

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

**AGENDA OF OCC MEETING DT. 28.11.2016**

**Date** : 28.11.2016 (Monday)  
**Time** : 3:00 PM  
**Venue** : Delhi Transco Limited  
 O/o-GM(O&M)-1, 220kV GIS Sub-Stn Park Street,  
 Park Street Road, Opp. Talkatora Stadium,  
 Near R.M.L. Hospital, New Delhi-110001

**1.0 Confirmation of minutes of OCC meeting dated. 28.10.16.**

An OCC meeting was held on 28.10.16 in accordance with the agenda circulated vide letter dt. 25.10.16. Minutes of the aforesaid OCC meeting were issued vide letter dt. 10.11.16.

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.	Transformation Capacity	Present population in nos.	Status of the hot reserve as on 28.10.16
1.	220/66kV Tx 160MVA	22	DTL informed that the newly erected 160 MVA transformer at Kanjhawala (previously considered as hot reserve) is being transferred to PPK-I and the 100MVA Tx at PPK-I is being routed to Park street for replacement of the failed 100 MVA transformer. OCC had advised DTL to start the process for purchase of a new 160MVA Power transformer as hot reserve. <b>O&amp;M deptt., DTL may kindly update the status.</b>
2.	220/66kV Tx 100MVA	42	DTL informed that PO 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 had advised DTL planning deptt. to propose in steering committee meeting for having 2 nos. 220/66-33 KV (Dual ratio Tr.), 100MVA Tx as spare in DTL system. <b>Planning deptt., DTL may kindly update the status.</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 the same are for replacement and not for reserve. OCC had advised DTL to get the approval of DERC for cold reserve transformers each at 66kV and 33kV level for further action. <b>Planning deptt., DTL may kindly update the status.</b>
5.	33/11kV 16MVA Tx.	16	

## 2.2 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.

During the OCC meeting dt.-28.10.16, GMR presented the schematic arrangement of power network of IGI Airport, wherein it was informed that there is 11kV link between Terminal –I & II (being feed through Palam Sub-Stn of BRPL) and Terminal –III (being feed through DTL DIAL Sub-Stn at 66kV level). OCC had advised that GMR should explore the possibility for having a second source at 66kV level for power supply at Terminal-3 in coordination with BRPL to meet any exigency at Terminal-3 in case of power supply failure from DTL DIAL Sub-Stn. OCC also advised GMR to explore the possibility of utilizing idle lying 66 KV line or surrender it to BRPL.

GMR-DIAL,BRPL to update the status.

## 2.3 Receiving High Voltage at GMR, DIAL end

GMR, DIAL vide their e-mail dt.-11.11.2016 have requested to add the following points in the forthcoming OCC meeting:-

- (i)Receiving High Voltage from DTL 220kV DIAL Sub-stn.
- (ii)Receiving High Voltage from BSES Palam at 66kV level to DIAL.
- (iii)Relay coordination with BSES Palam.

DTL,SLDC,BRPL may deliberate

## 2.4 Shutdown for six months in r/o 220kV Maharani Bagh – Ghazipur (D/C) Line at 220kV Sub-Station Gazipur end for PWD work.

Mgr.(O&M)-Gazipur, DTL have informed that they are in receipt of letter no.-54 (11)/EE.F.21/PWD/DS/696 (H) dated 10.10.2016 from Executive Engineer (Flyover)-21, PWD, GNCTD Sarai kale Khan Delhi-13 in which PWD have requested for Shutdown for nearly six months in r/o 220kV Maharani Bagh – Ghazipur (D/C) Line at 220kV Sub-Station Gazipur end for construction of elevated Road over Barapullah Nallah, starting from Sarai kale khan to Mayur Vihar, New Delhi.

Mgr.(O&M)-Gazipur, DTL have further informed that the due to widening work of NH-24, Excavation work near the route of 220kV XLPE cable between Patparganj-Gazipur is under progress. Hence, the said cable is under threat zone which may be damaged/broken during the said activity. Therefore, Shutdown of 220kV Mahararani bagh-Gazipur (D/C) line be approved keeping in mind all the above aspects.

