DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

****

JANUARY 2024

1 SALIENT FEATURES OF DELHI POWER SYSTEM

Sr. No.	Features	JAN. 2023	JAN. 2024
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)**	**5526**	**5816**
	Date	06.01.2023	22.01.2024
	Time	10.58.58	10.52.54
3	**Peak Demand met (MW)**	**5623**	**5816**
	Date	06.01.2023	22.01.2024
	Time	10.58.58	10.52.54
4	Peak Availability (MW)	5314	5526
5	Shortage (-) / Surplus (+) in MW	(-) 212	(-) 274
6	Percentage Shortage (-) / Surplus (+)	(-) 3.84	(-) 4.71
7	Maximum Energy Consume in a day (Mus)	89.222	94.530
8	Energy Consumed during the month	**2476.986**	**2738.344**
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	0.344	0.523
	TPDDL	2.362	0.064
	BRPL	0.0048	0.100
	BYPL	0.000	0.006
	NDMC	0.000	0.000
	MES	0.000	0.000
	Other Agencies	0.0001	0.000
	Total	**2.7109**	**0.693**
10	**Grand Total in Mus**	**2.7109**	**0.693**

2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING JANUARY 2024

A) For the month of January 2024

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	6.816	0.609	6.207	69.53	39.325
3.	PPCL	39.549	0.600	38.949	103.98	209.573
4.	Bawana	329.311	8.538	320.773	100.01	393.474
	TOTAL	**375.676**	**9.871**	**365.805**	--	**642.372**

WASTE TO ENERGY GENERATING PLANTS WITHIN DELHI

S. No	Stations	Gross Generation	Aux. Consumption	Net Generation
5.	Towmcl	11.094	1.828	9.266
6.	EDWPCL	4.123	0.919	3.204
7.	DMSWL	14.431	2.105	12.326
8.	TWEPL	16.600	1.740	14.860
	TOTAL	**46.248**	**6.592**	**39.656**

B) For the Year 2023-24 (Upto January 2024)

Power Station	Effective Capacity (MW)	Net Generation in MUs for Jan 2024	Availability (%) for Jan 2024	Cumulative Generation in MUs upto Jan 2024 for the year 2023-24	Cumulative Availability in % upto Jan 2024 for the year 2023-24
RPH	135	-0.124	--	-1.100	--
GT	90	6.207	69.53	202.649	83.40
PPCL	330	38.949	103.98	680.733	98.25
Bawana	1372	320.773	100.01	2037.754	94.68
TOTAL	1927	**365.805**	--	**2920.036**	--

WASTE TO ENERGY GENERATING PLANTS WITHIN DELHI

Power Station	Effective Capacity (MW)	Net Generation in MUs for Jan 2024	Cumulative Generation in MUs upto Jan 2024 for the year 2023-24
Towmcl	16	9.266	122.147
EDWPCL	10	3.204	37.44
DMSWL	24	12.326	119.309
TWEPL	25	14.860	163.749
TOTAL	**75**	**39.656**	**442.645**

3 DETAILS OF OUTAGES OF GENERATING STNS. WITHIN DELHI FOR JANUARY 2024

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	01.01.24	0:00	09.01.24	16:35	GT#1 is standby as there is no demand from SLDC
		09.01.24	17:18	11.01.24	9:48	GT#1 is standby as there is no demand from SLDC
		13.01.24	9:20	31.01.24	23:59	GT#1 is standby as there is no demand from SLDC
2	30	NIL				
3	30	NIL				
4	30	NIL				
5	30	09.01.24	17:18	09.01.24	19:15	GT#5 tripped on DC Ckt. Field fuse.
		13.01.24	9:20	13.01.24	11:52	GT#5 tripped on TAD high.
6	30	03.01.24	2:56	03.01.24	9:20	GT#6 tripped on TAD high.
		05.01.24	3:51	08.01.24	9:29	GT#6 tripped on TAD high.
		09.01.24	3:55	09.01.24	15:45	GT#6 tripped on TAD high.
		09.01.24	16:52	13.01.24	11:52	GT#6 stopped due to TAD high.
		14.01.24	0:38	14.01.24	1:30	GT#6 tripped due to TAD high.
		21.01.24	1:30	20.01.24	11:48	GT#6 is standby as there is no demand from SLDC
		21.01.24	0:00	22.01.24	11:23	GT#6 is standby as there is no demand from SLDC
		23.01.24	3:58	23.01.24	4:15	GT#6 tripped due to TAD high.
		23.01.24	4:15	31.01.24	23:59	GT#6 is standby as there is no demand from SLDC
STG-1	30	NIL				
STG-2	30	NIL				
STG-3	30	03.01.24	1:53	03.01.24	13:44	STG#3 stopped due to TAD high on GT#6.
		05.01.24	3:51	08.01.24	12:27	STG#3 stopped due to TAD high on GT#6.
		09.01.24	1:10	11.01.24	14:17	STG#3 stopped due to TAD high on GT#6.
		13.01.24	5:15	13.01.24	13:55	STG#3 stopped due to TAD high on GT#5.
		14.01.24	0:38	20.01.24	14:58	STG#3 stopped due to TAD high on GT#6.
		20.01.24	15:28	22.01.24	14:40	STG#3 stopped due to TAD high on GT#6.
		23.01.24	1:00	31.01.24	23:59	STG#3 stopped due to TAD high on GT#6.

(C) PRAGATI

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	**104**	01.01.24	00.00	23.01.24	15.08	Stopped due to low demand
		23.01.24	20.30	26.01.24	04.08	Stopped due to low demand
		27.01.24	11.30	30.01.24	03.00	Stopped due to low demand
2	**104**	01.01.24	00.00	16.01.24	07.53	Stopped due to low demand
		16.01.24	11.00	22.01.24	18.28	Stopped due to low demand
		22.01.24	19.38	23.01.24	05.39	Stopped due to low demand
		23.01.24	22.05	24.01.24	05.00	Stopped due to low demand
STG	**122**	01.01.24	00.00	23.01.24	13.15	Stopped due to low demand
		23.01.24	13.15	24.01.24	11.30	Tripped on Internal Fault
		24.01.24	11.30	24.01.24	22.30	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	23.01.24	3:00	29.04.24	23:59	Due to inlet air filter DP high
		30.01.24	0:00	31.01.24	23:59	Boroscopic inspection
2	216	28.01.24	18:32	31.01.24	23:59	Offline compressor washing and GE inspection
3	216	28.01.24	21:46	28.01.24	23:14	DUE TO HIGH EXHAUST TEMPERATURE SPREAD
		30.01.24	7:30	31.01.24	23:59	Due to internal fault (Inlet air filter DP high)
4	216	22.01.24	9:45	22.01.24	11:12	Due to internal fault (Exhaust temp. high, faulty reading)
		31.01.24	3:15	31.01.24	23:59	Due to supply fault. Both the Bus became dead.
STG -1	254	23.01.24	3:00	29.04.24	23:59	Due to above outage of GT#1
		28.01.24	18:39	31.01.24	23:59	Due to above outage of GT#2
		30.01.24	0:00	31.01.24	23:59	Due to above outage of GT#1
STG -2	254	22.01.24	9:45	22.01.24	11:12	Due to above outage of GT#4.
		23.01.24	16:00	25.01.24	14:00	Due to mechanical fault (HR-4 valve spindle broken)
		28.01.24	21:46	28.01.24	23:14	Due to above outage of GT#3.
		30.01.24	7:30	31.01.24	23:59	Due to above outage of GT#3
		31.01.24	3:15	31.01.24	23:59	Due to supply fault. Both the Bus became dead.

