



DELHI TRANSCO LIMITED  
(A Govt. of NCT of Delhi Undertaking)  
Office Of DGM(T)OS  
1<sup>st</sup> Floor, 220 KV Sub-Stn Park Street Building,  
New Delhi-110001

No. F.DTL/201/2024-25/DGM(OS)/F4/83

Date: 30/12/2024

**Subject: 9<sup>th</sup> Meeting of Delhi Operation Coordination Committee (2024-25)- Minutes of Meeting.**

The 9<sup>th</sup> meeting of Delhi Operation Coordination Committee (OCC) was held on 20.12.2024, 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](http://www.dtl.gov.in) under the tab "News and Information"-OCC Meeting. ([http://dtl.gov.in/Content/369\\_1\\_OCC-Meeting2024.aspx](http://dtl.gov.in/Content/369_1_OCC-Meeting2024.aspx)).

Thanking You.  
Sincerely yours,

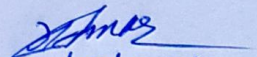
--Sd--

(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

To all members - - As per list enclosed - -

  
30/12/2024  
(Hitesh Kumar)

Dy. General Manager (OS)  
Delhi Transco Limited

**9<sup>th</sup> Meeting of Delhi Operation Coordination Committee (2024-25) - 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 9<sup>th</sup> DELHI OCC MEETING

<b>Date :</b>	<b>20.12.2024</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 of Delhi OCC extended a warm welcome to all members and participants, commending their efforts in maintaining the power supply across the Delhi network. He emphasized on utilization of lean period to complete maintenance activities of transmission elements. He further directed all DISCOMs and DTL to reduce the tap of all transformers, switching off the cables and monitoring of reactive power flow in Delhi power system due to high system voltage. The Chairman requested the meeting to commence promptly as per the circulated agenda.

-----

### 1. Confirmation of minutes of 8<sup>th</sup> OCC meeting (2024-25) held on 26.11.2024.

The 8<sup>th</sup> Delhi OCC meeting (2024-25) was held on 26.11.2024 physically in the O/o GM(T)O&M-I in accordance with the agenda circulated vide letter dt:19.11.2024. Minutes of the OCC meeting were issued on 04.12.2024 and were uploaded on DTL website ([http://dtl.gov.in/Content/369\\_1\\_OCC-Meeting2024.aspx](http://dtl.gov.in/Content/369_1_OCC-Meeting2024.aspx))

**OCC Deliberation: - Members confirmed the Minutes of 8<sup>th</sup> OCC meeting.**

### 2. DTL Agenda: Proposed planned shutdowns for the month of January-2025.

Proposed planned shutdowns for the month of December-2024 (Annexure-I).

**OCC Deliberation: - Proposed planned shutdowns for the month of January-2025 were discussed in the meeting. After detailed discussion with the members, OCC approved shutdowns subjected to real time conditions & consent from respective DISCOMs.**

### 3. SLDC Agenda: Operation of CCGT Bawana and Gas Turbine (GT) Generating Units

There were two major grid disturbances, one at 02.33 hrs on 30-07-2012 and second at 13.00 hrs on 31-07-2012. The first grid disturbance affected mainly Northern Region and second disturbance resulted in collapse of Northern, Eastern, and North-Eastern regional grids.

The Enquiry Committee constituted by Ministry of Power, Govt. of India to look into the detailed causes of these disturbances and to suggest remedial measures, has also inter-alia made the following recommendation:

“9.12 Implementation of islanding schemes

Efforts should be made to design islanding scheme based on frequency sensing relays so that in case of imminent grid failure, electrical islands can be formed. These electrical islands can not only help in maintaining supply to essential services but would also help in faster restoration of grid.”

NRPC Forum approved the islanding scheme for Delhi in 68th NRPC meeting held on 18.08.2024 at Udaipur. The Islanding Scheme is prepared considering the available generation

of Gas Turbine (GT) and CCGT Bawana in Delhi which is approximately 30MW and 270MW respectively.

The revised islanding scheme is designed for survival of GT and CCGT Bawana to meet the load of Parliament, Central Secretariat, Rashtrapati Bhawan, AIIMS, RML Hospital, Safdarjung Hospital, Sucheta Kriplani Hospital, GB Pant Hospital etc. As per this scheme, when the frequency falls to 47.9 Hz, the proposed Delhi System comprising CCGT Bawana, 400kV Bawana, 400kV Maharani Bagh and associated 220kV system will separate from Northern Grid at Bawana, Maharani Bagh, Sarita Vihar, IP Station to form a Single Island to feed the important load of VVIP establishments/ hospitals.

