

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

AGENDA OF OCC MEETING DT. 06.11.2015

Date : **06.11.2015 (Friday)**
Time : **10:30 AM**
Venue : **Office of ED(Tech) O&M-I, Park Street.**

1.0 Confirmation of minutes of OCC meetings dt. 06.10.15 and dt. 09.10.15

Last OCC meeting was held on 06.10.15 in accordance with the agenda circulated vide letter /mail dt.01.10.15. Minutes of the aforesaid OCC meeting were issued vide letter/mail dt. 08.10.15. Further, an emergency OCC was held on 09.10.15 and minutes for the same circulated vide email dt.09.10.15

Members may like to confirm the same.

2.1 Status of Installation of Capacitors – Study by Planning Deptt., DTL

DTL had entrusted CPRI to study the installation of shunt capacitors in Delhi system on the advice of OCC. Accordingly CPRI carried out the study for reactive power compensation in Delhi. Final report was submitted by CPRI and for its implementation; a copy of report had been emailed to all DISCOMs and GENCOs. SLDC convened a meeting with DISCOMs on dt. 18.02.15 to discuss on the Reactive Power Study report submitted by CPRI.

DTL informed that the comments received from DISCOMs have been sent to M/s CPRI and the reply for the same has been received from them.

During meeting dt. 06.10.15, OCC advised DTL Planning department to conduct a final meeting with CPRI and stake holders before 15th October, 2015 so that final course of action be taken for implementing recommendations given by M/s CPRI.

DTL Planning department to update the status.

2.2 Status of Hot Reserve of transformers at all levels.

DTL to update the status of following hot reserves:

S. No	Capacity	Present population in nos.	Status of the hot reserve as on 06.10.15
1.	220/66kV, 160MVA Tx	18	DTL informed the work has been awarded to M/s Kanohar. Tx. has been erected and expected to be energized during October, 2015. This Tx. shall remain as hot reserve for 160MVA Capacity.
2.	220/66kV,	41	DTL informed that tender for supply and ETC of

	100MVA Tx		220/66/33kV 100MVA Tx as hot reserve at 220kV Patparganj Substation to be floated.
3.	220/33kV, 100MVA Tx,	36	

2.3 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 02.11.2015
1	33kV BAY -3 (IP – Kilokri)	BRPL	22.02.11	Clearance from Railways for laying of Underground cables near Bhairon Road is pending.
2	66kV Vasant Kunj – Ridge Valley Ckt.-II	BRPL	13.01.14	BRPL informed that contract is to be awarded for laying new cable.
3	33kV RIDGE VALLEY - KHEBAR LINE CKT.-I	BRPL	08.02.15	Breaker faulty. To be revamped by including in GIS.
4.	33kV JNU-ADCHINI-T-OFF IIT CKT.	BRPL	11.09.15	T-OFF - ADCHINI PORTION) BOTH CABLES
5.	33kV PASCHIM PURI - PASCHIM VIHAR CKT.	BRPL	08.09.15	'B'PH. SINGLE CABLE FAULTY
6.	33kV ½ BUS BAR TOWARDS PR.TR.-I SIP	BRPL	15.09.15	L.A. FAULTY
7.	66kV MOHAN CO-OPERATIVE-OKHLA PH.-I CKT.-II	BRPL	24.09.15	'R'PH. CABLE FAULTY
8.	20MVA PR.TR.-II AT 66kV VASANT KUNJ Ç'BLOCK	BRPL	03.10.15	PLANNED SHUT DOWN.
9.	10MVA PR.TR. AT 33kV PALAM	BRPL	15.10.15	UNDER SHUT DOWN
10.	66kV C-DOT - MEHRAULI CKT.-I	BRPL	24.10.15	'R'PH. CABLE FAULTY
11.	66kV HARSH VIHAR - GONDA CKT.-II	BYPL	27.10.15	'B'PH. CABLE FAULTY
12.	33kV SHASHTRI PARK - SEELAMPUR CKT.	BYPL	30.10.15	'R'PH. SINGLE CABLE FAULTY

13.	33kV SEELAMPUR - DWARKAPURI CKT.	BYPL	31.10.15	'B'PH. SINGLE CABLE FAULTY
14.	33kV ROHTAK ROAD - PRASAD NAGAR CKT.	BYPL	30.10.15	'Y'PH. SINGLE CABLE FAULTY
15.	33kV TRAUMA CENTRE CKT.-I	NDMC	27.10.15	'R'PH. FAULTY
16.	220kV MAHARANI BAGH - ELECTRIC LANE CKT.-II	DTL	17.04.15	Cable again found faulty during testing before energization. Expected by the end of November, 2015.
17.	400kV BAMNAULI - JHATIKARA CKT.-I	DTL	27.05.15	Jointing work of Ckt-I&II and testing of Ckt-I have been completed. Ckt-I ready for energization. Expected by 05 th November, 2015.