DTL(O&M),SLDC & PWD may deliberate.

## **2.5 Storage of scrap material by BRPL Najafgarh at the common road at 220kV DTL Substation Najafgarh**

Mgr(O&M),DTL (N-3&5) has informed that BRPL Najafgarh is using the common road from Main Security Gate (at Main Road) to Security Gate at DTL 220kV Najafgarh Substation Security Gate which is creating the hindrance to men and material of DTL and common public at large too.

The problem enhanced and get gruesome when general public park their vehicles while visiting the BRPL Office. In that case, DTL men and material can not be entered/ exited due to space constraint. It can also not be ruled out major chaos when any fire breaks out at DTL installation at Najafgarh and fire tenders may not enter the premise due to space crunch due to storage of damaged and old scraps in the form of LT transformers and Electrical Poles and also due to parking of vehicles by general public.

Mgr(O&M),DTL have further informed that the matter was also followed up with the then BRPL officers but no action in this regard have been taken so far.

An urgent and favourable action is required for vacating the common road by removing the old scraps in the form of LT transformers and Electrical Poles.

DTL(O&M) and BRPL may deliberate.

## **3.0 SLDC Agenda Points**

### **3.1 Winter preparedness and Reactive Power Management**

During the winter months, specially November 2015 to March 2016 high voltages were experienced in Delhi system particularly during off peak hour. Last year during the period 02.11.2015 to 27.03.2016 Delhi has been injecting reactive power to the grid at high voltage conditions which led to paying of Rs. 538 Lakhs to Reactive Pool Account of NRPC whereas the Discoms has to pay only Rs 28.29 lakhs. Which indicates that DTL System has generated Reactive power to the tune of corresponding to Rs 509.71 lakhs . The details are as under:

**Reactive energy account issued by NRPC for Delhi as a whole (2015-16).**

Week No.	Duration			MVARhDrawal		Amount in Rs. Lacs		Net Amount in Rs. Lacs
				High Voltage	Low Voltage	High Voltage	Low Voltage	
1	30-Mar-15	--	5-Apr-15	6595.00	2.80	-8.05209	0.00336	-8.04873
2	6-Apr-15	--	12-Apr-15	9025.80	2.80	-11.28225	0.00350	-11.27875
3	13-Apr-15	--	19-Apr-15	11320.50	0.00	-14.15063	0.00000	-14.15063
4	20-Apr-15	--	26-Apr-15	9928.90	26.10	-12.41113	0.03263	-12.37850
5	27-Apr-15	--	3-May-15	10282.10	103.60	-12.85263	0.12950	-12.72313
6	4-May-15	--	10-May-15	-1743.80	179.00	2.17975	0.22375	2.40350
7	11-May-15	--	17-May-15	8559.20	352.60	-10.69900	0.44075	-10.25825
8	18-May-15	--	24-May-15	1894.50	113.60	-2.36813	0.14200	-2.22613
9	25-May-15	--	31-May-15	780.60	287.70	-0.97575	0.35963	-0.61613
10	1-Jun-15	--	7-Jun-15	2196.80	38.80	-2.74600	0.04850	-2.69750
11	8-Jun-15	--	14-Jun-15	1815.20	354.10	-2.26900	0.44263	-1.82638
12	15-Jun-15	--	21-Jun-15	1279.40	236.40	-1.59925	0.29550	-1.30375
13	22-Jun-15	--	28-Jun-15	3057.10	185.90	-3.82138	0.23238	-3.58900
14	29-Jun-15	--	5-Jul-15	2535.30	53.50	-3.16913	0.06688	-3.10225
15	6-Jul-15	--	12-Jul-15	14176.70	119.30	-17.72088	0.14913	-17.57175
16	13-Jul-15	--	19-Jul-15	4126.70	65.90	-5.15838	0.08238	-5.07600
17	20-Jul-15	--	26-Jul-15	3202.20	82.40	-4.00275	0.10300	-3.89975
18	27-Jul-15	--	2-Aug-15	1493.00	0.00	-1.86625	0.00000	-1.86625
19	3-Aug-15	--	9-Aug-15	39110.60	54714.20	-48.88825	68.39275	19.50450
20	10-Aug-15	--	16-Aug-15	5174.10	23.40	-6.46763	0.02925	-6.43838
21	17-Aug-15	--	23-Aug-15	2052.30	142.20	-2.56538	0.17775	-2.38763
22	24-Aug-15	--	30-Aug-15	637.80	88.40	-0.79725	0.11050	-0.68675
23	31-Aug-15	--	6-Sep-15	-680.30	70.10	0.85038	0.08763	0.93800
24	7-Sep-15	--	13-Sep-15	-542.00	38.60	0.67750	0.04825	0.72575
25	14-Sep-15	--	20-Sep-15	9114.80	111.70	-11.39350	0.13963	-11.25388
26	21-Sep-15	--	27-Sep-15	9052.60	27.90	-11.31575	0.03488	-11.28088
27	28-Sep-15	--	4-Oct-15	2366.70	63.70	-2.95838	0.07963	-2.87875
28	5-Oct-15	--	11-Oct-15	2106.60	-36.40	-2.63325	-0.04550	-2.67875
29	12-Oct-15	--	18-Oct-15	5327.20	28.60	-6.65900	0.03575	-6.62325
30	19-Oct-15	--	25-Oct-15	3678.40	53.60	-4.59800	0.06700	-4.53100
31	26-Oct-15	--	1-Nov-15	43718.70	52952.80	-54.64838	66.19100	11.54263
32	2-Nov-15	--	8-Nov-15	-7307.90	22.90	9.13488	0.02863	9.16350
33	9-Nov-15	--	15-Nov-15	-11633.80	2.40	14.54225	0.00300	14.54525
34	16-Nov-15	--	22-Nov-15	-10130.70	0.00	12.66338	0.00000	12.66338
35	23-Nov-15	--	29-Nov-15	-15325.10	2.70	19.15638	0.00338	19.15975
36	30-Nov-15	--	6-Dec-15	-13971.10	3.40	17.46388	0.00425	17.46813
37	7-Dec-15	--	13-Dec-15	-15086.70	4.90	18.85838	0.00613	18.86450

Week No.	Duration			MVARhDrawal		Amount in Rs. Lacs		Net Amount in Rs. Lacs
				High Voltage	Low Voltage	High Voltage	Low Voltage	
38	14-Dec-15	--	20-Dec-15	-19114.60	5.70	23.89325	0.00713	23.90038
39	21-Dec-15	--	27-Dec-15	-23206.30	2.20	29.00788	0.00275	29.01063
40	28-Dec-15	--	3-Jan-16	-22447.20	1.30	28.05900	0.00163	28.06063
41	4-Jan-16	--	10-Jan-16	-20804.80	3.50	26.00600	0.00438	26.01038
42	11-Jan-16	--	17-Jan-16	-23119.30	-8.00	28.89913	-0.01000	28.88913
43	18-Jan-16	--	24-Jan-16	-22867.00	1.90	28.58375	0.00238	28.58613
44	25-Jan-16	--	31-Jan-16	-26143.80	-0.40	32.67975	-0.00050	32.67925
45	1-Feb-16	--	7-Feb-16	-24100.40	0.00	30.12550	0.00000	30.12550
46	8-Feb-16	--	14-Feb-16	-27748.40	6.10	34.68550	0.00763	34.69313
47	15-Feb-16	--	21-Feb-16	-29437.90	0.00	36.79738	0.00000	36.79738
48	22-Feb-16	--	28-Feb-16	-27303.50	0.00	34.12938	0.00000	34.12938
49	29-Feb-16	--	6-Mar-16	-21732.50	-0.10	27.16563	-0.00013	27.16550
50	7-Mar-16	--	13-Mar-16	-21550.90	0.00	26.93863	0.00000	26.93863
51	14-Mar-16	--	20-Mar-16	-20538.70	0.00	25.67338	0.00000	25.67338
52	21-Mar-16	--	27-Mar-16	-26930.80	0.00	33.66350	0.00000	33.66350
	<b>Total</b>			<b>-218858.70</b>	<b>110531.8</b>	<b>273.76504</b>	<b>138.1646</b>	<b>411.92965</b>

