DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

PROGRESS REPORT

****

FEBRUARY 2023

1 SALIENT FEATURES OF DELHI POWER SYSTEM

Sr. No.	Features	FEB. 2022	FEB. 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
	Total	**2156**	**2181**
2	**Maximum Unrestricted Demand (MW)**	**4985**	**4667**
	Date	04.02.2022	01.02.23
	Time	10.11.29	09.59.26
3	**Peak Demand met (MW)**	**5024**	**4667**
	Date	04.02.2022	01.02.23
	Time	10.11.29	09.59.26
4	Peak Availability (MW)	4834	4792
5	Shortage (-) / Surplus (+) in MW	(-) 151	(+) 125
6	Percentage Shortage (-) / Surplus (+)	(-) 3.03	(+) 2.68
7	Maximum Energy Consume in a day (Mus)	78.267	77.505
8	Energy Consumed during the month	**1872.937**	**1919.941**
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	0.018	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	**0.018**	**0.000**
B)	Due to Constraints in System in Mus		
	DTL	0.239	0.064
	TPDDL	0.045	1.705
	BRPL	0.010	0.007
	BYPL	0.000	0.017
	NDMC	0.000	0.000
	MES	0.000	0.000
	Other Agencies	0.002	0.000
	Total	**0.296**	**1.794**
10	**Grand Total in Mus**	**0.314**	**1.794**

2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING FEBRUARY 2023

A) For the month of Feb 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	0.112	-0.112	--	--
2.	GT	26.462	1.281	25.181	14.31	31.037
3.	PPCL	35.481	1.048	34.433	16.32	165.467
4.	Bawana	200.608	6.391	194.217	21.57	646.721
5.	Towmcl	13.170	1.727	11.443	--	--
6.	EDWPCL	1.892	0.796	1.096	--	--
7.	DMSWL	14.540	2.018	12.522	--	--
8.	TWEPL	14.982	1.766	13.216	--	--
	TOTAL	**307.135**	**15.139**	**291.996**	--	843.225

B) For the Year 2022-23 (Upto Feb 2023)

Power Station	Effective Capacity (MW)	Net Generation in MUs for Feb 2023	Availability (%) for Feb 2023	PLF (%) For Feb 2023	Cumulative Generation in MUs upto Feb 2023 for the year 2022-23	Cumulative Availability in % upto Feb 2023 or the year 2022-23
RPH	135	-0.112	--	--	-1.336	--
GT	270	25.181	31.95	14.31	292.633	31.49
PPCL	330	34.433	93.24	16.32	833.241	90.47
Bawana	1372	194.217	90.56	21.57	2426.201	93.43
Towmcl	16	11.443	--	--	133.384	--
EDWPCL	10	1.096	--	--	17.482	--
DMSWL	24	12.522	--	--	121.48	--
TWEPL	25	13.216	--	--	37.76	--
TOTAL	2182	**291.996**	--	--	**3861.251**	--

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

RPH

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	**67.5**	08.05.15	13.40			Not in operation due to not meeting pollution norms.
2	**67.5**	21.05.15	10.20			Not in operation due to not meeting pollution norms.

(B) Gas Turbine

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	**30**	06.02.23	17.10	28.02.23	23.59	Unit under shutdown due to low demand
2	**30**	01.02.23	00.00	28.02.23	23.59	Unit out due to generator rotar problem
3	**30**	NIL				
4	**30**	NIL				
5	**30**	01.02.23	00.00	17.02.23	10.49	Unit under shutdown due to low demand
6	**30**	01.02.23	00.00	06.02.23	09.50	Unit under shutdown due to low demand
		17.02.23	11.30	28.02.23	23.59	Unit under shutdown due to low demand
STG-1	**30**	06.02.23	16.23	28.02.23	23.59	Unit under shutdown due to low demand
STG-2	**30**	NIL				
STG-3	**30**	01.02.23	00.00	06.02.23	15.30	Unit under shutdown due to low demand
		10.02.23	12.15	10.02.23	13.35	Unit tripped due to C&I malfunctioning
		15.02.23	21.20	15.02.23	21.57	Unit tripped due to C&I malfunctioning
		17.02.23	04.18	17.02.23	14.10	Unit desynchronized due to changeover from GT-5 TO GT-6
		18.02.23	10.05	18.02.23	11.18	Unit tripped due to low vaccume level
		27.02.23	14.10	27.02.23	17.28	Unit tripped on durm level low due to C&I malfunctioning

(C) PRAGATI

Unit No	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	**104**	01.02.23	00.00	16.02.23	15.34	Unit stopped due to low demand
		18.02.23	20.00	28.02.23	23.59	Unit stopped due to low demand
2	**104**	01.02.23	00.00	16.02.23	07.10	Unit stopped due to low demand
		21.02.23	03.45	21.02.23	05.22	Tripped on internal fault
		23.02.23	20.50	28.02.23	23.59	Unit stopped due to low demand
STG	**122**	01.02.23	00.00	07.02.23	17.00	Unit stopped due to low demand
		07.02.23	17.00	15.02.23	07.00	Unit under shutdown
		15.02.23	07.00	16.02.23	14.06	Unit stopped due to low demand
		21.02.23	03.45	21.02.23	07.14	STG tripped alongwith GT-2
		23.02.23	20.47	28.02.23	23.59	Unit stopped due to low demand

