

**DELHI TRANSCO LIMITED**  
(Regd. Office: Shakti Sadan, Kotla Road, New Delhi-110002)

**MINUTES OF OCC MEETING DT. 28.09.2016**

GM (O&M)-I, DTL, Chairman-OCC welcomed the members of OCC and other distinguished guests. Chair emphasized to carry out required maintenance activities as part of winter preparedness plan.

List of participants are enclosed here with.

The point-wise deliberations made during the OCC meeting are as below:

**1.0 Confirmation of minutes of OCC meeting dated. 30.08.16.**

An OCC meeting was held on 30.08.16 in accordance with the agenda circulated vide letter dt. 29.08.16. Minutes of the aforesaid OCC meeting were issued vide letter dt. 09.09.16.

Members confirmed the same.

**2.1 Status of Hot Reserve of Transformers at all levels.**

DTL updated the status of 100 MVA hot reserve transformer and cold reserves at 66 kV and 33 kV level:

S. No	Capacity	Present population in nos.	Status of the hot reserve as on 30.08.16
1.	220/66kV Tx 160MVA	22	DERC approved 160MVA Transformer at PPK-II as hot reserve. However, load has been taken on same transformer. Considering the loading conditions at PPK-II and light load conditions at Kanjhawla, OCC advised DTL to consider 160MVA Transformer at Kanjhawla as hot reserve for next two years and members agreed for the same. DTL informed that the transformer at Kanjhawla is being transferred to PPK-I and the 100MVA Tx at PPK-I is being routed to Park street for replacement of failed transformer. OCC advised DTL to start the process for purchase of 160MVA Power transformer for hot reserve. <b>(Action by O&amp;M, DTL)</b>
2.	220/66kV Tx 100MVA	42	DTL informed that tender for supply and ETC of 220/33kV 100MVA Tx as hot reserve at 220kV Patparganj Substation has been awarded. Tx. is expected to be commissioned before March, 2017. OCC advised DTL planning to propose in steering committee meeting for having 220/66-33 KV, 100MVA Tx as spare in DTL system. <b>(Action by Planning deptt., DTL)</b>
3.	220/33kV Tx 100MVA	37	

4.	66/11kV 20MVA Tx.	24	DTL Planning department informed that the scheme for 25MVA power transformers has been prepared and however the same are for replacement and not for reserve. OCC advised DTL to get the approval of DERC for cold reserve transformers each at 66kV and 33kV level for further action. <b>(Action by Planning deptt., DTL)</b>
5.	33/11kV Tx. (16 and 20MVA)	16	

OCC advised DTL to expedite the work.

## **2.2 Sheath earthing of all outgoing 66kV cable at 220kV Pappankalan-II substation.**

DTL informed that the sheath earthing of all outgoing 66kV cables are to be properly strengthened at 220kV PPK-II Substation. DTL informed that earthing of 66kV GGSB and 66kV Matiyala circuits are not proper.

During the meeting dt.30.08.16, OCC advised BRPL to look into the same and ensure adequate earthing to avoid unwarranted damage to the cable and maintain continuity of supply.

DTL informed that no action has been taken till date. BRPL confirmed that they shall attend the shortcomings observed by DTL regarding earthing of 66kV cables emanating from PPK-II substation in co-ordination with them. OCC advised that the sheath earthing of O/G cables be connected with the Earth-Mat of Sub-Stn.

**(Action by BRPL)**

## **2.3 No protection on 11kV feeders emanating from 220kV Gazipur substation.**

DTL O&M Substation in-charge of Gazipur informed that there is “NO protection/circuit breaker” exist at BYPL end on 11 KV out going feeders emanating from Gazipur.

The issue has been deliberated during meeting dt.30.08.16 and OCC advised BYPL to submit the status of protection of 11kV feeders emanating from 220kV Gazipur substation to DTL OS department before next OCC meeting.

BYPL informed that they shall provide the data before next OCC meeting. BYPL further informed that all the 11kV feeders emanating from DTL Gazipur grid are terminating on circuit breaker at first switching substation except RMUs. RMUs terminate on isolators.

**(Action by BYPL).**

## **2.4 Providing approach passage to DTL Property, tower no. 351 of 220kV SOW-Geeta Colony Line.**

DTL informed that one of tower of 220kV SOW-Geeta Colony D/C line identified as T. No. 351 lies in premises fenced and guarded by Indian Railways. In case of breakdown/ emergency and regular maintenance in transmission system, approach passage to the said tower is required, but construction around the tower prevents DTL breakdown team to reach the location. DTL has taken up with Northern Railways at many instances, but no action has been taken till date.

