



# 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/201/2021-22/DGM(OS)/F4/193

Date: 14.03.2022

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

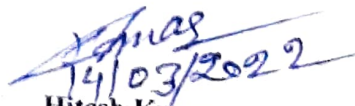
Sub: Agenda for 12<sup>th</sup> Delhi OCC Meeting (2021-22) to be held on 22.03.2022 at 11:00 A.M. through video conferencing.

The 12<sup>th</sup> Delhi OCC meeting (2021-22) is scheduled to be held on dt.- 22.03.2022, 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,

  
14/03/2022  
Hitesh Kumar  
DGM(T)OS, DTL

## **DELHI TRANSCO LIMITED**

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

### **AGENDA FOR DELHI OCC MEETING NO. 12/2021-22**

**Date** : **22.03.2022**  
**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 11<sup>th</sup> Delhi OCC meeting (2021-22) held on dated 22.02.2022.**

The 11<sup>th</sup> Delhi OCC meeting (2021-22) was held on 22.02.2022 through video conferencing in accordance with the agenda circulated vide letter dt: 15.02.2022. Minutes of the OCC meeting were issued on 02.03.2022 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)).

Following comments were received against minutes of 11<sup>th</sup> Delhi OCC meeting:-

##### **a) Agenda by DTL,no-4:-Frequent trippings of 33kV BRPL feeders at Okhla Sub-station.**

This is to bring in notice of OCC that on dt.03.02.2022 at 05:15 hrs BRPL feeder 33 KV Nehru place Ckt-I was tripped at 220 KV Okhla on distance protection Zone-I , at distance 2.8 kms from 220 KV Okhla at Fault current 12A, at same time DTL 100 MVA Pr Tx No- 4 along with Incomer also tripped on differential protection and master trip 86 relay. LV Tests & internal inspection was carried out on transformer and found that the transformer winding has been damaged and transformer can't be repaired at site and it will take time to restore.

From 220 KV Okhla Sub Station, 33 KV BRPL feeders likes (Alaknanda Ckt, East of kailash ,Tughlaqabad, Nehru place, Balaji & Okhla phase -2) has frequently tripped due to line/cable fault and resulting to damagineg DTL equipments including Power Transformer at 220 KV Okhla Sub-station.

The 33 KV BRPL feeders (O/H & U/G) from 220 KV Okhla sub-station are very old and need for special attention, in maintenance & replacement of outlived Overhead line/underground cable to avoid the frequent trippings of line. The summer is coming in Delhi so that maintenance of lines (damage conductor/ jumper/ trimming of trees , removing of kite thread, replacement of damage insulators etc.) must be attend by BRPL before the summer season to avoid any unwanted outage/ tripping of 33 KV feeders .

It is also requested to BRPL, that DTL is going to commission 33 KV GIS substation in place of existing 33KV AIS sub-station at 220 KV Sub station Okhla and it will commission in 2-3 months. The BRPL is requested to take necessary arrangements like Cable/Line Termination Cable Trench, Installation of H-Pole etc. with in time and also replace the outlived/damaged overhead line/Cables on priority to avoid frequent tripping and any damage of GIS equipment in future.

***As per MOM:- OCC acknowledged the concern of O&M/Okhla and stated that unwanted trippings need to be avoided as ultimately it stresses the transformers being source. OCC advised BRPL to conduct patrolling/cleaning of the line on regular basis & also upgrade***

***their system in planned manner. OCC further advised BRPL to explore the possibilities of converting the O/H conductor to U/G cables.***

**BRPL Comment:-** BRPL is already taking care of routine patrolling and O/H to U/G cable conversion plans where fault prone areas. But we are expecting robust protection system at DTL end to isolate fault and cause any damage to upstream elements. Complete O/H to U/G conversion involves approvals at many levels which is time consuming.

b) Agenda by DTL, no-5:- **Abnormal gases increase in 20MVA Tx-II at Sarita-Vihar.**

20MVA, 66/11KV Power Transformer was commissioned in year 1991 at 220KV Sarita Vihar. Last major work on this transformer executed on 06.04.2017 wherein transformer was completely overhauling by the external agency. DGA conducted on dated 09.08.2016 indicate hydrogen gas level 270PPM. Whereas DGA conducted on dated 06.02.2017 indicate eventually rise of hydrogen gas at 1597PPM. Transformer was kept under observation and discussed in the DTL Transformer expert committee

On dated 16.07.2021 DGA hydrogen gas level identified greater than 7350 PPM and TDCG 7740 PPM. DGA again conducted on 18.09.2021 in report hydrogen identified greater than 5000 and TDCG 11620 .Internal inspections conducted on 21.10.2021 as recommended by Transformer expert committee in their minutes dated 30.09.2021.

During the internal inspection no anomaly was identified, hence transformer put in service on dated 25.10.2021 after extraction of gases through vacuum filtration.

On dated 01.11.2021 DGA report again indicates abnormal level of hydrogen gas i.e. 2131 PPM, in between DGA conducted several times .However on dated 07.02.2022 Transformer kept out of service when hydrogen & TDGC identified in DGA report dated 07.02.2022 greater than 5000 PPM & 42892 PPM respectively.

