DELHI TRANSCO LIMITED

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

AGENDA FOR DELHI OCC MEETING NO. 11/2024-25

Date : 21.02.2025
Time : 03:00 P.M
Venue : BRPL Premises, New Delhi

1. Confirmation of minutes of 10th OCC meeting (2024-25) held on 21.01.2025.

The 10th Delhi OCC meeting (2024-25) was held on 21.01.2025 physically at BYPL SCADA Control Centre, Shankar Road, New Delhi in accordance with the agenda circulated vide letter dt:16.01.2025. Minutes of the OCC meeting were issued on 30.01.2025 and were uploaded on DTL website (http://dtl.gov.in/Content/369_1_OCC-Meeting2024.aspx)

(OCC may deliberate)

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

Proposed planned shutdowns for the month of March -2025 (Annexure-I).

(OCC may deliberate)

3. 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 13 -02-25):

S. No.	Element Name	Utility	Date of Outage	Date of Restoration	Status of Outage
1.	33 kV IP Bay-24 to Nehru Stadium	BRPL	24-11-24		B Phase single Cable Faulty Cable No 2 faulty
2.	33 kV IP Bay-24 to Sarai Julena Ckt T-Off Kilokari Ckt	BRPL	09-02-25		All Phase single Cable Faulty
3.	33 kV IP Bay-05 to Lajpat Nagar	BRPL	11-02-25		Y Phase single Cable Faulty
4.	33 kV IP to Kilokari Bay-1	BRPL	12-02-25		Y Phase cable faulty
5.	66 kV Peeragarhi to A-4 Paschim Vihar		12-02-25		B Phase single Cable Faulty Cable 02
6.	66 kV Patparganj to Khichripur Ckt-2	BYPL	29-01-25		Y Phase single Cable Faulty
7.	33 kV Kashmiri Gate to Civil Line Ckt-1	TPDDL	11-02-25		
8.	66kV Park Street-DMRC CKT-I & II	DMRC	19-10-21		Shutdown for grid shifting work at DMRC end
9.	220/33 kV 100 MVA Tx-II at 220 kV Patparganj	DTL	12-07-24	-	Transformer failed and case of repairing under process.
10.	220 kV Maharani Bagh–Masjid Moth Ckt-II	DTL	29-01-23		Cable damaged
11.	220 kV Maharani Bagh–Masjid Moth Ckt-I	DTL	18-05-24		Cable damaged
12.	220 kV Kashmiri Gate-SOW Ckt- II	DTL	29-12-24		Due to tilting of tower no.- 15

Additional Agenda:

4. BRPL Agenda:

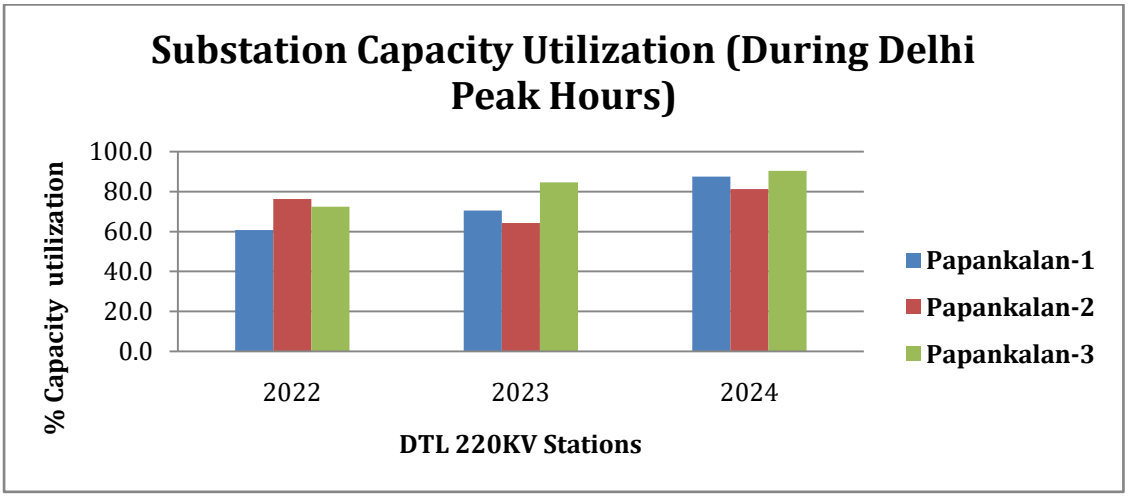
A. Summer constraints 2025

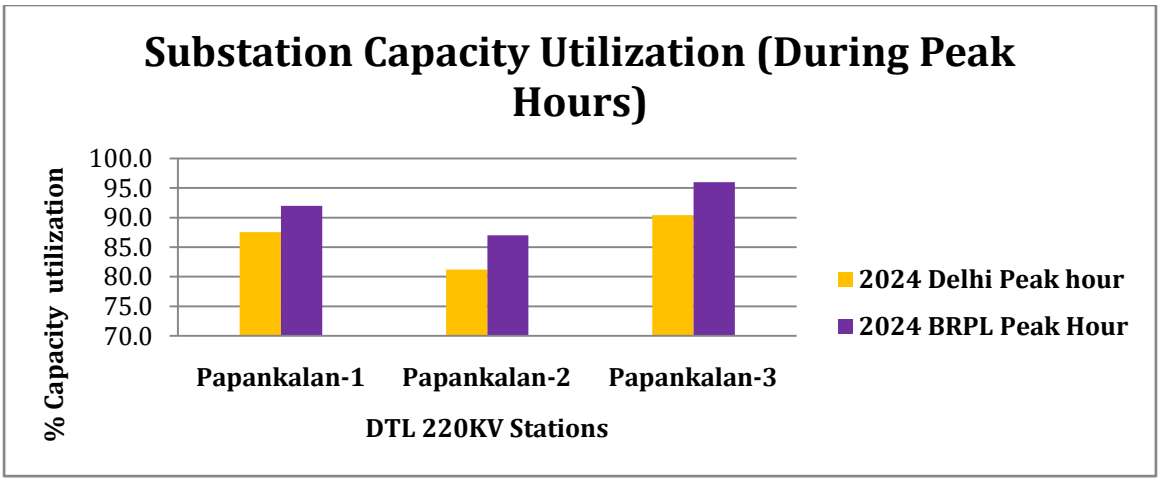
i. Power Transformer

DTL and BRPL surpassed all-time time peak demand in last summer 2024. BRPL experienced loading issues at following DTL 220KV Stations. BRPL requesting DTL to analyze loading position of Power Transformers and plan to mitigate issues of overloading constraints at 220kV DTL substations as mentioned below:

(1) 220KV PPK 3 – Peak demand loading - 96% (23:00 Hrs on 18.06.24)
(2) 220KV PPK 2 – Peak demand loading - 87% (23:00 Hrs on 18.06.24)
(3) 220KV PPK 1 – Peak demand loading - 92% (23:00 Hrs on 18.06.24)
(4) 220KV Peeragarhi – Peak demand loading - 88% (15:00 Hrs on 19.06.24) & ~95% (23:00 Hrs on 18.06.24)
(5) 220KV IP- Peak demand loading - 92% (15:00 Hrs on 19.06.24) & ~100% (23:00 Hrs on 18.06.24)

PPK cluster





ii. Power Transformer outage

(1) 220KV PPK1 – 100 MVA PTR-1- under outage
Remarks: Very critical to meet load 2025 summer
(2) 220KV PPK1 – 100 MVA PTR-1- under outage
Remarks: Very critical to meet load 2025 summer

B. Deliberation on new Permit to work system from 220KV DTL substations. SOP and protocol

(OCC may deliberate)

5. BYPL Agenda:

Considering the ensuing summer months ahead in order to meet peak loading of BYPL we hereby request you to add the following vital system constraints in DTL system for the OCC meeting on priority.

i. BYPL requests OCC, DTL kindly share the current status of pending faulty Power Transformer's & adhere to early promised timelines to BYPL regarding revival of faulty power transformers in DTL grids.
   a. (220/33)kV 100 MVA Tx-II at 220 kV IP Station is Faulty since 05-07-2024 - To meet the summer peak load of BYPL customers fed from this grid are VIP installations(BJP Headquarter, Govt. offices, Hospitals, Railway stations etc.) this transformer is required to be revived by 15-03-2025.
   b. (220/33)kV 100 MVA Tx-II at 220 kV Patparganj is Faulty since 12-07-2024 - This power transformer needs to be revived on priority by 15-03-2025. The alternate source for 220KV Patparganj is 220KV Preet vihar grid, during peak summer loading condition the 220KV infeed circuits from 400KV Harsh vihar to Preet vihar becomes overloaded & can't meet the BYPL load with sufficient redundancy.

ii. BYPL is totally dependent on 220kV Parkstreet which is having 220kV source infeeds from Pragati power only.