In case of energy, (-)ve indicates injection and in case of amount (-)ve indicates receivable.  
Amount corresponding to Reactive power Drawl /Injection by Discoms  
(All figures in Lakhs):

Month	BRPL	BYPL	TPDDL	MES	NDMC	NET AMOUNT
NOV-15	-5.58	-19.26	4.70	0.03	-8.99	-29.10
DEC-15	7.96	7.79	11.26	0.30	-7.87	19.458
JAN-16	13.144	2.56	10.58	0.58	-5.31	21.55
FEB-16	12.19	0.16	8.28	0.17	-4.42	16.40
MAR-16	0	0	0.006	0	0	-0.0103
					<b>TOTAL</b>	<b>28.29</b>

The issue was deliberated in the 15<sup>th</sup> GCC Meeting wherein it was advised that corrective measures are required to be taken during high voltage conditions. This issue should also be regularly discussed and monitored in the Delhi OCC Meetings.

Further in the 128<sup>th</sup> OCC Meeting of NRPC against Agenda Point no. 23 by NRLDC the following was deliberated.

- A.** *High Voltage/Reactive Power Management: This year, during Aug-Sept 2016 months also, number of nodes in Northern region have been experiencing high voltage in Punjab, Haryana, Delhi NCR, some parts of Rajasthan and Uttar Pradesh especially during morning 0500-0700 hours as well as just prior to evening peak hours [natural low load conditions as well as low load condition due to load groups supply hours]. On the onset of coming winter in Northern Region, it is anticipated that voltage would further rise and it would be one of the key challenges for grid*

especially during night off-peak conditions. To curb the high voltages, following proactive actions are suggested:

- i. Switching off Capacitor banks during off peak hours .

**B. Tap Optimization of ICTs**

- i. Monitoring of Scatter plots (HV side and LV side voltage plot) of ICTs
- ii. Tap change based on scatter plot
- iii. Tap change confirmation with control centers .

**C. Generator Reactive absorption**

- i. Sensitize the generators to absorb the MVAR as per the system requirement w.r.t their capability curve
- ii. Generator transformer tap change as per the system requirement

As far as high voltage is concerned it was observed that during last year Mainly at following substations voltages at 400kV /220kV levels were High .

1. Maharani S/stn.
2. Mundka S/stn.
3. Bamnauli S/stn.

The endeavour of the substation Incharge should be NIL reactive power Injection at High Voltages for system Security .If required , Transformers /Lines are switched off to control injection of reactive power at 400kV through ICT's .

The following steps were taken on 26.10.2016 to control reactive power injection.

- a. All capacitor banks in Discoms and DTL were switched off.
- b. 220kV Maharani- E.lane oneckt put off .
- c. 220kV Maharani- Trauma centre oneckt put off .
- d. 220kV Maharani- Majid Modh oneckt put off .
- e. 220kV Mundka-Peeragarhi one ckt put off.
- f. 220kV Peeragarhi-Wazirpur one ckt off.
- g. One no. of 160Mva, 220/66kV, Transformer put off at Mundka.

Despite above measures, the reactive power injection during night hours of 26/27-10-2016 was as under :

Hours	Mandola	Bawana	Maharani Bagh	Mundka	H.Vihar	Bamnauli
23	41	-1	-74	-53	-2	-44
24	32	-8	-81	-57	--	-52
1	20	-16	-85	-63	--	-58
2	2	-24	-90	-65	--	-71

3	-9	-27	-89	-68	--	-79
4	-20	-30	-90	-66	--	-83
5	-22	-28	-88	-68	--	-80
6	-9	-28	-85	-66	--	-54
7	21	-19	-85	-65	--	-39