It has been observed that on many occasion Delhi Discoms have requested to close down the running units of CCGT Bawana and Gas Turbine (GT) Generating due to low demand and to curtail under draws particularly during low demand period. Further as per Discoms the cost of generation of CCGT Bawana and Gas Turbine (GT) Generating is quite high in comparison to other generating station and does not fall in merit order despatch. So on many occasion generating units from these stations remain on reserve shutdown. Delhi islanding scheme is designed considering generation from GT (30 MW) and CCGT Bawana (270 MW). So SLDC is of view that as per islanding scheme for Delhi, generation from these generating stations should always remain available.

**OCC Deliberation: - SLDC informed OCC that Delhi Islanding scheme is designed considering the generation from GT i.e. 30 MW and CCGT Bawana i.e. 270 MW, Therefore generation from these generating stations should always remain available. DISCOMs opposed this view and informed OCC that they follow merit order despatch for power scheduling as per DERC direction. Further DISCOMs informed that these generating power plants have high rank in merit order despatch due to high cost of electricity generation. After considering views of all members OCC directed SLDC to take up the matter with DERC and decision of DERC to be apprised to OCC.**

**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 (Breakdown report as on 12 -12-24):

S. No.	Element Name	Utility	Date of Outage	Date of Restoration	Status of Outage
1.	66 kV Mundaka to Nangloi	BRPL	12-07-24	15-01-24	Y Phase cable faulty
2.	33 kV IP Bay-24 to Nehru Stadium	BRPL	24-11-24	31-01-25	B Phase single Cable Faulty Cable No 2 faulty
3.	66 kV PPK-2 to Hastal Ckt-2	BRPL	11-12-24	31-01-25	R Phase single Cable Faulty
4.	33 kV IP to Bay No.18 DDU Marg	BYPL	12-11-24	09-12-24	R & B Phase single Cable Faulty
5.	66 kV Harsh Vihar to Nand Nagri Ckt-2	BYPL	16-11-24	19-12-24	B Phase Cable Faulty
6.	33 kV Preet Vihar to Dwarkapuri Ckt	BYPL	12-12-24	17-12-24	R Phase Cable Faulty
7.	66kV Park Street-DMRC CKT-I & II	DMRC	19-10-21	31-03-25	Shutdown for grid shifting work at DMRC end

8.	220/33 kV 100 MVA Tx-II at 220 kV Patparganj	DTL	12-07-24	-	Transformer failed and case of repairing under process.
9.	220 kV Maharani Bagh – Masjid Moth Ckt-II	DTL	29-01-23	31-03-25	Cable damaged
10.	220 kV Maharani Bagh – Masjid Moth Ckt-I	DTL	18-05-24	31-03-25	Cable damaged
11.	220 kV HCML-Maharani Bagh Ckt-II at 220 kV HCML	DTL	07-09-24	31-01-25	Tripped on 86-A&B, differential Relay, B-Phase trip

### Additional Agenda:-

#### 5. TPDDL Agenda:

- i. At the 220kV Subzi Mandi Grid, 33kV Incomer No. 2 has been unavailable since July 2024. Currently, it has been replaced with a spare breaker of reduced capacity, which has resulted in increased load stress on other TPDDL circuits.  
A 10-day shutdown was taken in November 2024 to address the 33kV breaker issue by replacing the isolator; however, the problem persists as the incomer cable remains connected to a breaker with a lower capacity rating.

**OCC Deliberation: -O&M (DTL) informed OCC that they are pursuing OEM to complete the work at the earliest.**

- ii. Load Constraints: 220kV Rohini-1:  
Significant load constraints are observed, especially during peak hours.  
Given the expected load growth this summer, TPDDL has been instructed to reduce the load on 220kV Rohini-1 during peak hours.

**OCC Deliberation: -OCC directed O&M (DTL) to take necessary action as per expected load demand in summer 2025 and directed TPDDL to take up the matter with top management of DTL.**

- iii. 220kV SMB:  
The alternate source for 220kV Rohini-1 is 220kV SMB, where the second 66kV transformer (N-1 contingency) is currently unavailable.

**OCC Deliberation: - OCC directed O&M (DTL) to take necessary action as per expected load demand in summer 2025 and directed TPDDL to take up the matter with top management of DTL.**

- iv. 220kV Park Street and 220kV Dev Nagar:  
Overloading is occurring on the Pragati Power to Park Street Grid circuits.  
Alternate source required for DEV Nagar in case of any exigency.  
TPDDL has been instructed to reduce the load at Dev Nagar during peak hours.