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 JANUARY 2024

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	10.29.44	39	0	319	19	17	17	24	435	4699	4556	143	5134	0	5134
2	10.50.15	39	0	315	19	5	20	25	424	4486	4467	19	4910	0	4910
3	11.14.36	18	0	316	19	9	19	19	400	4857	4827	30	5257	0	5257
4	10.45.26	39	0	318	19	10	16	22	424	4817	4693	124	5241	0	5241
5	10.20.19	0	0	553	19	10	8	26	616	4922	4786	136	5538	0	5538
6	10.53.27	0	0	587	19	10	6	7	629	4508	4455	53	5137	0	5137
7	10.50.26	0	0	474	19	10	8	10	521	4585	4470	115	5106	0	5106
8	10.51.47	30	0	644	19	10	19	10	732	4605	4636	-31	5337	5.7	5343
9	10.57.10	0	0	564	19	10	19	10	622	4813	4731	82	5435	0	5435
10	11.08.29	0	0	520	19	10	18	11	578	5043	4987	56	5621	0	5621
11	10.01.29	0	0	603	19	0	18	9	649	4773	4912	-139	5422	0	5422
12	10.49.50	19	0	471	19	0	17	27	552	5148	5186	-38	5700	0	5700
13	10.00.08	28	0	466	19	0	18	14	545	4790	4662	128	5335	0	5335
14	10.45.03	0	0	643	19	0	14	17	693	4770	4672	98	5463	0	5463
15	10.00.47	0	0	641	19	0	20	18	698	4780	5095	-315	5478	0	5478
16	10.23.19	0	106	639	19	0	17	14	795	4639	4630	9	5434	0	5434
17	10.53.44	0	0	571	19	0	17	19	626	5099	4893	206	5725	0	5725
18	09.58.23	0	0	640	19	0	13	20	692	4775	4738	37	5467	0	5467
19	10.20.47	0	0	641	19	0	19	18	697	5101	4978	123	5798	0	5798
20	11.02.37	0	0	558	19	8	14	23	622	4869	4661	208	5491	0	5491
21	11.46.10	0	0	472	19	0	17	18	526	4996	4758	238	5522	0	5522
22	10.52.54	0	0	335	19	8	17	21	400	5416	5142	274	5816	0	5816
23	10.36.58	0	104	320	19	9	18	27	497	5029	4933	96	5526	0	5526
24	10.45.02	0	105	323	20	10	17	22	497	5213	5053	160	5710	0	5710
25	10.14.22	0	157	292	19	10	17	23	518	5019	4960	59	5537	0	5537
26	10.48.56	0	271	315	19	9	19	26	659	4229	4341	-112	4888	0	4888
27	09.59.59	0	269	155	19	9	19	24	495	4474	4075	399	4969	0	4969
28	11.00.55	0	155	500	19	9	18	19	720	4334	4383	-49	5054	0	5054
29	10.20.36	0	154	472	19	10	18	25	698	4561	4769	-208	5259	0	5259
30	10.29.36	0	271	319	19	11	17	16	653	4616	4441	175	5269	0	5269
31	10.35.24	0	248	0	19	6	6	20	299	5019	4985	34	5318	0	5318

6 POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF MAXIMUM UNRESTRICTED DEMAND DURING JANUARY 2024

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	10.29.44	39	0	319	19	17	17	24	435	4699	4556	143	5134	0	5134
2	10.50.15	39	0	315	19	5	20	25	424	4486	4467	19	4910	0	4910
3	11.14.36	18	0	316	19	9	19	19	400	4857	4827	30	5257	0	5257
4	10.45.26	39	0	318	19	10	16	22	424	4817	4693	124	5241	0	5241
5	10.20.19	0	0	553	19	10	8	26	616	4922	4786	136	5538	0	5538
6	10.53.27	0	0	587	19	10	6	7	629	4508	4455	53	5137	0	5137
7	10.50.26	0	0	474	19	10	8	10	521	4585	4470	115	5106	0	5106
8	10.51.47	30	0	644	19	10	19	10	732	4605	4636	-31	5337	5.7	5343
9	10.57.10	0	0	564	19	10	19	10	622	4813	4731	82	5435	0	5435
10	11.08.29	0	0	520	19	10	18	11	578	5043	4987	56	5621	0	5621
11	10.01.29	0	0	603	19	0	18	9	649	4773	4912	-139	5422	0	5422
12	10.49.50	19	0	471	19	0	17	27	552	5148	5186	-38	5700	0	5700
13	10.00.08	28	0	466	19	0	18	14	545	4790	4662	128	5335	0	5335
14	10.45.03	0	0	643	19	0	14	17	693	4770	4672	98	5463	0	5463
15	10.00.47	0	0	641	19	0	20	18	698	4780	5095	-315	5478	0	5478
16	10.23.19	0	106	639	19	0	17	14	795	4639	4630	9	5434	0	5434
17	10.53.44	0	0	571	19	0	17	19	626	5099	4893	206	5725	0	5725
18	09.58.23	0	0	640	19	0	13	20	692	4775	4738	37	5467	0	5467
19	10.20.47	0	0	641	19	0	19	18	697	5101	4978	123	5798	0	5798
20	11.02.37	0	0	558	19	8	14	23	622	4869	4661	208	5491	0	5491
21	11.46.10	0	0	472	19	0	17	18	526	4996	4758	238	5522	0	5522
22	10.52.54	0	0	335	19	8	17	21	400	5416	5142	274	5816	0	5816
23	10.36.58	0	104	320	19	9	18	27	497	5029	4933	96	5526	0	5526
24	10.45.02	0	105	323	20	10	17	22	497	5213	5053	160	5710	0	5710
25	10.14.22	0	157	292	19	10	17	23	518	5019	4960	59	5537	0	5537
26	10.48.56	0	271	315	19	9	19	26	659	4229	4341	-112	4888	0	4888
27	09.59.59	0	269	155	19	9	19	24	495	4474	4075	399	4969	0	4969
28	11.00.55	0	155	500	19	9	18	19	720	4334	4383	-49	5054	0	5054
29	10.20.36	0	154	472	19	10	18	25	698	4561	4769	-208	5259	0	5259
30	10.29.36	0	271	319	19	11	17	16	653	4616	4441	175	5269	0	5269
31	10.35.24	0	248	0	19	6	6	20	299	5019	4985	34	5318	0	5318