Accordingly, DTL requested OCC to deliberate the issue with Railways. No representative from Railways could attend the meeting for deliberation.

OCC advised that DTL should take-up the matter directly with railways to resolve the issue as approach to the electrical installations has to be provided by land owner/occupier as per IE Act 2003.

## **2.5 Alternative supply arrangement for IGI Airport, Delhi**

DTL informed that at present, IGI Airport is being provided supply from only one source i.e. 220kV DIAL sub station. In this regard, DTL requested Airport authority i.e. DIAL to have alternate power supply source in case of failure of supply from DIAL S/Stn. of DTL.

The issue was discussed wherein DIAL informed that presently there are three terminals at IGI Airport. The power to Terminal –I & II is fed through 8 nos of 33kV outgoing feeders from 66kV Palam S/Stn. which is having two sources of supply from 220kV Mehrauli and from 220kV Vasant Kunj S/stn. However, power source to Terminal –III is only from 220kV DIAL S/Stn. at 66kV Level. Representative of DIAL further stated there is no 66kV Bus arrangement at 66kV DIAL S/Stn.

OCC pointed out that DIAL should explore the possibility of utilizing idle 66kV feeder from Palam s/stn terminating near 220kV DIAL S/stn. BRPL representative stated that this feeder is lying redundant for the last about three years and PTW on this is still with DIAL and if DIAL is not utilizing this feeder than they may surrender this bay to BRPL.

OCC advised DIAL to submit the schematic arrangement of power supply to existing terminals of IGI Airport in the next OCC meeting. Representative of DIAL agreed to submit the same alongwith their future plan of utilizing the redundant 66kV Line.

**(Action by GMR-DIAL)**

## **SLDC Agenda Points**

### **3.1 Power supply failure to DMRC from DTL sub-stations.**

DMRC vide letter no. DMRC/O&M/TR/RSJ/T-4(11) dated 12.07.2016 has reported interruptions in power supply to DMRC from various grid sub-stations of DTL which affected the operation of DMRC. Details of disruptions are attached as Annexure-1

During OCC meeting dt. 28.07.16, SLDC informed that the majority of trippings as provided by DMRC leading to power supply disruptions to DMRC are local or at DISCOM level.

OCC also advised DMRC to review their electrical network in view of increased load as number of coaches and trains have increased. During meeting dt.30.08.16, OCC advised DMRC to take

up with DGM(Protection) of DTL for the deliberation of relay coordination issue, if any, in Protection Co-ordination committee meeting or in a separate joint meeting of DMRC, GTPS and DTL.

**(Action by DMRC)**

### **3.2 Synchronization of 12 MW Gazipur Waste to Energy Plant.**

The Waste to Energy Plant of EDWPCL is connected at 66KV level to the 220/66KV Gazipur sub-station of DTL. The 66KV feeder connecting the plant to the sub-station was charged on 19.08.2015. Thereafter, the plant was drawing power from BYPL through DTL substation at Gazipur.

On **21.10.2015**, the plant itself synchronized with the grid without informing to the control room of SLDC and started injecting power in to the grid. The plant has now requested to consider the said date as date of synchronization.

Regarding date of synchronization, it is informed that the generator is required to obtain the permission of the SLDC, Delhi (concerned load dispatch Centre in its case) before injecting its infirm power into the grid.

The relevant clause 8.(7) of the Central Electricity Regulatory Commission (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State Transmission and related matters) Regulations, 2009 is reproduced here under for clarity in this regard:

*'A generating station, including captive generating plant which has been granted connectivity to the grid shall be allowed to undertake testing including full load testing by injecting its infirm power into the grid before being put into commercial operation, even before availing any type of open access, after obtaining permission of the concerned Regional Load Dispatch Centre, which shall keep grid security in view while granting such permission.'*

During OCC meeting dt. 28.07.16, EDWPCL informed that they have synchronized with Gazipur grid on **21.10.15** for turbine testing and de-synchronized after the testing. OCC advised EDWPCL to inform and take permission from Delhi SLDC before actual synchronization of their system with grid. OCC further advised EDWPCL to submit the relay settings at their end to DTL Protection and OS divisions for review. EDWPCL informed that they shall submit the same to DTL. EDWPCL further informed that their communication system is ready and requested DTL to kindly check the same.