**OCC Deliberation: - Project (DTL) informed OCC that work is delayed due to GRAP-IV and will be completed by March 2025 before the onset of summer. OCC directed TPDDL to take up the matter with top management of DTL.**

#### 6. BRPL agenda:

- i. A new 33KV GIS panel is required to be installed at BRPL 33kV ITPO grid for 33kV DTC Kushaknallah substation. For this shutdown of complete 33KV GIS Busbar- 1 and 2 is required at ITPO grid for about 5 to 6 six days continuous.  
But as supply to 33kV ITPO consumer is very crucial and number events are already in schedule, continuous shutdown for 5-6 days is very difficult.  
BRPL requested OCC to review following proposals
  - An interim arrangement with the support of DTL is planned in order to maintain supply to Bharat Mandapam as mentioned below.
  - Swapping of 33 kV Cables for directly connecting-

- Lodhi Road Cables with MRS1 Cables, and
- IP bay 7 Cables with MRS2 Cables.
- DTL consent for directly connecting 220kV Lodhi Road-33kV ITPO feeder to 33KV O/G MRS-2 and connecting 220kV IP - 33kV ITPO MRS-1 bypassing panels at 33kV ITPO BRPL grid.
- Exploring possibility of MFM integration for real-time load assessment for accurate load capturing in SCADA through FRTU installed at 220Kv Lodhi Road.
- Real time load/ demand capturing through ICCP if above proposal is not possible.

A detailed note of proposal is attached as below:

**A. BRPL's proposed Plan:**

Entire work of addition of One No. 33 kV GIS Panel at BRPL ITPO Grid shall be carried out in 3 stages (130 consecutive Hours), as follows:

Sl	Stage	Details
1	1 <sup>st</sup> stage (5 Hours)	Shutdown of BRPL ITPO 33 kV Bus.(No DTL/BRPL Power Supply will be available to MRS-1 & MRS-2). Action by BRPL: Swapping of 33 kV Cables for directly connecting – a) Lodhi Road Cables with MRS1 Cables, and b) IP bay 7 Cables with MRS2 Cables. Action by ITPO: To keep their entire Load on DG.
2	2 <sup>nd</sup> Stage (120 Hours i.e. 5 Days)	33 kV Power will be available to ITPO directly from DTL (DTL Lodhi Road Supply to MRS-1 and DTL IP Bay No. 7 Supply to MRS-2). BRPL 33 kV Switchgear will be offline. Action by BRPL: Addition of One No. 33 kV GIS Panel to existing 33 kV GIS Switchgear at BRPL's ITPO Grid will be carried out by the OEM (M/s Siemens) under supervision of BRPL.
3	3 <sup>rd</sup> Stage (5 Hours)	Shutdown of BRPL ITPO 33 kV Bus.(No DTL/BRPL Power Supply will be available to MRS-1 & MRS-2). Action by ITPO: To keep their entire Load on DG. Action by BRPL: Normalisation of 33 kV Cables Swapped on 1 <sup>st</sup> Day (Sl No. 1). At the end of this phase, Shutdown of BRPL ITPO 33 kV Bus will be returned, BRPL GIS Panels will be energised and Power to ITPO will be reverted to normal (current) state.

**B. Response to ITPO Queries:**

S	ITPO Query	Reply
1.	Total period required for installation, Testing & commissioning of panel-	120 Hours (5 days), 2 <sup>nd</sup> Stage detailed above
2.	Shut down period for power interruption of Bharat Mandapam	-5 Hours Shutdown on Day 1 (1 <sup>st</sup> stage) -5 Hours Shutdown on Day 6 (3 <sup>rd</sup> Stage) -In between the aforesaid Shutdown Hours (i.e. 2 <sup>nd</sup> Stage), DTL/BRPL 33 kV supply will be available to ITPO
3.	Mode of operation for minimum interruption period.	a) During Stage 1 & 3 : DTL/BRPL Supply will not be available.ITPO shall shift their entire load requirement on DG. During Stage 2 :33 kV Power will be available directly from DTL to ITPO's33KV Incomers at Isolator Room of MRS-1 and MRS-2.



