



DELHI TRANSCO LIMITED

(A Govt. of NCT of Delhi Undertaking)

Office Of DGM(T)OS

1st Floor, 220 KV Sub-Stn Park Street Building,
New Delhi-110001

No. F.DTL/201/2022-23/DGM(OS)/F4/85

Date: 15.11.2022

To,

All Members of Operation Co-ordination Committee

DTL	General Manager (O&M)-I, Chairman OCC General Manager (O&M)-II General Manager (P&M, DM&S) General Manager (Planning) DGM (O&M) - North, East, West, South DGM (M/P) DGM (Planning)	
SLDC	ED (SLDC) DGM (SO)	
TPDDL	HOD (PSC&AM) Sr. Manager (PSC)	
BRPL	AVP (SO)	
BYPL	AVP (SO)	
NDMC	Superintending Engineer, E-1	
IPGCL	AGM (T) Opr. GTPS	
PPCL	AGM (T) Opr.PPS-I AGM (T) Opr. PPS-III	
MES	AEE/M.SLDC Officer	
BBMB	Sr. Executive Engineer, O&M	
DMRC	Addl. GM (Elect.) Sr.DGM (Traction)	
GMR(DIAL)	GM (DIAL)	Special Invitee
N. Railways	Sr. DEE (TRD)	Special Invitee

Sub: Agenda for 8th Delhi OCC Meeting (2022-23) to be held on 22.11.2022 (Tuesday) at 11:00 A.M. through video conferencing.

The 8th Delhi OCC meeting (2022-23) is scheduled to be held on dt.- **22.11.2022, 11:00 A.M** and will be conducted through video conferencing as per attached agenda. **The link and password for joining the meeting is attached in mail.**

Members are hereby requested to make it convenient to attend the meeting via **video conferencing**.

Thanking You.

Sincerely yours,


15/11/2022
Hitesh Kumar
DGM(T)OS, DTL

DELHI TRANSCO LIMITED

(Regd. Office: Shakti Sadan, Kotla Road, New Delhi-110002)

AGENDA FOR DELHI OCC MEETING NO. 08/2022-23

Date : **22.11.2022**
Time : **11:00 AM**
Venue : **Via Video conferencing**
In O/o-GM(O&M)-I, Delhi Transco Ltd.,
220 KV Sub-Stn Park Street Building,
New Delhi-110001

1. Confirmation of minutes of 7th Delhi OCC meeting (2022-23) held on dated 19.10.2022.

The 7th Delhi OCC meeting (2022-23) was held on 19.10.2022 through video conferencing in accordance with the agenda circulated vide letter dt: 13.10.2022. Minutes of the OCC meeting were issued on 20.10.2022 and was uploaded on DTL website (http://dtl.gov.in/content/344_1_OCC-Meeting2021.aspx).

DTL Agenda:-

2. Proposed planned shutdowns of DTL for the month of December-2022.

DTL proposed planned shutdowns for the month of December-2022 (Annexure-I).

(OCC may deliberate)

SLDC Agenda:-

3. High voltage issues in Delhi network.

The High Voltage issues have been faced in Delhi System. This is because of decrease in power demand in Delhi area and increase in U/G cables(ckt km) in Delhi Transmission and Distribution network . During past winter season, it has been observed high voltage conditions and injection of reactive power to the grid resulting into payment of heavy penalty to be given by Delhi system to NRPC reactive account.

The details of NRPC reactive weekly account for Delhi from 27.09.21 to 04.04.22 are as under:

Week No.	From	To	Payable (Rs in Lakhs)	Receivable (Rs in Lakhs)
27	27.09.21	03.10.21	41.67378	0
28	04.10.21	10.10.21	32.35531	0
29	11.10.21	17.10.21	80.59024	0
30	18.10.21	24.10.21	114.62934	0

31	25.10.21	31.10.21	126.30053	0
32	01.11.21	07.11.21	130.12035	0
33	08.11.21	14.11.21	120.87847	0
34	15.11.21	21.11.21	114.46921	0
35	22.11.21	28.11.21	100.33011	0
36	29.11.21	05.12.21	107.0162	0
37	06.12.21	12.12.21	98.04046	0
38	13.12.21	19.12.21	91.16606	0
39	20.12.21	26.12.21	94.1811	0
40	27.12.21	02.01.22	100.07546	0
41	03.01.22	09.01.22	106.39652	0
42	10.01.22	16.01.22	85.33977	0
43	17.01.22	23.01.22	107.90374	0
44	24.01.22	30.01.22	109.07553	0
45	31.01.22	06.02.22	110.82781	0
46	07.02.22	13.02.22	114.78867	0
47	14.02.22	20.02.22	98.45416	0
48	21.02.22	27.02.22	100.14102	0
49	28.02.22	06.03.22	43.77155	0
50	07.03.22	13.03.22	31.0496	0
51	14.03.22	20.03.22	80.76015	0
52	21.03.22	27.03.22	65.43948	0
53	28.03.22	03.04.22	63.46755	0

Following steps were in practice to control the high voltage/ injection of reactive power.