(D) BAWANA CCGT POWER STATION

Unit	Capacity in MW	Outage		Synchronization		Reason of Outage
		Date	Time	Date	Time	
1	216	NIL				
2	216	NIL				
3	216	NIL				
4	216	NIL				
STG -1	254	15.02.23	10.00	28.02.23	23.59	OVERHAULING OF STG.
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 FEBRUARY 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	9:59:26	41	-1	303	17	3	21	24	407	4260	4384	-124	4667	0	4667
2	10:10:53	40	0	29	19	2	18	25	133	4053	4112	-59	4186	0	4186
3	10:00:15	40	0	305	18	0	14	19	396	4244	4284	-40	4640	0	4640
4	10:45:34	38	0	315	19	0	9	18	399	3673	3804	-131	4072	19	4091
5	10:26:29	39	0	317	19	0	18	21	414	3843	3923	-80	4257	0	4257
6	10:02:29	69	0	313	17	3	19	19	440	3699	3930	-231	4139	0	4139
7	9:51:31	38	0	312	19	3	21	22	415	3682	3724	-42	4097	0	4097
8	10:20:53	39	0	319	19	3	18	24	422	3775	3688	87	4197	0	4197
9	9:54:04	39	0	353	19	4	19	19	453	3574	3641	-67	4027	0	4027
10	10:01:28	38	0	317	18	4	20	20	417	3683	3772	-89	4100	0	4100
11	9:53:42	39	0	320	16	4	19	24	422	3422	3360	62	3844	0	3844
12	10:41:36	38	0	321	12	4	19	27	421	3455	3412	43	3876	0	3876
13	9:38:41	39	0	313	9	4	21	26	412	3578	3628	-50	3990	0	3990
14	9:44:44	38	0	320	13	4	18	25	418	3618	3609	9	4036	8	4044
15	9:45:22	38	0	319	19	4	21	24	425	3688	3682	6	4113	30	4144
16	9:39:06	38	35	321	19	3	20	21	457	3501	3489	12	3958	0	3958
17	10:02:33	30	320	313	19	3	20	14	719	3366	3480	-114	4085	0	4085
18	9:41:38	20	317	321	19	3	21	23	724	3220	3395	-175	3944	0	3944
19	10:13:49	20	149	278	19	3	19	-2	486	3151	3230	-79	3637	0	3637
20	10:12:57	21	153	278	14	2	19	24	510	3233	3270	-37	3743	0	3743
21	10:27:37	39	149	320	13	2	19	21	563	3207	3235	-28	3770	0	3770
22	10:19:45	39	150	320	12	0	18	18	557	3357	3328	29	3914	0	3914
23	11:06:48	39	149	286	17	0	19	17	527	3189	3174	15	3716	0	3716
24	10:26:57	38	0	320	18	2	20	10	408	3541	3657	-116	3949	0	3949
25	10:57:55	39	0	320	18	2	20	11	410	3265	3253	12	3675	0	3675
26	10:30:31	39	0	290	19	3	20	10	381	3232	3217	15	3613	0	3613
27	10:32:03	39	0	323	19	3	21	24	429	3304	3280	24	3733	0	3733
28	10:26:49	39	0	280	19	3	19	24	384	3388	3334	54	3772	0	3772

6 **POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF MAXIMUM UNRESTRICTED DEMAND DURING FEBRUARY 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	9:59:26	41	-1	303	17	3	21	24	407	4260	4384	-124	4667	0	4667
2	10:10:53	40	0	29	19	2	18	25	133	4053	4112	-59	4186	0	4186
3	10:00:15	40	0	305	18	0	14	19	396	4244	4284	-40	4640	0	4640
4	10:45:34	38	0	315	19	0	9	18	399	3673	3804	-131	4072	19	4091
5	10:26:29	39	0	317	19	0	18	21	414	3843	3923	-80	4257	0	4257
6	10:02:29	69	0	313	17	3	19	19	440	3699	3930	-231	4139	0	4139
7	9:51:31	38	0	312	19	3	21	22	415	3682	3724	-42	4097	0	4097
8	10:20:53	39	0	319	19	3	18	24	422	3775	3688	87	4197	0	4197
9	9:54:04	39	0	353	19	4	19	19	453	3574	3641	-67	4027	0	4027
10	10:01:28	38	0	317	18	4	20	20	417	3683	3772	-89	4100	0	4100
11	9:53:42	39	0	320	16	4	19	24	422	3422	3360	62	3844	0	3844
12	10:41:36	38	0	321	12	4	19	27	421	3455	3412	43	3876	0	3876
13	9:38:41	39	0	313	9	4	21	26	412	3578	3628	-50	3990	0	3990
14	9:44:44	38	0	320	13	4	18	25	418	3618	3609	9	4036	8	4044
15	9:45:22	38	0	319	19	4	21	24	425	3688	3682	6	4113	30	4144
16	9:39:06	38	35	321	19	3	20	21	457	3501	3489	12	3958	0	3958
17	10:02:33	30	320	313	19	3	20	14	719	3366	3480	-114	4085	0	4085
18	9:41:38	20	317	321	19	3	21	23	724	3220	3395	-175	3944	0	3944
19	10:13:49	20	149	278	19	3	19	-2	486	3151	3230	-79	3637	0	3637
20	10:12:57	21	153	278	14	2	19	24	510	3233	3270	-37	3743	0	3743
21	10:27:37	39	149	320	13	2	19	21	563	3207	3235	-28	3770	0	3770
22	10:19:45	39	150	320	12	0	18	18	557	3357	3328	29	3914	0	3914
23	11:06:48	39	149	286	17	0	19	17	527	3189	3174	15	3716	0	3716
24	10:26:57	38	0	320	18	2	20	10	408	3541	3657	-116	3949	0	3949
25	10:57:55	39	0	320	18	2	20	11	410	3265	3253	12	3675	0	3675
26	10:30:31	39	0	290	19	3	20	10	381	3232	3217	15	3613	0	3613
27	10:32:03	39	0	323	19	3	21	24	429	3304	3280	24	3733	0	3733
28	10:26:49	39	0	280	19	3	19	24	384	3388	3334	54	3772	0	3772

7 **SOURCEWISE SCHEDULED DRAWL FROM NORTHERN GRID AS WELL AS**

AVAILABILITY WITHIN DELHI FOR FEBRUARY 2023

(ALL FIGURES IN MUS)

GENERATION WITHIN DELHI	AVAILABILITY	SCHEDULE
Rajghat Power House	0.000	0.000
Gas Turbine	56.223	25.185
Pragati-I	200.575	35.108
Pragati-III (Bawana)	840.520	193.799
Rithala	0.000	0.000
Badarpur	0.000	0.000
Renewable (include WTE)	32.440	32.440
TOTAL DELHI GEN.	1129.758	286.532

NAME OF STATION	AVAILABILITY	SCHEDULE
SINGRAULI STPS	89.684	74.674
RIHAND STPS	72.363	61.147
DADRI TPS	338.810	0.000
UNCHAHAR-I TPS	14.321	10.330
UNCHAHAR-II TPS	30.041	21.972
ANTA GPP-GF	31.333	0.000
ANTA GPP-LF	0.000	0.000
ANTA GPP-RF	0.000	0.000
ANTA CRF	0.000	0.000
AURAIYA GPP-GF	44.067	0.000
AURAIYA GPP-LF	0.000	0.000
AURAIYA GPP-RF	0.000	0.084
AURIYA CRF	0.000	0.000
DADRI GPP-GF	72.167	0.000
DADRI GPP-LF	0.000	0.008
DADRI GPP-RF	0.000	0.005
DADRI CRF	0.000	0.007
BAIRASIUL HEP	5.305	5.305
SALAL HEP	12.031	12.031
TANAKPUR HEP	1.115	1.115
CHAMERA HEP	5.749	5.749
URI HEP	23.936	23.936
NATHPA JHAKRI HEP	17.971	17.971
CHAMERA HEP-II	5.606	5.606
RIHAND-II STPS	94.151	79.870
DHAULIGANGA HEP	3.271	3.271
TEHRI HEP	16.548	16.548
UNCHAHAR-III TPS	18.318	13.261

