



**DELHI TRANSCO LIMITED**  
(A Govt. of NCT of Delhi Undertaking)  
An ISO 9001:2015 certified company  
{Office of DGM(T)-OS}  
1st Floor, Park Street Building, New Delhi-110001  
Website:-[www.dtl.gov.in](http://www.dtl.gov.in)

No. F.DTL/201/2022-23/DGM(OS)/F4/76

Date:- 20.10.2022

**Subject: 7<sup>th</sup> Meeting of Delhi Operation Coordination Committee (2022-23)  
- Minutes of Meeting.**

The 7<sup>th</sup> meeting of Delhi Operation Coordination Committee (OCC) was held on 19.10.2022 (Wednesday), 11:00 A.M and conducted through online mode.

The Minutes of Meeting are enclosed for confirmation and necessary action.

Minutes of Meeting are also available on DTL website, [www.dtl.gov.in](http://www.dtl.gov.in) under the tab "News and Information"-OCC Meeting. ([http://dtl.gov.in/content/344\\_1\\_OCC-Meeting2021.aspx](http://dtl.gov.in/content/344_1_OCC-Meeting2021.aspx)).

Thanking You.

Sincerely yours,

--Sd--

(Hitesh Kumar)  
Dy. General Manager (OS)  
Delhi Transco Limited

**Copy for favor of kind information to:**

- (i) Secretary, DERC, Viniyamak Bhawan, C-Block, Shivalik, New Delhi-17
- (ii) OSD to CMD, DTL
- (iii) Director (Operation), DTL

  
20/10/2022  
Dy. General Manager (OS)

**To all members -- As per list enclosed --**

**7<sup>th</sup> Meeting of Delhi Operation Coordination Committee (2022-23)- Minutes of Meeting**

**Distribution List:**

<b>DTL</b>	1. General Manager (O&M)-I 2. General Manager (O&M)-II 3. General Manager (P&M, DM&S) 4. General Manager (Planning) 5. DGM (O&M) - North, East, West, South 6. DGM (Metering/Protection) 7. DGM (Planning)
<b>SLDC</b>	1. General Manager (SLDC) 2. DGM (SO)
<b>TPDDL</b>	HOD (PSC &AM), Sr. Manager (PSC)
<b>BRPL</b>	VP, AVP (SO)
<b>BYPL</b>	VP, AVP (SO)
<b>NDMC</b>	Superintending Engineer, E-1
<b>IPGCL</b>	AGM (T) Opr. GTPS
<b>PPCL</b>	1. AGM (T) Opr.PPS-I 2. AGM (T) Opr. PPS-III
<b>MES</b>	AEE/M.SLDC Officer
<b>BBMB</b>	Sr. Executive Engineer, O&M
<b>DMRC</b>	GM (Traction), Sr.DGM (Traction)
<b>GMR(DIAL)</b>	GM(DIAL)
<b>N. Railways</b>	Sr. DEE (TRD)

**MINUTES OF 7<sup>th</sup> DELHI OCC MEETING**

<b>Date :</b>	<b>19.10.2022</b>
<b>Time:</b>	<b>11:00 AM</b>
<b>Venue:</b>	<b>Online Via Video conferencing O/o-GM(O&amp;M)-I, Delhi Transco Ltd., 220 kV S/stn Park Street, New Delhi-01</b>
	<b>List of participants is enclosed as Annexure-I.</b>

Chairman, OCC welcomed the members and commended on the efforts to maintain uninterrupted power supply during the festival season in Delhi network. He mentioned about the low load condition in Delhi network in winter season & challenges of High voltage condition and reactive power injection in system. OCC members were requested to put all efforts to maintain the voltage profile at various levels and take measures to control reactive power injection in system. He also added that lean load period has started and all efforts should be made for carrying out the maintenance activities as per preventive maintenance schedule or up-gradation of equipments as per requirements. Further, he requested to start the meeting as per circulated agenda.

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**1. Confirmation of minutes of 6<sup>th</sup> Delhi OCC meeting (2022-23) held on dated 23.09.2022.**

The 6<sup>th</sup> Delhi OCC meeting (2022-23) was held on 23.09.2022 through video conferencing in accordance with the agenda circulated vide letter dt: 15.09.2022. Minutes of the OCC meeting were issued on 28.09.2022 and was uploaded on DTL website ([http://dtl.gov.in/content/344\\_1\\_OCC-Meeting2021.aspx](http://dtl.gov.in/content/344_1_OCC-Meeting2021.aspx)).