   Due to over loading of both the Pragati power circuits DTL system invariably request BYPL to reduce the load from 220kV Park street, which feeds to VVIP/vital installations of central delhi that is Hospitals, Govt.offices etc. To enhance the availability of power & to meet N-1 compliance at 220kV infeed level DTL is requested to expedite the scheme for provision of new infeed to parkstreet from 220kV Electric lane grid station to 220kV Dev Nagar grid at the earliest. OCC earlier promised that this infeed will be charged by 28-02-2025. OCC may take up for charging of this circuit by 15-03-2025 positively.

iii. We are facing communication issues since long time with DTL control room same issue already discussed in last OCC meeting. In case of any power failure from DTL end we can't connect easily with DTL through landline, So BYPL requests DTL please resolve the issue on urgent basis for smooth functioning of sytem control during the ensuing summer.

(OCC may deliberate)

6. PGCIL Agenda:

i. Bus 3& 4 shutdown for jack bus replacement work :- NRPC has accorded the approval for the outage as per attachment. Consent for availing the shutdown from 24.02.2025 is requested for availing the shutdown & requested with forum to accord the approval accordingly.

Sr No	Description	From	To	Remarks
1	400 kV Bus 3	23/02/2025,07:00 Hrs	25/02/2025,18:00 Hrs	Shutdown of the 400 kV bus 3 will be taken on continuous basis for the jack buses connected to bus 1 i.e. Jack Bus 8 & 10
2	400 kV Bus 4	23/02/2025,07:00 Hrs	25/02/2025,18:00 Hrs	Shutdown of the 400 kV bus 4 will be taken on daily basis as in the evening Mbagh 1 & 2 & Meerut 4 shall be charged

3	400 kV Mandola Maharanibagh Ckt 1	23/02/2025,07:00 Hrs	25/02/2025,18:00 Hrs	Daily basis
4	400 kV Mandola Maharanibagh Ckt 2	23/02/2025,07:00 Hrs	25/02/2025,18:00 Hrs	Daily basis
5	400 kV Mandola Meerut 4	23/02/2025,07:00 Hrs	25/02/2025,18:00 Hrs	Daily basis
6	125 MVAr bus Reactor	23/02/2025,07:00 Hrs	25/02/2025,18:00 Hrs	Daily basis
7	400 kV Bus 4	26/02/2025,07:00 Hrs	28/02/2025,18:00 Hrs	Shutdown of the 400 kV bus 4 will be taken on continuous basis for the jack buses connected to bus 1 i.e. Jack Bus 7 & 9
8	400 kV Bus 3	26/02/2025,07:00 Hrs	28/02/2025,18:00 Hrs	Shutdown of the 400 kV bus 3 will be taken on daily basis as in the evening Mbagh 1 & 2 & Meerut 4 shall be charged
9	400 kV Mandola Maharanibagh Ckt 1	26/02/2025,07:00 Hrs	28/02/2025,18:00 Hrs	Daily basis
10	400 kV Mandola Maharanibagh Ckt 2	26/02/2025,07:00 Hrs	28/02/2025,18:00 Hrs	Daily basis
11	400 kV Mandola Meerut 4	26/02/2025,07:00 Hrs	28/02/2025,18:00 Hrs	Daily basis
12	125 MVAr bus Reactor	26/02/2025,07:00 Hrs	28/02/2025,18:00 Hrs	Daily basis

ii. SPS arrangement for load shedding at 400/220 kV Mandola & Maharani Bagh Substation& proposed also for Jhatikara substation:- Matter discussed in OCC 228 & it was directed DTL, POWERGRID and NRLDC for separate discussion and SPS logic may be finalised and implementation as soon as possible. Letter in this regard placed to NRLDC.