During meeting dt.30.08.16, OCC advised EDWPCL to submit the telemetry data to SLDC within 2 weeks before proceeding to next step.

EDWPCL informed that they shall provide the telemetry data to SLDC by 30<sup>th</sup> September, 2016.

**(Action by EDWPCL)**

#### **4.0 Joint Checking of Overhead Power Line crossings (TPDDL) with railway representatives.**

Railways informed that due to sharp increase in falling of power line crossings on railway traction wire, which resulting into extensive damage to 25kV Traction equipments and disruption of railway traffic. As such railways requested to carry out joint survey of all overhead power line crossings of TPDDL with railway representatives to avoid any failure of these crossings in future.

During meeting dt. 30.08.16, OCC advised DTL and DISCOMs to nominate the representatives for joint inspection of transmission lines along railway crossings from their end and send the same to Railways for suitable dates of inspection.

DISCOMs raised the issue of free power block from railways to carry out necessary maintenance work. No representative from Railways could attend the meeting for deliberation. However OCC advised members to provide nominations for joint inspection from their end so that the same may be sent to Railways.

**(Action by DTL, BRPL, BYPL, TPDDL)**

#### **5.0 Shutdown of Generation Plant (TPDDL agenda)**

On dated 17.07.2016, Delhi DISCOMs had given consent for shutdown of one unit of NTPC-Jhajjar. NTPC-Jhajjar has two major beneficiaries - Delhi & Haryana, both with 46% share. So consent of both was required to shut down unit.

However due to paddy season Haryana required its full share from the plant. Haryana was ready to give consent provided they received their full share from the plant. In such a scenario a mechanism at NRLDC level is required which allows NTPC-Jhajjar to shut down one unit and curtailing the schedule of Delhi Only. Of the two remaining units, Haryana will continue to receive its full share, while Delhi will only receive the rest. A real-time change of allocation percentages in such scenarios is required.

During the OCC meeting dt.28.07.16, OCC advised SLDC and DISCOMs to have a separate meeting at SLDC building to deliberate on the aforesaid issue before proposing to NRLDC/NRPC.

During OCC meeting dt. 30.08.16, SLDC informed that meeting is yet to be convened. OCC advised SLDC and DISCOMs to have meeting on the aforesaid issue during 2<sup>nd</sup> week of September, 2016.

SLDC informed that no meeting could be held yet and the meeting with DISCOMs shall be conveyed during October, 2016 for deliberation on the aforesaid issue.

**(Action by SLDC, BRPL, BYPL, TPDDL)**

## **6.0 Permission for installation of communication equipment in DTL premises (BYPL Agenda Point)**

As per OCC meeting dt. 04.05.16, BYPL submitted request for permission to install BYPL equipment like network rack, tower etc for new Link connectivity for FRTUs installed in the DTL grids.

BYPL requested DTL to provide update on the status of request/permission for the same, as the FRTU communication equipment installed presently are outdated and are not working as required for BYPL Operations.

During the OCC meeting dt.30.08.16, BYPL informed that they have not submitted any request letter to Director (Operations), DTL till date. OCC again advised BYPL to request DTL at the earliest for further necessary action. OCC further advised DTL and BYPL to explore the possibility of communication of 11kV feeders in similar way to that of 66kV and 33kV feeders.

BYPL informed that they shall write a request letter to Dir(Oprns.), DTL for further process and action. OCC advised TPDDL and BRPL to proceed in the similar way to BYPL for installation of communication equipment in DTL premises.

## **7.0 Details of Supply failure and grid disturbances on monthly basis (DMRC agenda).**

DMRC requested SLDC to provide the details of supply failure from DTL and grid disturbances on monthly basis as DMRC is also affected from such grid disturbances and power supply failures.

SLDC informed that the details of shutdown and forced outages in DTL system are available on Delhi SLDC website.

## **8.0 Overhauling of Module-II Steam turbine and generator at GTPS (PPCL Agenda)**

PPCL informed that they have planned to take GTPS module-II on shutdown for overhauling of steam turbine and generator. The expected schedule is from 15<sup>th</sup> October, 2016 to 14<sup>th</sup> November, 2016 and all the other units of GTPS shall be available. PPCL informed the same for kind information of all members of Delhi OCC.