4.	Risk assessment of power interruption due to proposed interconnection arrangement in existing arrangement.	<p>a) Any isolation requirement can be carried out either from 33 kV Incomer available at ITPO ends OR from DTL ends (DTL Lodhi Road and DTL IP).</p> <p>b) BRPL will coordinate any isolation required from DTL ends.</p>
5.	SOP of operating new interconnection.	<p>a) Except for the 10 Hours combined duration of Stage-1 &amp; Stage-3, 33 kV Power will be available to ITPO for entire duration of Stage-2.</p> <p>b) ITPO will get direct feeds from DTL as follows:</p> <ul style="list-style-type: none"> <li>i. 220KV DTL Lodhi road Grid station to 33KV Incomer at Isolator Room of MRS-1.</li> <li>ii. 220KV DTL IP Bay No.7 Grid station to 33KV Incomer at Isolator Room of MRS-2.</li> </ul> <p>c) Rest of the downstream arrangement including 33 kV interconnector, will be same as before.</p> <p>d) Operation of 33 kV interconnector between MRS-1 &amp; 2: In the event of failure of either of the DTL Supply (220KV Lodhi road or 220KV IP bay No.7), load will be shifted to the healthy DTL supply through 33 kV Interconnector.</p> <p>e) Auto Changeover Time to healthy 33 kV is set at 5 Sec (adjustable).</p>
6.	Load assessment in case power taken from BRPL, ITPO grid	<p>Metering and Billing: Since BRPL 33 kV GIS Switchgear shall be out of Circuit, the metering of energy consumption shall be done through the Energy Meters installed at DTL end (Lodhi Road &amp; IP Bay-7). This way, actual bill shall be raised and Load assessment shall be avoided.</p>

**OCC Deliberation: - OCC approved the shutdown in principle. Further directed BRPL and Protection Deptt. Of DTL to review the protection setting accordingly. SLDC, BRPL and O&M (DTL) also shall make necessary name change of the feeders at their end to avoid any confusion in operation of the feeders.**

- ii. Numerous tripping and interruption observed recently at 220kV Okhla grid. BRPL requesting DTL to review jointly with BRPL team all supply tripping/interruptions etc for a holistic approach to study issue and root cause of the problems so that we can present a detailed analysis report for supply improvement schemes submission to DERC.