Tap position

Maharani Bagh	315MVA -	12	500MVA -	9
Bawana	315MVA -	9		
Mandola	500MVA -	9		
Harsh Vihar	315MVA -	9		
Bamnauli	315MVA-	9	500MVA -	9
Mundka	315MVA -	6		

From the above it appears that installation of reactors at 400kV Mundka ,Bamnauli, Maharani Bagh and Bawana is a long term solution. The matter was discussed in detail in 34<sup>th</sup> TCC Meeting held on 25.10.2016 at Rishikesh. It was clarified by CTU that they have conducted the comprehensive study for reactive power complementation and concluded that 125 MVAR Reactor is required to be installed at 400kV Mandola s/stn. It was also explained that the system studies were carried out based on assumption that three upcoming ISTS at Tuglakabad, Dwarka& I.P. with 125MVAR Reactor provision at each sub station for 2018-19 conditions. The minimum load assumed was 2500MW. On the request of DTL the studies would be repeated for 1500MW minimum load.

Since the reactors installations may take 2-3 years till the time Delhi system has to remain vigilant for voltage regulations particularly during winter nights for stable system operation.

During the OCC meeting dt.-28.10.2016, It was decided that a committee of following members shall be constituted for study of Reactive Power Management in the Delhi system.

S.No.	Name & Designation	Organisation	Mobile No.
1.	Sh. Hitesh Kumar, DGM(OS)	D T L	9999533662
2.	Sh. Satinder Singh Sondhi, V.P	BRPL	9312147009
3.	Sh. Mukesh Dadhich, Gen. Manager	BYPL	9350261451
4.	Sh. Lalit Wasan, DGM	TPDDL	9971316492
5.	Sh. Rajarshi, Manager (E/M)	BTPS	9650993744

OCC further advised that wherever there is problem of overvoltage at 220kV level at a particular grid sub-station during the winter season, the same is to be controlled by lowering the tap position of respective transformers to suitable level in consultation with SLDC so as to bring down the LV voltage to desired level. The necessary action in this regard to be completed by 5.11.2016. SLDC to update the status of the same in next OCC meeting.

Members may deliberate.

### **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. 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.

During the OCC meeting dt.-28.09.2016, EDWPCL informed that they shall provide the telemetry data to SLDC by 30<sup>th</sup> September, 2016.

During the OCC meeting dt.-28.10.2016, EDWPCL informed that the required telemetry data has been provided to Delhi SLDC. SLDC informed that they shall get it checked and revert back.

SLDC to update the status.



#### 4.0 EDWPCL Agenda

##### 4.1 Relay coordination with DTL Ghazipur Sub-Stn.

During the OCC meeting dt.-28.07.2016, OCC had advised EDWPCL to submit the relay settings to DTL.

EDWPCL vide their e-mail dt.-17.11.2016 have informed that they have submitted hard copy of the relay settings at their end to DTL Protection deptt. They have requested to check the relay coordination at DTL Ghazipur end.

DTL Prot. deptt. & EDWPCL may deliberate.

##### 4.2 High voltage at DTL Ghazipur Grid

EDWPCL vide their e-mail dt.-15.11.2016 have informed that on dt.-14.11.2016, they have recorded high voltage (71.9kV) during night at DTL Ghazipur grid and subsequently their unit tripped on over voltage.

DTL (O&M)-II and SLDC may deliberate.

#### 5.0 Northern Railways Agenda

##### 5.1 Joint Checking of Overhead Power Line crossings with railway representatives.

Northern Railways vide their letter dt.-17.11.2016 have informed that Joint checking of all overhead crossings are still pending between section Badli- New Delhi, Tilak Bridge- Sahibabad and Delhi- Sahibabad section. The concerned representatives of DTL, TPDDL and BSES are not interested for the joint checking even after contacting several times. The detail of crossings are as under:-