## **9.0 Proposed shutdowns of DTL**

OCC approved the shutdowns proposed by DTL for the month of October, 2016 as per enclosed Annexure subject to real time conditions.

DISCOMs requested OCC to advise DTL to carry out all planned maintenance activities before 15<sup>th</sup> April, 2017 so that no planned shutdowns will be carried out during Summer 2017.

Accordingly, OCC advised DTL as well as DISCOMs to plan all maintenance activities in such a way that these are completed before 15<sup>th</sup> April, 2017.

**(Action by DTL)**

**10.0 Long/Recent outage of Elements in Delhi power system.**

Members updated the status of following Long/Recent outage of Elements in Delhi Power system:

S. No.	Element's Name	DISCOM /DTL	Date and Time of outage	Remarks/ Status as on 23.08.16
1.	33kV BAY -3 (IP – Kilokri)	BRPL	22.02.11	Clearance from Railways for laying of Underground cables near Bhairon Road is pending. OCC advised BRPL to inform DTL after awarding of the said work.
2.	33kV RIDGE VALLEY - KHEBAR LINE CKT.-I	BRPL	08.02.15	Breaker faulty. To be revamped by including in GIS. GIS is commissioned. SCADA work is in progress. Expected by 30.10.16
3.	33kV RIDGE VALLEY - KHEBAR LINE CKT.-II	BRPL	31.01.16	GIS is commissioned. SCADA work is in progress. Expected by 30.10.16
4.	66kV RIDGE VALLEY-V.KUNJ CKT.-II AT RIDGE VALLEY	BRPL	13.02.16	UNDER SHUT DOWN. Expected by 30.10.16
5.	66kV RIDGE VALLEY - V.KUNJ CKT.-I	BRPL	25.02.16	UNDER SHUT DOWN. Expected by 30.10.16
6.	20MVA PR.TR.-III AT VSNL	BRPL	20.07.16	UNDER BREAK DOWN. EXPECTED BY 30.09.16
7.	33kV LODHI RD -EXHIBITION GROUND-II CKT.	BRPL	22.09.16	Y'PH. SINGLE CABLE FAULTY. EXPECTED BY 15.10.16
8.	33kV BAY - 5 (IP - LAJPAT NAGAR)	BRPL	22.09.16	'B'PH. SINGLE CABLE FAULTY. EXPECTED BY 15.10.16
9.	33kV ROHTAK ROAD - MADIPUR CKT.	BRPL	28.05.16	CABLE FAULTY. EXPECTED BY 30.10.16
10.	66kV SAGARPUR - REWARI LINE CKT.	BRPL	30.07.16	'B'PH. CABLE FAULTY. EXPECTED BY 15.11.16

11.	30MVA PR.TR. AT NANGLOI	BRPL	18.08.16	UNDER SHUT DOWN. EXPECTED BY 30.10.16
12.	33KV PANDAV NAGAR - DMS CKT.	TPDDL	03.04.16	PROBLEM IN RMU. EXPECTED BY 30.10.16
13.	66KV ROHINI SEC.-28 - ROHINI -VI CKT.-I	TPDDL	15.06.16	Ý'PH. CABLE FAULTY. ROAD CUTTING PERMISSION REQUIRED. EXPECTED BY 15.10.16
14.	33kv NARAINA(220kv) - O/G PVR PAYAL CKT.	TPDDL		ENERGIZED ON 26.09.16
15.	33kv LODHI ROAD - BHARATI NAGAR CKT.	NDMC		CABLE FAULTY. AWAITING FOR POLICE PERMISSION FOR ROAD DIGGING. EXPECTED BY 02.10.16
16.	33kv BAY-42 (IP - CONNAUGHT PLACE)	NDMC		Ý'AND 'B' PH. CABLE FAULTY. EXPECTED BY 30.09.16
17.	400kv BAMNAULI - JHAKTIKARA CKT.-I	DTL	22.05.16	Tower erection work is yet to be started. In process of tendering.
18.	220/66kv 100MVA PR.TR.-III AT 220kv PPK-I	DTL	04.09.16	HV SIDE Ý' PH. WINDING DAMAGED. Expected by 30.11.16
19.	220/33kv 100MVA PR.TR.-II AT 220kv PARK STREET	DTL	11.09.16	PUT OFF DUE TO RISING IN OIL TEMPERATURE. Expected by 30.11.16

OCC advised members to expedite the work.

