

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

**AGENDA OF OCC MEETING DT. 28.07.2016**

**Date** : 28.07.2016 (Thursday)  
**Time** : 10:30 AM  
**Venue** : Office of GM(O&M)-I, Park Street.

**1.0 Confirmation of minutes of OCC meeting dt. 29.06.16.**

An OCC meeting was held on 29.06.16 in accordance with the agenda circulated vide letter dt. 27.06.16. Minutes of the aforesaid OCC meeting were issued vide letter dt. 08.07.16.

Members may like to confirm the same.

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

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

S. No	Capacity	Present population in nos.	Status of the hot reserve as on 29.06.16
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.
2.	220/66kV Tx 100MVA	64	DTL informed that Price-bid of limited tender for supply and ETC of 220/66/33kV 100MVA Tx as hot reserve at 220kV Patparganj Substation got opened. The same are being evaluated.
3.	220/33kV Tx 100MVA	37	
4.	66/11kV 20MVA Tx.	24	DTL Planning department informed that the scheme for 25MVA power transformers is being prepared. OCC advised DTL Planning to consider one 25MVA power transformer each as cold reserve at 66kV and 33kV Levels while preparing scheme.
5.	33/11kV 16MVA Tx.	16	

**2.2 Protection co-ordination of settings at GTPS w.r.t. to 160MVA Transformers of DTL at Pragati.**

On dt. 01.03.16, both 160MVA transformers at Pragati got tripped due to fault on 66kV Bus conductor at GT. If the bus-coupler settings at GT are coordinated with 160MVA transformers,

then the 2<sup>nd</sup> 160MVA transformer couldn't have tripped. Accordingly, DTL requested GT to change the protection co-ordination settings at GTPS w.r.t. 160MVA transformers at Pragati.

During the meeting dt. 27.05.16, DTL advised GTPS to check the protection co-ordination settings of 66kV Bus and Bus coupler. OCC advised GTPS to have joint meeting with Protection department of DTL and NDMC to discuss on protection co-ordination settings and other protection related issues at Pragati.

During OCC meeting dt.29.06.16, DTL and GTPS informed protection co-ordination and relay settings of bus and bus-coupler have been rectified. GTPS informed current relay settings at NDMC end are on higher side. NDMC informed that they could not lower the relay settings at their end as this lead to tripping of their outgoing transformers during charging. Accordingly, GTPS and DTL advised NDMC to change their existing relays to numerical relays which can distinguish between charging current and fault current for optimizing the settings at their end. NDMC representative informed that they shall take up with concerned department and provide the details and time line for replacement in next OCC meeting.

NDMC to update.

### **2.3 Tripping of BTPS Unit No-V.**

BTPS Generating Unit No V tripped on dt. 17.07.16 with Generating Transformer Protection.

BTPS may deliberate the reasons for tripping.

### **2.4 Tripping of GT Unit**

PPCL GT Unit No.II tripped on 13.07.16 and remain under outage till 15.07.16.

GTPS may deliberate the reasons for tripping and 3 day outage.

### **2.5 Tripping of 66/33/11kV feeders emanating from DTL due to constraint on DISCOMs.**

The no. of trippings of 66/33/11kV feeders emanating from DTL substations occurred during July 2016 due to constraint on DISCOMs are as below:

S. No.	DISCOM	No. of trippings		
		66kV	33kV	11kV
1	BRPL	24	15	29
2	BYPL	18	1	14
3	TPDDL	3	3	6

DISCOMs may deliberate.

### **3.0 SLDC Agenda Points**

#### **3.1 Details of tripping/Load shedding during the incident dt. 23.05.16**

SLDC informed that there was a major load crash in Delhi area due to thunderstorm and rain on 23.05.2016 at around 15.00hrs. The load of Delhi dropped from 5565MW (at 15.00hrs) to 3886MW (at 16.00hrs) i.e. the load crash was around 25-30MW per minute.

NRLDC vide letter no. NRLDC/TS-15A/778-842 dated 24.05.2016 has desired a detailed report indicating list of trippings / manual load shedding which led to load crash on the said date. Delhi SLDC vide its letter dated 01.06.2016 has already requested distribution licensees to provide the following details of load loss

- i) On account of trippings in DISCOMs System
- ii) Load loss due to manual load shedding by DISCOMs.

Till date, no information has been received by SLDC.