##### Details of Overhead Crossing pending for Joint Checking

SN	Section	Railway Location	Overhead Crossing between	System Voltage	Concerned Supply Authority
1	Tilak Bridge- Sahibabad	1532/5G-1532/9G	I.P. - Pragati Maidan	220 KV	DTL
2	-do-	1532/15-17	I.P. - Sarita Vihar	220 KV	DTL
3	-do-	-do-	I.P. - Sarita Vihar	220 KV	DTL
4	-do-	2/25G-2/27G	I.P.- Patparganj	220 KV	DTL
5	-do-	2/27G-2/29G	Geeta Colony- Patparganj	220 KV	DTL

6	-do-	5/21G- 5/23G	Patparganj- Vivek Vihar	66 KV	BSES
7	-do-	7/33G-8/1G	Patparganj- Vivek Vihar	66 KV	BSES
8	Delhi- Shahdra	2/11-2/13	Geeta Colony- SOW	220 KV	DTL
9	Shahdra- Sahibabad	9/3-9/5	Vivek Vihar- Dilshad Garden	66 KV	BSES
10	Azadpur- Adarsh Nagar	8/7-8/9	Azadpur- Tri Nagar	33 KV	TPDDL
11	Adarsh Nagar- Badli	11/15-11/17	Jahangir Puri- Pritampura	66 KV	TPDDL

Also joint checking of one no. 33 KV overhead crossing between Hazrat Nizamuddin- Okhla of DTL is pending. Railways have requested that necessary directives be issued for early joint checking.

Further, Northern Railways vide letter dt.-28.10.2016 have provided the list of following Railways representatives/officers for joint inspection of overhead power line crossing:-

S.No.	Section details	Concerned Railway representatives & Contact Nos.	Concerned Railway Officers & Contact Nos.
1.	Badli-New Delhi Tilak Bridge-Sahibabad Delhi-Sahibabad	Sh. Gyan Prakash, Sr. Sec. Engineer/OHE/N.Delhi Mob.No.-9717632846	Sh.C.K. Keshav ADEE/TRD/New Delhi Mob.No.-9717631312
2.	Hazrat Nizamuddin- Okhla	Sh.Pradeep Chaudhari Sr. Sec. Engineer/OHE/Tughlakabad Mob.No.-9717632847	Sh.Shyam Lal ADEE/TRD/Faridabad Mob.No.-9717632607
3.	Badli-Narela	Sh.Sanjay Uppadhyay Sr. Sec. Engineer/OHE/Narela Mob.No.-9717648532	Sh.C.K. Keshav ADEE/TRD/New Delhi Mob.No.-9717631312
4.	Shakurbasti-Bahadurgarh	Sh.Pramod Kumar Sr. Sec. Engineer/OHE/Bahadurgarh Mob.No.-08295944285	Sh.N.S. Parihar ADEE/TRD/Patel Nagar Mob.No.-9717631320
5.	Hazrat Nizamuddin-Patel Nagar-Shakurbasti	Sh.Munna Lal Sr. Sec. Engineer/OHE/Patel Nagar Mob.No.-9717632845	

As already been discussed in the last OCC meeting dt.-28.10.2016, DTL/Discoms to provide the nomination of their officers for joint site inspection.

DTL/Discoms/Northern Railways may deliberate.

## **5.2 Removal of abandoned crossing: -**

Northern Railways vide their letter dt.-17.11.2016 have informed that one no. 33 KV crossing, pertaining to TPDDL, between Daya Basti- Shakur Basti is abandoned since long. This crossing should be removed at the earliest to avoid any failure of this crossing and further damage to Railway traction system.

Northern Railways/TPDDL may deliberate.

## **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.

During the OCC meeting dt.-28.09.2016, BYPL informed that they shall write a request letter to Dir(Oprns.), DTL for further process and action. OCC had advised TPDDL and BRPL to proceed in the similar way as BYPL for installation of communication equipment in DTL premises.

During the OCC meeting dt.-28.10.2016, it was deliberated that DTL will examine the case after receiving the request letter and will revert back to BYPL on this issue after deliberation with competent authority.

DTL(O&M)-1,Communication deptt. & BYPL may deliberate.

