



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

No. F.DTL/201/2023-24/DGM(OS)/F4/ 53

Date:- 28/8/2023


**Subject: 5<sup>th</sup> Meeting of Delhi Operation Coordination Committee (2023-24)- Minutes of Meeting.**

The 5<sup>th</sup> meeting of Delhi Operation Coordination Committee (OCC) was held on 24.08.2023 (Thursday), 11:00 A.M. in the O/o GM(T)O&M-I DTL.

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

Minutes of Meeting are also available on DTL website, www.dtl.gov.in under the tab "News and Information"-OCC Meeting.([http://dtl.gov.in/Content/359\\_1\\_OCC-Meeting2023.aspx](http://dtl.gov.in/Content/359_1_OCC-Meeting2023.aspx)).

Thanking You.

  
Sincerely yours,  
28/08/2023  
(Hitesh Kumar)  
Dy. General Manager (OS)  
Delhi Transco Limited

Copy for favor of kind information to:

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

To all members - - As per list enclosed - -

## 5<sup>th</sup> Meeting of Delhi Operation Coordination Committee (2023-24)- Minutes of Meeting

### Distribution List:

DTL	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)
SLDC	1. General Manager (SLDC) 2.DGM (SO)
TPDDL	HOD (PSC &AM), Sr. Manager (PSC)
BRPL	VP, AVP (SO)
BYPL	VP, AVP (SO)
NDMC	Superintending Engineer, E-1
IPGCL	AGM (T) Opr. GTPS
PPCL	1. AGM (T) Opr.PPS-I 2. AGM (T) Opr. PPS-III
MES	AEE/M.SLDC Officer
BBMB	Sr. Executive Engineer, O&M
DMRC	GM (Traction), Sr.DGM (Traction)

**MINUTES OF 5<sup>th</sup> DELHI OCC MEETING**

<b>Date :</b>	<b>24.08.2023</b>
<b>Time:</b>	<b>11:00 AM</b>
<b>Venue:</b>	<b>O/o-GM(O&amp;M)-I, Delhi Transco Ltd., 220 kV S/stn Park Street, New Delhi-01</b>

The Chairman, Delhi OCC warmly welcomed the members/participants and commended on the efforts in maintaining the power supply in Delhi network. He emphasized that summer has already started and load demand started to grow therefore Chairman stressed to be vigilant of weather forecast and all efforts should be made to properly monitor the system and take immediate action towards any abnormality. Chairman requested to start the meeting as per circulated agenda.

**1. Confirmation of minutes of 4<sup>th</sup> Delhi OCC meeting (2023-24) held on dated 25.07.2023.**

The 4<sup>th</sup> Delhi OCC meeting (2023-24) was held on 25.07.2023 physically in the O/o GM(T)O&M-I in accordance with the agenda circulated vide letter dt: 17.07.2023. Minutes of the OCC meeting were issued on 31.07.2023 and were uploaded on DTL website ([http://dtl.gov.in/Content/359\\_1\\_OCC-Meeting2023.aspx](http://dtl.gov.in/Content/359_1_OCC-Meeting2023.aspx)).

**OCC Deliberation: - Members confirmed the Minutes of 4<sup>th</sup> Delhi OCC meeting.**

**DTL Agenda:-**

**2. Proposed planned shutdowns for the month of September-2023.**

Proposed planned shutdowns for the month of September-2023 were discussed in the meeting. After detailed discussion with the members, OCC approved shutdowns subject to real time conditions & consent from respective DISCOMs. No shutdown is allowed from 06.09.2023 to 11.09.2023 due to G-20 Meeting in New Delhi.

- i. BBMB submitted that shifting/ height raising work between tower no. 14-15 at Ch. distance 30+570 at 220 kV Ballabgarh-BTPS Ckt. 1& 2 is in progress as a deposit work of NHAI under Bharat Mala Project. NHAI contractor M/SPSH Infratech has completed all civil foundation work and done all necessary arrangements for erecting of proposed new towers. The firm has also assembled the possible structures of new towers and requested for shutdown on 220 kV Ballabgarh-BTPS Circuit 1 & 2 from 09:00 hrs. dated 02.09.2023 to 18:00 hrs. dated 05.09.2023 on continuous basis for erection and stringing work of proposed towers.**

After detailed discussion, OCC deferred the shutdown due to G-20 meeting and allowed shutdown from 12.09.2023 to 16.09.2023. OCC directed BBMB to strictly adhere to the schedule. As shutdowns were approved in NRPC so Chairman OCC directed BBMB that the rescheduled dates may be informed to NRPC for their record and approval.