Members confirmed the Minutes of 6<sup>th</sup> Delhi OCC meeting.

**2. DTL Agenda:-Proposed planned shutdowns of DTL for the month of November-2022.**

After detailed discussion with the members, OCC approved shutdowns subject to real time condition & consent from respective DISCOMs.

Chairman, OCC strictly instructed all the members/departments to be present in the meeting for their respective shutdowns for healthy discussion, otherwise shutdown shall not be considered. Further, Chairman, OCC advised O&M department to start the winter preparedness and perform all the necessary maintenance activities & take necessary actions to minimize the trippings/forced outages during upcoming foggy season.

- SLDC apprised OCC that NRPC related shutdowns were already put up in NRPC OCC and concerned team shall apply to SLDC in (D-4) days to get final approval.
- At Vasant Kunj:- OCC approved the shutdown of 100MVA-II for overhauling work from 14.11.2022 to 15.12.2022.
- SLDC requested O&M/Gazipur to communicate with EDWPCL at their end for the proposed shutdown of 66kV EDWPCL feeder.
- SLDC informed that the shutdown proposed by O&M/Harsh Vihar will affect the other planned shutdowns in the region. Shutdowns shall be approved on priority basis.
- TPDDL apprised OCC that the complete shutdown of 33kV GIS at 220kV Subzi Mandi may be facilitated under following conditions:- (a) Both 100MVA transformers at Wazirpur will be required to run in parallel. (b) Load of Subzi Mandi will be diverted to Gopalpur & Wazirpur. (3) TPDDL could provide a maximum of 10MW load margin to BRPL/BYPL from 220kV BBMB-Rohtak Road. (4) Press release is required to be published as during the outage period, in case of any major tripping, rotational load shedding is possible. After detailed deliberation & consent from the stakeholders, OCC approved the shutdown from 25.11.22 to 30.11.22 for repairing of 33kV panels. OCC also instructed that 11kV supply shall be provided by TPDDL for the local load of the sub-station during the shutdown period.

**3. GMR(Dial) Agenda:- To isolate Palam feeder from DMRC circuit in 220kV Mehrauli Sub-station.**

66kV Palam feeder emanating from 220kV Mehrauli Sub-station is supplying power to the IGI airport. Due to the DMRC load at Mehrauli sub-station and 66kV Palam feeder being on the same bus, heavy loads like HVAC at IGI airport get shutdown due to voltage imbalance. GMR/Dial proposed to change the scheme and maintain both feeders in two different bus at 220kV Mehrauli sub-station to maintain smooth operation of IGI Airport Terminal-2.

**OCC Deliberation:-** GMR/Dial apprised OCC that the chiller plant at the IGI airport get tripped when DMRC feeder connect to same bus with Palam feeder . After detailed deliberation and considering the operational issue, OCC advise O&M/Mehrauli to keep the loaded DMRC feeder and Palam feeder on separate bus. DMRC shall inform the SLDC & O&M/DTL before shifting the load on the bus & changeover shall be done under the supervision of SLDC. Further, GMR/Dial shall share the relay setting/DRs with DTL for analyzing/exploring the permanent solution of the issue.

**4. 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 19.10.2022
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S. no.	Element's Name	Utility	Date of outage	Status of outage as on 19.10.2022
1.	220KV PPK-II:- 66KV G5 MATIALA CKT-1	BRPL	13.09.22	'B' & 'Y' PHASE CABLE FAULTY. Energized on 17.10.2022.
2.	220KV PPG TO AKSHARDHAM CKT	BYPL	09.10.22	Y PHASE CABLE FAULTY. Energized on 11.10.2022.
3.	220KV IP:- BAY 42- 33KV CONNAUGHT PLACE CKT-1	NDMC	18.05.22	Y & B PHASE SINGLE CABLE FAULTY. Expected by November-2022.
4.	220KV IP:- BAY 42- 33KV BAY NO 10 ELECTRIC LANE	NDMC	01.08.22	B PHASE TRIPPING. Expected by November-2022.
5.	220KV HCML:- 33KV SCHOOL LANE	NDMC	06.09.22	R PHASE FAULTY. Energized on 12.10.2022.
6.	400KV TIKRI KALAN-400/220KV 315MVA ICT-III	DTL	05.09.22	TX UNDER BREAKDOWN. Expected by December-2022.
7.	220KV PEERAGARHI-TIKRI KALAN CKT-I	DTL	05.09.22	CKT UNDER BREAKDOWN. Expected by January-2023.