7 SOURCEWISE SCHEDULED DRAWL FROM NORTHERN GRID AS WELL AS AVAILABILITY WITHIN DELHI FOR JANUARY 2024

(ALL FIGURES IN MUS)

GENERATION WITHIN DELHI	AVAILABILITY	SCHEDULE
Rajghat Power House	0.000	0.000
Gas Turbine	45.953	6.628
Pragati-I	248.405	38.832
Pragati-III (Bawana)	673.572	280.098
Rithala	0.000	0.000
Badarpur	0.000	0.000
Renewable (include WTE)	40.278	40.278
TOTAL DELHI GEN.	**1008.207**	**365.836**

NAME OF STATION	AVAILABILITY	SCHEDULE
ANTA G-GF	30.162	0.000
ANTA G-LF		0.000
ANTA G-RF		0.000
ANTA CRF		0.029
AURIYA G-GF	44.584	0.000
AURIYA G-LF		0.000
AURIYA G-RF		0.000
AURIYA CRF		0.076
DADRI G -GF	67.357	0.000
DADRI G -LF		0.000
DADRI G -RF		0.316
DADRI CRF		0.320
SINGRAULI STPS	95.343	94.221
RIHAND STPS	67.954	66.167
RIHAND-II STPS	54.961	54.114
RIHAND -III STPS	74.840	74.457
DADRI-II	496.642	402.322
UNCHAHAR-I TPS	12.065	10.051
UNCHAHAR-II TPS	31.569	26.300
UNCHAHAR-III TPS	19.635	15.988
UNCHAHAR-IV TPS	0.000	0.000
JHAJJAR	341.069	341.069
MEJA TPS	0.000	0.000
TRANDA-II TPS	0.000	0.000
FARAKA	15.219	12.123
KAHALGAON-I	29.854	26.455
KAHALGAON-II	103.834	93.429
SASAN	297.751	297.703

NAME OF STATION	AVAILABILITY	SCHEDULE
NABINAGAR STPS (BRBCL)	12.102	12.102
BAIRASIUL HEP	1.403	1.403
SALAL HEP	6.231	6.231
TANAKPUR HEP	0.845	0.845
CHAMERA HEP	2.615	2.615
CHAMERA HEP-II	3.550	3.550
CHAMERA-III	0.807	0.807
URI HEP	4.259	4.259
URI-II HEP	3.985	3.985
SEWA-II	0.823	0.823
DHAULIGANGA HEP	2.823	2.823
DULHASTI HEP	9.146	9.146
PARVATI-III	0.431	0.431
NATHPA JHAKRI HEP	17.382	17.382
TEHRI HEP	15.981	15.981
KOTESWAR	9.001	9.001
SINGRAULI SHEP	0.583	0.583
TALA	0.000	0.000
KISHAN GANGA	0.000	0.000
KOLDAM	0.000	0.000
RAMPUR	0.000	0.000
NAPP	17.441	17.441
RAPP C	36.805	36.805
RAPPPB-4 C	0.000	0.000
KUDGI STPS-I	0.000	0.000
Total	**1929.051**	**1661.353**
LTA	**796.793**	**796.793**
Short Term (Purchase)	**440.983**	**401.960**
Short Term (Sale)		**-442.959**
TOTAL AVAILABILITY	**4175.034**	**2782.984**

8. SHEDDING DETAILS DURING THE MONTH OF JANUARY 2024

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
01.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
02.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
03.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
04.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
05.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
06.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
07.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
09.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.01.24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31.01.24	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
01.01.24	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
02.01.24	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
03.01.24	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
04.01.24	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
05.01.24	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
06.01.24	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
07.01.24	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
08.01.24	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
09.01.24	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
10.01.24	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
11.01.24	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
12.01.24	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
13.01.24	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
14.01.24	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
15.01.24	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
16.01.24	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
17.01.24	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
18.01.24	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
19.01.24	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
20.01.24	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
21.01.24	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
22.01.24	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
23.01.24	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
24.01.24	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
25.01.24	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
26.01.24	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
27.01.24	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
28.01.24	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
29.01.24	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
30.01.24	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
31.01.24	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
01.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
02.01.24	0.000	0.000	0.031	0.000	0.000	0.000	0.003	0.000	0.000
03.01.24	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
04.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
05.01.24	0.000	0.000	0.115	0.000	0.000	0.004	0.000	0.000	0.000
06.01.24	0.000	0.000	0.001	0.000	0.000	0.000	0.010	0.000	0.000
07.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000
09.01.24	0.000	0.110	0.003	0.000	0.000	0.000	0.000	0.000	0.000
10.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.01.24	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14.01.24	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000
15.01.24	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18.01.24	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
19.01.24	0.000	0.000	0.002	0.000	0.000	0.003	0.000	0.000	0.000
20.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.01.24	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.037	0.000
23.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.034	0.000	0.000
26.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.037	0.000	0.000
27.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000
28.01.24	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000
29.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000
30.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31.01.24	0.009	0.069	0.144	0.000	0.000	0.000	0.001	0.024	0.000
TOTAL	0.037	0.179	0.307	0.000	0.000	0.006	0.100	0.064	0.000

ALL FIGURES IN MUs

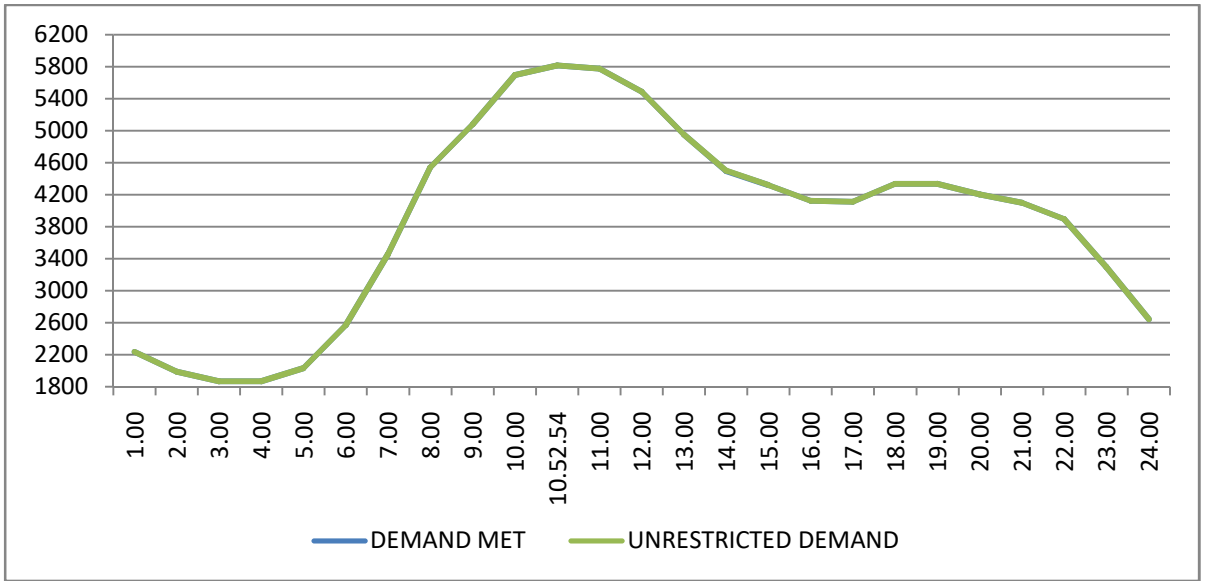
DATE	OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.				THEFT PRONE SHEDDING			TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE	GRAND TOTAL
	BSES		TPDDL	NDMC	BSES		TPDDL		
	BYPL	BRPL			BYPL	BRPL			
1	35	36	37	38	39	40	41	42= 26 to 41	43 = 25 + 42
01.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
02.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.033	0.033
03.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001
04.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001
05.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.119	0.119
06.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.011
07.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010
09.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.113	0.113
10.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.015
13.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002
15.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.012
16.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002
19.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.005
20.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.040	0.040
23.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.035	0.035
26.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.037	0.037
27.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002
28.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.006
29.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.003
30.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31.01.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.247	0.247
TOTAL	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	0.693	0.693