- ii. BBMB submitted that following Shutdown are required for completion of tower erection work :**
  - a. 220 KV Panipat-Narela Single Ckt.III 11.09.2023 to 15.09.2023
  - b. 220KV Panipat-Narela Double ckt I&II 20.09.2023 to 24.09.2023

After detailed discussion, OCC deferred due to G-20 meeting the shutdown and allowed shutdown as below

- a. 220 KV Panipat-Narela Single Ckt.III 16.09.2023 to 20.09.2023
- b. 220KV Panipat-Narela Double ckt I&II 25.09.2023 to 30.09.2023

OCC directed BBMB to strictly adhere to the schedule.As shutdowns were approved in NRPC so Chairman OCC directed BBMB that the rescheduled dates may be informed to NRPC for their record and approval.

- iii. NHAH requested shutdown of Bawana-Rohini II Ckt I&II for piling work of minor bridge at Ch 7+100, Bawana-Kanjhawala Ckt I&II & Kanjhawala-Najafgarh-Tikrikalan Ckt for erection and stringing work of monopoles.

OCC allowed shutdown as schedule mentioned below. OCC also directed O&M/DTL to take undertaking from NHAH to complete the work strictly as per approved schedule so that the circuit can be energized as per schedule with Electrical Clearance.DTL/O&M also raised issue for non returning of material which was issued to NHAH on returnable basis. Therefore OCC advised NHAH to return material at the earliest possible.

S. No	Date of Shut down	Name of the Element	Work to be carried	Remarks
1	23-09-23 to 27-09-23	Bawana-Kanjhawala Ckt I&II	for erection and stringing work of monopoles	NHAH work
2	18-09-23 to 21-09-23	Kanjhawala-Najafgarh-Tikrikalan Ckt	for erection and stringing work of monopoles	NHAH work
3	26-08-23 to 27-08-23	Bawana-Rohini II D/C	piling work of minor bridge at Ch 7+100 for safety	NHAH work
4	27-08-23	Bawana-Rohini II S/C	piling work of minor bridge at Ch 7+100 for safety	NHAH work

### 3. 220 kV Masjid Moth:-Regarding Tripping details of 33 kV BRPL Feeder w.e.f Jan-23.

Following tripping occurred at 220 kV Masjid Moth.

1	30.03.23	33 KV Sirifort feeder	14:35	31.03.23	08:10	17:35	Tripped Off,showing Dir. O/C & E/F, Master 86.	Ckt.Charge on single Cable .
2	12.01.23	33 KV Shivalik Feeder	14:50	12.01.23	19:40	04:50	Dist. Prot. B.Ph. Zone-II Dir/O/C,E/F &86	Ckt.Charge on single Cable .

	30.03.23	33 KV Shivalik Feeder	14:35	31.03.23	13:00	22:25	Tripped Off, Y Phase Jumper Damage.	Ckt.Charge on single Cable .
3	11.04.23	33 KV Sirifort	17:35	11.04.23	21:05	03:30 .	Dir O/C,EF,Dist.Prot . B&G Zone-2 86.	Ckt.Charge on single Cable .
4	05.05.23	33 KV Shivalik Feeder	11:30	21.05.23	13:35.	386:05..	Breaker Trouble Alarm & Master 86. Both Cable Damage.	Double cable Damaged.
5	14.06.23	33 KV Nehru Place	12:20	14.06.23	15:05	02:45 ..	Dist. Protn. Relay Operted. Z-I	Ckt.Charge on single Cable .
6	27.06.23	33 KV Balaji	12:05	27.06.23	19:10	07:05 .	R Ph. LA Blast & Dir. O/C,E/F Master 86. PC Test of Cable done By BSES	Cable Healthy
7	30.06.23	33 KV Sirifort	00:20	30.06.23	02:32	02:12 .	Dir. O/C,E/F Dist Prot B&G .Zone-II & 86 Relay . Y phase Sigle Cable faulty.	Ckt.Charge on single Cable .
8	05.07.23	33 KV Sirifort	17:55	05.07.23	20:45	02:50 .	Dir. O/C,E/F Dist Prot.Zone-II & 86 Relay . B ph. Sigle Cable faulty	Ckt.Charge on single Cable .
9	01.08.23	33 KV Court Comlex- I	01:40	01.08.23	05:15	03:35 .	Dist Prot. O/C E/F Master 86. Cable PC done Found Ok.	Cable Healthy
10	14.07.23	33 KV Court Comlex- II	01:25	14.07.23	04:05	02:40 .	Trip Dist. Prot.Zone-I Sigle cable faulty.	Ckt.Charge on single Cable .
11	01.08.23	33 KV Court Comlex- II	01:40	01.08.23	18:55	17:15 .	Trip O/C,E/F Master 86. C.B. B Ph. & Yph.Bus-I Jumper Damaged.	Capacitor bank damaged at BRPL end and symmetrical fault feed in System