Recent 2 years tripping and interruptions data is attached as below-

MONTH	DATE	CIRCLE	COMPANY	CATEGORY	FROM	TO	DURATION	DIVISION	NAME OF FDR	NAME OF FEEDER	IN MW	IN MU'S	REASON
Apr-23	21-04-2023	South	TRANSCO	DU ETO BD	5:44	11:27	1:43:00	ALM	ZZKV O KH LA	11KV FEEDER SA-10 KALKAJI, DDA LSC PHASE 2, TRANSIT CAMP	3	0.0053	Due to tripping of 11KV VC-W0-1 tripped from 220KV OKHLA
Apr-23	21-04-2023	South	TRANSCO	DU ETO BD	5:44	12:20	2:36:00	ALM	ZZKV O KH LA	11KV FEEDER GOVIND PURIC LAL	1	0.0032	Due to tripping of 11KV VC-W0-1 tripped from 220KV OKHLA
Apr-23	22-04-2023	South	TRANSCO	DU ETO BD	5:57	6:03	0:06:00	ALM	ALAKWANDA	11KV FEEDERS TOWARDS PTR-2B3	10	0.0010	Due to tripping of 100MVA-TX-1 with 33KV VC-W0-1 at 220KV Okhla
Apr-23	22-04-2023	South	TRANSCO	DU ETO BD	5:57	6:15	0:18:00	NHP	MEHRU PLACE	11KV FEEDERS TOWARDS PTR-3B4	11	0.0033	Due to tripping of 100MVA-TX-1 with 33KV VC-W0-1 at 220KV Okhla
Apr-23	22-04-2023	South	TRANSCO	DU ETO BD	5:57	6:01	0:04:00	ALM	BALAJI ESTATE	11KV FEEDERS TOWARDS PTR-2	11	0.0007	Due to tripping of 100MVA-TX-1 with 33KV VC-W0-1 at 220KV Okhla
Apr-23	22-04-2023	South	TRANSCO	DU ETO BD	5:57	6:11	0:14:00	KPR	TUGHAKABAD	11KV FEEDERS TOWARDS PTR-3	7	0.0016	Due to tripping of 100MVA-TX-1 with 33KV VC-W0-1 at 220KV Okhla
Apr-23	22-04-2023	South	TRANSCO	DU ETO BD	5:57	6:26	0:36:00	KPR	TUGHAKABAD	11KV FEEDERS TOWARDS PTR-2	6	0.0038	Due to tripping of 100MVA-TX-1 with 33KV VC-W0-1 at 220KV Okhla
Apr-23	22-04-2023	South	TRANSCO	DU ETO BD	5:57	6:08	0:12:00	NHP	O KH LA PH-2	11KV FEEDERS TOWARDS PTR-3	4	0.0008	Due to tripping of 100MVA-TX-1 with 33KV VC-W0-1 at 220KV Okhla
Apr-23	22-04-2023	South	TRANSCO	DU ETO BD	5:57	6:17	0:20:00	NHP	EAST OF KALASH	ALL 11KV FEEDERS	8	0.0027	Due to tripping of 100MVA-TX-1 with 33KV VC-W0-1 at 220KV Okhla
Apr-23	22-04-2023	South	TRANSCO	DU ETO BD	5:03	5:25	0:23:00	ALM	ZZKV O KH LA	ALL 11KV FEEDERS	4	0.0014	Due to tripping of 11KV VC-1 at 220KV Okhla due to EBF
Apr-23	22-04-2023	South	TRANSCO	DU ETO BD	5:42	5:02	0:02:00	ALM	ZZKV O KH LA	11KV FEEDERS DDA LSC OKHLA PH-2 GOVIND PURI BUDH VIHAR (C LAL), PRTA-10 KALKAJI, TRANSIT CAMP	2	0.0007	Due to tripping of 11KV VC-1 at 220KV Okhla due to EBF
May-23	01-05-2023	South	TRANSCO	DU ETO BD	17:32	17:36	0:03:00	ALM	O KH LA PH-1	ALL 11KV FEEDERS TOWARDS PTR-4	3	0.0001	Due to tripping of 100MVA-TX-1 at 220KV Okhla
May-23	01-05-2023	South	TRANSCO	DU ETO BD	17:32	17:36	0:03:00	SVR	MC IE	ALL 11KV FEEDERS	15	0.0007	Due to tripping of 100MVA-TX-1 at 220KV Okhla
May-23	01-05-2023	South	TRANSCO	DU ETO BD	17:32	17:53	0:21:00	ALM	ZZKV O KH LA	ALL 11KV FEEDERS TOWARDS PTR-2	4	0.0013	Due to tripping of 100MVA-TX-1 at 220KV Okhla
May-23	31-05-2023	South	TRANSCO	DU ETO BD	15:24	15:50	0:16:00	SKT	MALVIYA NAQAR, TX-1 & DC SAKET	MALVIYA NAQAR - ALL 11KV FEEDERS TOWARDS PTR-1 DC SAKET 11KV FEEDERS TOWARDS PTR-2 & 3	38	0.0041	Due to tripping of 160MVA-TX-1 with 66KV VC-W0-1 at 220KV Okhla