(OCC may deliberate)

7. DTL Agenda: Proposal for Shifting the Load by BYPL and BRPL from 220kV Indraprastha Sub-Station.

Background:

The 220 KV Substation lndraprastha (IP) is one of the oldest sub-station situated on the western bank of Yamuna River. The 220 kV IP Sub-Station, located on the western bank of the Yamuna River, is one of the oldest and most critical sub-stations under Delhi Transco Limited (DTL). It supplies power to a wide range of essential loads, including Central Delhi, South Delhi, hospitals, stadiums, VIP/VVIP official and residential areas, and water treatment plants at both 33 kV and 220 kV levels. The sub-station has an installed capacity of 3X100 MVA transformers, with the following details:

1. Transformer-1 (Tx-1): 220/33/11 kV, 100 MVA, BHEL Make, Manufactured in 1988
2. Transformer-2 (Tx-2): 220/33/11 kV, 100 MVA, BHEL Make, Manufactured in 2001
3. Transformer-3 (Tx-3): 220/33/11 kV, 100 MVA, EMCO Make, Manufactured in 2013

On 05.07.2024 at 18:52 Hrs,Transformer-2 (Tx-2) tripped due to Differential RYB, Buchholz Trip, and 86 relays and is not in the position to energize.

The tripping report was sent to OS Department, DTL for its analysis. The report of OS Deptt was the recommendations of OS deptt. are as follows:

(1) The PMS should be followed to ensure the health of the Transformers.
(2) Thermo-vision scanning of the bushings should be carried out regularly to avoid the heating of the bushing clamps & rods due to frequent faults in 33 kV system, causing the failure ofthe bushings and Transformers.
(3) The DISCOMs should be advised to minimize the faults in the 33 kV system.
(4) The possibility be explored to cover the 33 kV AIS with mesh to avoid frequent tripping's and damage to costly equipment.
(5) Immediate repairing replacement of the Transformer should be carried out at the earliest tomeet the load.
(6) 33 kV AIS should be replaced with 33 kV GIS.

Further, as advised by the worthy Director Operation the matter was take up with M/s BHEL vide our email dated 16.07.2024 with all test results etc. M/s BHEL vide its email dated 17.07.2024 replied as "We have reviewed all the test reports and photographs related to internal inspection done by your team. It seems some damages has been developed in the R phase of this transformer and to access the actual damage dismantling of transformer needs to be done. The dismantling of transformer, coils, etc. cannot be done at site therefore, the transformer needs to be brought back at our works T.P. Jhansi. Here in out factory, we will do complete root cause analysis of the transformer and then, further course of action and reports will be communicated to you.

For detailed analysis, a committee was approved by the then Director Operation under the chairmanship of ED (TECH)-II having GM O&M-I, DGM (OS), DGM(PROTECTION), DGM (CTL). DGM EAST - O&M-II as member with Sr. Manager (T) O&M E-II. The committee recommended to scrap and de capitalized the said transformer.

As per scrap disposal policy order no. F.DTL/108/04/2017-HR/POLICY0/744 dated 16.11.2017,the standing condemnation committee was constituted by the approval of GM (T) O&M-II.

The Standing Condemnation Committee deliberated facts & figures and recommends that the failed 100MVA 220/33kV, Power Transformer BHEL Sr. No. 2013464 including accessories "As is where is basis" lying at 220kV AIS S/StnIndraprastha is not reparable at site. The committee further opined that, 220kV/33kV/ 11kV BHEL make power transformer may be considered for declaration as scrap by the competent authority.

Action Taken for un interrupted /reliable supply

The tender under PR No. 1200012163 (Dismantling, Dragging, shifting & ETC work) has been approved and sent to C&MM deptt for tendering. The bid was floated and extended 2-3 times due to non-participation of bidders and it will now be open by C&MM deptt. on 20.02.2025.

Another tender under PR No. 1200013374 (Dismantling, Dragging, shifting & ETC work) was opened by C&MM deptt, but no bidder is techno-commercially qualified.

Further, the PR 11100003040 for Civil related work was also approved and sent to civil division, C&MM for tendering.