Due to above tripping heavy fault current flow in 33/220 kV Masjid Moth System. and may cause of damaged of our Circuit breaker, CT, LA, Snapping of Jumper. Recent Tripping occurred on 01.08.2023 and sparking observe on all equipment including cable end PG clam and B phase common CB side jumper Snap. DTL requested to BRPL for the reason of fault however BRPL not provided any reason. In this connection all equipment tested and time taken in the restoration 33 kV Court Complex-II circuit. In view of above OCC deliberate.

**OCC Deliberation:- O&M informed that No information are being received regarding reason of tripping of feeders from BRPL due to which restoration time at DTL stn**

increases. OCC directed BRPL to share the tripping information with DTL/O&M regularly for proper analysis so that the outage time can be reduced. And also directed to share findings of tripping dated 01.08.2023 on 33 kV Court complex Ckt II with DTL/O&M.

#### BRPL Agenda

#### 4. Energy recoding issues of meter installed at NDMC stations.

Energy Meters are installed at NDMC stations 33KV Kidwai Ngar and 33KV AIIMS were not recoded energy due to meter was offline in month of June, August and September 2022.

Issue identified by BRPL team and informed DTL/SLDC,

Energy draw by these two stations was computed based on meters installed at source end of BRPL, accordingly Mu's are calculated and forwarded to NDMC for validation.

From last six months BRPL is continuously pursuing for this but no response from NDMC end in spite of several reminders and telephonic enquiries. Matter has been escalated several times to Sh Briesh kumar (DGM) also.

DTL/SLDC is requested to resolve the issue in coordination with NDMC.

#### Impact of energy gap is computed as below,

Impact of energy deviation at NDMC end on BRPL						
Month	Amount calculated without energy deviation at NDMC end (Rs.)		Amount calculated considering energy deviation at NDMC end (Rs.)		Difference	
	Additional Deviation charges amount	UI amount	Additional Deviation charges amount	UI amount	Additional Deviation charges amount	UI amount
Jun-22	13686637	6841992	13176454	2579023	510183	4262969
Aug-22	7831689	-29809871	7497227	-35013949	334462	5204077
Sep-22	2380265	-30645326	2338794	-33127358	41471	2482032
Total	23898591	-53613206	23012476	-65562284	886115	11949079

**OCC Deliberation:-** after detailed discussion with NDMC and BRPL, OCC directed both the utilities to resolve this long pending issue before the next OCC meeting. Further NDMC may ensure the healthiness of PT supply to the energy meter in the feeders in their area, particularly on Kirlokari circuit at 33 kV AIIMS stn of NDMC.

## SLDC Agenda

### 5. Automatic Demand Management System (ADMS) Implementations in Delhi

ADMS is a regular agenda of NRPC OCC and in 64<sup>th</sup> NRPC meeting held on 24.03.23 , the following was deliberated and recorded :

NRLDC representative inquired about the operation of ADMS in Delhi State and why some manual intervention was needed. Delhi representative explained that in the case where Delhi as a whole was underdrawing and one DISCOM was overdrawing, a fully automatic ADMS would shed the load of that DISCOM, leading Delhi as a whole to underdraw more from the grid.

However, MS NRPC stressed that ADMS should be fully automatic, and the NRLDC representative suggested adding a logic to the ADMS that could sense the overall drawl of Delhi before its operation to ensure certainty of action.

TPDDL representative reported that ADMS was fully implemented at their end but faced challenges due to poor communication infrastructure during outages. They were unable to revive 100% of the load shed through ADMS when system conditions improved, leading to manual intervention, commercial losses, and marking the outage as under breakdown.

NRLDC representative and MS NRPC urged them to find a solution to improve ADMS and make it automatic.