May-23	31-05-2023	South	TRANSCO	DU ETO BD	15:24	15:58	0:24:00	ALM	ZZKV O KH LA	ALL 11KV FEEDERS TOWARDS PTR-W0-1	5	0.0020	Due to tripping of 160MVA-TX-1 with 66KV VC-W0-1 at 220KV Okhla
Jun-23	21-05-2023	South	TRANSCO	DU ETO BD	17:17	17:20	0:03:00	NHP	BALAJI ESTATE	ALL 11KV FEEDERS TOWARDS PTR-2	12	0.0005	Due to tripping of 100MVA-TX-1 with 33KV VC-W0-1 at 220KV Okhla
Jun-23	21-05-2023	South	TRANSCO	DU ETO BD	17:17	17:20	0:03:00	KPR	TKD	ALL 11KV FEEDERS TOWARDS PTR-2, PTR-3	12	0.0005	Due to tripping of 100MVA-TX-1 with 33KV VC-W0-1 at 220KV Okhla
Jun-23	21-05-2023	South	TRANSCO	DU ETO BD	17:17	17:20	0:03:00	NHP	EDK	ALL 11KV FEEDERS TOWARDS PTR-2, PTR-3	16	0.0008	Due to tripping of 100MVA-TX-1 with 33KV VC-W0-1 at 220KV Okhla
Jul-23	09-07-2023	South	TRANSCO	DU ETO BD	10:36	10:36	0:02:00	SKT	MALVIYA NAQAR	ALL 11KV FEEDERS	15	0.0005	Due to tripping of 66KV VC-1 S.2 at 220KV Okhla due to 11KV Bus section flashover
Jul-23	09-07-2023	South	TRANSCO	DU ETO BD	10:36	10:36	0:02:00	SKT	D.C SAKET	ALL 11KV FEEDERS TOWARDS PTR-2B3	11	0.0004	Due to tripping of 66KV VC-1 S.2 at 220KV Okhla due to 11KV Bus section flashover
Jul-23	09-07-2023	South	TRANSCO	DU ETO BD	10:36	10:36	0:02:00	SKT	ADCHIMI	ALL 11KV FEEDERS TOWARDS PTR-1	6	0.0002	Due to tripping of 66KV VC-1 S.2 at 220KV Okhla due to 11KV Bus section flashover
Jul-23	09-07-2023	South	TRANSCO	DU ETO BD	10:36	10:36	0:02:00	SKT	PUSHP VIHAR	ALL 11KV FEEDERS TOWARDS PTR-1	4	0.0001	Due to tripping of 66KV VC-1 S.2 at 220KV Okhla due to 11KV Bus section flashover
Jul-23	09-07-2023	South	TRANSCO	DU ETO BD	10:36	10:36	0:02:00	ALM	O KH LA PH-1	ALL 11KV FEEDERS TOWARDS PTR-3B4	10	0.0003	Due to tripping of 66KV VC-1 S.2 at 220KV Okhla due to 11KV Bus section flashover
Jul-23	09-07-2023	South	TRANSCO	DU ETO BD	10:36	10:36	0:02:00	SVR	MC IE	ALL 11KV FEEDERS TOWARDS PTR-2B3	15	0.0005	Due to tripping of 66KV VC-1 S.2 at 220KV Okhla due to 11KV Bus section flashover
Jul-23	09-07-2023	South	TRANSCO	DU ETO BD	10:36	10:42	0:06:00	KPR	BATRA	ALL 11KV FEEDERS TOWARDS PTR-1	7	0.0007	Due to tripping of 66KV VC-1 S.2 at 220KV Okhla due to 11KV Bus section flashover
Jul-23	09-07-2023	South	TRANSCO	DU ETO BD	10:36	11:20	0:44:00	ALM	ZZKV O KH LA	ALL 11KV FEEDERS	10	0.0073	Due to tripping of 66KV VC-1 S.2 at 220KV Okhla due to 11KV Bus section flashover
Jul-23	12-07-2023	South	TRANSCO	DU ETO BD	14:15	14:32	0:17:00	SKT	KUMU	ALL 11KV FEEDERS	12	0.0004	Due to tripping of 66KV VC-1 S.2 at 220KV Okhla (Due to VC-TRIPPER AT DTL EBF.)
Jul-23	12-07-2023	South	TRANSCO	DU ETO BD	14:15	14:32	0:17:00	SKT	PUSHP VIHAR	ALL 11KV FEEDERS TOWARDS PTR-W0-1	6	0.0017	Due to tripping of 66KV VC-1 S.2 at 220KV Okhla (Due to VC-TRIPPER AT DTL EBF.)
Jul-23	12-07-2023	South	TRANSCO	DU ETO BD	14:15	14:32	0:17:00	SKT	SELECT CITY MALL	0/0 SELECT CITY MALL	4	0.0011	Due to tripping of 66KV VC-1 S.2 at 220KV Okhla (Due to VC-TRIPPER AT DTL EBF.)
Jul-23	12-07-2023	South	TRANSCO	DU ETO BD	14:15	14:32	0:17:00	SKT	DC SAKET	ALL 11KV FEEDERS TOWARDS PTR-W0-2,3	15	0.0042	Due to tripping of 66KV VC-1 S.2 at 220KV Okhla (Due to VC-TRIPPER AT DTL EBF.)