2x20MVA, 66/11KV Power Transformer installed at Sarita Vihar primarily cater load of Sarita vihar nearby area at 11KV level. Both 20MVA Power Transformer installed at 220KV Sarita Vihar have been surpassed their useful life of 25 years. Augmentation of these Transformer with 25MVA Power is in consideration by planning .But till new Transformers are not installed, whatever arrangement for load shifting is to be done by BSES , in case one or both transformer kept out of service due to their unsatisfactory operation.

Alternatively BSES may allocate relatively new 20MVA Power Transformer on loan basis to DTL, till DTL scheme is not materialized.

In the past also DTL has shown its concern towards shifting of 11KV Load from DTL sub-station but situation remain the same till date.

***As per MOM:- O&M/Sarita Vihar apprised OCC that they have made all the efforts in recent past to control the rising trend of gases in the transformer. O&M/Sarita Vihar also stated that they will be initiating the process of revival/replacement of the transformer & the complete process of revival may take a time.***

***After detailed deliberation, OCC advised BRPL to shift/manage load in this period & make the alternative arrangement to cater the load requirement till revival of this transformer. BRPL & O&M/DTL shall explore the possibilities to maintain the reliability of the system.***

***OCC also advised O&M/DTL to expedite the process of revival of the transformer.***

**BRPL Comment:-** DTL should mention time line and expected restoration of 20 MVA PTR which is under outage. BRPL do not have spare PTR to allocate on loan basis, still we are pursuing availability.

**(Members may like to confirm the same)**

**DTL Agenda:-**

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

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

**(OCC may deliberate)**

**3. DTL/Civil requested the shutdown of 220kV electric cable in work of emergency strengthening of Barapula cable bridge near Sarai Kale Khan.**

The scope of work covers the strengthening and revival of steel bridge carrying live 220kV cables. The concerned agency has requested for shutdown of 220kV electric cables for 9 days in order to execute one particular item of schedule. The condition of bridge is near collapse condition and it is carrying 220kV electric cables, so it would be prudent on the part of DTL to accede to this request of concerned agency to minimize the chances of any unwanted incident during execution of work.

**(OCC may deliberate)**

**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 14.03.2022
1.	220KV TRAUMA CENTER-33KV AIIMS CKT	BRPL	29.01.22	UNDER BREAKDOWN.
2.	220KV NARAINA- 33KV MAYAPURI CKT-II	BRPL	04.03.22	TRIPPED ON EARTH FAULT.
3.	220KV IP -BAY 03 KILOKARI CKT	BRPL	06.03.22	'Y' PH. SINGLE CABLE FAULTY.
4.	220KV PATPARGANJ-VIVEK VIHAR CKT-I	BYPL	26.02.22	'R' PHASE CABLE FAULTY.
5.	220KV PARK STREET - 66KV DMRC CKT.-I&-II	DMRC	19.10.21	SHUT DOWN FOR GRID SHIFTING WORK AT DMRC END.
6.	220KV IP BAY- 28- 33KV CONNAUGHT PLACE	NDMC	16.02.22	'Y' & 'B' PHASE CABLE TRIPPED ON E/F & O/C.
7.	220KV TRAUMA CENTRE-NETAJI NAGAR	NDMC	08.03.22	'R' & 'Y' PHASE CABLE FAULTY.
8.	220KV SHALIMAR BAGH-66KV PP-I CKT-II	TPDDL	04.03.22	'Y' PHASE CABLE FAULTY.
9.	220KV SHALIMAR BAGH-66KV SGTN CKT-II	TPDDL	08.03.22	UNDER BREAKDOWN.
10.	400KV BAWANA, 315MVA ICT-II	DTL	30.03.21	315MVA ICT-II CAUGHT FIRE AND DAMAGED.
11.	AT PEERAGARHI: - 220/33KV 100MVA TRF.-I	DTL	10.07.21	TRIPPED ON DIFFERENTIAL. TX FAULTY.

S. no.	Element's Name	Utility	Date of outage	Status of outage as on 14.03.2022
12.	220KV LODHI ROAD - 33 KV VIDYUT BHAWAN, JLN STADIUM FEEDERS	DTL	29.11.21	AFFECTED DUE TO BOTH 33KV BUSES DEAD BECAUSE OF FIRE IN 33KV GIS
13.	AT MUNDKA: 315MVA ICT – IV	DTL	13.11.21	TRIPPED ON BUCHLOZ RELAY. 'R' PH. WINDING DAMAGED.
14.	220KV TRAUMA CENTER- 33KV BHIKAJI KAMA PLACE	DTL	03.02.22	'R' PHASE PT DAMAGED.
15.	220KV OKHLA- 100 MVA-IV	DTL	03.02.22	TRIPPED ON DIFFERENTIAL.
16.	220KV SARITA VIHAR- 20MVA TX-II	DTL	07.02.22	MADE OFF DUE TO HIGH CONTENT OF HYDROGEN GAS.
17.	220KV VASANT KUNJ- 220/66kV 100 MVA-I	DTL	16.02.22	UNDER OVERHAULING.
18.	220KV SUBZI MANDI- 100MVA Tx-II	DTL	02.03.22	UNDER OVERHAULING.
19.	400KV BAMNAULI- 315MVA ICT-I	DTL	03.03.22	FOR DISMENTLING OF ICT.

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