NAME OF STATION	AVAILABILITY	SCHEDULE
DULHASTI HEP	3.253	3.253
DADRI II	534.891	384.098
SEWA-II	8.329	8.329
jhajjar	322.696	240.024
NAPP	29.338	29.338
RAPP C	29.430	29.430
RAPPB_4 C	0.000	0.000
KOTESWAR	9.019	9.019
SASAN	250.930	226.607
CHAMERA III	3.762	3.762
RIHAND3	49.402	41.881
KAHALGAON1	26.376	20.298
KAHALGAON2	108.832	82.277
TALA	0.000	0.000
FARAKA	10.601	10.601
URI 2 HEP	17.842	17.842
Parvati3	1.030	1.030
Koldam	0.159	0.159
SINGRAULI SHEP	0.518	0.518
UNCHAHAR - IV TPS	0.875	0.331
TALCHER (BTPS)	11.463	0.000
Nabinagar STPS(BRBCL)	0.072	7.371
Meja TPS	1.816	1.816
Tanda-II TPS	0.668	0.668
Rampur	1.437	1.437
Kishan Ganag	0.136	0.136
Surya kanta Hydro	0.000	0.000
Nanti Hydro	0.000	0.000
Teranda hydro	0.000	0.000
Ramagundum STPS I&II	4.136	4.136
Ramagundum STPS III	1.147	1.147
TALCHER STPS-II	1.458	1.458
SIMHADRI STPS -II	1.076	1.076
KUDGI STPS -I	3.733	3.733
NLC TPS(II)-1	0.642	0.642
NLC TPS(II)-2	0.914	0.914
NLC TPS(E)-1	1.160	1.160
NLC TPS(E)-2	0.553	0.553
NLC-NNTPS	0.086	0.086
NTECL-Vallur STPS	1.773	1.773
NTPL- TutIcorin	2.146	2.146
NPCIL-MAPS	0.132	0.132

NAME OF STATION	AVAILABILITY	SCHEDULE
NPCIL-KAIGA GS-1&2	1.338	1.338
NPCIL-KAIGA GS-3&4	1.418	1.418
NPCIL-KKNPP-1	1.064	1.064
KSTPS I&II	1.856	1.856
KSTPS7	0.901	0.901
VSTPS I	1.320	1.320
VSTPS II	1.305	1.305
VSTPS III	1.005	1.005
VSTPS IV	1.515	1.515
VSTPS-V	0.892	0.892
KAWAS KGPP	0.000	0.000
GANDHAR GGPP	0.000	0.000
SIPAT I	3.569	3.569
SIPAT II	0.633	0.633
MSTPS-I (MOUDA)	1.210	1.210
MSTPS-II (MOUDA_II)	2.352	2.352
SSTPP(SOLAPUR)	2.379	2.379
GSTPP(GADARWARA-I)	2.469	2.469
LSTPP9LARA-I)	2.277	2.277
KHTPP(KHARGONE-I)	1.581	1.581
KAPP	0.547	0.547
TAPP 3&4 (TAPS-II)	1.804	1.804
TOTAL	**2315.608**	**1469.056**
LTA	**599.336**	**599.336**
TOTAL (ISGS+LTA)	**2914.944**	**2068.392**
TOTAL AVAILABILITY	**4044.702**	**2354.924**

8. SHEDDING DETAILS DURING THE MONTH OF FEBRUARY 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
01.02.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
02.02.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
03.02.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
04.02.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
05.02.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
06.02.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
07.02.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08.02.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
09.02.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.02.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11.02.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.02.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13.02.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14.02.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.02.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16.02.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.02.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18.02.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19.02.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.02.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21.02.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.02.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23.02.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24.02.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.02.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26.02.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.02.23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28.02.23	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
01.02.23	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
02.02.23	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
03.02.23	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
04.02.23	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
05.02.23	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
06.02.23	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
07.02.23	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
08.02.23	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
09.02.23	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
10.02.23	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
11.02.23	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
12.02.23	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
13.02.23	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
14.02.23	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
15.02.23	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
16.02.23	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
17.02.23	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
18.02.23	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
19.02.23	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
20.02.23	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
21.02.23	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
22.02.23	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
23.02.23	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
24.02.23	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
25.02.23	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
26.02.23	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
27.02.23	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
28.02.23	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
01.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.059	0.000
02.02.23	0.001	0.000	0.002	0.000	0.000	0.000	0.000	0.001	0.000
03.02.23	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
04.02.23	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.230	0.000
05.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
06.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
07.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.043	0.000
08.02.23	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.161	0.000
09.02.23	0.000	0.000	0.033	0.000	0.000	0.000	0.000	0.024	0.000
10.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.000
11.02.23	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.006	0.000
12.02.23	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.026	0.000
14.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.292	0.000
15.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.109	0.000
16.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.033	0.000
17.02.23	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
18.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.000
19.02.23	0.000	0.013	0.000	0.000	0.000	0.000	0.000	0.073	0.000
20.02.23	0.000	0.005	0.000	0.000	0.000	0.007	0.000	0.000	0.000
21.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.060	0.000
22.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.025	0.000
23.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.314	0.000
25.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.207	0.000
26.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.033	0.000
28.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