Jul-23	12-07-2023	South	TRANSCO	DU ETO BD	14:15	14:32	0:17:00	KPR	TUGHAKABAD	ALL 11KV FEEDERS TOWARDS PTR-W0-1	10	0.0028	Due to tripping of 66KV VC-1 S.2 at 220KV Okhla (Due to VC-TRIPPER AT DTL EBF.)
Jul-23	12-07-2023	South	TRANSCO	DU ETO BD	14:15	14:32	0:17:00	SKT	SHAKLIK	ALL 11KV FEEDERS TOWARDS PTR-W0-3	20	0.0057	Due to tripping of 66KV VC-1 S.2 at 220KV Okhla (Due to VC-TRIPPER AT DTL EBF.)
Jul-23	12-07-2023	South	TRANSCO	DU ETO BD	14:15	14:32	0:17:00	KPR	BATRA	ALL 11KV FEEDERS TOWARDS PTR-W0-1	3.5	0.0024	Due to tripping of 66KV VC-1 S.2 at 220KV Okhla (Due to VC-TRIPPER AT DTL EBF.)
Jul-23	12-07-2023	South	TRANSCO	DU ETO BD	14:15	14:32	0:17:00	SKT	MALVIYA NAQAR	ALL 11KV FEEDERS	18	0.0061	Due to tripping of 66KV VC-1 S.2 at 220KV Okhla (Due to VC-TRIPPER AT DTL EBF.)
Jul-23	12-07-2023	South	TRANSCO	DU ETO BD	14:15	14:48	0:03:00	ALM	O KH LA PHASE-1	ALL 11KV FEEDERS TOWARDS PTR-W0-3,4	20	0.0010	Due to tripping of 66KV VC-1 S.2 at 220KV Okhla (Due to VC-TRIPPER AT DTL EBF.)
Jul-23	17-07-2023	South	TRANSCO	DU ETO BD	1:50	2:28	0:38:00	ALM	ZZKV O KH LA	ALL 11KV FEEDERS TOWARDS PTR-2	7	0.0042	Due to tripping of 66KV VC-1 S.2 at 220KV Okhla due to DC S.2 at 220KV Okhla
Jul-23	31-07-2023	South	TRANSCO	DU ETO BD	20:02	20:07	0:05:00	ALM	ZZKV O KH LA	ALL 11KV FEEDERS TOWARDS 11KV VC-2	7	0.0005	Due to tripping of 100MVA-TX-1 with 66KV VC-W0-1 at 220KV Okhla
Jul-23	31-07-2023	South	TRANSCO	DU ETO BD	20:02	20:04	0:02:00	ALM	66KV OKHLA PHASE	ALL 11KV FEEDERS TOWARDS PTR-3,4	13	0.0004	Due to tripping of 100MVA-TX-1 with 66KV VC-W0-1 at 220KV Okhla
Sep-23	10-09-2023	South	TRANSCO	DU ETO BD	17:08	17:13	0:05:00	KPR	BATRA	ALL 11KV FEEDERS TOWARDS PTR-W0-1	6	0.0005	Due to tripping of 220KV OKHLA CKH.S. II at EBF at 220KV STPS
Sep-23	10-09-2023	South	TRANSCO	DU ETO BD	17:08	17:13	0:05:00	ALM	O KH LA PHASE-1	ALL 11KV FEEDERS TOWARDS PTR-W0-3,4	22	0.0019	Due to tripping of 220KV OKHLA CKH.S. II at EBF at 220KV STPS
Sep-23	10-09-2023	South	TRANSCO	DU ETO BD	17:08	17:13	0:05:00	SVR	MALVIYA NAQAR	ALL 11KV FEEDERS	12	0.0010	Due to tripping of 220KV OKHLA CKH.S. II at EBF at 220KV STPS
Sep-23	10-09-2023	South	TRANSCO	DU ETO BD	17:08	17:13	0:05:00	SKT	D.C SAKET	ALL 11KV FEEDERS TOWARDS PTR-W0-1,2	5	0.0004	Due to tripping of 220KV OKHLA CKH.S. II at EBF at 220KV STPS
Sep-23	10-09-2023	South	TRANSCO	DU ETO BD	17:08	17:13	0:05:00	KPR	TUGHAKABAD	ALL 11KV FEEDERS TOWARDS PTR-W0-1	7	0.0005	Due to tripping of 220KV OKHLA CKH.S. II at EBF at 220KV STPS
Sep-23	10-09-2023	South	TRANSCO	DU ETO BD	17:08	17:13	0:05:00	SKT	PUSHP VIHAR	ALL 11KV FEEDERS TOWARDS PTR-W0-1	4	0.0004	Due to tripping of 220KV OKHLA CKH.S. II at EBF at 220KV STPS
Sep-23	10-09-2023	South	TRANSCO	DU ETO BD	17:08	17:13	0:05:00	ALM	ZZKV O KH LA	ALL 11KV FEEDERS	8	0.0007	Due to tripping of 220KV OKHLA CKH.S. II at EBF at 220KV STPS
Sep-23	13-09-2023	South	TRANSCO	DU ETO BD	14:05	14:24	0:25:00	ALM	ZZKV O KH LA	11KV FEEDERS ALAKWANDA VIJAYAPKT, PRTA-17, PRTA-8, TOWARDS PTR-2	4	0.0021	Due to tripping of 11KV VC-1 at 220KV Okhla