### **ON TABLE AGENDA**

**1. NCRTC Agenda:-Request for shutdown of 220kV D/C Maharani Bagh to Gazipur transmission line.**

NCRTC with the permission of DTL, is modifying 220kV T/L from Maharani Bagh to Gazipur at chainage-9185 near Gazipur drain ramp of Delhi Transco limited infringing Delhi-Ghaziabad-Meerut RRTS corridor. For the completion of the work, shutdown is required as per below schedule:-

S. No	Name of Transmission line	Shutdown required		Work to be carried out
		From	To	
1.	220kV Maharani Bagh-Gazipur Ckt-I & II	25.11.22	30.11.22	Shifting/modification of transmission line at chainage-9185

**OCC Deliberation:-** OCC advised NCRTC to visit the site with concerned O&M/DTL for better coordination and also explore/analyze the nature of the work. NCRTC shall also explore the possibility of work by taking shutdown of one Ckt at a time. Further, OCC tentatively approved the above shutdown after considering the national importance of the work.

## 2. BRPL Agenda:- Frequent outages at 220KV Okhla at 11KV Level

BRPL want to inform that from the last few weeks, 11KV supply was severely affected from 220KV Okhla stations due to various issues on 11KV level side from DTL 220KV Okhla side.

- Every time tripping occurs at 11KV LV level or 11KV B/C level we were asked to back feed all 11KV feeders even fault at PTR side, LV side or 11KV B/C side. Complete back feed takes at least minimum 30 min to 45 min.
- Sometimes, the reply comes from DTL after half an hour of incident of tripping.
- Consumer's agitated with frequent interruptions and prolonged interruptions and some consumers escalated the issue to higher official too

There were frequent interruptions at 33KV and 66KV level as well. Details of frequent interruptions are attached as under (recent months Oct 22 and Dec 22). DTL/SLDC is requested to review the issue and arrange for suitable actions to control supply interruptions on priority.

MONT H	DATE	FRO M	TO	DURATIO N	NAME OF GRID	NAME OF FEEDER	IN M W	IN MU's
Oct-22	10/11/2022	13:24	14:48	1:24:00	220 OKHLA	11 KV FEEDER ALAKHNANDA VIA TA PKT	1	0.0012
Oct-22	10/11/2022	13:24	14:05	0:41:00	220 OKHLA	11 KV FEEDER PKT A-12	0	0.0003
Oct-22	10/11/2022	13:24	14:28	1:04:00	220 OKHLA	11 KV FEEDER PKT A-8	1	0.0011
Oct-22	10/11/2022	13:24	14:44	1:20:00	220 OKHLA	11 KV FEEDER TARA APPT	0	0.0001
Oct-22	10/11/2022	13:24	14:00	0:36:00	220 OKHLA	11 KV FEEDER GALI NO-13	1	0.0006
Oct-22	10/7/2022	5:04	5:10	0:06:00	220 OKHLA	11 KV FEEDER GALI NO-13	1	0.0001
Oct-22	10/7/2022	5:04	5:15	0:11:00	220 OKHLA	11 KV FEEDER PKT A-12	0	0.0001
Oct-22	10/7/2022	5:04	5:25	0:21:00	220 OKHLA	11 KV FEEDER GOVIND PURI BUDH VIHAR	1	0.0004
Oct-22	10/7/2022	5:04	5:35	0:31:00	220 OKHLA	11 KV FEEDER PKT A-8	1	0.0005
Oct-22	10/7/2022	5:04	5:10	0:06:00	220 OKHLA	11 KV FEEDER ALAKHNANDA VIA TA PKT	1	0.0001
Oct-22	10/7/2022	5:04	5:25	0:21:00	220 OKHLA	11 KV FEEDER TARA APPT	1	0.0002
Oct-22	10/7/2022	5:04	6:55	1:51:00	220 OKHLA	11 KV FEEDER DDA LSC OKHLA PHASE - 2	1	0.0009
Oct-22	10/2/2022	16:36	16:46	0:10:00	MALVIYA NGR	ALL 11KV FEEDERS TOWARDS PTR- 2&3	9	0.0015