2.4 Phasing out of 66/33kV, 30MVA Power Transformer at 220kV Narela Substation.

DTL informed that the said transformer is currently being utilized for feeding only 01 No. 33kV Circuit i.e. Khampur of TPDDL since 2010. 2nd feeder namely Haiderpur is under B/D since long time. Due to shortage of space in 66KV yard, the transformer is on single bus selection and the same needs to be switched 'OFF' during bus maintenance activities. Further, the transformer is placed adjacent to 20MVAR capacitor bank and thereby always remains in risk of fire during failure of any capacitor unit / cell. Further, the transformer has already lived its useful life period of 25 years successfully as per DERC guidelines and is now under *outlived* condition.

During the meeting dt. 08.06.15, OCC advised DTL to carry out internal inspection and dehydration of the transformer and outage for the same shall be provided by TPDDL.

During OCC meeting dt. 06.10.15, DTL informed that the order has been placed to M/s BHEL for internal inspection. OCC advised DTL to carry out the inspection through BHEL before 20th October, 2015. Action will be taken by DTL and TPDDL based on the internal inspection report submitted by M/s BHEL.

DTL to update the latest status.

2.5 Back feed & RMU provision for 11 kV feeders by TPDDL at 220 kV Substation Kanjhawala

During OCC meeting dt. 07.07.15, DTL requested TPDDL to make feedback arrangement in line with DERC guidelines at 220kV Kanjhawla S/Stn. to avoid any unwanted situation and safeguard DTL system for any fault at TPDDL end

During meeting dt.07.07.15, OCC advised TPDDL and DTL to have joint inspection visiting TPDDL's first switching substations to check protection system and back-feeding provision.

DTL informed that a joint inspection with TPDDL has been carried out on dt. 28.07.15. DTL informed the following:

- During the joint inspection, it has been confirmed by TPDDL that no back feed provision has been available for 6 nos. 11kV feeders emanating from 220kV Kanjhawla Substation.
- Protection co-ordination of 11kV system of DTL and TPDDL to be checked.
- As the first switching substation for 11kV ABC Rani Khera is at around 4Kms., the same needs to be shifted near to 220kV Kanjhawla Substation.
- Problem in RMU breaker of 11kV U/G Kanjhawla.
- Reason for frequent tripping of 11kV SOS Bawana feeder.

During the OCC meeting dt. 06.10.15, DTL and TPDDL informed the C.B. timings are yet to be checked. OCC advised DTL and TPDDL to check 11kV CB timings at the earliest. Further, OCC advised TPDDL to inspect RMUs of 11kV U/G Kanjhawla and SOS Bawana.

DTL and TPDDL to appraise the latest status.

2.6 11 KV tripping at 220 KV S/Stn. Najafgarh

The issue of regular tripping of all the 12 nos. 11 KV feeders emanating from 220 KV S/Stn Najafgarh has been placed in the earlier OCC meetings successively but no action has been taken by BRPL till date. Although, the matter has also been rigorously pursued with BRPL officials through e-mails for a joint inspection with respective protection departments but the same has not been carried out till date.

The chronology in this regard is also placed in the file. It is pertinent to note that on 29.07.2015 Protection Deptt. of BRPL West turned up at 220 KV S/Stn. NJF for protection setting of 11 KV outgoing 7 panel board feeder. However, no action has been taken till date.

The above results in frequent tripping of 11 KV feeders whereby reducing the life the switchgear along with putting constraints on the 3 nos .20 MVA Power Transformers installed at NJF substation.

Accordingly, DTL requested OCC to advise BRPL to have joint inspection with respective Planning departments of BRPL and DTL to ensure healthiness of protection system of first switching substations of 220 KV Sub/stn NJF.