TOTAL	**0.003**	**0.021**	**0.041**	**0.000**	**0.000**	**0.017**	**0.007**	**1.705**	**0.000**

ALL FIGURES IN MUs

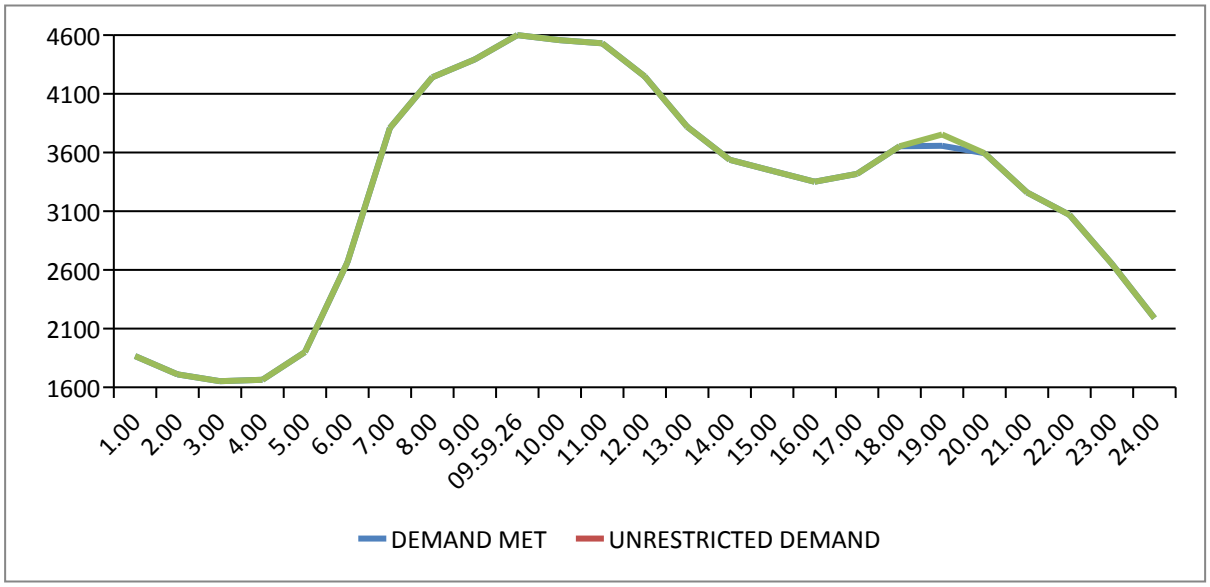
DATE	OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC.				**THEFT PRONE SHEDDING**			**TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE**	**GRAND TOTAL**
	BSES		TPDDL	NDMC	BSES		TPDDL		
	BYPL	BRPL			BYPL	BRPL			
1	35	36	37	38	39	40	41	**42= 26 to 41**	**43 = 25 + 42**
01.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.059	0.059
02.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.004
03.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002
04.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.239	0.239
05.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
06.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
07.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.043	0.043
08.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.166	0.166
09.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.057	0.057
10.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.004
11.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.008	0.008
12.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.003
13.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.033	0.033
14.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.292	0.292
15.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.109	0.109
16.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.033	0.033
17.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002
18.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.005
19.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.086	0.086
20.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.012
21.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.060	0.060
22.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.025	0.025
23.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.314	0.314
25.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.207	0.207
26.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.033	0.033
28.02.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**1.794**	**1.794**

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	DEMAN D AT THAT TIME	SHEDDIN G 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
01.02.23	77.505	4667	9:59:26	0	4667	4667	9:59:26	4667	0
02.02.23	75.029	4451	10:10:53	0	4451	4451	10:10:53	4451	0
03.02.23	75.851	4640	10:00:15	0	4640	4640	10:00:15	4640	0
04.02.23	70.166	4162	10:45:34	19	4181	4181	10:45:34	4162	19
05.02.23	66.653	4257	10:26:29	0	4257	4257	10:26:29	4257	0
06.02.23	69.938	4139	10:02:29	0	4139	4139	10:02:29	4139	0
07.02.23	68.381	4097	9:51:31	0	4097	4097	9:51:31	4097	0
08.02.23	70.187	4197	10:20:53	0	4197	4197	10:20:53	4197	0
09.02.23	69.182	4026.3	9:54:04	0	4026	4026	9:54:04	4026.3	0
10.02.23	70.074	4100	10:01:28	0	4100	4100	10:01:28	4100	0
11.02.23	65.959	3844	9:53:42	0	3844	3844	9:53:42	3844	0
12.02.23	64.291	3876	10:41:36	0	3876	3876	10:41:36	3876	0
13.02.23	66.838	3990	9:38:41	0	3990	3990	9:38:41	3990	0
14.02.23	69.193	4036	9:44:44	8	4044	4044	9:44:44	4036	8
15.02.23	69.070	4113	9:45:22	30	4143	4143	9:45:22	4113	30
16.02.23	70.176	3958	9:39:06	0	3958	3958	9:39:06	3958	0
17.02.23	69.79	4085	10:02:33	0	4085	4085	10:02:33	4085	0
18.02.23	65.637	3944	9:41:38	0	3944	3944	9:41:38	3944	0
19.02.23	61.312	3637	10:13:49	0	3637	3637	10:13:49	3637	0
20.02.23	67.076	3743	10:12:57	0	3743	3743	10:12:57	3743	0
21.02.23	68.172	3770	10:27:37	0	3770	3770	10:27:37	3770	0
22.02.23	69.540	3914	10:19:45	0	3914	3914	10:19:45	3914	0
23.02.23	66.989	3716	11:06:48	0	3716	3716	11:06:48	3716	0
24.02.23	68.520	3949	10:26:57	0	3949	3949	10:26:57	3949	0
25.02.23	64.954	3675	10:57:55	0	3675	3675	10:57:55	3675	0
26.02.23	63.174	3613	10:30:31	0	3613	3613	10:30:31	3613	0
27.02.23	67.579	3733	10:32:03	0	3733	3733	10:32:03	3733	0
28.02.23	68.605	3772	10:26:49	0	3772	3772	10:26:49	3772	0
TOTAL	**1919.841**	**4667**	09.59.26			**4667**	09.59.26		
		01.02.23							

9. LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING FEBRUARY 2023 ON 01.02.2023 - 4667MW AT 09.59.26HRS.

All figures in MW

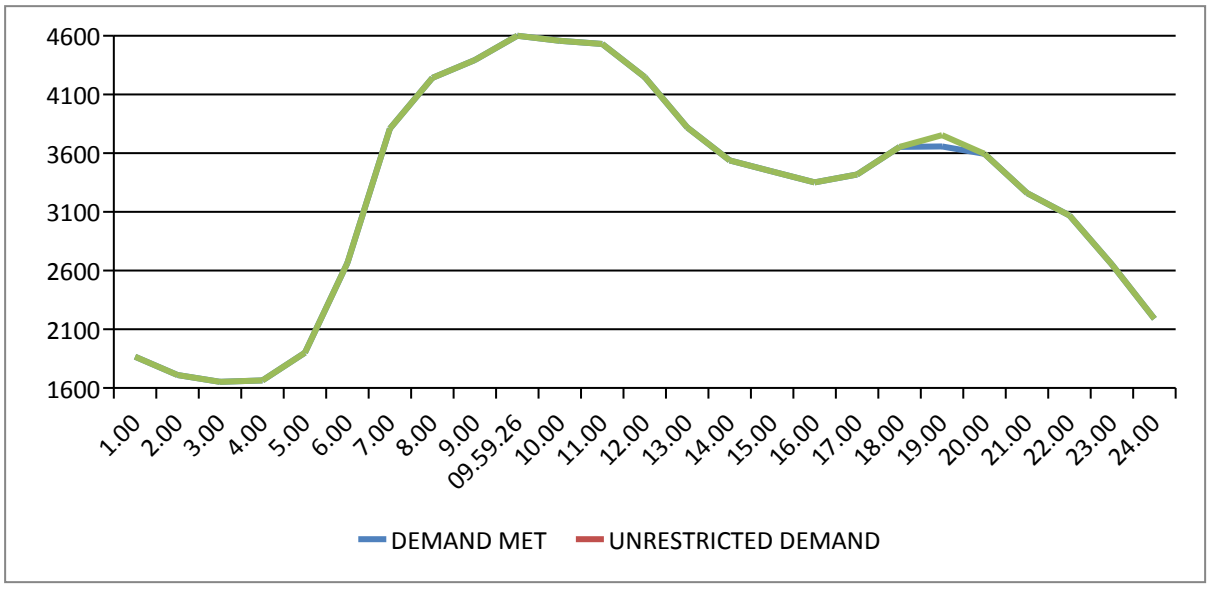
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1866	0	1866
2.00	1710	0	1710
3.00	1652	0	1652
4.00	1664	0	1664
5.00	1900	0	1900
6.00	2665	0	2665
7.00	3809	0	3809
8.00	4241	0	4241
9.00	4393	0	4393
09.59.26	4667	0	4667
10.00	4557	0	4557
11.00	4530	0	4530
12.00	4248	0	4248
13.00	3819	0	3819
14.00	3538	0	3538
15.00	3444	0	3444
16.00	3351	0	3351
17.00	3418	0	3418
18.00	3653	0	3653
19.00	3657	96	3753.33
20.00	3594	0	3594
21.00	3260	0	3260
22.00	3069	0	3069
23.00	2651	0	2651
24.00	2189	0	2189
Total (IN MUS)	**77.505**	**0.059**	**77.56434**