- (i) Switching off the capacitors at all the Substations of Delhi.
- (ii) Transformer taps optimization by DTL and DISCOM.
- (iii) Monitoring of all 400/220kV ICTs and taking actions wherein VAR flows are observed from 220kV to 400kV side.
- (iv) Opening of lightly loaded transmission U/G cables/ transmission lines keeping reliability in focus.
- (v) Absorption of reactive power by generating units.

(a) Action Plan for Winter Preparedness 2022-23.

- i) The tap positions of 400/220 kV Transformers/ ICTs are required to optimize up to extent to control high voltage & reactive power injection in system as advised by NRLDC. The current Tap position details of 400/220 kV ICT's is enclosed.
- ii) The tap position of 220/66kV & 220/33kV Trs at DTL S/Stns shall be reviewed after detailed deliberation on inputs provided by Discoms and O&M Department of DTL. The current Tap position details of 220/66kV & 220/33kV Trs is enclosed.
- iii) SLDC is already opening various 220kV U /G Cables / lightly loaded lines in the night hours. This winter season situation may further worsen due to addition of new U/G Cables in Delhi network.
- Iv) Status of Reactor Installation as suggested by CEA.
- v) Delhi Discoms and DMRC shall also take action at their respective ends.

Tap position Details of ICTs on 14.10.2022

Sl No.	Station Name	Owner	Voltage Ratio (kV)	Equipment	ICT details (MVA)	Configuration	TT	NT	PT
1	BAMNAULI	DTL	400/220	ICT 02	1*500	Y-Y	17	9	11

2	BAMNAULI	DTL	400/220	ICT 03	1*500	Y-Y	17	9	11
3	BAMNAULI	DTL	400/220	ICT 04	1*315	Y-Y	17	9	11
4	BAWANA	DTL	400/220	ICT 01	1*315	Y-Y	17	9	9B
5	BAWANA	DTL	400/220	ICT 02	1*315	Y-Y	17	9	B/D
6	BAWANA	PGCIL	400/220	ICT 03	1*315	Y-Y	17	9	9B
7	BAWANA(CCGT)	DTL	400/220	ICT 04	1*315	Y-Y	17	9	9B
8	BAWANA(CCGT)	DTL	400/220	ICT 05	1*315	Y-Y	17	9	9B
9	BAWANA(CCGT)	DTL	400/220	ICT 06	1*315	Y-Y	17	9	9B
10	MUNDKA	DTL	400/220	ICT 01	1*315	Y-Y	17	9	9B
11	MUNDKA	DTL	400/220	ICT 04	1*315	Y-Y	17	9	9B
12	HARSH VIHAR	DTL	400/220	ICT 01	1*315	Y-Y	17	9	9B
13	HARSH VIHAR	DTL	400/220	ICT 02	1*315	Y-Y	17	9	9B
14	HARSH VIHAR	DTL	400/220	ICT 03	1*315	Y-Y	17	9	9B

220kV Tr. tap position

S. No.	Name of the Element	MVA rating of ICT	Total tap	Normal tap	Present tap position
400kV Bawana S/S					
1	220/66kV 100MVA Tx	100	17	5	3
400kV Mundka S/S					
2	220/66kV 160MVA Tx-II	160	17	5	3
3	220/66kV 160MVA Tx-III	160	17	5	3
220kV Narela S/S					
4	220/66kV 100MVA Tx-I	100	17	5	5
5	220/66kV 100MVA Tx-II	100	17	5	5
6	220/66kV 100MVA Tx-III	100	17	5	5
220kV Rohini S/S					
7	220/66kV 100MVA Tx-I	100	17	5	3
8	220/66kV 100MVA Tx-II	100	17	5	3
9	220/66kV 100MVA Tx-III	100	17	5	3
10	220/66kV 100MVA Tx-IV	100	17	5	3
220kV Patparganj S/S					
11	220/66kV 100MVA Tx-I	100	1-17	5	3
12	220/66kV 100MVA Tx-II	100	1-17	5	3
13	220/33kV 100MVA Tx-I	100	1-17	5	3
14	220/33kV 100MVA Tx-IV	100	1-17	5	3
15	220/33kV 100MVA Tx-III	100	1-17	5	3
220kV Pragati S/S					
16	220/66kV 160MVA Tx-I	160			1
17	220/66kV 160MVA Tx-II	160			1
220kV Gazipur S/S					
18	220/66kV 160MVA Tx-I	160	17	5	3
19	220/66kV 100MVA Tx-II	100	17	5	3
20	220/66kV 160MVA Tx	160	17	5	3
220kV Wazirabad S/S					
21	220/66kV 100MVA Tx-I	100	17	5	3
22	220/66kV 100MVA Tx-II	100	17	5	3
23	220/66kV 100MVA Tx-III	100	17	5	3
24	220/66kV 160MVA Tx-IV	160	17	5	3
220kV Okhla S/S					
25	220/66kV 100MVA Tx-I	100	1-17	5	5
26	220/66kV 160MVA Tx-II	160	1-17	5	5
27	220/33kV 100MVA Tx-III	100	17	5	5

