



No. F.DTL/201/2021-22/DGM(OS)/F4/ 196

Date:- 28.03.2022

**Subject: 12<sup>th</sup> Meeting of Delhi Operation Coordination Committee (2021-22)  
- Minutes of Meeting.**

The 12<sup>th</sup> meeting of Delhi Operation Coordination Committee (OCC) was held on 24.03.2022 (Thursday), 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,

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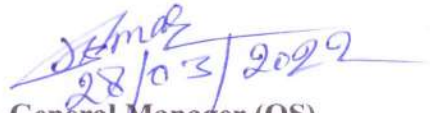
(Hitesh Kumar)

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

  
28/03/2022  
Dy. General Manager (OS)

To all members - - As per list enclosed - -

**12<sup>th</sup> Meeting of Delhi Operation Coordination Committee (2021-22)- 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 12<sup>TH</sup> DELHI OCC MEETING**

<b>Date :</b>	<b>24.03.2022</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>

**The Chairman, Delhi OCC welcomed the members/participants and commended on the efforts to maintain the voltage profile in winter season. Further, he requested all members to continue their efforts for smooth operation of the Generation, Transmission & Distribution system. He also added that summer season has started and all efforts should be made for carrying out the uninterrupted power supply in Delhi network. Chairman requested to start the meeting as per circulated agenda.**

It was informed that the peak demand for February'22 was 4985 MW against peak demand of 4486 MW in February'21. Total energy consumed in February'22 was 1872.942 MUs against 1806.160 MUs in February'2021. SLDC Delhi informed that, anticipated peak demand for the month of April'22 is 6100MW and expected availability is 6098 MW (Deficit -2MW). The anticipated maximum energy requirement for one day is 96.666MUs and expected availability is 132.532MUs (Surplus +35.866MUs).

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**1. Confirmation of minutes of 11th Delhi OCC meeting (2021-22) held on dated 22.02.2022.**

The 11th 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.*

**OCC Deliberation:-** **OCC advised BRPL to coordinate with DTL/Protection to review/revise the relay setting of the protection scheme. OCC also advised BRPL to share the details of all feeders with complete configuration of the composite system. These details should be shared in protection coordination to strengthen the network system.**

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.*

**OCC Deliberation:-** Chairman, OCC apprised all the members that a meeting was convened on 04.03.2022 under chairmanship of Hon'ble Special Secretary (Power) and after that BRPL agreed to provide 20MVA Power Transformer immediately to DTL on loan basis. BRPL shall share the timeline after reviewing the availability of the transformer. OCC advised to expedite the process of revival of the transformer.

**Members confirmed the Minutes of 11<sup>th</sup> Delhi OCC meeting.**

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

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

- OCC advised O&M/DTL to utilize shutdown window alongwith many shutdowns proposed by DTL Protection Deptt./Project Deptt. by clubbing their Operation and Maintenance activities as also per PMS to minimize the outage period. Every shutdown must be availed upto maximum optimization.
- SLDC informed that to cater the load in 2<sup>nd</sup> fortnight of April month, the planned shutdowns will be provided preferably in the early morning hours.
- OCC advised SLDC & DISCOMs to support and give permission/code for PTW/shift load as per respective load to issue PTW expeditiously. This will enable the best utilization of shutdowns/ manpower engaged for the work in the interest of every stake holder and ultimately the consumer of Delhi.
- Due to high demand profile during week days, the shutdowns may be shifted on weekends on the basis of loading.
- TPDDL requested to take consent one day prior the planned shutdown.

**3. DTL Agenda:- 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 Deliberation:-** DTL/Civil apprised OCC that shutdown of 220kV Maharani Bagh-Masjid Moth Ckts & 220kV Maharani Bagh-AIIMS Ckts are required for the work by considering the safety concern. OCC advised that it is not feasible to switch Off the Masjid Moth sub-station for 9 days for this work particularly in this peak time. OCC advised DTL/Civil to submit a revised working schedule for carrying out the work to the OS department/SLDC/BRPL keeping short duration of shutdown. BRPL shall coordinate with their higher management and try to provide the shutdown to complete the work.