Sep-23	13-09-2023	South	TRANSCO	DU ETO BD	14:05	15:15	1:10:00	ALM	ZZKV O KH LA	11KV FEEDERS STARAKPT, GOALLI NO 13 GOVIND PURI TOWARDS PTR-2	1	0.0010	Due to tripping of 11KV VC-1 at 220KV Okhla
Sep-23	29-09-2023	South	TRANSCO	DU ETO BD	14:24	14:28	0:04:00	NHP	EDK	ALL 11KV FEEDERS TOWARDS PTR-3	9	0.0005	Due to tripping of 33KV VC-3,4 at 220KV Okhla
Sep-23	29-09-2023	South	TRANSCO	DU ETO BD	14:24	14:28	0:04:00	ALM	ALM	ALL 11KV FEEDERS TOWARDS PTR-2	5	0.0003	Due to tripping of 33KV VC-3,4 at 220KV Okhla
Sep-23	29-09-2023	South	TRANSCO	DU ETO BD	14:24	14:28	0:04:00	NHP	BALAJI	ALL 11KV FEEDERS TOWARDS PTR-2	9	0.0007	Due to tripping of 33KV VC-3,4 at 220KV Okhla
Sep-23	29-09-2023	South	TRANSCO	DU ETO BD	14:24	15:00	0:36:00	NHP	O KH PH-2	ALL 11KV FEEDERS TOWARDS PTR-2,3,4	18	0.0108	Due to tripping of 33KV VC-3,4 at 220KV Okhla
Nov-23	10-11-2023	South	TRANSCO	DU ETO BD	13:10	14:28	1:48:00	ALM	ZZKV OKHLA	TOWARDS 11KV VC-2 SBD EALL 11KV FEEDER	5	0.0083	Due to tripping of 20 MVA Transformer-1 at 220KV Okhla (11KV BUS FLASHED)
Nov-23	20-11-2023	South	TRANSCO	DU ETO BD	5:36	7:10	1:34:00	ALM	ZZKV O KH LA	ALL 11KV FEEDERS TOWARDS 11KV VC-2	2	0.0021	Due to tripping of 11KV VC-1 at 220KV Okhla
Dec-23	09-12-2023	South	TRANSCO	DU ETO BD	7:05	7:45	0:40:00	ALM	ZZKV O KH LA	11KV FEEDER GOVIND PURI BUDH VIHAR (C LAL)	1	0.0003	Due to tripping of 20 MVA Transformer-1 at 220KV Okhla
Dec-23	09-12-2023	South	TRANSCO	DU ETO BD	7:05	7:56	0:51:00	ALM	ZZKV O KH LA	11KV FEEDER PRTA-10 KALKAJI	1	0.0007	Due to tripping of 20 MVA Transformer-1 at 220KV Okhla
Dec-23	09-12-2023	South	TRANSCO	DU ETO BD	7:05	8:08	1:03:00	ALM	ZZKV O KH LA	11KV FEEDER DDA LSC PH-2	0	0.0004	Due to tripping of 20 MVA Transformer-1 at 220KV Okhla
Dec-23	09-12-2023	South	TRANSCO	DU ETO BD	7:05	8:16	1:11:00	ALM	ZZKV O KH LA	11KV FEEDER TRANSIT CAMP	1	0.0007	Due to tripping of 20 MVA Transformer-1 at 220KV Okhla
Mar-24	13-03-2024	South	TRANSCO	DU ETO BD	17:02	17:07	0:05:00	KPR	TKD	ALL 11KV FEEDERS	9	0.0007	Due to tripping of 33KV VC-4 at 220KV Okhla
Mar-24	13-03-2024	South	TRANSCO	DU ETO BD	17:02	17:07	0:05:00	NHP	NHP	ALL 11KV FEEDERS TOWARDS PTR-1,2,4	10	0.0008	Due to tripping of 33KV VC-4 at 220KV Okhla

**OCC Deliberation:** - BRPL requested OCC to form a committee for analysis of the root cause of multiple trippings occurring at the 220 kV Okhla substation and its outgoing BRPL feeders. Committee will also recommend necessary actions for improvement of the system. OCC approved the formation of the committee in principle. Committee shall submit report within 15 days. Committee shall have three members from DTL and BRPL each and are as such:

1. DTL- DGM(T)OS – **Chairman**
2. DTL- Manager(T) Protection - **Member**
3. BRPL- Sh. Navin Garg (Transmission lines), Sh. Varun Ahuja (Protection Deptt.), Sh. M. Kishore babu (System Operation)- **Member**
4. DTL- Manager(T) Okhla - **Member Secretary**

Meeting ended with thanks to chair

\*\*\*\*\*