

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

AGENDA FOR OCC MEETING DT. 29.06.2016

Date : 29.06.2016 (Wednesday)
Time : 10:30 AM
Venue : Office of GM(O&M)-I, Park Street.

1.0 Confirmation of minutes of OCC meeting dt. 27.05.16.

An OCC meeting was held on 27.05.16 in accordance with the agenda circulated vide letter dt. 26.05.16. Minutes of the aforesaid OCC meeting were issued vide letter dt. 01.06.16.

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 27.05.16
1.	220/66kV Tx	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.
2.	220/33kV Tx	37	
3.	66/11kV 20MVA Tx.	24	OCC advised DTL to have cold reserve instead of hot reserve to meet any exigency. OCC advised DTL O&M department to take up with DTL Planning department/ Steering committee for the need of cold reserve transformers at 66kV and 33kV level
4.	33/11kV 16MVA Tx.	16	

2.2 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 27.06.16
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.-	BRPL	13.01.14	BRPL informed that contract is to be

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	II			awarded for laying new cable and work is not at priority level. Expected by 31.05.16.
3	33kV RIDGE VALLEY - KHEBAR LINE CKT.-I	BRPL	08.02.15	Breaker faulty. To be revamped by including in GIS. Expected by 15.06.16
4.	33kV RIDGE VALLEY - KHEBAR LINE CKT.-II	BRPL	31.01.16	R-phase Single Cable faulty. Road-cutting permission pending.
5.	66kV RIDGE VALLEY - V.KUNJ CKT.-I	BRPL	25.02.16	UNDER SHUT DOWN
6.	66/33kV 50MVA PR.TR.-II AT JNU	BRPL	26.03.16	TAP CHANGER DAMAGED. EXPECTED BY 20.06.16
7.	33kV BAY -24 (IP - NEHRU STADIUM)	BRPL	28.04.16	'B'PH. SINGLE CABLE FAULTY
8.	33kV JNU - R.K. PURAM -I CKT.	BRPL	25.06.16	SINGLE CABLE FAULTY
9.	33KV ROHTAK ROAD - MADIPUR CKT.	BRPL	28.05.16	CABLE FAULTY
10.	33kV ROHTAK ROAD - VISHAL CKT-I	BRPL	01.04.16	CABLE FAULTY
11.	33kV NARAINA(220kV) - MAYA PURI CKT. (BAY-22)	BRPL	19.06.16	'B'PH. SINGLE CABLE FAULTY
12.	33kV PANKHA RD-DISTT. CENTRE JANAKPURI CKT.-II	BRPL	26.06.16	'B'PH. SINGLE CABLE FAULTY
13.	33kV NANGLOI(66kV)-UDYOG NAGAR CKT.-I	BRPL	26.06.16	SINGLE CABLE FAULTY
14.	33kV SHAKKARPUR-KAILASH NAGAR-T-OFF PARSAVNATH MALL ckt.	BYPL	12.06.16	SINGLE CABLE FAULTY
15.	33kV BHAGIRATHI - DWARKAPURI CKT.	BYPL	23.06.16	'B'PH. SINGLE CABLE FAULTY
16.	33kV ROHTAK ROAD - PRASAD NAGAR CKT.	BYPL	22.06.16	'B'PH. SINGLE CABLE FAULTY

17.	33kV GONDA - O/H SEELAMPUR CKT.	BYPL	24.06.16	'B'PH. SINGLE CABLE FAULTY
18.	66kV MAYUR VIHAR -II- MAYUR VIHAR-I CKT.-II	BYPL	25.06.16	CABLE FAULTY
19.	33KV PANDAV NAGAR - DMS CKT.	TPDDL	03.04.16	PROBLEM IN RMU. EXPECTED BY 30.10.16
20.	66kV ROHINI SEC.-28 - ROHINI -VI CKT.-I	TPDDL	15.06.16	Ý'PH. CABLE FAULTY
21.	400kV BAMNAULI - JHAKTIKARA CKT.-I&II	DTL	22.05.16	Ckt-II energized through ERS on dt.08.06.16

2.3 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 2nd 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. OCC further advised DTL Protection department and GTPS to update the status of protection co-ordination on 66kV feeders and bus during next OCC meeting.