**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 24.03.2022
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S. no.	Element's Name	Utility	Date of outage	Status of outage as on 24.03.2022
1.	220KV TRAUMA CENTER-33KV AIIMS CKT	BRPL	29.01.22	UNDER BREAKDOWN. <b>Expected by 07.04.2022.</b>
2.	220KV NARAINA- 33KV MAYAPURI CKT-II	BRPL	04.03.22	TRIPPED ON EARTH FAULT. <b>Energized on 15.03.2022.</b>
3.	220KV IP -BAY 03 KILOKARI CKT	BRPL	06.03.22	'Y' PH. SINGLE CABLE FAULTY. <b>Energized on 15.03.2022.</b>
4.	220KV PATPARGANJ-VIVEK VIHAR CKT-I	BYPL	26.02.22	'R' PHASE CABLE FAULTY. <b>Energized on 21.03.2022.</b>
5.	220KV PARK STREET - 66KV DMRC CKT.-I&-II	DMRC	19.10.21	SHUT DOWN FOR GRID SHIFTING WORK AT DMRC END. <b>Expected by April-2022.</b>
6.	220KV IP BAY- 28- 33KV CONNAUGHT PLACE	NDMC	16.02.22	'Y' & 'B' PHASE CABLE TRIPPED ON E/F & O/C. <b>Expected by April-2022.</b>
7.	220KV TRAUMA CENTRE-NETAJI NAGAR	NDMC	08.03.22	'R' & 'Y' PHASE CABLE FAULTY. <b>Energized on 16.03.2022.</b>
8.	220KV SHALIMAR BAGH-66KV PP-I CKT-II	TPDDL	04.03.22	'Y' PHASE CABLE FAULTY. <b>Expected by 30.03.2022.</b>
9.	220KV SHALIMAR BAGH-66KV SGTN CKT-II	TPDDL	08.03.22	UNDER BREAKDOWN. <b>Energized on 14.03.2022.</b>
10.	400KV BAWANA, 315MVA ICT-II	DTL	30.03.21	315MVA ICT-II CAUGHT FIRE AND DAMAGED. <b>Expected by April-2022.</b>
11.	AT PEERAGARHI: - 220/33KV 100MVA TRF.-I	DTL	10.07.21	TRIPPED ON DIFFERENTIAL. TX FAULTY. <b>Expected by 15<sup>th</sup> May-2022.</b>
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. <b>The replacement of damaged panels with new panels is under progress.</b>
13.	AT MUNDKA: 315MVA ICT – IV	DTL	13.11.21	TRIPPED ON BUCHLOZ RELAY. 'R' PH. WINDING DAMAGED. <b>Dismantling of ICT is in progress and being replaced with ICT-I at Bamnauli. Expected by April-2022.</b>
14.	220KV TRAUMA CENTER-33KV BHIKAJI KAMA PLACE	DTL	03.02.22	'R' PHASE PT DAMAGED. <b>Expected by 15.04.2022.</b>
15.	220KV OKHLA- 100 MVA-IV	DTL	03.02.22	TRIPPED ON DIFFERENTIAL. <b>The work for shifting of hot reserve transformer from 220kV PPK-I substation has been initiated &amp; shall be commissioned by 30.04.2022.</b>

S. no.	Element's Name	Utility	Date of outage	Status of outage as on 24.03.2022
16.	220KV SARITA VIHAR-20MVA TX-II	DTL	07.02.22	MADE OFF DUE TO HIGH CONTENT OF HYDROGEN GAS. <b>BRPL shall provide the Power Transformer immediately to DTL on loan basis</b>
17.	220KV VASANT KUNJ-220/66kV 100 MVA-I	DTL	16.02.22	UNDER OVERHAULING. <b>Expected by 05.04.2022.</b>
18.	220KV SUBZI MANDI-100MVA Tx-II	DTL	02.03.22	UNDER OVERHAULING. <b>Expected by 03.04.2022.</b>
19.	400KV BAMNAULI- 315MVA ICT-I	DTL	03.03.22	FOR DISMANTLING OF ICT. <b>Dismantling of ICT is in progress &amp; shall be shifted to Tikri Kalan for ICT-IV to meet load requirement of summer.</b>

*The meeting ended with thanks to the Chair.*

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