Oct-22	10/2/2022	16:36	16:46	0:10:00	TUGLAKABA D	ALL 11KV FEEDERS TOWARDS PTR-1	8	0.001 3
Oct-22	10/2/2022	16:36	16:47	0:11:00	BATRA	ALL 11KV FEEDERS TOWARDS PTR-1	9	0.001 6
Oct-22	10/1/2022	8:08	9:12	1:04:00	220KV OKHLA	ALL 11KV FEEDERS TOWARDS 20MVA PTR NO- 1	4	0.004 1
Sep-22	9/22/2022	11:01	11:11	0:10:00	TUGLAKABA D	ALL 11KV FEEDER TOWARDS PTR - 2 & 3	13	0.002 2
Sep-22	9/22/2022	11:01	11:07	0:06:00	E O K	ALL 11KV FEEDER TOWARDS PTR - 1 & -2	9	0.000 9
Sep-22	9/22/2022	11:01	11:05	0:04:00	ALAKNAND A	ALL 11KV FEEDER TOWARDS PTR - 1 & -3	8	0.000 5
Sep-22	9/22/2022	13:00	13:50	0:50:00	220KV OKHLA	ALL 11KV FEEDER TOWARDS 20MVA PTR-2(I/C -2)	5	0.004 2
Sep-22	9/22/2022	14:36	17:30	2:54:00	220KV OKHLA	ALL 11KV FEEDER TOWARDS 20MVA PTR-2(I/C -2)	4	0.010 2
Sep-22	9/16/2022	19:52	20:10	0:18:00	220KV OKHLA	ALL 11KV FEEDERS TOWARDS PTR-2	5	0.001 5
Aug-22	8/12/2022	6:22	6:26	0:04:00	ALAKHNAN DA	ALL 11 KV FEEDERS TOWARDS PTR NO-1 & 3	9	0.000 6
Aug-22	8/12/2022	6:22	6:55	0:33:00	EAST OF KAILASH	ALL 11 KV FEEDERS TOWARDS PTR NO-1 & 2	10	0.005 5
Aug-22	8/12/2022	6:22	6:29	0:07:00	OKHLA PHASE-2	ALL 11 KV FEEDERS TOWARDS PTR NO-1 & 2	6	0.000 7
Aug-22	8/12/2022	6:22	6:27	0:05:00	BALAJI ESTATE	ALL 11 KV FEEDERS TOWARDS PTR NO- 2	7	0.000 6
Aug-22	8/12/2022	6:22	7:08	0:46:00	NEHRU PLACE	ALL 11 KV FEEDERS TOWARDS PTR NO- 3 & 4	11	0.008 4

Aug-22	8/12/2022	6:22	6:28	0:06:00	VSNL	ALL 11 KV FEEDERS TOWARDS PTR NO- 2	3	0.000 3
Aug-22	8/12/2022	6:22	6:28	0:06:00	NSIC	O/G NSIC	1	0.000 0

**OCC Deliberation:-**After detailed deliberation, OCC opined that faulty element must be isolate to avoid consequential tripping. OCC advised DTL/Protection deptt. & BRPL/Protection deptt. to co-ordinate & check/review the protection schemes. Relay setting shall be shared by BRPL/Protection deptt. with DTL/Protection deptt. for better relay coordination.

**3. SLDC Agenda:- 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
	<b>400kV Bawana S/S</b>				
1	220/66kV 100MVA Tx	100	17	5	3
	<b>400kV Mundka S/S</b>				
2	220/66kV 160MVA Tx-II	160	17	5	3
3	220/66kV 160MVA Tx-III	160	17	5	3
	<b>220kV Narela S/S</b>				
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
	<b>220kV Rohini S/S</b>				
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
	<b>220kV Patparganj S/S</b>				
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
	<b>220kV Pragati S/S</b>				
16	220/66kV 160MVA Tx-I	160			1
17	220/66kV 160MVA Tx-II	160			1
	<b>220kV Gazipur S/S</b>				
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
	<b>220kV Wazirabad S/S</b>				
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
	<b>220kV Okhla S/S</b>				
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
	<b>220kV Sarita Vihar S/S</b>				
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
	<b>220kV Vasant Kunj S/S</b>				
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
	<b>220kV Najafgarh S/S</b>				
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
	<b>220kV Park Street S/S</b>				
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
	<b>220kV Kanjhawala S/S</b>				
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
	<b>220kV Pappankalan-II S/S</b>				
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
	<b>220kV Pappankalan-I S/S</b>				
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
	<b>220kV Mehrauli S/S</b>				
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
	<b>220kV Gopalpur S/S</b>				
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
	<b>220kV DSIIIDC Bawana S/S</b>				
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
	<b>220kV DIAL S/S</b>				