During the meeting dt. 01.09.15, OCC advised DTL and BRPL to have joint inspection of first switching substations. During OCC meeting dt. 06.10.15, DTL informed that no joint inspection has been carried out till date. OCC advised DTL and BRPL to carry out the inspection of first switching substations by 20th October, 2015.

DTL and BRPL to update the status.

2.7 Restoration of Yard area at 220kV Naraina Substation.

At 220kV Naraina Substation, 33kV Bay nos. 21 and 22 have been dedicated to BRPL and accordingly, BRPL laid cable during the period of March 2015 to May 2015 for which complete road from Gate No. 2 of substation to 33kV yard was excavated and ensured the restoration of the same before charging. The cable laying work by BRPL has been completed, but the restoration of the excavated road has not been completed till date even after repetitive reminders.

Accordingly, DTL requested BRPL to update the status of restoration of the damaged area and remove any debris at the earliest.

BRPL to update.

3.0 Closure of Pragati Station-I from during Oct. 2015 to Mar.2016 (SLDC Agenda)

The peak summer period has passed and winter season is approaching fast. In line with the decisions taken in the meeting chaired by Director (Operations), DTL held on 27.03.2015 at SLDC, it was decided as under:

Considering the overall system, the Forum was of the view that full generation of Pragati Stage-I be maintained during summer months and the gas allocation of entire station be diverted to Bawana CCGT during the period October to March till the ISTS is commissioned at RPH as the Bawana CCGT generation cost is cheaper than Pragati Stage-I

At present, Distributions licensees have intimated that the ECR for the August 2015 of Bawana CCGT is as under:

Closed Cycle : Rs. 2.990/Unit Open Cycle : Rs.4.271/Unit

SLDC informed that variable cost of generation as per present gas availability at Pragati-I as per email received from PPCL is as under:

For half module (145MW) : Rs.3.20/Unit

For 265MW : Rs. 5.40/Unit

Spot Gas : Rs. 7.50/Unit

Accordingly, SLDC requested PPCL to kindly intimate the current variable charges of Pragati-I and Bawana CCGT so that decision could be taken for optimum power scheduling / closing down of Pragati-I during winter months so as to divert the gas allocation of Pragati-I to Bawana CCGT.

PPCL and SLDC may deliberate.

4.0 TPDDL Agenda points

4.1 Excess sagging of BBMB EHV Circuit:

TPDDL informed that excess sagging is found between two towers of 220kV Narela – Rohtak Road Circuit (owed by BBMB) near Pitampura Residential Area where there is also Parking lot of TPDDL Technology Centre. It is at very high risk to have excess sag in 220kV circuit in residential area. Accordingly, TPDDL requested BBMB to have site visit and take corrective measure.

TPDDL and BBMB may deliberate.

4.2 Tripping of 66kV A-7 Narela Ckt-I from 220kV Narela:

TPDDL informed that in all below trippings, A-7 Narela Ckt-1 tripped at 220kV Narela end only. There is no tripping or pick-up found at A-7 end. Also in all instances Ckt-1 tripped on distance protection. It is also to be noted that at all instances, 66 KV 220KV NRL-A7 NRL Ckt-1&2 were running in parallel condition. As the circuits were parallel Ckt-1 automatically got back charged from 220KV NRL-A7 ckt-2. Accordingly, TPDDL requested DTL to kindly investigate the matter from their end.

GRID	EQUIPMENT	KV	Working Party	FROM DT	FROM HR	TO DT	TO HR	REMARKS
220 KV NARELA	66KV O/G NARELA A-7 CKT-1	66	R-PHASE DISTANCE PROT	15-Aug-2015	09:36	15-Aug-2015	09:56	CKT TRIPPED AT 220KV NRL ONLY DUE TO MALFUNCTION OF RELAY. CKT AUTOMATIC BACK CHARGED AND BREAKER CLOSED BY DTL AT 09:56HRS.
220 KV NARELA	66KV O/G NARELA A-7 CKT-1	66	R-PHASE ZONE 3	29-Aug-2015	13:12	29-Aug-2015	13:27	220 KV NARELA-66KV A-7 NARELA CKT-1 TRIPPED ONLY AT 220 KV NARELA GRID, LOAD SHARED ON ALTERNATE CKT. CKT ALREADY BACK CHARGED THRU CKT-2. CKT-1 CHARGE BY DTL@13.27 HRS AND TAKEN INTO LOAD SERVICE
220 KV NARELA	66KV O/G NARELA A-7 CKT-1	66	R-PHASE ZONE 3 & 4	08-Sep-2015	04:18	08-Sep-2015	04:28	220 KV NARELA - A7 NARELA CKT-1 TRIPPED ONLY AT 220 KV NARELA GRID. LOAD SHARED ON ALTERNATE CKT. CKT TRIED BY DTL AT 4.28 HRS AND TAKEN INTO LOAD SERVICE.
220 KV NARELA	66KV O/G NARELA A-7 CKT-1	66	R PH ZONE-3 AND 4	20-Sep-2015	03:25	20-Sep-2015	03:42	LOAD SHARED ON ALTERNATE CKT. CKT ALREADY BACKCHARGED. CKT CHARGED BY DTL AT 03.42 HRS.