In 207 NRPC OCC meeting , Delhi SLDC was asked to provide update on decision held in 64<sup>th</sup>NRPC meeting regarding providing automatic action in ADMS scheme. Delhi SLDC stated that they are discussing the matter with DISCOMs in state OCC meeting, and would share outcome after discussion in internal OCC meeting.

SE, NRPC stated that separate meeting will be called with states regarding progress and work on ADMS implementation.

Accordingly , A separate meeting was called by NRPC on 07.08.23 along with Delhi Discoms , Delhi SLDC and NRLDC in order to resolve the issue and during the meeting following was discussed and decided :

Delhi SLDC informed that Fully automatic ADMS is not operational in Delhi. The Load shedding is done by individual DISCOMs manually and there is no much scope of load shedding in Delhi being National Capital and 24\*7 power supply to Delhi consumers .

BYPL informed that there is no automatic application for ADMS operation in BYPL however, there is a provision for manual load shedding through a single push button from their SCADA control center. Further, he mentioned that if load is very narrow and there are fluctuations in the load due to demand diversity, in that case there is very less scope of load shedding. However, load shedding is done as per the instructions of Delhi SLDC.

BRPL and TPDDL mentioned that they also have provision for manual load shedding through a single push button from their SCADA control center. TPDDL also mentioned that load fluctuates every minute especially due to DMRC load.

NRLDC mentioned that logic for ADMS operation may be developed at state periphery. Logic for ADMS may have a combination of frequency condition, overdrawal condition and overdrawal limit along with the time duration limit for continuous overdrawal.

MS, NRPC stated that ADMS is necessary for Grid Security and as per IEGC, it is mandatory for all states. He requested Delhi SLDC to co-ordinate with the Delhi DISCOMs and finalize the logic for ADMS operation in Delhi.

In view of above, the logic for ADMS operation in Delhi needs to be explored for fully automatic implementation of ADMS in Delhi.

**OCC Deliberation:- OCC directed that ADMS has to be implemented as per IEGC regulation. Further advised all DISCOMs to explore logic inputs required to implement ADMS in Delhi and shall submit the detailed report in next OCC meeting for further discussion.**

#### **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: (breakdown report dt 15.08.2023 as per SLDC website)

S. no	Element's Name	Utility	Date of outage	Date of Restoration	Status of outage
1	66KV PARK STREET TO RIDGE VALLEY	BRPL	14-08-23	After G-20 due to no digging permission	B Phase Cable faulty
2	66KV MUNDKA TO NANGLOI CKT	BRPL	30-06-23	After G-20 due to no digging permission	B Phase Cable faulty
3	33KV PPG TO GEETA COLONY CKT	BYPL	08-08-23	18-08-2023	B Phase faulty of first cable & Y Phase faulty of Second cable
4	66KV PARK STREET-DMRC CKT-I & II	DMRC	19-10-21	31-12-23	Shutdown of six months for grid shifting work at DMRC end
5	33KV IP BAY-28-CONNAUGHT PLACE	NDMC	26-06-23	Under progress	R Phase faulty

6	66KV PARK STREET-DMRC CKT-I & II	DMRC	19-10-21	31-12-23	for grid shifting work at DMRC end
7	220KV SUBZI MANDI:- 100MVA –I	DTL	04.01.23	17-08-23	Tx under B/D. replacement under process
8	220KV MAHARANI BAGH –MASJID MOTH CKT-II	DTL	29.01.23	31-12-23	Cable caught fire.
9	220KV BAMNAULI- 220KV DIAL CKT-II	DTL	31.01.23	31-12-23	R phase cable punctured by NHAI during digging work
10	220KV/66KV, 100MVA TX-II PARK STREET	DTL	07-06-23	30-08-23	Tx under B/D. replacement under process
11	220KV GEETA COLONY- WAZIRABAD-I	DTL	17-05-23	30-09-23	R phase Conductor snapped.