28	220/33kV 100MVA Tx-IV	100	17	5	5
29	220/33kV 100MVA Tx-V	100	17	5	5
	220kV Sarita Vihar S/S				
30	220/66kV 160MVA Tx-I	100	17	5	3
31	220/66kV 100MVA Tx-II	100	17	5	3
32	220/66kV 100MVA Tx-III	100	17	5	3
	220kV Vasant Kunj S/S				
33	220/66kV 100MVA Tx-I	100	17	5	3
34	220/66kV 100MVA Tx-II	100	17	5	3
35	220/66kV 160MVA Tx-III	160	17	5	3
	220kV Najafgarh S/S				
36	220/66kV 100MVA Tx-I	100	17	5	2
37	220/66kV 160MVA Tx-II	160	17	5	2
38	220/66kV 160MVA Tx-III	160	17	5	2
39	220/66kV 100MVA Tx-IV	100	17	5	2

S. No.	Name of the Element	MVA rating of ICT	Total tap	Normal tap	Present tap position
	220kV Park Street S/S				
40	220/66kV 100MVA Tx-I	100	1-17	5	2
41	220/66kV 100MVA Tx-II	100	1-17	5	2
42	220/33kV 100MVA Tx-I	100	1-17	5	3
43	220/33kV 100MVA Tx-II	100	1-17	5	3
	220kV Kanjhawala S/S				
44	220/66kV 100MVA Tx-I	100	17	5	3
45	220/66kV 100MVA Tx-II	100	17	5	3
46	220/66kV 160MVA Tx-III	160	17	5	3
	220kV Pappankalan-II S/S				
47	220/66kV 100MVA Tx-I	100	17	5	3
48	220/66kV 100MVA Tx-II	100	17	5	3
49	220/66kV 160MVA Tx-III	160	17	5	3
50	220/66kV 160MVA Tx-IV	160	17	5	3
	220kV Pappankalan-I S/S				
51	220/66kV 100MVA Tx-II	100	17	5	3
52	220/66kV 100MVA Tx-IV	100	17	5	3
53	220/66kV 160MVA Tx-III	160	17	5	3
54	220/66kV 160MVA Tx-V	160	17	5	3
	220kV Mehrauli S/S				
55	220/66kV 100MVA Tx-I	100	17	5	3
56	220/66kV 100MVA Tx-II	100	17	5	3
57	220/66kV 100MVA Tx-III	100	17	5	3
58	220/66kV 160MVA Tx-IV	160	17	5	3
	220kV Gopalpur S/S				
59	220/66kV 160MVA Tx-II	160	1-17	5	5
60	220/33kV 100MVA Tx-I	100	1-17	5	6
61	220/33kV 100MVA Tx-III	100	1-17	5	6
	220kV DSIIDC Bawana S/S				
62	220/66kV 100MVA Tx-II	100	17	5	3
63	220/66kV 100MVA Tx-III	100	17	5	3
64	220/66kV 160MVA Tx	160	17	5	3
	220kV DIAL S/S				
65	220/66kV 160MVA Tx-I	160	17	4	3
66	220/66kV 160MVA Tx-II	160	17	4	3
	220kV Ridge Valley S/S				
67	220/66kV 160MVA Tx-I	160	17	3	3
68	220/66kV 160MVA Tx-II	160	17	3	3
	220kV Rohini-II S/S				