65	220/66kV 160MVA Tx-I	160	17	4	3
66	220/66kV 160MVA Tx-II	160	17	4	3
	<b>220kV Ridge Valley S/S</b>				
67	220/66kV 160MVA Tx-I	160	17	3	3
68	220/66kV 160MVA Tx-II	160	17	3	3
	<b>220kV Rohini-II S/S</b>				
69	220/66kV 160MVA Tx-I	160	17	5	3
70	220/66kV 160MVA Tx-II	160	17	5	3
	<b>HARSH VIHAR 400kV S/S</b>				
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
	<b>220kV Subzi Mandi S/S</b>				
74	220/33kV 100MVA Tx-I	100	1-17	5	3
75	220/33kV 100MVA Tx-II	100	1-17	5	3
	<b>220kV Kashmiri Gate S/S</b>				
76	220/33kV 100MVA Tx-I	100	17	5	3
77	220/33kV 100MVA Tx-II	100	17	5	3
	<b>220kV Lodhi Road S/S</b>				
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
	<b>220kV Naraina S/S</b>				
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
	<b>220kV Geeta Colony S/S</b>				
84	220/33kV 100MVA Tx-I	100	17	5	3
85	220/33kV 100MVA Tx-II	100	17	5	3
	<b>220kV Shalimarbagh S/S</b>				
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
	<b>220kV I.P. S/S</b>				
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
	<b>220kV Masjid Moth S/S</b>				
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
	<b>220kV Trauma Center S/S</b>				
95	220/33kV 100MVA Tx-I	100	1-17	5	3
96	220/33kV 100MVA Tx-II	100	1-17	5	3
	<b>220kV Electric Lane S/S</b>				
97	220/33kV 100MVA Tx-I	100	1-17	5	S/D
98	220/33kV 100MVA Tx-II	100	1-17	5	3

	<b>220kV Wazirpur S/S</b>				
99	220/33kV 100MVA Tx-I	100	1-17	5	3
100	220/33kV 100MVA Tx-II	100	1-17	5	3
	<b>220kV Peeragarhi S/S</b>				
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
	<b>220kV Preet Vihar S/S</b>				
104	220/33kV 100MVA Tx-I	100	1-17	5	2
105	220/33kV 100MVA Tx-II	100	1-17	5	2
	<b>220kV RPH Stn</b>				
106	220/33kV 100MVA Tx-I	100	1-17	5	5
107	220/33kV 100MVA Tx-II	100	1-17	5	5
	<b>220kV R.K.Puram S/S</b>				
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
	<b>220kV Tuglakabad S/S</b>				
112	220/66kV 160MVA Tx-II	160	1-17	5	1
113	220/66kV 160MVA Tx-I	160	1-17	5	1
	<b>220kV Papankalan-III S/S</b>				
114	220/66kV 160MVA Tx-II	160	1-17	5	3
115	220/66kV 160MVA Tx-I	160	1-17	5	3
	<b>220kV SGTN S/S</b>				
116	220/66kV 160MVA Tx-I	160	1-17	5	2
117	220/66kV 160MVA Tx-II	160	1-17	5	2

**OCC Deliberation:-** OCC deliberated the high voltage & reactive power injection issue in Delhi system during winter season & advised additional following corrective action:-

- (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 also stated that this agenda shall continue till the end of winter for proper monitoring.

(Action by SLDC,DMRC, DTL & DISCOMs)

**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
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.

**OCC deliberation:-**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.

*Chairman, OCC wished all the members/stakeholders/consumers of Delhi a very happy and lightning Diwali.*

*The meeting ended with thanks to the Chair.*

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