During OCC meeting dt.29.06.16, the issue has been deliberated and DISCOMs informed that they shall provide the requisite data to SLDC at the earliest.

DISCOMs to update the status of submission of report to SLDC.

#### **3.2 Details of Load loss during the incident dt. 18.05.16**

On 18.05.2016 at 17.31hrs, 400kV Bawana – Mundka Ckt-II tripped on 'Y-B' Phase to Phase fault. There was delay in fault clearing leading to load throw off of about 1200MW in Delhi system and 3750MW in Northern Region. After the fault, the rise in frequency was 0.4Hz.

NRPC included the same for discussion as an agenda for 124<sup>th</sup> OCC meeting of NRPC held on 20.06.2016. Since, there was no tripping in the system, DISCOMs may provide the details of load loss due to the above incident which could also be due to the stalling of motors and AC load.

During the OCC meeting dt, 29.06.16, the issue has been deliberated. DISCOMs i.e. BRPL, BYPL, TPDDL and NDMC confirmed that there is no trippings of their feeders during the said time. However, DISCOMs informed that they shall look into the incident and provide the requisite details to SLDC as requested by them.

DISCOMs to update the status of submission of requisite details to SLDC.

#### **3.3 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 failure of power supply to DMRC from various grid sub-stations of DTL which affected the operation of metro train services badly. Details of disruptions are attached as Annexure-1  
Members may deliberate.

### **3.4 Implementation of Automatic Demand Management Scheme (ADMS).**

SLDC informed that Honorable CERC in its order dated 31.12.2015 in suomotu petition no. 05/SM/2014 in the matter of 'Non compliance of Regulation 5.4.2(d) of the Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2010' has directed for implementation of ADMS. Non compliance may lead to action under Section 142 of the Act for non compliance. In this regard, RLDC has been directed to submit the report by 31.08.2016.

Accordingly, DISCOMs may update the status of implementation of ADMS.

### **3.5 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.'*

It is further informed that the telemetry data of the generator end/ SACDA data which is required in SLDC before synchronization is still not being made available by the 12 MW Gazipur Plant.

In view of the above, the matter regarding date of synchronization of the Waste to Energy Plant of EDWPCL may be deliberated in the Operation Co-ordination Committee for necessary resolution.

### **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.

Railways and TPDDL may deliberate.

## **5.0 TPDDL Agenda Points.**

### **5.1 Uncoordinated tripping of 33kV Ranibagh CC from 220kV Peeragarhi.**

TPDDL informed that 33kV Ranibagh CC Circuit from 220kV Peeragahi is completely underground along with indoor panel at both end and there is no bare portion across this section. Also this circuit is further extended to 33kV Old Ranibagh Grid which is also completely underground network. Hence there is no possibility of transient fault. But it is often observed that this circuit tripped without any fault and successfully charged after satisfactory Hi-pot result. It is also observed that the said circuit tripped along with fault at 11kV network. Recent trippings occurred on dated 13.06.2016, 19.05.2016, 11.05.2016, 14.10.2015 etc. and TPDDL is of the view that the relay at 220kV end is highly sensitized than requirement and requires coordination with our relay. Accordingly, TPDDL requested DTL to review relay and protection settings.

During the OCC meeting dt. 29.06.16, the issue has been deliberated and DTL protection department advised TPDDL to install current differential relay on the said feeder.

TPDDL to update.

### **5.2 Shutdown of Generation Plant**

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.

TPDDL requested OCC Members may discuss within the state first before proposing to NR.

### **5.3 Status of Pending Projects at DTL end.**

TPDDL informed that they have achieved a historical peak of 1791 MW on dated 01.07.2016 without any load shedding at the time of peak due to power availability & system constraint. But some network of TPDDL was loaded to about 75% and one tripping would result in collapse of

system which remain high quantum of load and consumer be affected. Next year, condition will be more adverse than this year. So many system improvement projects are already in progress to mitigate this situation (like 66kV Dheerpur, 66kV Burari, 66kV Karala, 33kV Swiss Appt etc). Since DTL network was also stressed to 80% loading at that time so, all of our projects will not serve its purpose until and unless no network strengthened at source end. Out of all proposed system improvement project, the following is very much critical to survive in next summer.

