.
13	04.12.23	16:20	WAZIRPUR 220/33kV 100MVA Tx-II	04.12.23	16:25	TRIPPED WITHOUT INDICATION.
14	04.12.23	16:20	WAZIRPUR 220/33kV 100MVA Tx-I	04.12.23	16:25	TRIPPED WITHOUT INDICATION.
15	07.12.23	9:12	220kV MAHARANI BAGH - SARITA VIHAR CKT	07.12.23	11:38	AT MAHARANI BAGH : R PHASE, DIST PROT, ZONE-I, GEN TRIP, DIST 7.243KM, 86ABC AT SARITA VIHAR : R PHSE, DIST PROT, ZONE-I, DIST 5.237KM. 86ABC.
16	07.12.23	23:56	220kV BAWANA - KANJHAWALA CKT - 1	07.12.23	9:23	AT BAWANA : B PHASE, DIST PROT, DIST 22.11KM,
17	08.12.23	9:07	PARKSTREET 220/33kV 100MVA Tx-II	08.12.23	13:00	I/C TRIPPED ON ANY TRIP, O/C, B PHASE, 86.
18	08.12.23	9:07	PARKSTREET 220/33kV 100MVA Tx-I	08.12.23	13:00	I/C TRIPPED ON ANY TRIP, O/C, B PHASE, Ef, 86.
19	09.12.23	7:05	OKHLA 66/11kV, 20MVA Tx-I	09.12.23	10:58	OLTC, BUCHOLZ, 80B, OSR.
20	09.12.23	7:25	SHALIMAR BAGH 220/33kV 100MVA Tx-III	09.12.23	8:40	O/C, RYB PHASE.
21	11.12.23	5:46	SUBZI MANDI 33/11kV, 16MVA Tx-I	11.12.23	11:15	I/C TRIPPED ON BUCHOLZ, 86.
22	11.12.23	16:23	GAZIPUR 66/11KV 25MVA TR. -I	11.12.23	19:12	REF HV, 86.
23	13.12.23	10:30	GAZIPUR 66/11KV 25MVA TR. -I	13.12.23	12:28	86, LV REF.
24	13.12.23	22:23	WAZIRABAD 220/66kV 160MVA Tx-I	13.12.23	11:48	BUCHOLZ.
25	14.12.23	18:05	TUGHLAKABAD 220/66KV 160MVA PR. TR. -I	15.12.23	11:08	GEN TRIP, RYB PHASE TRIP, DIFFERENTIAL.
26	16.12.23	7:55	VASANT KUNJ 220/66kV 100MVA Tx-II	16.12.23	10:01	I/C TRIPPED ON 86.
27	19.12.23	15:20	BAWANA 400/220kV 315MVA ICT-VI	19.12.23	19:30	DIFFERENTIAL.
28	20.12.23	11:35	PATPARGANJ 220/33kV 100MVA Tx-III	20.12.23	12:22	BUCHOLZ, 86.
29	22.12.23	6:29	220KV WAZIRABAD - MANDOLA CKT-I	22.12.23	11:19	AT WAZIRABAD : DIST PROT, ZONE-I, DIFFERENTIAL, R&B PHASE, TRIP ABC PHASE, DIST 5.728KM.
30	22.12.23	16:29	220kV BAMNAULI-NAJAFGARH CKT-II	22.12.23	21:54	AT BAMNAULI : 186ABC, 86T.