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
01.01.24	79.265	5134	10:29:44	0	5134	5134	10:29:44	5134	0
02.01.24	81.285	4910	10:50:15	0	4910	4910	10:50:15	4910	0
03.01.24	85.924	5257	11:14:36	0	5257	5257	11:14:36	5257	0
04.01.24	88.895	5241	10:45:26	0	5241	5241	10:45:26	5241	0
05.01.24	90.887	5538	10:20:19	0	5538	5538	10:20:19	5538	0
06.01.24	86.942	5137	10:53:27	0	5137	5137	10:53:27	5137	0
07.01.24	82.349	5106	10:50:26	0	5106	5106	10:50:26	5106	0
08.01.24	91.252	5337	10:51:47	5.7	5342.7	5342.7	10:51:47	5337	5.7
09.01.24	93.074	5435	10:57:10	0	5435	5435	10:57:10	5435	0
10.01.24	94.205	5611	11:08:29	0	5611	5611	11:08:29	5611	0
11.01.24	92.493	5422	10:01:29	0	5422	5422	10:01:29	5422	0
12.01.24	93.633	5700	10:49:50	0	5700	5700	10:49:50	5700	0
13.01.24	90.727	5335	10:00:08	0	5335	5335	10:00:08	5335	0
14.01.24	86.011	5463	10:45:03	0	5463	5463	10:45:03	5463	0
15.01.24	90.699	5478	10:00:47	0	5478	5478	10:00:47	5478	0
16.01.24	94.009	5434	10:23:19	0	5434	5434	10:23:19	5434	0
17.01.24	93.793	5725	10:53:44	0	5725	5725	10:53:44	5725	0
18.01.24	90.939	5467	9:58:23	0	5467	5467	9:58:23	5467	0
19.01.24	94.535	5798	10:20:47	0	5798	5798	10:20:47	5798	0
20.01.24	90.701	5491	11:02:37	0	5491	5491	11:02:37	5491	0
21.01.24	87.739	5522	11:46:10	0	5522	5522	11:46:10	5522	0
22.01.24	90.565	5816	10:52:54	0	5816	5816	10:52:54	5816	0
23.01.24	92.675	5526	10:36:58	0	5526	5526	10:36:58	5526	0
24.01.24	93.052	5709	10:45:02	0	5709	5709	10:45:02	5709	0
25.01.24	92.670	5537	10:14:22	0	5537	5537	10:14:22	5537	0
26.01.24	78.729	4888	10:48:56	0	4888	4888	10:48:56	4888	0
27.01.24	79.481	4969	9:59:59	0	4969	4969	9:59:59	4969	0
28.01.24	82.893	5054	11:00:55	0	5054	5054	11:00:55	5054	0
29.01.24	86.194	5259	10:20:00	0	5259	5259	10:20:00	5259	0
30.01.24	85.060	5269	10:29:36	0	5269	5269	10:29:36	5269	0
31.01.24	88.838	5318	10:35:24	0	5318	5318	10:35:24	5318	0
TOTAL	2749.513	**5816**				**5816**			
		22.01.24							

9. LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING JANUARY 2024 ON 22.01.2024 - 5816MW AT 10.52.54HRS.

All figures in MW

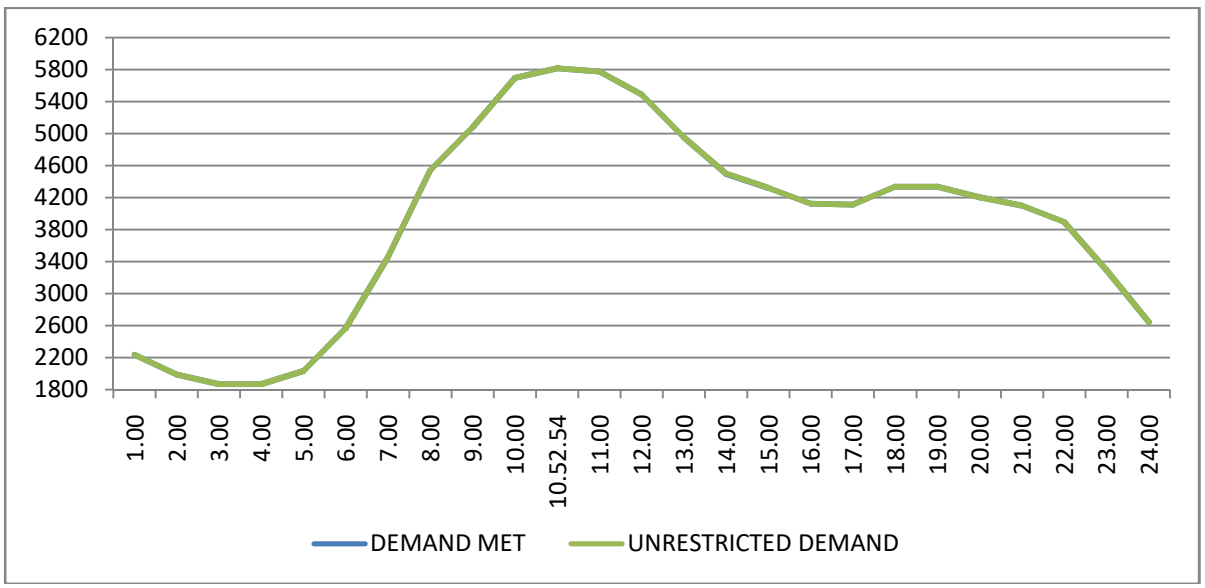
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	2235	0	2235
2.00	1990	0	1990
3.00	1869	0	1869
4.00	1867	0	1867
5.00	2031	0	2031
6.00	2567	0	2567
7.00	3456	0	3456
8.00	4537	0	4537
9.00	5077	0	5077
10.00	5694	0	5694
10.52.54	5816	0	5816
11.00	5774	0	5774
12.00	5487	0	5487
13.00	4951	0	4951
14.00	4496	2.21	4498.21
15.00	4321	0	4321
16.00	4124	0	4124
17.00	4113	0	4113
18.00	4334	0	4334
19.00	4334	0	4334
20.00	4205	0	4205
21.00	4098	0	4098
22.00	3895	0	3895
23.00	3297	0	3297
24.00	2645	0	2645
Total (IN MUS)	**90.525**	**0.0340**	**90.559**



10 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING JANUARY 2024 ON 22.01.2024-5816MW AT 10.52.54HRS.