- **220/66KV GIS at SGTN:** To be completed in 2015-16. It will provide relief to 220kV GPL, 220kV NRL and 220kV RHN.
- **220/66kV 1x160 MVA Trf at Gopalpur:** To be completed in 2015-16. It will provide relief to 220kV GPL, 220kV NRL.
- **220/33KV GIS at Chandrawal:** To be completed in 2015-16: It will provide relief to 220kV SB Mandi.

Accordingly, TPDDL requested DTL to update the status of aforesaid projects.

DTL to update.

#### **5.4 Communication Gap between SLDC and DISCOMs.**

TPDDL informed that they have observed that sometimes SLDC do not provide proper information of tripping and changeovers timely. Some of incident is reported below:

- On dated 20.07.2016, 66kV DSIDC2 Ckt-1 and 2 tripped along with 220kV Narela-DSIDC Ckt at 15:40 hrs. SLDC informed tripping of 66kV circuit at 15:55 hrs
- On dated 19.07.2016, 20 MVA PTR-1 tripped at 220kV RHN at 17:57 hrs. SLDC informed at 18:40 hrs.
- On dated 18.07.2016, Supply of 220kV WZP got failed for 2 mins (17:11 to 17:13 hrs). No information given by SLDC even after repeated asking about tripping/changeover.
- On dated 15.07.2016, Supply of 220kV Naraina got failed at 09:39 hrs and restored at 09:43 hrs. SLDC informed about tripping of 33kV Bus Coupler at 220kV Naraina first. But when we asked detail of tripping, then SLDC informed that it was change over and no tripping occurred at 220kV Naraina at that time.
- On dated 06.07.2016, 33kV I/C-3 tripped at 11:12 hrs at 220kV SMB for 4 minutes. SLDC first denied of any tripping at their end. After repeated asking, SLDC informed about tripping during protection testing.
- On dated 06.07.2016, message received from SLDC to shift load of 33kV Civil Line Ckt-1 and 2 from 220kV Kashmiri Gate at 14:15 hrs. But later SLDC denied to give such information.

TPDDL and SLDC may deliberate.

## 5.5 SLA requirement for ICCP failure.

TPDDL informed that SLA between DISCOMs and SLDC is required for failure of Communication Network, ICCP. This causes unnecessary scheduling issues and huge under-drawl and over-drawls when the value at SLDC is not correct or hanged.

Members may deliberate.

## 6.0 BYPL Agenda Points

### 6.1 Permission for installation of communication equipment in DTL premises.

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 (Attached).

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

BYPL and DTL may deliberate.

### 6.2 Request for name change of feeders emanating from 220kV Gazipur Substation

In OCC meeting Dt. 27.05.16, BYPL requested for name change of 66kV feeders emanating from Gazipur Substation.

The details are as below:

S. No.	Old Name	New Name
1	66kV Vivek Vihar Ckt-I	66kV Patparganj Industrial Area Ckt.
2	66kV Vivek Vihar Ckt-II	66kV Vivek Vihar Ckt.

BYPL requested DTL to provide the status of name change of the feeders.

DTL to update.

## 7.0 Shutdowns

### 7.1 Shut-down of 400kV Bamnauli – Ballabgarh Ckt-I

PPCL proposed shut-down of 400kV Bamnauli – Ballabgarh Ckt-I for 37 days for replacing of old straight through joints with new ones along with snaking near joints to avoid recurrence of joint failures. In this regard, more than 100 joints are required to be replaced. Teams for joining works are to be mobilized from Korea, BHEL and their vendor M/s Cable.

OCC may deliberate for deciding the period of shut-down.

## 7.2 Shut-down of 400kV Bawana – Mundka D/C.

DMRC vide their letter dated 15.01.2016 requested for shifting of 400kV double circuit transmission line between Bawana and Mundka. For this work, tower is erected just below the existing transmission line due to space constraints and required one month continuous shut-down for raising the height of transmission lines which is infringing the Mundka – Bahadurgarh Metro corridor of Delhi MRTS Phase-III.

The shut-down request was taken up in the 120<sup>th</sup> NRPC OCC meeting held on 24.02.2016 and the shut-down was approved for the period 01.03.2016 to 31.03.2016 but DMRC did not avail the shut-down.

Subsequently, a meeting was held in the Chamber of MD, DTL on 13.04.2016 wherein Director(T), DMRC and GM, DMRC were present. DMRC representatives requested for shut-down during the month of May 2016. The request was not acceded due to ongoing summer months. It was decided that shut-down be availed during lean period i.e. September and October.