69	220/66kV 160MVA Tx-I	160	17	5	3
70	220/66kV 160MVA Tx-II	160	17	5	3
	HARSH VIHAR 400kV S/S				
71	220/66kV 160MVA Tx-I	160	17	5	2
72	220/66kV 160MVA Tx-III	160	17	5	2
73	220/66kV 160MVA Tx-II	160	17	5	2
	220kV Subzi Mandi S/S				
74	220/33kV 100MVA Tx-I	100	1-17	5	3
75	220/33kV 100MVA Tx-II	100	1-17	5	3
	220kV Kashmiri Gate S/S				
76	220/33kV 100MVA Tx-I	100	17	5	3
77	220/33kV 100MVA Tx-II	100	17	5	3
	220kV Lodhi Road S/S				
78	220/33kV 100MVA Tx-I	100	17	5	5
79	220/33kV 100MVA Tx-II	100	17	5	5
80	220/33kV 100MVA Tx-III	100	17	5	3

S. No.	Name of the Element	MVA rating of ICT	Total tap	Normal tap	Present tap position
	220kV Naraina S/S				
81	220/33kV 100MVA Tx-I	100	17	5	3
82	220/33kV 100MVA Tx-II	100	17	5	3
83	220/33kV 100MVA Tx-III	100	17	5	3
	220kV Geeta Colony S/S				
84	220/33kV 100MVA Tx-I	100	17	5	3
85	220/33kV 100MVA Tx-II	100	17	5	3
	220kV Shalimarbagh S/S				
86	220/33kV 100MVA Tx-I	100	17	5	5
87	220/66kV 100MVA Tx-II	100	17	5	5
88	220/33kV 100MVA Tx-III	100	17	5	5
	220kV I.P. S/S				
89	220/33kV 100MVA Tx-I	100	1-21	9	5
90	220/33kV 100MVA Tx-II	100	1-21	9	5
91	220/33kV 100MVA Tx-III	100	1-17	5	3
	220kV Masjid Moth S/S				
92	220/33kV 100MVA Tx-I	100	1-17	5	3
93	220/33kV 100MVA Tx-II	100	1-17	5	3
94	220/33kV 100MVA Tx-II	100	1-17	5	3
	220kV Trauma Center S/S				
95	220/33kV 100MVA Tx-I	100	1-17	5	3
96	220/33kV 100MVA Tx-II	100	1-17	5	3
	220kV Electric Lane S/S				
97	220/33kV 100MVA Tx-I	100	1-17	5	S/D
98	220/33kV 100MVA Tx-II	100	1-17	5	3
	220kV Wazirpur S/S				
99	220/33kV 100MVA Tx-I	100	1-17	5	3
100	220/33kV 100MVA Tx-II	100	1-17	5	3
	220kV Peeragarhi S/S				
103	220/33kV 100MVA Tx-II	100	1-17	5	3
102	220/33kV 100MVA Tx-III	100	1-17	5	3
103	220/33kV 100MVA Tx-I	100	1-17	5	3
	220kV Preet Vihar S/S				
104	220/33kV 100MVA Tx-I	100	1-17	5	2
105	220/33kV 100MVA Tx-II	100	1-17	5	2
	220kV RPH Stn				
106	220/33kV 100MVA Tx-I	100	1-17	5	5
107	220/33kV 100MVA Tx-II	100	1-17	5	5

	220kV R.K.Puram S/S				
108	220/66kV 160MVA Tx-I	160	1-17	5	1
109	220/66kV 160MVA Tx-II	160	1-17	5	1
110	220/66kV 100MVA Tx-I	100	1-17	5	3
111	220/66kV 100MVA Tx-II	100	1-17	5	3
	220kV Tuglakabad S/S				
112	220/66kV 160MVA Tx-II	160	1-17	5	1
113	220/66kV 160MVA Tx-I	160	1-17	5	1
	220kV Papankalan-III S/S				
114	220/66kV 160MVA Tx-II	160	1-17	5	3
115	220/66kV 160MVA Tx-I	160	1-17	5	3
	220kV SGTN S/S				
116	220/66kV 160MVA Tx-I	160	1-17	5	2
117	220/66kV 160MVA Tx-II	160	1-17	5	2

In 7th Delhi OCC, October-2022, high voltage & reactive power injection issues was deliberated and following corrective action were advised:-

- (i) OCC advised SLDC to monitor the high voltage & reactive power issue and assist the station staff in taking necessary steps for maintaining within acceptable limit.
- (ii) Switching off the capacitors at all the Substations of Delhi.
- (iii) Transformer tap optimization by DTL and DISCOMs.
- (iv) Monitoring of all 400/220kV ICTs and taking actions wherein VAR flows are observed from 220kV to 400kV side. In this respect reactive energy changes could also be monitored.
- (v) Opening of lightly loaded transmission cables/transmission lines keeping reliability in focus.
- (vi) DISCOMs/DMRC were requested to select the list of feeders for switching exercise to control reactive power injection. List of selected feeders to be shared with SLDC.
- (vii) For switching of 220kV level double ckt U/G cables, OCC advised switching of U/G cable circuits on alternate basis to ensure the healthiness of both the ckts. DTL/O&M shall inform the SLDC if any U/G cable ckt switched off for more than a week.