All figures in MW

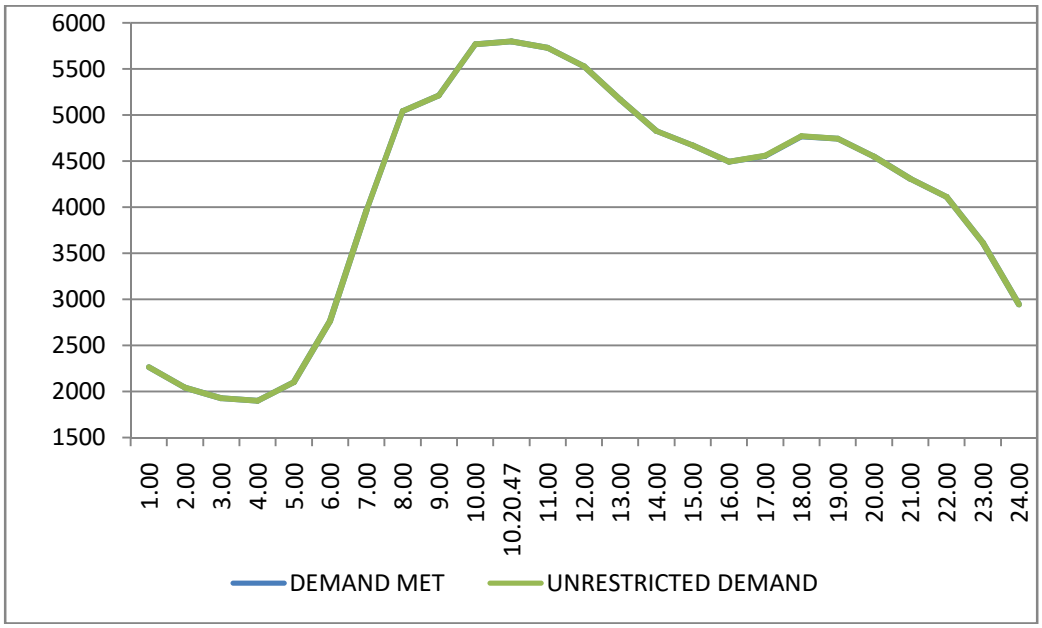
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	2235	0	2235
2.00	1990	0	1990
3.00	1869	0	1869
4.00	1867	0	1867
5.00	2031	0	2031
6.00	2567	0	2567
7.00	3456	0	3456
8.00	4537	0	4537
9.00	5077	0	5077
10.00	5694	0	5694
10.52.54	5816	0	5816
11.00	5774	0	5774
12.00	5487	0	5487
13.00	4951	0	4951
14.00	4496	2.21	4498.21
15.00	4321	0	4321
16.00	4124	0	4124
17.00	4113	0	4113
18.00	4334	0	4334
19.00	4334	0	4334
20.00	4205	0	4205
21.00	4098	0	4098
22.00	3895	0	3895
23.00	3297	0	3297
24.00	2645	0	2645
Total (IN MUS)	**90.525**	**0.0340**	**90.559**



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING JANUARY 2024 – 19.01.2024 – 94.530Mus

All figures in MW

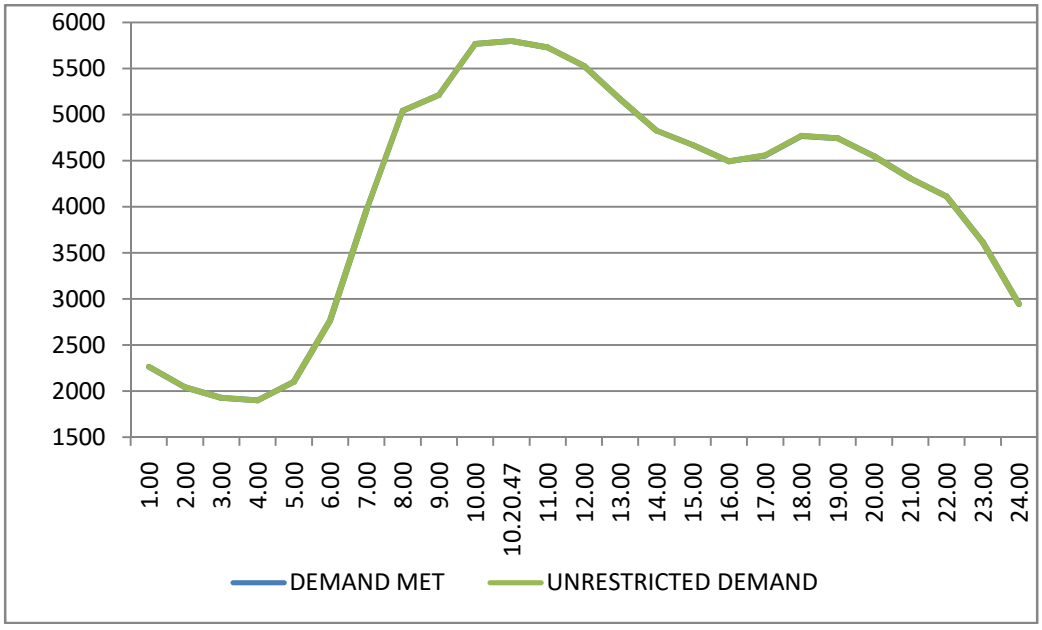
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	2265	0	2265
2.00	2043	0	2043
3.00	1926	0	1926
4.00	1900	0	1900
5.00	2102	0	2102
6.00	2764	0	2764
7.00	3963	0	3963
8.00	5040	0	5040
9.00	5209	0	5209
10.00	5766	0	5766
10.20.47	5798	0	5798
11.00	5729	0	5729
12.00	5525	0	5525
13.00	5167	0	5167
14.00	4825	0	4825
15.00	4669	0	4669
16.00	4492	0	4492
17.00	4556	3	4559
18.00	4768	1	4769
19.00	4741	0	4741
20.00	4546	0	4546
21.00	4307	0	4307
22.00	4111	0	4111
23.00	3615	0	3615
24.00	2945	0	2945
Total (IN MUS)	**94.530**	**0.005**	**94.535**