**(Action by BRPL, TPDDL, NDMC, DTL)**

### 11.0 Additional agenda points with the permission of the Chair.

#### 11.1 Operational strategy to provide uninterrupted supply to DIAL.

SLDC informed that as present, 400kV Bamnauli supply is running in radial mode due to outage of 400kV Bamnauli – Ballabgarh Ckt-I and outage of 400kV Bamnauli – Jhatikara Ckt-I which are out since 25.09.2016 and 22.05.2016 respectively. 400kV Bamnauli – Jhatikara Ckt-II is charged on ERS. The revival of both the circuits may take considerable time.

Recently on 15.09.2016, 16.09.2016 and 17.09.2016, the supply to DIAL interrupted due to failure of 400kV supply at Bamnauli.

In order to provide stable supply to DIAL sub-station, the following changes are proposed in the 220kV network connecting / outgoing from 400kV Bamnauli S/Stn:-

1. 1X500MVA + 1X315MVA ICT be kept along with 220kV Pappankalan-I Ckt-I&II and 220kV Pappankalan-II Ckt-I & II. ICTs be charged through 400kV Bamnauli – Jhatikara Ckt-II.
2. 1X500MVA + 1X315MVA ICT be kept along with 220kV DIAL Ckt-I & II and 220kV Naraina Ckt-I & II. ICTs be charged through 400kV Bamnauli – Ballabgarh Ckt-II.
3. Bus arrangement at Naraina 220/33kV 100MVA TxS to be kept on one 220kV Bus along with 220kV Naraina – Ridge Valley Ckt. 220kV Bamnauli Ckt-I & II be kept on other bus and 220kV Bus coupler shall be kept closed.
4. Bus arrangement at Mehrauli 220/66kV 160/100MVA TxS to be kept on one 220kV Bus along with 220kV DIAL Ckt-I & II. 220kV BTPS Ckt-I & II and 220kV Vasant Kunj Ckt-I & II be kept on other bus. 220kV Bus coupler shall be kept closed.
5. Protection Department to provide SPS at Naraina and Mehrauli on 220kV Bus coupler with the logic that load not to exceed 200MW through bus coupler. In case of failure of 400kV Bamnauli – Ballabgarh Ckt-II, the network from Maharani bagh sub-station i.e. 220kV Maharani Bagh – Trauma Center – Ridge Valley – Naraina will feed the supply to 220kV DIAL through 220kV bus of Bamnauli.

The issue has been deliberated and members agreed for the same. OCC advised DTL Substation in-charge of Mehrauli and Naraina to make all necessary arrangements as requested by Protection department for the implementation of above strategy.

OCC advised BRPL to be prepared for load shedding at Mehrauli and Vasant Kunj in case of load constraints during the operation of above strategy in case of contingency.

**(Action by DTL, BRPL)**

## 11.2 Frequent Interruption at DTL End:

TPDDL informed that that since Aug'2016, there have been frequent interruptions in TPDDL area, due to tripping at DTL end. From 1<sup>st</sup> Aug 2016 to 20<sup>th</sup> Sept 2016, there are 33 instances when TPDDL faced interruption from DTL Grid substation (including one interruption at BBMB Grid). Further, maximum numbers of Supply Fail cases were observed at **220kV Sabzi Mandi, 220kV Naraina, 220kV Gopalpur, and 220kV Pappankalan.**

Sub-station wise summary has also been given below:

SR NO	GRID	Supply Fail	Break Down
1	220 KV GOPAL PUR	5	0
2	220 KV SUBZI MANDI	8	2
3	220 KV NARAINA	8	0
4	220 KV PAPPAN KALAN	4	0
5	220 KV ROHINI	2	0
6	220 KV SHALIMAR BAGH	1	1

7	220 KV KANJHAWLA	1	0
8	220 KV BBMB	1	0
Total		30	3

DTL informed that they shall provide the details of trippings at aforesaid substations to TPDDL.

**(Action by DTL)**

### **11.3 Submission of ADMS data for 11kV feeders by DISCOMs**

SLDC informed that the DISCOMs have not submitted the data of 11kV feeders for ADMS till date and requested them to submit at the earliest.

OCC advised DISCOMs to submit the requisite data to SLDC at the earliest.

**(Action by DISCOMs)**

### **12.0 Meeting ended with vote of thanks to the Chair.**