The loading of 220/33kV 100MVA Power Transformers at the time of 220kV S/stn. IP Peak on dated 28.05.2024 at 15:00Hrs are as follows: -

S.No.	Name of Transformer	Loading(in MW)
1	220/33/11 kV, 100 MVATx-1	88.5
2	220/33/11 kV, 100 MVATx-2	94.6
3	220/33/11 kV, 100 MVATx-3	79.0

It may be seen from above table that total load on transformers at IP substation was 262 MW. Now, the Tx-2 is under breakdown and there is urgent need of redistributing of atleast 100 MW load from 220 kV Indraprastha Sub-Station especially in the summer to ensure system reliability and prevent overloading of the remaining 02 transformers (Tx No. 1 &3).

For the intermittent relief, it is proposed that BRPL/BYPLshould shift the load of atleast100MW from IP sub – station especially from 33 kV Kilokari Bay Nos. 1, 3, 25, and 37 or any other 33kv feeders to other nearby sub-stations .The load details of some of heavily loaded feeders are as follows:

S.No.	Name & Bay Number	Load on 28.05.2024 at 16:00 Hrs
1	33kv Kilokary Bay No. 1	292 A
2	33kvKilokary Bay No. 3	298 A
3	33kvLajpat Nagar Bay No. 05	375 A
4	33kvNizamuddin Bay No. 13	227 A
5	33kv Delhi Gate Bay No.17	270A
6	33kv JLN Stadium Bay No. 24	453A
7	33kv Kilokary Bay No. 25	208A
8	33kv Kamla Market Bay No. 30	286A
9	33kv Kilokary Bay No. 37	226A

In view of above, it is proposed that BRPL and BYPL may be requested to shift the load of at least 100 MW from the Indraprastha 220 kV Sub-Station to other sub-stations for ensuring the reliability and stability of the power supply in the region.

(OCC may deliberate)

On Table Agenda:

8. DTL Agenda:

A Review was taken by hon'ble CMD on 17/02/2025 with all connected utilities with Delhi Power system. During, the meeting, it was decided to prepare a SOP for doing operations at Narela.
This may be taken up in OCC meeting for formation of a committee for SOP preparation.

(OCC may deliberate)

9. DTL Agenda: Proposal for shutdown on dated 27.02.2025 for Repairing of 33kV GIS incomer panel-II, from OEM, M/s Schneider make at 220kV S/stn Subzi Mandi

As per mail received from OEM, dated 21.02.2025 and requested regarding shutdown for repairing of 33kV GIS incomer panel-II, from OEM, M/s Schneider make at 220kV S/stn Subzi Mandi. the following 33kV Feeders to be required under shutdown for repairing of 33kV GIS incomer panel-II.
Therefore you are requested to discuss the matter in the OCC meeting to be held today for the shutdown of said feeder.

i. 33kV BG Road I&II
ii. 33kV Sahzadabad-I&II
iii. 33kV Incomer no-II
iv. 16 MVA N0-II

S. No.	Name of Sub-Station	Date of Shut-down (DD.MM.YY)	Time duration of shut-down	Name of the Element	Work to be carried	P.O. No. (if applicable) against which work will be done	Special Remarks (if any)
1	220kV Sabzi Mandi	27.02.25	09:00 hrs to 18:00 hrs	33kV Incomer no-II 16 MVA N0-II 33kV BG Road I&II 33kV Sahzadabad-I&II	Repairing of 33kV GIS incomer panel-II, from OEM, M/s Schneider make at 220kV S/stn Subzi Mandi.	5200000908 dated 27.06.2019	TPDDL & BSES is requested, may be shifted their load of outgoing feeder during repairing work of 33kV GIS ,I/C-II

(OCC may deliberate)

10. SLDC Agenda: Mock trial of Black Start exercise of GTPS

As per IEGC 34(3), the mock trials of Black Start exercise of Gas turbine generating stations are required to be done. Mock Black-start exercise of power stations therefore needs to be carried out in-order to ensure healthiness of black start facility.

In view of above IPGCL & NDMC representative may kindly be requested to provide the suitable date for conducting Mock Trial of Black Start exercise of GTPS.

(OCC may deliberate)

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