12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING JANUARY 2024 19.01.2024- 94.530MUs

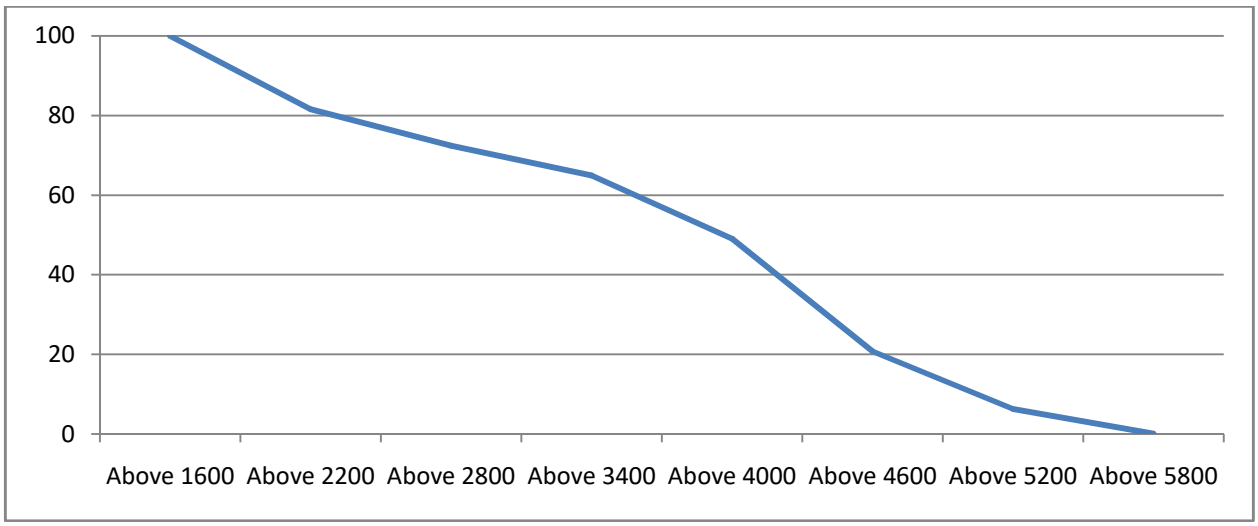
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	2265	0	2265
2.00	2043	0	2043
3.00	1926	0	1926
4.00	1900	0	1900
5.00	2102	0	2102
6.00	2764	0	2764
7.00	3963	0	3963
8.00	5040	0	5040
9.00	5209	0	5209
10.00	5766	0	5766
10.20.47	5798	0	5798
11.00	5729	0	5729
12.00	5525	0	5525
13.00	5167	0	5167
14.00	4825	0	4825
15.00	4669	0	4669
16.00	4492	0	4492
17.00	4556	3	4559
18.00	4768	1	4769
19.00	4741	0	4741
20.00	4546	0	4546
21.00	4307	0	4307
22.00	4111	0	4111
23.00	3615	0	3615
24.00	2945	0	2945
Total (IN MUS)	**94.530**	**0.005**	**94.535**



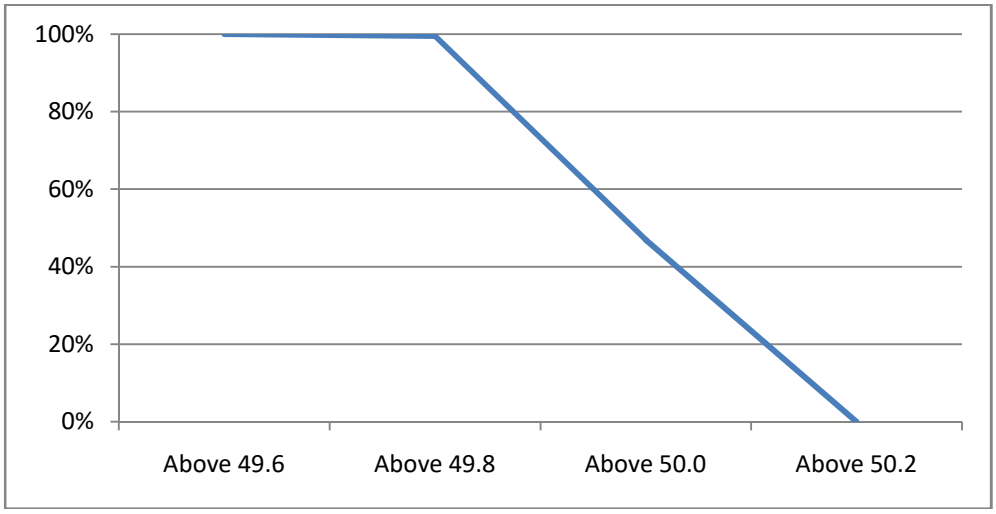
13 LOAD DURATION CURVE FOR JANUARY 2024

LOAD REMAINED ABOVE IN MW	(%) OF TIME
Above 1600	100
Above 2200	81.55
Above 2800	72.41
Above 3400	64.95
Above 4000	49.03
Above 4600	20.7
Above 5200	6.25
Above 5800	0.1



14 FREQUENCY ANALYSIS FOR THE MONTH OF JANUARY 2024

FREQUENCY REMAINED ABOVE IN HZ	(%) OF TIME
Above 49.6	100.00
Above 49.8	99.43
Above 50.0	46.87
Above 50.2	0.00



15 VOLTAGE PROFILE OF 220 KV SUB-STATIONS IN DELHI DURING JANUARY 2024

All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
01.01.24	231.2	214.28	234.81	220.8
02.01.24	231.92	214.23	234.74	222.03
03.01.24	231.12	213.82	235.5	221.28
04.01.24	230.71	215.21	233.67	219.88
05.01.24	230.57	211.04	232.42	216.45
06.01.24	233.39	217.94	235.36	221.61
07.01.24	231	217.68	233.92	223.71
08.01.24	233.03	214.3	234.42	204.03
09.01.24	233.93	216.58	234.78	222.65
10.01.24	233.6	0	235.93	223.85
11.01.24	233.01	215.42	234.8	220.26
12.01.24	231.5	212.57	234.43	218.42
13.01.24	232.55	214.98	235.37	220.31
14.01.24	231.61	218.6	235.41	224.42
15.01.24	232.45	213.58	234.88	219.33
16.01.24	232.4	216.58	235.03	222.82
17.01.24	230.95	216.23	235.14	221.86
18.01.24	231.45	216.15	235.57	220.11
19.01.24	232.08	214.77	235.67	220.7
20.01.24	231.91	216.97	235.71	223.41
21.01.24	232.72	214.18	236.87	219.2
22.01.24	231.74	214.2	235.35	220.31
23.01.24	232.4	215.34	237.14	222.77
24.01.24	230.71	215.87	233.86	220.67
25.01.24	231.48	215.38	234.99	221.7
26.01.24	232.19	214.8	235.92	221.43
27.01.24	232.29	212.8	234.96	222.32
28.01.24	231.71	217.17	235.29	224.14
29.01.24	232.18	217.56	235.67	223.86
30.01.24	231.85	217.75	234.97	224.08
31.01.24	233.09	217.89	236.74	224.38