DTL and GTPS to provide the status of outcome of joint visit and meeting.

2.4 Frequent trippings at GTPS (GTPS agenda)

GTPS provided the details of tripping of their units during FY 2015-16 & 2016-17 due to tripping of 160MVA transformers at 220kV Pragati Substation (Copy enclosed) and requested DTL to ensure the healthiness of 220kV DTL system connected with GTPS for uninterrupted and reliable supply.

DTL and GTPS to deliberate.

2.5 Overloading and other issues at 220kV Najafgarh Substation

DTL informed that 220 kV Sub- Station Najafgarh was commissioned in 1977 and at present it has total capacity of 400 MVA at 220 kV level. All 04 No.100 MVA transformers of the station

are more than 20 years old and require frequent maintenance. The peak load of the Station remains 350 to 400 mega watt during every summer since 2009.

DTL informed the issues at Najafgarh as below:

- 66 kV Nangloi feeder from DTL 400 kV Tikri Kalan is faulty at BSES end. Keeping in view overloading at 220 kV Najafgarh, BRPL is requested for permanent diversion of nangloi load from Najafgarh to Tikri Kalan (by making 400 kV Tikri Kalan the first feed for Nangloi load).
- No back feed is available for 66 kV Jafferpur 1 & 2 with BRPL at present. No planning is also made to back feed these feeders. The matter is to be discussed in OCC so that recommendation may be forwarded to commercial/DERC/steering committee.
- Recently on 15 June 2016 Budhela circuit -2 was under shutdown by BRPL . This resulted in unbalancing of load at Najafgarh and further disruption in system. Such shut down must be availed only after discussion in OCC
- 11 kV load of Najafgarh area is fed by DTL 220 kV Najafgarh S/Stn only. It gives frequent tripping at DTL Station. Several feeders have no back feed arrangement from other grid. Further 11 kV Load is not shifted by BSES even after commissioning of 66 kV Delhi Jal board grid of BRPL. A committee is required to be constituted to check the back feed arrangement along with exploring possibility of 11 kV load diversion from 220kV Najafgarh DTL to 66 kV Delhi Jal board grid BRPL.

DTL and BRPL may deliberate.

2.6 Utilization of 66kV Bays at 220kV Kanjhawla by TPDDL.

DTL informed that 6 nos. new 66kV feeder bays work has been completed at 220kV Kanjhawla substation and TPDDL has already been requested to lay their cables/ connection arrangements besides finalizing necessary documents like signing of connection agreements with DTL etc., but the same has not yet been done by TPDDL.

During OCC meeting dt.27.05.16, DTL requested TPDDL to lay cables and commission 6 nos. 66kV Bays at 220kV Kanjhawla substation. TPDDL informed that connection agreement has been done for 3 nos. 66kV Bays and the same shall be energized by the end of June 2016.

TPDDL to update the latest status.

2.7 Back-feeding arrangement of 33kV and 11kV feeders at various 220kV Substations of DTL.

DTL informed that there are 09 nos. 11KV O/G feeders being maintained at 220 KV Sarita Vihar out of which following 11 KV Feeders are not having any back feed arrangement at the end of BRPL.

1. 11 KV Aali Village
2. 11 KV Sourav vihar-I
3. 11 KV Sourav vihar-II
4. 11 KV Jaitpur

DTL further informed that shutdown of 11 KV half bus bar with incomer –I and II was approved by OCC for 08.05.2016 and 14.05.2016 respectively but work could not be completed due to No back feed arrangement of 11 KV Feeders at the end of BRPL. This is very typical position as we are not able to do maintenance work as per OS manual.