OCC may deliberate the issue and decide the period for shut-down.

## 7.3 Proposed shutdown at Naraina Substation.

DTL proposed the following shutdown for carrying OPGW and tower peak repair work through M/s PGCIL

S. No.	Proposed date	Proposed time	Name of the element	Work to be carried out	Remarks
1	Any date acceptable to OCC	08:00 to 18:00 Hrs	Bamnauli-Naraina Ckt-I&II	Preparation from Tr. No- 81 to 86	HTLS re-conductoring work is being carried out by M/s PGCIL, to carry out balance stringing of OPGW shut down of both Ckts required as requested by M/s PGCIL
2	Any date acceptable to OCC	08:00 to 18:00 Hrs	Bamnauli-Naraina Ckt-I&II	OPGW pulling Tr. No- 81-102	
3	Any date acceptable to OCC	08:00 to 18:00 Hrs	Bamnauli-Naraina Ckt-I&II	Earth wire recovery	

Members may deliberate.

## 7.4 Proposed shutdowns of DTL

DTL proposed the planned shutdowns for the month of August, 2016 as per enclosed Annexure.

Members may deliberate.



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

Members to update 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 29.06.16
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	66kV Vasant Kunj – Ridge Valley Ckt.- II	BRPL	13.01.14	BRPL informed that contract is to be awarded for laying new cable and work is not at priority level.
3	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 31.07.16
4.	33kV RIDGE VALLEY - KHEBAR LINE CKT.-II	BRPL	31.01.16	GIS is commissioned. SCADA work is in progress. Expected by 31.07.16
5.	66kV RIDGE VALLEY - V.KUNJ CKT.-I	BRPL	25.02.16	UNDER SHUT DOWN
1.	66/33kV 50MVA PR.TR.-II AT JNU	BRPL	26.03.16	TAP CHANGER DAMAGED. EXPECTED BY 07.07.16
2.	33kV BAY -24 (IP - NEHRU STADIUM)	BRPL	28.04.16	'B'PH. SINGLE CABLE FAULTY. EXPECTED BY 07.07.16
3.	33kV R.K. PURAM -II - RIDGE VALLEY CKT.-I	BRPL	19.07.16	UNDER BREAK DOWN
4.	33kV BHIKAJICAMA PLACE-R.K.PURAM -II CKT.	BRPL	21.07.16	SINGLE CABLE FAULTY
5.	33kV MASJID MOTH(220kV)-D.C. SAKET CKT.	BRPL	23.07.16	'R'PH. SINGLE CABLE FAULTY
6.	33kV ROHTAK ROAD - MADIPUR CKT.	BRPL	28.05.16	CABLE FAULTY
7.	66kV PPK-II(220kV) - GGSH CKT.-I	BRPL	06.07.16	Ý'PH. SINGLE CABLE FAULTY

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8.	66kV HASTAL - GGSH CKT.-II	BRPL	23.07.16	'R'PH. CABLE FAULTY
9.	33kV BAY -13 (RPH - G.B. PANTH)	BYPL	21.07.16	'R'PH. SINGLE CABLE FAULTY
10.	33kV KASHMERI GATE(220kV)- FOUNTAIN CKT.	BYPL	24.07.16	Y' & 'B'PH. CABLE FAULTY
11.	33KV PANDAV NAGAR - DMS CKT.	TPDDL	03.04.16	PROBLEM IN RMU. EXPECTED BY 30.10.16
12.	66kV ROHINI SEC.-28 - ROHINI -VI CKT.-I	TPDDL	15.06.16	Y'PH. CABLE FAULTY. ROAD CUTTING PERMISSION REQUIRED. EXPECTED BY 31.07.16
13.	400kV BAMNAULI - JHAKTIKARA CKT.-I	DTL	22.05.16	DEAD END TOWER No. 169 ALONGIWITH GANTRY COLLAPSED AT BAMNAULI END. CKT-II CHARGED ON ERS
14.	220/33kV 100MVA PR.TR.-IV AT 220kV OKHLA	DTL	05.07.16	BUSHING ON HV & LV SIDE AND WINDING GOT DAMAGED. OLTC ALSO GOT DAMAGED

**9.0 Any additional agenda points with the permission of the Chair.**

**10.0 Date and time of next OCC meeting.**