16 VOLTAGE PROFILE OF 400 KV SUB-STATIONS IN DELHI DURING JANUARY 2024

All figures in kV

Date	400kV Bamnauli Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01.01.24	420.59	23:35:19	390.84	11:05:35	409.48
02.01.24	420.73	0:54:03	392.09	10:20:50	408.38
03.01.24	420.28	23:51:22	392.12	11:32:29	407.82
04.01.24	419.25	0:00:13	393.51	12:47:52	407.88
05.01.24	418.35	3:00:48	385.67	11:06:14	408.85
06.01.24	421.43	4:00:47	396.33	9:21:53	410.45
07.01.24	418.51	4:00:09	395.36	9:37:47	411.19
08.01.24	421.51	3:31:12	391.61	10:15:54	408.92
09.01.24	421.9	4:00:57	395.03	11:53:01	408.41
10.01.24	423.11	4:01:08	394.22	10:25:42	408.76
11.01.24	421.14	4:00:09	393.23	9:17:19	409.2
12.01.24	421.04	3:59:56	387.33	10:38:13	408.68
13.01.24	422.07	4:00:52	389.73	9:34:11	410.28
14.01.24	421.55	23:41:38	395.73	9:32:28	411.38
15.01.24	422.25	2:19:18	389.82	10:44:47	408.25
16.01.24	421.22	4:01:10	391.28	10:32:23	407.54
17.01.24	420.9	4:00:25	392.43	9:09:14	407.57
18.01.24	420.81	4:00:39	392.55	11:36:02	407.87
19.01.24	420.31	3:01:17	391.83	11:36:11	407.81
20.01.24	419.19	3:00:26	390.75	12:22:12	407.64
21.01.24	421.41	4:00:26	389.74	10:08:23	408.42
22.01.24	419.71	3:01:22	388.18	12:19:19	406.73
23.01.24	422.48	3:59:57	393.72	10:34:36	408.31
24.01.24	418.39	0:08:45	388.49	12:43:31	405.44
25.01.24	418.85	4:01:04	390.61	10:50:24	406.54
26.01.24	420.4	4:00:24	391.77	10:18:03	409.98
27.01.24	422.62	4:00:35	391.26	10:38:54	408.5
28.01.24	419.91	4:00:34	394.93	11:17:16	409.3
29.01.24	420.16	2:59:16	393.79	11:16:31	408.81
30.01.24	419.08	4:01:58	393.31	11:19:30	408.46
31.01.24	420.22	23:58:21	394.53	9:47:21	410.13

All figures in kV

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01.01.24	418.05	0:15:37	391.64	11:05:38	408.58
02.01.24	418.15	0:01:26	394.38	10:18:53	407.59
03.01.24	417.93	23:51:29	389.93	12:27:06	406.7
04.01.24	417.36	0:00:09	389.75	12:48:50	406.14
05.01.24	415.13	3:00:03	386.16	11:11:39	406.4
06.01.24	418.15	4:00:38	395.82	11:33:18	408.68
07.01.24	415.64	4:00:14	397.5	9:22:15	409.64
08.01.24	419.2	2:55:00	395.33	10:18:49	408.34
09.01.24	420.33	4:00:45	394.6	12:05:47	407.69
10.01.24	420.15	4:01:31	393.29	11:04:22	407.52
11.01.24	418.34	4:00:33	391.78	9:17:39	407.99
12.01.24	418.47	3:59:31	389.64	10:38:01	407.94
13.01.24	418.97	4:00:50	392.63	10:34:59	408.95
14.01.24	418.21	23:42:13	398.34	9:37:30	409.58
15.01.24	418.97	3:59:17	389.69	10:45:38	406.53
16.01.24	418.13	4:00:25	391.55	11:38:04	406.01
17.01.24	418.8	4:00:25	393.59	12:18:51	406.7
18.01.24	418.05	4:00:42	392.03	11:44:14	407.06
19.01.24	419.12	3:01:21	390.76	12:36:31	407.31
20.01.24	418.77	4:00:10	394.83	12:22:29	409.06
21.01.24	422.51	4:00:27	392.8	11:09:18	409.24
22.01.24	419.57	3:01:16	388.11	12:19:13	408.23
23.01.24	422.53	3:59:58	392.83	11:17:51	408.42
24.01.24	417.89	0:16:59	387.82	12:43:38	406.31
25.01.24	417.7	4:01:04	391.99	11:17:36	407.35
26.01.24	420.56	4:00:27	394.39	10:18:27	411.34
27.01.24	422.48	4:00:42	393.27	11:17:24	409.97
28.01.24	421.31	4:00:36	396.89	11:17:09	411.21
29.01.24	421.03	3:00:14	394.66	11:16:50	410.71
30.01.24	419.71	4:02:39	394.69	11:24:02	410.26
31.01.24	423.76	23:44:28	0	4:19:54	403.97