OCC also advised DMRC, DTL & DISCOMs to explore all possibilities to control system voltage profile and reactive power injection in system from their respective ends.

(OCC may deliberate)

4. IPGCL & PPCL's Generating outage plan proposed for 2023-2024 .

IPGCL & PPCL have proposed and submitted generating outage plan for 2023-2024 in 27th LGBR Sub-Committee meeting of NRPC held on 27.09.2022. The generating outage plan is as under:

Plant	Unit No.	Installed Capacity (MW)	Outage from	Outage to	Reason
PPS-I, PPCL	GT1	104	01.11.2023	10.12.2023	Major Inspection of Gas Turbine
			March'2024 (04 days)		Boiler License renewal
			Dec,2023 (02 days)		Air inlet filter replacement
	GT2	104	Nov.'2023 (04 days)		Boiler License renewal
			Dec,2023 (02 days)		Air inlet filter replacement

Agenda for 8th Delhi OCC meeting (2022-23)

PPS-III, Bawana, PPCL	GT-I	216	01.04.2023	08.04.2023	HMI Upgradation
			01.11.2023	18.11.2023	Mark VI Upgradation
	GT-II	216	01.04.2023	08.04.2023	HMI Upgradation
			19.11.2023	05.12.2023	Mark VI Upgradation
	GT-III	216	20.05.2023	26.05.2023	HMI Upgradation
		216	15.12.2023	04.01.2023	Hot Gas Path Inspection
	GT-IV	216	20.05.2023	26.05.2023	HMI Upgradation
		216	20.05.2023	18.06.2023	Hot Gas Path Inspection & Generator Overhauling
	ST-I	254	01.04.2023	15.05.2023	Major Overhauling
	ST-II	254			
GTPS IPGCL	GT-I	30	19.11.2023	22.12.2023	Major Inspection of Gas Turbine

In view of above, Delhi stake holders may provide comments if/any.

In 7th Delhi OCC, October-2022, OCC advised all the stakeholders to review the shutdowns as proposed by PPCL & IPGCL for 2023-24 and may provide the comments/reservations, if any before the next OCC. If no comments were received from any stakeholders, the above shutdown may be considered as deemed approved from the stakeholders and list may be processed by SLDC for further action.

(OCC may deliberate)

PPCL Agenda:-

5. To run STG on full load after the completion of overhauling.

This is to inform that, Overhauling of STG is under progress and likely to be completed between 25th- 30th Nov-2022. The actual date of completion shall be intimated to SLDC. Therefore, it is requested to allow the STG to run on full load for commissioning and testing at plant load of 300 MW (approx) after completion of overhauling.

The scheduling of full load of PPS-1 (300 MW approx) will be required for about minimum 48-72 hrs and during testing and commissioning DSM/UI during this period of to be suspended please.

(OCC may deliberate)

6. Long/recent Outage/breakdown of elements in Delhi power system.

Members may update the latest status of following Long/Recent Outage/Breakdowns of elements in the Delhi Power system as under:

S. no.	Element's Name	Utility	Date of outage	Status of outage as on 12.11.2022
1.	400KV MUNDKA TO NANGLOI	BRPL	06.11.22	'Y' PHASE CABLE FAULTY
2.	220KV PARK STREET TO FAIZ ROAD CKT-2	BYPL	09.11.22	Y PHASE CABLE FAULTY
3.	220KV IP:- BAY 42- 33KV CONNAUGHT PLACE CKT-1	NDMC	18.05.22	Y & B PHASE SINGLE CABLE FAULTY
4.	220KV IP:- BAY 42- 33KV BAY NO 10 ELECTRIC LANE	NDMC	01.08.22	B PHASE TRIPPING.
5.	400KV TIKRI KALAN- 400/220KV 315MVA ICT-III	DTL	05.09.22	TX UNDER BREAKDOWN.
6.	220KV PEERAGARHI-TIKRI KALAN CKT-I	DTL	05.09.22	CKT UNDER BREAKDOWN.