10 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING FEBRURY 2023 ON 01.02.2023-4667MW AT 09.59.26HRS.

All figures in MW

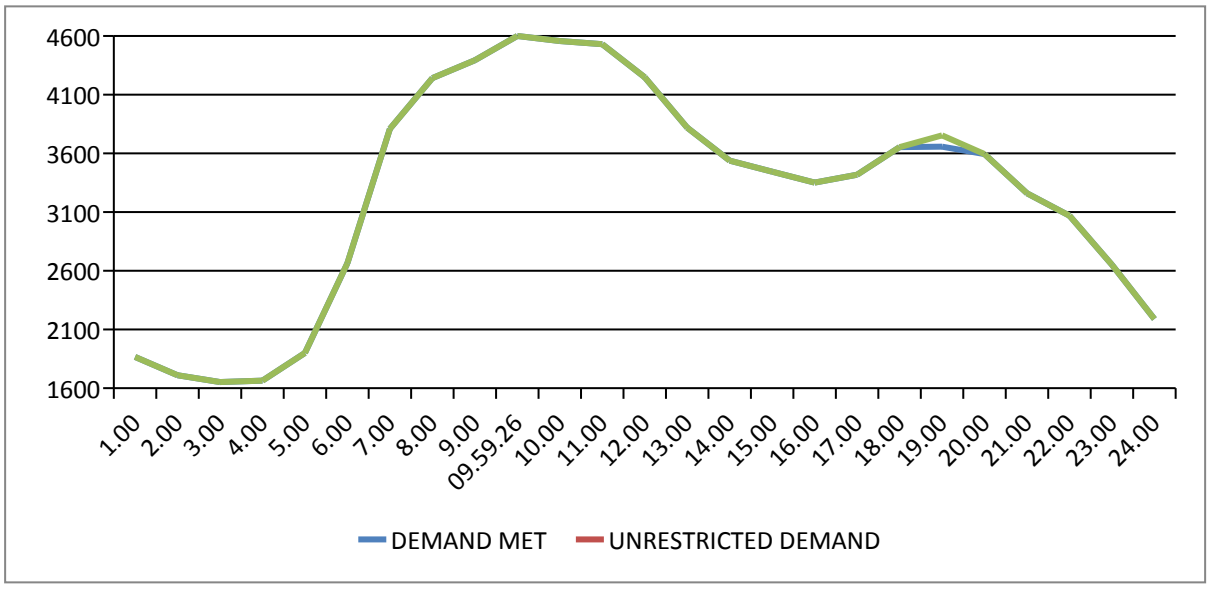
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1866	0	1866
2.00	1710	0	1710
3.00	1652	0	1652
4.00	1664	0	1664
5.00	1900	0	1900
6.00	2665	0	2665
7.00	3809	0	3809
8.00	4241	0	4241
9.00	4393	0	4393
09.59.26	4667	0	4667
10.00	4557	0	4557
11.00	4530	0	4530
12.00	4248	0	4248
13.00	3819	0	3819
14.00	3538	0	3538
15.00	3444	0	3444
16.00	3351	0	3351
17.00	3418	0	3418
18.00	3653	0	3653
19.00	3657	96	3753.33
20.00	3594	0	3594
21.00	3260	0	3260
22.00	3069	0	3069
23.00	2651	0	2651
24.00	2189	0	2189
Total (IN MUS)	**77.505**	**0.059**	**77.56434**



11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING FEBRURY 2023 – 01.02.2023 – 77.505Mus

All figures in MW

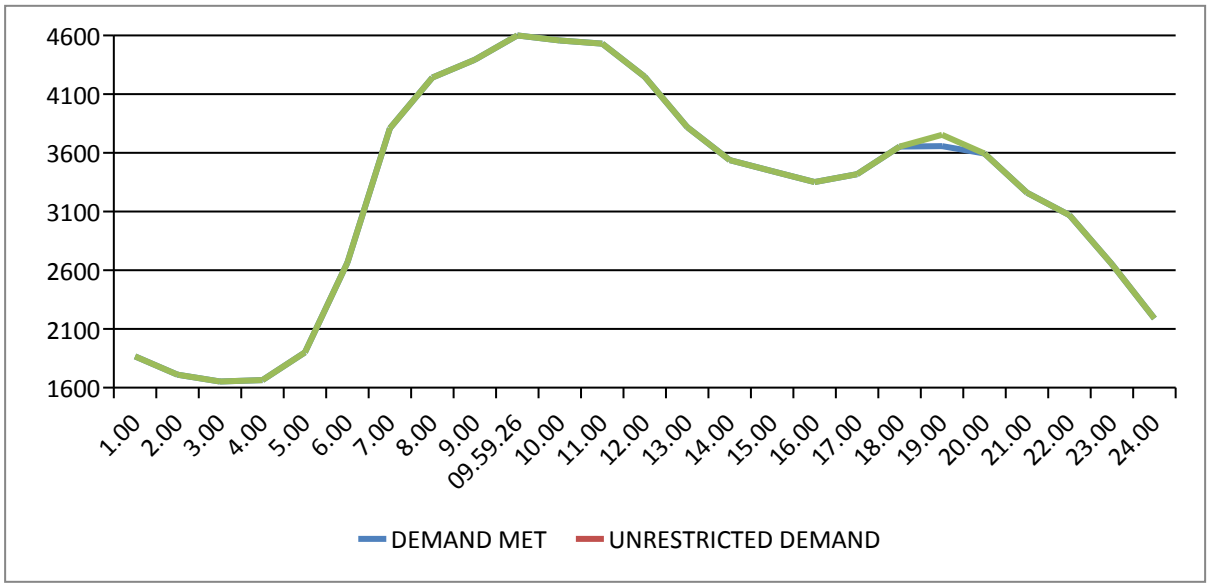
Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1866	0	1866
2.00	1710	0	1710
3.00	1652	0	1652
4.00	1664	0	1664
5.00	1900	0	1900
6.00	2665	0	2665
7.00	3809	0	3809
8.00	4241	0	4241
9.00	4393	0	4393
09.59.26	4667	0	4667
10.00	4557	0	4557
11.00	4530	0	4530
12.00	4248	0	4248
13.00	3819	0	3819
14.00	3538	0	3538
15.00	3444	0	3444
16.00	3351	0	3351
17.00	3418	0	3418
18.00	3653	0	3653
19.00	3657	96	3753.33
20.00	3594	0	3594
21.00	3260	0	3260
22.00	3069	0	3069
23.00	2651	0	2651
24.00	2189	0	2189
Total (IN MUS)	**77.505**	**0.059**	**77.56434**