31	22.12.23	16:29	220kV BAMNAULI-NAJAFGARH CKT-I	23.12.23	14:49	AT BAMNAULI : 186ABC, 86T.
32	24.12.23	11:41	400kV Bawana-Mundka Ckt-I	24.12.23	15:44	AT MUNDKA : RYB PHASE, 86A&B.
33	24.12.23	11:41	400kV Bawana-Mundka Ckt-II	24.12.23	19:35	AT MUNDKA : 86A&B, RYB PHASE TRIP .
34	24.12.23	11:41	400kV Mundka-Jhatikara Ckt-II	24.12.23	22:15	AT MUNDKA : DIST PROT, ZONE-I, DIST 12.0KM, RYB PHASE, 86A&B.
35	24.12.23	14:39	400kV Mundka-Jhatikara Ckt-I	24.12.23	20:23	AT MUNDKA : 86A&B
36	25.12.23	6:22	220kV BAMNAULI-PAPPANKALAN-I CKT-I	25.12.23	14:05	AT BAMNAULI : RYB PHASE, DIST PROT, ZONE-II DIST 7.7KM, 86ABC, 186ABC.
37	25.12.23	12:50	220kV PRAGATI - PARK STREET CKT-II	25.12.23	13:19	AT PARK STREET : E/F, 86, R PHASE TRIP. 86ABC.
38	25.12.23	15:58	LODHI RD 220/33kV 100MVA TR. -III	STILL OUT		DIFFERENTIAL, RYB PHASE, 86ABC.
39	25.12.23	15:58	220kV MAHARANI BAGH - LODHI ROAD CKT-I	25.12.23	17:54	AT MAHARANI BAGH : DIST PROT, ZONE-I, DIST 2.2KM, RY PHASE.
40	26.12.23	6:05	220kV WAZIRABAD - KASHMEREGATE CKT-II	26.12.23	6:49	AT KASHMIRI GATE : 86ABC, R&Y PHASE, BREAKER TRIPPED, CVT OK, R PHASE E/F.
41	26.12.23	7:11	220KV WAZIRABAD - MANDOLA CKT-I	26.12.23	12:55	AT WAZIRABAD : DIFFERENTIAL DIST PROT, ZONE-I, SOTF.
42	27.12.23	4:05	220 KV PATPARGANJ - I.P. CKT-I	27.12.23	4:49	AT I.P. : DIST PROT, ZONE-I, RYB PHASE AT PATPARGANJ : BUS COUPLER TRIPPED ON B PHASE, VT FAIL.
43	27.12.23	4:05	PATPARGANJ 220/66kV 100MVA Tx-II	27.12.23	5:07	TRIPPED DUE TO TRIPPING OF BUS COUPLER.
44	27.12.23	4:05	PATPARGANJ 220/66kV 100MVA Tx-I	27.12.23	5:05	TRIPPED DUE TO BUS COUPLER TRIPPED.
45	27.12.23	5:00	220kV MAHARANI BAGH - SARITA VIHAR CKT	27.12.23	13:24	AT SARITA IHAR : DIST PROT, ZONE-I, DIST 3.549KM, Y PHASE, E/F, 186ABC.
46	28.12.23	1:35	220kV MAHARANI BAGH - SARITA VIHAR CKT	28.12.23	11:10	AT SARITA VIHAR : DIST PROT, ZONE-I, DIST 3.65L,. N [JASE/ AT MAHARANI BAGH : DIST PROT, DIST 5.5KM, ZONE-I, 86ABC, B PHASE TRIP.
47	28.12.23	6:12	LODHI RD 33/11kV, 20MVA Tx-I	28.12.23	16:35	DIFFERENTIAL, 86A, B PHASE, LOW OIL ALARM.
48	28.12.23	7:45	ELECTRIC LANE 220/33kV 100MVA Tx-I	28.12.23	20:05	BUCHOLZ, 86A&B.
49	29.12.23	9:08	GOPALPUR 220/33kV 100MVA Tx-I	29.12.23	13:42	RYB PHASE, O/C, E/F,
50	29.12.23	9:48	NARELA 66/11kV, 20MVA Tx-I	29.12.23	9:57	TRIPPED WITHOUT INDICATION.
51	29.12.23	18:10	220kV MAHARANI BAGH - LODHI ROAD CKT-II	30.12.23	14:10	AT MAHARANI BAGH : DIST PRO, ZONE-I, GEN TRIP
52	30.12.23	7:55	SUBZI MANDI 33/11kV, 16MVA Tx-I	30.12.23	8:11	86, DIFFERENTIAL.
53	30.12.23	11:35	WAZIRABAD 66kV GHONDA CKT-II	30.12.23	13:18	HOT POINT.
54	30.12.23	20:30	220kV KANJHAWALA-NAJAFGARH CKT	31.12.23	9:33	AT KHANJAWALA : DIST PROT, ZONE-II, B PHASE DIST 12.44KM.
55	31.12.23	6:58	SARITA VIHAR 220/66kV 160MVA TR. -I	31.12.23	11:50	E/F, O/C, R PHASE.86

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

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