### **Additional Agenda**

#### **7. Communication division/Delhi SLDC.**

Based on requirement of PM&DMS and SLDC Department of DTL, new generation Radio Trunking infrastructure is proposed to established. Following points were deliberated during meeting held on 30.05.2023 at SLDC Building:-

- **SLDC-SO:** All static sets– TOTAL 65 sets  
4 sets - Two sets for each control room of SLDC (main and back up)  
50 sets – one set for each substation except two sets for each 400kV substations  
11 sets – one set each for FIVE DISCOMs, One set for each generator (GT & Pragati), One set each for four WtE plants.
- **O&M:** 400kV substation: (Handheld sets) – 7 sets per substation  
Two sets for 400kV side maintenance and two sets for 220kV side maintenance  
Three sets for security purpose (Main gate-01 and fencing petrolling-02).
- **O&M:** 220kV substation: (Handheld sets) – 3 sets per substation  
Two sets for 220kV side maintenance  
One set for security purpose (Main gate-01).
- **Disaster Management:** (Handheld sets) 5 sets for Disaster Management and safety.
- **Protection:** (Handheld sets) 8 sets required for protection department (one for each team).
- **SLDC-SCADA:** (Handheld/Static sets) 10 handheld/Static sets maintenance requirement.

**OCC Deliberation:- DISCOMs shall share their requirement with Communication Division/SLDC at the earliest.**

#### **8. GMR/DIAL**

Problem of voltage imbalance arrive when we are unable to run the Terminal-2 Operation due to Voltage Imbalance issue at BRPL 66kV Palam Grid. After enquiry at BRPL Palam substation, they updated that 66kV Vasant-Kunj Grid was failed in afternoon and shifted the Load in 66kV Mehrauli. We like to highlight that, at Terminal-2 huge load like Chiller load is heavily impacted due to voltage imbalance and this imbalance of voltage is due to DMRC load at same bus at 66kV Mehrauli from where 66kV Palam is feeding load and further this is supplying power at IGI Airport. Therefore it is requested to the Hon'ble OCC chairperson to separate the DMRC and DIAL load at DTL 66kV Mehrauli voltage bus for uninterrupted power supply at IGI airport.

**OCC Deliberation: - GMR/DIAL raised issue of voltage imbalance at BRPL 66kV Palam Grid. GMR informed that Load is generally taken from 66 kV Vasant Kunj grid of BRPL fed from 220 kV Vasant Kunj station of DTL. This voltage issue only comes when load is transferred to 66 kV Palam Grid of BRPL which is fed from 220 kV Mehrauli station of DTL. After detailed discussion, Chairman directed O&M/DTL to run 02 nos. DMRC feeders on same bus and 66 kV Palam feeder on another bus to avoid such type of voltage imbalance at airport terminal-2.**

#### **9. DTL/400 kV Tikrikalan**

**Agenda for 220kV Line Mundka to Najafgarh and Mundka to Kanjhawala switched ON from 220kV Substation Najafgarh and Kanjhawala during NO LOAD Condition**

400kV Substation Tikrikalan (Erstwhile Mundka) is having 3 No. 315MVA transformers (ICT 1, ICT 3 and ICT 4). ICT 1 and ICT 3 are diverted from PGCIL Mandola and Ludhianan substation respectively. ICT 4 is diverted from 400kV Bamnauli substation. ICT 1 is under observation by Transformer committee due to formation of Ethane, Methane and Ethylene gases. ICT 4 is under observation by Transformer committee due to high content of Hydrogen.

It is submitted that 220kV Line Mundka to Najafgarh and Mundka to Kanjhawala are generally kept in NO LOAD conditions by SLDC. These lines are loaded when there is shutdown of Najafgarh to Bamanuli line or Kanjahwala to Bawana line or any other tripping incident at other substations which require change in load flow.

It is also submitted that Mundka to Najafgarh and Mundka to Kanjhawala lines are overhead lines and probability of tripping on these lines is higher as these lines pass through some populated areas where some times unauthorized construction is also observed. Tripping on these lines due to kite flying, tree growth or any other activity in the nearby areas causes direct fault fed through 315MVA transformers at Mundka. It has been observed in the past

years that these trippings deteriorate the health of the transformers and 2 No. 315MVA transformers have failed during such trippings. Further, the trippings also reduce the life of the transformers.

In view of above, it is advisable to keep the 220kV Lines Mundka to Najafgarh and Mundka to Kanjhawala switched ON from Najafgarh and Kanjhawala substation during NO LOAD conditions so that any fault during NO LOAD conditions is not fed by 315 MVA transformers at Mundka substation.

**OCC Deliberation:- The proposal of 400kV Tikri kalan was deliberated in the OCC.. The reasons given by the DGM(West)/DTL was discussed and on the basis of the justification given, the proposal was agreed and chairman OCCdirected SLDC to follow the configuration of the transmission lines as proposed.**

Meeting ended with thanks to chair

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