12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING FEBRURY 2023 - ON 01.02.2023- 77.564MUs

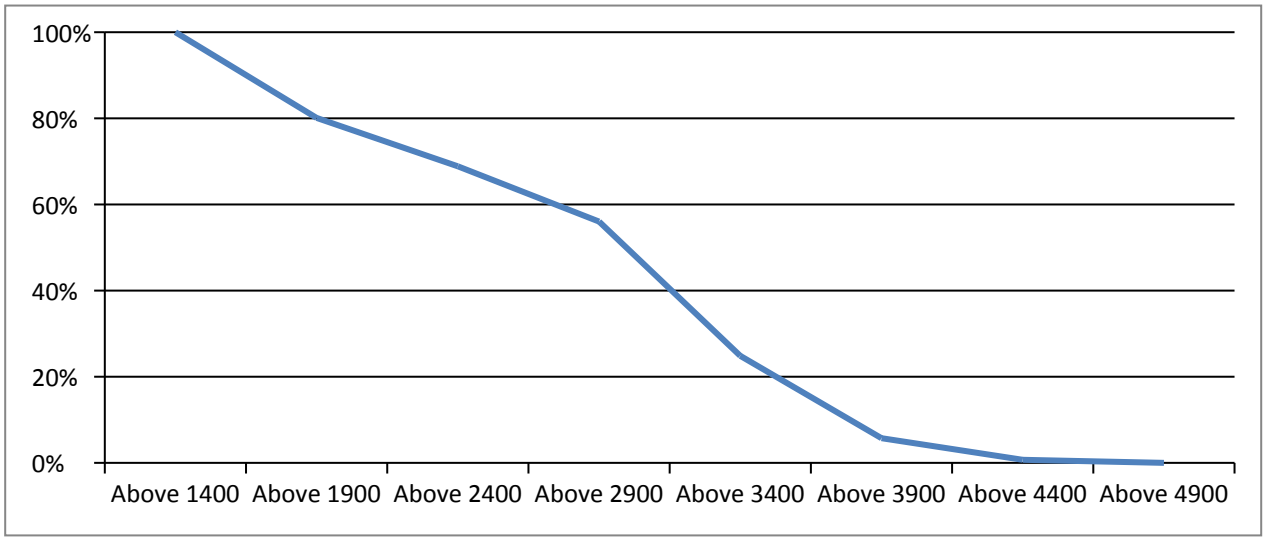
All figures in MW

Hrs.	Demand	Load Shedding	Un-Restricted Demand
1.00	1866	0	1866
2.00	1710	0	1710
3.00	1652	0	1652
4.00	1664	0	1664
5.00	1900	0	1900
6.00	2665	0	2665
7.00	3809	0	3809
8.00	4241	0	4241
9.00	4393	0	4393
09.59.26	4667	0	4667
10.00	4557	0	4557
11.00	4530	0	4530
12.00	4248	0	4248
13.00	3819	0	3819
14.00	3538	0	3538
15.00	3444	0	3444
16.00	3351	0	3351
17.00	3418	0	3418
18.00	3653	0	3653
19.00	3657	96	3753.33
20.00	3594	0	3594
21.00	3260	0	3260
22.00	3069	0	3069
23.00	2651	0	2651
24.00	2189	0	2189
Total (IN MUS)	**77.505**	**0.059**	**77.56434**



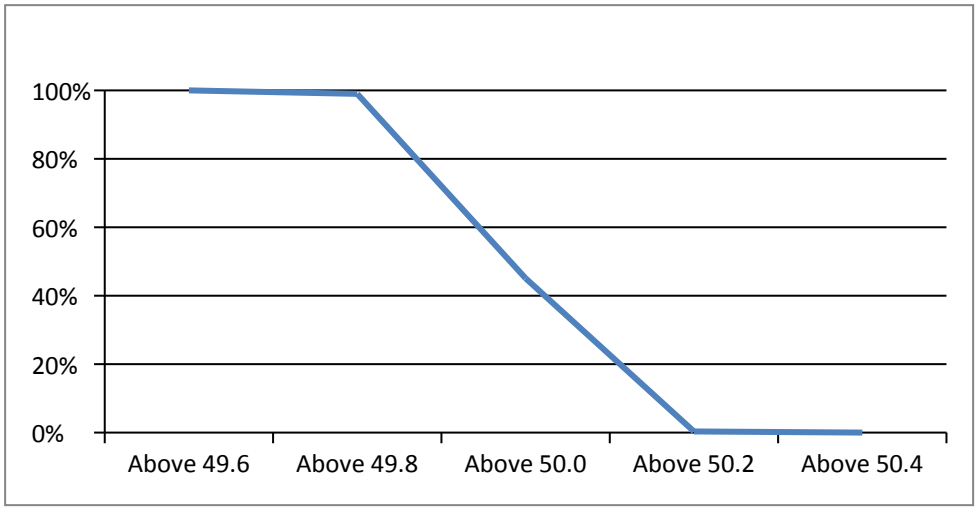
13 LOAD DURATION CURVE FOR FEBRUARY 2023

LOAD REMAINED ABOVE IN MW	(%) OF TIME
Above 1400	100%
Above 1900	80.10%
Above 2400	68.86%
Above 2900	56.03%
Above 3400	24.85%
Above 3900	5.73%
Above 4400	0.71%
Above 4900	0.00%



14 FREQUENCY ANALYSIS FOR THE MONTH OF FEBRUARY 2023

FREQUENCY REMAINED ABOVE IN HZ	(%) OF TIME
Above 49.6	100%
Above 49.8	98.99%
Above 50.0	45.09%
Above 50.2	0.33%
Above 50.4	0.00%