17 DETAILS OF BREAK-DOWNS/TRIPPING DURING THE MONTH OF JANUARY 2024

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
1	01.01.24	11:53	SARITA VIHAR 220/66kV 160MVA TR. -I	01.01.24	17:20	R PHASE, O/C, 86.
2	01.01.24	15:36	TUGHLAKABAD 220/66KV 160MVA PR. TR. -I	01.01.24	16:36	86
3	01.01.24	23:38	220kV Harsh Vihar - Preet Vihar Ckt-II	02.01.24	12:02	AT HARSH VIHAR : PD RELAY, AUTO RECLOSE.
4	02.01.24	9:33	220kV BAWANA - KANJHAWALA CKT-2	02.01.24	10:23	AT KHANJAWALA : RYB PHASE, E/F, 86.
5	02.01.24	9:33	220kV BAWANA - KANJHAWALA CKT - 1	02.01.24	10:23	AT KHANJAWALA : E/F, RYB PHASE, 86
6	02.01.24	10:39	220kV BAWANA - KANJHAWALA CKT-2	02.01.24	14:56	AT BAWANA : 86.
7	02.01.24	11:38	SUBZI MANDI 33/11kV, 16MVA Tx-I	02.01.24	17:05	DIFFERENTIAL, 86.
8	02.01.24	11:38	SUBZI MANDI 33/11kV, 16MVA Tx-II	02.01.24	12:05	DIFFERENTIAL, 86
9	02.01.24	11:52	220kV KANJHAWALA-NAJAFGARH CKT	02.01.24	13:05	AT NAJAFGARH : RYB PHASE, DIST PROT, ZONE-II, DIST 13.38KM, DIFFERENTIAL.
10	03.01.24	9:15	220kV MAHARANI BAGH - LODHI ROAD CKT-II	03.01.24	12:17	AT LODHI ROAD : DIFFERENTIAL, DIST PROT, ZONEI, II, III.
11	04.01.24	12:30	PATPARGANJ 33/11kV, 16MVA Tx	04.01.24	18:05	86, B PHASE, DIFFERETIAL.
12	04.01.24	12:30	PATPARGANJ 33/11kV, 16MVA Tx	04.01.24	18:05	86, DIFFERENTIAL PROT.
13	05.01.24	4:32	PRAGATI 220/66kV 160MVA Tx-II	05.01.24	20:33	TRIPPED DUE TO INTERTRIPPING OF GT.
14	05.01.24	10:29	NARELA 66/11kV, 20MVA Tx-I	05.01.24	13:58	DIFFERENTIAL. R PHASE.
15	05.01.24	10:29	NARELA 220/66kV 100MVA Tx-III	05.01.24	10:53	TRIPPED WITHOUT INDICATION.
16	05.01.24	10:29	NARELA 220/66kV 100MVA Tx-I	05.01.24	10:53	TRIPPED WITHOUT INDICATOIN.
17	05.01.24	10:29	NARELA 220/66kV 100MVA Tx-II	05.01.24	10:53	Y&B PHASE.
18	05.01.24	10:29	220kV DSIIDC BAWANA-NARELA CKT-I	05.01.24	11:13	AT DSIDC BAWANA : 86.
19	05.01.24	14:01	220kV DSIIDC BAWANA-NARELA CKT-I	05.01.24	15:53	AT DSIDC BAWANA : DIST PROT,
20	06.01.24	4:58	220KV BAWANA-SHALIMARBAGH CKT-I	06.01.24	15:00	AT SHALIMARBAGH : Y&B PHASE, DIFFERENTIAL.
21	06.01.24	4:58	SGTN 220/66kV 160MVA TR. -I	06.01.24	14:22	86, REF.
22	07.01.24	15:25	RAJGHAT 220/33kV 100MVA Tx-I	07.01.24	15:52	86
23	08.01.24	10:25	220kV MAHARANI BAGH - SARITA VIHAR CKT	08.01.24	15:19	AT SARITA VIHAR : DIST PROT, ZONE-I, R PHASE, DIST 9.3KM.
24	08.01.24	12:30	SUBZI MANDI 33/11kV, 16MVA Tx-I	08.01.24	12:47	DIFFERENTIAL, RYB PHASE.
25	11.01.24	3:20	SARITA VIHAR 220/66kV 100MVA Tx-III	11.01.24	20:31	HV REF.
26	12.01.24	4:12	WAZIRABAD 220/66kV 100MVA Tx-II	12.01.24	5:15	O/C, E/F, 86
27	12.01.24	4:12	WAZIRABAD 220/66kV 160MVA Tx-I	12.01.24	5:25	O/C, E/F, 86
28	12.01.24	4:12	WAZIRABAD 220/66kV 100MVA Tx-I	12.01.24	5:15	E/F, O/C, 86.
29	12.01.24	4:12	WAZIRABAD 220/66kV 100MVA Tx-III	12.01.24	8:00	O/C, E/F, 86
30	12.01.24	15:04	WAZIRABAD 220/66kV 100MVA Tx-III	12.01.24	15:30	86
31	14.01.24	8:05	220kV BAWANA-DSIIDC BAWANA CKT-I	14.01.24	19:04	AT DIDC BAWANA : DIST PROT, ZONE-I. RYB PHASE.

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
32	15.01.24	15:15	220kV MEHRAULI - VASANT KUNJ CKT.- II	15.01.24	15:42	AT MEHRAULI : RYB PHASE,
33	18.01.24	0:40	SHALIMAR BAGH 220/33kV 100MVA Tx-I	18.01.24	3:13	O/C, B PHASE.
34	18.01.24	18:18	KASHMIRI GATE 33/11kV, 20MVA Tx	18.01.24	20:50	O/C, E/F, R PHASE.
35	19.01.24	16:47	NARELA 66/11kV, 20MVA Tx-II	19.01.24	16:57	TRIPPED WITHOUT INDICATION.
36	20.01.24	11:00	220KV GAZIPUR - MAHARANIBAGH CKT. -I	20.01.24	19:38	AT GAZIPUR : DIST PROT, ZONE-I, 86, RYB PHASE. AT MAHARANI BAGH : DIST PROT, ZONE-I, DIST 6.2KM. B PHASE.
37	22.01.24	13:17	KANJHAWALA 66/11kV, 20MVA Tx-II	22.01.24	15:31	86
38	23.01.24	0:24	220kV GOPALPUR-SUBZI MANDI CKT-II	23.01.24	14:20	AT GOPALPUR : 86ABC, Y&B PHASE, DIST PROT, ZONE-I, DIST 6.156KM.
39	26.01.24	3:51	220kV MAHARANI BAGH - SARITA VIHAR CKT	26.01.24	11:15	AT SARITA VIHAR : DIST PROT, ZONE-I, R PHASE, 186. AT MAHARANI BAGH : DIST PROT, ZONE-II, DIST 9.4KM
40	28.01.24	10:33	GOPALPUR 220/33kV 100MVA Tx-I	28.01.24	10:54	DIFFERENTIAL, 186ABC.
41	28.01.24	20:55	220kV SARITA VIHAR - BTPS CKT.-II	28.01.24	20:58	AT SARITA VIHAR : LOW AIR PRESSURE.
42	31.01.24	3:17	400kV Bawana-Mundka Ckt-I	31.01.24	4:54	AT MUNDKA : Group 86, A&B, HSR, 86LO, Dist prot, Dist 22.42Km
43	31.01.24	3:17	400kV Bawana-Mundka Ckt-II	31.01.24	4:54	AT MUNDKA : 186LO, 86LO, RYB Phase, Dist prot, Dist 24.09Km.
44	31.01.24	21:05	220kV MEHRAULI - VASANT KUNJ CKT.- II	01.02.24	21:40	AT MEHRAULI : DIST PROT, ZONE-I, RYB PHASE, 86. AT VASANT KUNJ : 186AB, LBB, DIFFERENTIAL.
45	31.01.24	21:25	SARITA VIHAR 220/66kV 100MVA Tx-III	01.02.24	12:30	TRIPPED WITHOUT INDICATOIN.
46	31.01.24	21:37	WAZIRABAD 66/11kV, 20MVA Tx-III	01.02.24	14:30	E/F.
47	31.01.24	21:37	WAZIRABAD 66/11kV, 20MVA Tx-IV	01.02.24	2:32	E/F

18 DETAILS OF UNDER FREQUENCY RELAY OPERATIONS IN DELHI POWER SYSTEM DURING THE MONTH OF JANUARY 2024

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