DTL requested BRPL to arrange other sources for 11 KV feeders where back feed is not available to avoid any inconvenience during the break-down / Shutdown.

DTL further requested DISCOMs to make back-feeding arrangement on 33kV/11kV feeders at other 220kV substations of DTL also.

During the OCC meeting dt. 27.05.16, BRPL informed that at present, there is no back-feeding arrangement for the said feeders at Sarita Vihar. OCC advised BRPL to explore the possibility of back-feeding arrangement for the above said feeders and inform the status in next OCC meeting.

BRPL to update.

2.8 Diversion of load from 220kV Pappankalan-I substation to 220kV Peeragarhi Substation.

DTL proposed the following scheme for off-loading PPK-I at 66kV level of around 60MW as the station runs at its threshold capacity in summer which is around 400MW.

The scheme was to connect 2 nos. O/H feeders terminated at Jwalaheri Paschim Vihar, energized from 33kV BRPL Mukherji Grid. There are 2 nos. spare 33kV bays at 220kV Peeragarhi Substation which are not going to be utilized in near future. These spare bays can be utilized to connect the aforesaid feeder. The same was informed by DTL to Sh. Satinder Sondhi, V.P., BRPL on 14.05.15 and discussed with EHV(P&C) of BRPL. The scheme was agreed in principle.

However, the scheme has yet not been conceived and PPK-I substation remained overloaded as ever and there is no respite even though Peeragarhi has been energized since March, 2015. Peeragarhi substation is still running around 120MW with 2x100MVA transformers.

BRPL and DTL may deliberate

2.9 Non utilization of 04 Nos. 66 KV bays at 220 KV S/Stn. Sarita Vihar

DTL informed that 04 Nos. 66 KV bays i.e. Bay No. 14, 15, 16 and 17 were commissioned at 220 KV S/Stn. Sarita Vihar on 20.10.2015 but BRPL has not made any arrangement till date to

take load from these bays. DTL requested BRPL to lay underground cables/ O H lines for commissioning of these 66 KV bays and inform the schedule to DTL accordingly at the earliest so that these bays may be utilized in the financial interest of DTL

BRPL and DTL may deliberate.

2.10 Outage of 220/33kV 100MVA Transformer at 220kV Wazirpur Substation.

220/33kV, 100MVA transformer –I at 220kV Wazirpur substation got tripped on 24.06.16 at 20:51 Hrs. due to failure of 33kV cable end box at TPDDL end. Transformer energized on 25.06.16 at 17:35 Hrs. TPDDL took more than 20 hours for removing of one (faulty) of the three cables (R-phase) from ABB panel.

TPDDL may deliberate the reasons for delay.

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 (copy enclosed) 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.

SLDC requested DISCOMs to provide the details for onward submission to NRLDC.

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 124th 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.

SLDC requested DISCOMs to provide the details.

4.0 Uncoordinated tripping of 33kV Ranibagh CC from 220kV Peeragarhi (TPDDL Agenda)

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.

TPDDL and DTL may deliberate.

5.0 Protection setting at I.P. (BRPL agenda)

BRPL requested DTL to increase settings of IP to Kilokari bays i.e. bay no 25 and 37 from 400A to 600A as capacity of the feeder has been augmented.

BRPL and DTL may deliberate.

6.0 Proposed Shutdowns

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

Members may deliberate.

6.1 Proposed shutdown at Naraina

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	10.07.16	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	11.07.16	08:00 to 18:00 Hrs	Bamnauli-Naraina Ckt-I&II	OPGW pulling Tr. No-81-102	
3	12.07.16	08:00 to 18:00 Hrs	Bamnauli-Naraina Ckt-I&II	Earth wire recovery	

Members may deliberate.

7.0 Any additional agenda points with the permission of the Chair.

8.0 Date and time of next OCC meeting.