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

All figures in kV

Date	NARELA		GAZIPUR	
	Max	Min	Max	Min
01.02.23	233.30	219.97	233.21	222.17
02.02.23	233.56	218.69	234.39	221.36
03.02.23	233.09	216.87	233.59	219.67
04.02.23	233.18	217.85	232.18	219.86
05.02.23	231.98	218.58	232.02	221.30
06.02.23	233.07	217.46	233.04	220.11
07.02.23	232.29	217.59	233.44	220.15
08.02.23	233.24	213.07	233.77	216.61
09.02.23	231.99	213.88	231.96	216.96
10.02.23	233.97	216.15	234.78	219.54
11.02.23	232.14	215.90	232.02	217.72
12.02.23	232.64	216.73	231.95	218.71
13.02.23	233.80	217.74	233.07	219.07
14.02.23	232.51	214.83	231.48	217.46
15.02.23	232.11	216.33	232.77	218.31
16.02.23	231.80	217.36	231.55	217.85
17.02.23	231.66	216.56	232.68	219.98
18.02.23	230.36	219.06	232.43	221.22
19.02.23	231.76	221.28	233.90	223.06
20.02.23	231.26	219.34	232.09	221.50
21.02.23	230.55	219.00	230.83	221.30
22.02.23	231.02	218.83	232.49	--
23.02.23	231.72	220.32	235.04	224.00
24.02.23	230.82	218.54	234.57	224.19
25.02.23	232.42	218.53	235.04	223.19
26.02.23	230.81	218.60	235.74	222.38
27.02.23	232.21	217.46	234.56	222.87
28.02.23	230.67	216.73	235.07	217.58

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

All figures in kV

Date	400kV Bamnauli Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01.02.23	424.29	4:02:28	401.8	9:46:26	413.03
02.02.23	429.47	4:00:08	401.35	6:28:37	413.61
03.02.23	428.85	4:00:53	396.54	9:47:24	411.02
04.02.23	421.93	4:01:21	397.33	11:52:08	410.24
05.02.23	422.23	16:03:11	399.42	9:47:35	412.49
06.02.23	424.75	4:00:55	397.87	9:16:44	412.1
07.02.23	423.92	4:02:18	398.99	11:53:44	412.78
08.02.23	426.5	4:00:53	397.14	11:14:26	412.72
09.02.23	424.56	17:03:57	391.12	10:40:28	411.94
10.02.23	427.41	4:01:41	397.07	11:13:52	412.57
11.02.23	424.09	17:02:01	396.18	12:20:27	412.4
12.02.23	422.6	15:11:11	396.88	11:17:05	413.58
13.02.23	425.71	4:01:02	396.03	11:07:05	411.74
14.02.23	423.06	4:00:36	395.39	13:41:44	411.79
15.02.23	423.29	17:01:27	398.29	11:18:10	412
16.02.23	420.48	17:03:53	396.84	12:42:00	412.13
17.02.23	421.4	16:02:24	401.29	11:52:00	412.29
18.02.23	425.86	17:01:29	403.78	11:24:22	413.52
19.02.23	424.72	17:01:33	404.15	12:19:32	414.76
20.02.23	421.14	17:02:37	403.2	11:49:00	412.49
21.02.23	418.67	18:02:23	401.23	12:23:17	411.58
22.02.23	420.26	2:01:56	402.71	9:32:29	412.55
23.02.23	421.99	13:04:55	402.89	11:22:09	413.96
24.02.23	422.05	18:03:14	403.16	9:06:45	412.77
25.02.23	422.28	16:31:18	401.5	10:44:43	413.38
26.02.23	421.59	16:02:31	396.95	11:08:24	412.86
27.02.23	421.11	17:02:12	398.62	22:08:47	411.84
28.02.23	419.2	17:05:57	398.34	11:08:06	410.94

All figures in kV

Date	400kV Bawana Grid Sub-Station				
	Max KV	Max Time	Min KV	Min Time	Average KV
01.02.23	422.46	4:04:03	402.75	9:46:21	412.48
02.02.23	423.52	4:00:15	401.14	9:55:23	411.85
03.02.23	422.78	4:01:48	397.67	11:15:00	410.31
04.02.23	421.15	4:01:19	398.83	10:07:30	410.29
05.02.23	419.49	4:02:25	400.36	9:47:32	411.92
06.02.23	422.11	4:01:11	398.63	9:16:43	410.81
07.02.23	421.06	4:01:36	395.11	11:15:59	411.41
08.02.23	422.38	4:00:52	393.65	11:34:52	410.77
09.02.23	420.61	4:02:15	393.06	12:16:18	410.47
10.02.23	424.48	4:01:49	392.15	12:15:32	410.94
11.02.23	420.53	17:02:07	393.29	12:15:23	411.12
12.02.23	420.08	4:00:39	397.12	11:07:40	412.24
13.02.23	422.21	4:00:56	395.61	11:10:47	410.4
14.02.23	420.74	4:00:18	392.19	11:07:56	410.13
15.02.23	419.01	3:54:53	391.67	11:18:14	409.86
16.02.23	417.88	4:01:18	396.62	11:15:20	410.08
17.02.23	417.83	16:02:16	393.48	12:31:58	410.5
18.02.23	421.35	17:03:11	394.33	11:49:51	411.15
19.02.23	421.09	17:01:35	400.81	12:07:17	412.25
20.02.23	419.35	17:06:14	401.01	11:06:13	411.21
21.02.23	415.63	18:02:30	400.7	11:26:18	409.91
22.02.23	417.32	2:01:48	401.01	9:48:26	410.7
23.02.23	419.27	3:59:48	400.69	10:42:21	411.85
24.02.23	418.98	18:01:18	399.4	11:49:47	411.02
25.02.23	419.72	5:31:26	396.56	11:06:39	412.33
26.02.23	420.06	16:02:34	397.62	11:08:44	412.75
27.02.23	420.03	4:02:19	397.05	11:32:40	411.18
28.02.23	417.6	17:05:30	394.48	11:08:03	409.95