DTL and TPDDL may deliberate.

4.3 Review of SPS setting at 400kV Mandola.

TPDDL informed that there is frequent operation of SPS (Special Protection Scheme) at 400kV Mandola Grid. Seven instances of supply failure occurred in last six month due to tripping of 220kV circuits at 400kV Mandola due to SPS operation. It is also to be noticed that most of the time frequency found stable. It seems that SPS setting is more sensitize that it required.

The most affected circuits are 220KV Gopalpur circuit and 220kV Narela circuit. Railways, DMRC Mukundpur, Wazirabad Water Works, Chandrawal Water Works, AIR

Mall Road are some of valued consumers of TPDDL who always affected due to these tripping. Detail of tripping is given below. TPDDL requested DTL to pursue this matter with Power Grid and NRLDC.

S.No.	FROM DT	FROM HR	TO DT	TO HR	Duration (In Mins)	Mus AFFECTED	REMARKS
1	11-Apr-2015	13:09	11-Apr-2015	13:39	30	0.0250	SF DUE TO TRIPPING OF 400KV MANDOLA - 220 KV GOPALPUR CKT-1 & 2 ON SPS RELAY OPERATED AT 400 KV MANDOLA.
2	29-Apr-2015	11:25	29-Apr-2015	11:42	17	0.0928	SUPPLY FAIL DUE TO MALFUNCTIONING OF SPS (SPECIAL PROTECTION SCHEME) RELAY AT 400 KV MANDOLA GRID AT 11:25 HRS.
3	04-May-2015	20:32	04-May-2015	20:58	26	0.0266	SF OF 220KV GPL-MANDOLA CKT- 1 & 2 DUE TO SPS RELAY OPERATE AT 400 KV MANDOLA. SUPPLY RESTORATED AT 20.58 HRS
4	27-May-2015	11:30	27-May-2015	11:50	20	0.0598	SUPPLY FAIL FROM 220 KV GPL AND SUBZI MANDI DUE TO SPS RELAY OPERATE ON 400KV MANDOLA AT 220 KV GPL CKT-1 AND 2. RESTORED BY DTL AT 11.50 HRS.
5	04-Jun-2015	09:01	04-Jun-2015	09:32	5	0.0100	SUPPLY FAIL OCURED FROM 220KV NRL,220KV GPL, 220KV SB MANDI DUE TO SPS RELAY OPERATE AT 400KV MANDOLA GRID. AT 09:06 HRS SUPPLY RESTORED OF 220KV NRL GRID AND AT 9:32 HRS 220KV GPL, SB MANDI BY DTL.
6	26-Jul-2015	22:26	26-Jul-2015	23:18	52	0.1187	SF DUE TO SPS OPERATED AT 400 KV MANDOLA-220 KV GPL CKT-1 AND 2 DUE TO TRIPPING OF NR MUNDRA-MAHINDER GARH CKT.SUPPLY NORMALISED AT 23.18 HRS BY DTL.
7	06-Sep-2015	11:53	06-Sep-2015	12:40	47	0.0660	S.F DUE TO SPS OPERATE AT 400KV MANDOLA. FINAL SUPPLY RESTORED BY DTL OF AT 12:40 HRS.

Members may deliberate.

5.0 Proposed Shutdowns

Shutdowns proposed by various divisions of DTL have been consolidated and enclosed as Annexure-I.

Members may deliberate.

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

7.0 Date of Next OCC meeting.