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

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
1	01.02.23	10:48	66/11KV 20MVA PR. TR. -I AT 220KV NAJAFGARH S/STN.	01.02.23	11:05	11KV I/C-III TRIPPED ON E/F.
2	02.02.23	3:58	400KV BAMNAULI - JHATIKARA CKT-II	02.02.23	6:45	AT BAMNAULI : OVER VOLTAGE.
3	02.02.23	4:07	220KV PEERAGARHI - WAZIRPUR CKT. -II	02.02.23	4:09	AT WAZIRPUR : 295, OVER VOLTAGE.
4	02.02.23	18:06	RAJGHAT 33kV TOWN HALLCKT (BAY-18)	02.02.23	20:55	R&Y PHASE CT DAMAGED.
5	03.02.23	4:00	400KV BAMNAULI - JHATIKARA CKT.-II	03.02.23	5:55	AT BAMNAULI : OVER VOLTAGE.
6	03.02.23	10:40	220/33KV 100MVA PR. TR. -II AT 220KV PARK STREET S/STN.	03.02.23	10:51	33KV I/C-II TRIPPED ON O/C, R PHASE, 86, 88 TRIP.
7	03.02.23	21:00	66/11KV 20MVA PR. TR. -I AT 220KV GAZIPUR S/STN	03.02.23	21:43	11KV I/C-I TRIPPED ON O/C, B PHASE.
8	04.02.23	1:31	220KV BAMNAULI - PAPANKALAN-I CKT-II	04.02.23	12:46	AT BAMNAULI : PD, 41.
9	04.02.23	6:36	220/66KV 160MVA PR. TR. -I AT 220KV TUGLAKABAD	04.02.23	12:50	PRV, DIFFERNTIAL.
10	05.02.23	17:18	66/11KV 20MVA PR. TR. -II AT 220KV ROHINI-I S/STN.	05.02.23	21:18	11KV I/C-II TRIPPED ON DIFFERENTIAL, R PHASE, Y PHASE, LV REF.
11	08.02.23	8:12	220/66KV 100MVA PR. TR.-I AT 220KV BAWANA S/STN.	08.02.23	10:03	66KV I/C TRIPPED ON E/F,ANY TRIP.
12	08.02.23	17:05	220/33KV 100MVA PR. TR.-II AT 220KV RPH S/STN.	08.02.23	17:20	33KV I/C TRIPPED ON E/F, O/C
13	09.02.23	14:09	220KV SHALIMARBAGH - DMRC CKT. -I	09.02.23	14:23	AT SHALIMARABGH : 220KV BUS BAR PORTECTION OPERATED.
14	09.02.23	14:09	220KV SHALIMARBAGH-WAZIRPUR CKT. -I	09.02.23	14:23	AT SHALIMARABGH : 220KV BUS BAR PORTECTION OPERATED.
15	09.02.23	14:09	220KV SHALIMARBAGH-WAZIRPUR CKT. -II	09.02.23	14:24	AT SHALIMARABGH : 220KV BUS BAR PORTECTION OPERATED.
16	09.02.23	14:09	220KV SHALIMARBAGH - BAWANA CKT. -I	09.02.23	14:22	AT SHALIMARABGH : 220KV BUS BAR PORTECTION OPERATED.
17	09.02.23	14:09	220KV SHALIMARBAGH - SGTN CKT. -I	09.02.23	14:26	AT SHALIMARABGH : 220KV BUS BAR PORTECTION OPERATED.
18	09.02.23	14:09	220KV SHALIMARBAGH - SGTN CKT. -II	09.02.23	15:56	AT SHALIMARABGH : MAIN-I, B&Y PHASE, DIST PROT, ZONE-I, MAIN-II Y&B PHASE, DIST 2.53KM.
19	11.02.23	18:00	220/66KV 100MVA PR. TR.-II AT 220KV MEHRAULI S/STN.	12.02.23	14:40	DIFFERENTIAL, BUZHOLZ, 86.
20	12.02.23	0:32	220/66KV 160MVA PR. TR. -II AT PAPANKALAN-III S/STN.	12.02.23	1:34	LV, REF, 86
21	12.02.23	23:00	220/66KV 100MVA PR. TR.-II AT 220KV MEHRAULI S/STN.	13.02.23	17:55	BUCHOLZ, 86, I/C TRIPPED ON INTERTRIPPING.
22	13.02.23	16:35	220KV PATPARGANJ - GAZIPUR CKT.	13.02.23	16:58	AT PATPARGANJ : ANY TRIP, E/F, STAGE-I, 86
23	14.02.23	7:55	66KV I/C NO -III AT 220KV GAIZPUR	14.02.23	17:50	DIFFERENTIAL, RYB PHASE, HIS TRIP, O/C, RY PHASE.
24	17.02.23	4:24	PARKSTREET 220/33kV 100MVA Tx-II	17.02.23	6:23	33KV I/C -II TRIPPED ON O/C, R & Y PHASE POSSIBILITY DUE TO MONKEY FALL.
25	19.02.23	7:15	220KV MEHRAULI - TUGLAKABAD CKT. -II	19.02.23	8:12	AT BOTH END : RELAY RYB PHASE, DIST PROT, ZONE-I, DIFFERENTIAL.
26	19.02.23	18:15	SUBZI MANDI 33/11kV, 16MVA Tx-I	19.02.23	18:25	86, DIFFERENTIAL.
27	20.02.23	13:58	220KV MEHRAULI - TUGLAKABAD CKT. -II	20.02.23	14:46	AT TUGLAKABAD : DIST TRIP, GEN TRIP, R PHASE, DIST PROT, DIST 14.40KM.
28	20.02.23	13:58	220kV DIAL- MEHRAULI CKT-I	20.02.23	18:40	AT MEHRAULI : DIST PROT, ZONE-II, R PHASE,
29	21.02.23	14:32	WAZIRABAD 66/11kV, 20MVA Tx-III	21.02.23	15:05	REF LV & EF, INTER TRIPPING.
30	21.02.23	16:10	SUBZI MANDI 33/11kV, 16MVA Tx-I	21.02.23	16:20	86, DIFFERENTIAL.
31	21.02.23	18:34	OKHLA 220/33kV 100MVA Tx-III	22.02.23	11:45	86, LV REF.
32	22.02.23	4:34	220KV WAZIRABAD - MANDOLA CKT-II	22.02.23	5:05	AT WAZIRABAD : DIST PROT, ZONE-I, 86, DIST 8.249KM, B PHASE, DIFFERENTIAL.
33	23.02.23	11:57	SUBZI MANDI 33/11kV, 16MVA Tx-I	23.02.23	14:15	DIFFERENTIAL, 86.
34	23.02.23	14:23	220kV WAZIRABAD - KASHMEREGATE CKT-II	23.02.23	16:11	AT KASHMIRI GATE : R PHASE, DIST PROT, DIFFERENITAL. AT WAZIRABAD : R PHASE, DIST PROT, DIST 4.425KM, ZONE-I.

SL NO	OCCURRENCE OF BREAK-DOWN		DETAILS OF THE BREAKDOWN	TIME OF RESTORATION		REMARKS
	DATE	TIME		DATE	TIME	
35	24.02.23	7:30	RAJGHAT 220/33kV 100MVA Tx-I	24.02.23	9:24	186X, AUTO RECLOSE. I/C-I TRIPPED ON DIFFERENITAL PROT, Y&B PHASE
36	27.02.23	13:29	220kV DIAL- MEHRAULI CKT-II	27.02.23	13:59	AT MEHRAULI : DIST PROT, DIST 19.5KM, E/F, B PHASE, BCU. AT DIAL : GEN TRIP, B PHASE, DIST PROT ,ZONE-II.

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

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