## **7.0 Regarding ownership of equipments installed at 220kV S/Stn BBMB Delhi (BBMB agenda point)**

BBMB vide their letter dt.-19.10.2016 (Refer Annex.-4) has informed that BBMB Punjabi Bagh have not any documentary proof regarding 'Ownership' of equipments installed by DTL erstwhile DESU at 220kV Sub-Stn BBMB, Delhi, which is essentially required to maintain the equipments in the wake of uninterrupted power supply from BBMB Delhi Sub-Stn.Hence,

**BBMB has desired to provide the list of Ownership of equipments installed at 220kV Sub-Stn Punjabi Bagh BBMB Delhi along with the supporting documents.**

Presently, it is brought to your kind notice that one no. 66/33kV 30MVA T/F was commissioned in 1982. The name plate data of the transformer reflects that it is the DESU property. This transformer has achieved its useful life of 34 years. Due to ageing effect of T/F, the Frantic Compounds content is 2750, which is on higher side as compared to permissible limit. It indicates the severe deterioration of solid insulation in the T/F. The Tan Delta value of HV Red bushing, checked by Protection team BBMB Panipat is 2.144% which is also on higher side. The Tan Delta value of winding of T/F is also on higher side and **our Protection Division has recommended to replace the Transformer with new Transformer.**

In view of above facts, BBMB has requested to take appropriate action to replace the said Power T/F at the earliest to avoid any interruption in the Power supply in case of any outage due to breakdown of this T/F.

During the OCC meeting dt.-28.10.2016, TPDDL informed that they are searching their records available with them and shall revert back very soon.

TPDDL may update the status.

## 8.0 Shutdowns

### 8.1 Proposed shutdowns of O&M, DTL

DTL, O&M deptt. has proposed the planned shutdowns for the month of December, 2016 as per enclosed Annexure.

Members may deliberate.

### 8.2 Proposed shutdowns of DTL Project Deptt.

DTL, Project deptt. has proposed the planned shutdown at 220kV Lodhi Road as per the following details:-

S. No	Date	Time	Name of Equipment	Work to be carried out	Remarks
1.	17/12/2016 (Saturday)	06.00 Hrs to 12.00 Hrs	220 kV Ckt-2 /Line-2 Lodhi Road to Maharani Bagh S/stn	To carry out dismantling work of 3nos. 220kV CVTs along with supporting structures in	100 MVA Tr. no. 2 to be out during the shutdown period. Load may be transferred to 100 MVA Tr. no. 1. Note-After dismantling of these CVTs, the new

				220kV bay no. 2 at Lodhi Road 220/33kV S/Stn.	foundations are to be constructed for 220kV cable end terminations for connecting upcoming 220kV GIS through 220kV cable at Lodhi Road.
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Members may deliberate.

### 9.0 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 23.11.16
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. During the OCC meeting dt.-28.10.2016, It was deliberated that the above work shall be started after joint inspection with Railways.
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 30.11.16
3.	33kV RIDGE VALLEY - KHEBAR LINE CKT.-II	BRPL	31.01.16	GIS is commissioned. SCADA work is in progress. Expected by 30.11.16
4.	66kV RIDGE VALLEY-V.KUNJ CKT.-II AT RIDGE VALLEY	BRPL	13.02.16	UNDER SHUT DOWN
5.	20MVA PR.TR.-III AT VSNL	BRPL	20.07.16	UNDER BREAK DOWN. Expected by 15.11.2016.
6.	33kV Okhla-Balaji Ckt.-II	BRPL	14.11.16	R-Ph single cable faulty
7.	20MVA Pr.Tr.-2 at Andheria Bagh	BRPL	17.11.16	Tr. Put Off.
8.	11kV Half Busbar towards Pr. Tr.-2 at NDSE	BRPL	21.11.16	UNDER SHUT DOWN

9.	20MVA Pr.Tr. at G-6 PPK	BRPL	22.11.16	LT side single cable faulty
10.	66kV Bus coupler at G-15 Dwarka	BRPL	22.11.16	CT Blast
11.	G-4 PPK-PPK-2 Ckt.-2	BRPL	22.11.16	UNDER SHUTDOWN
12.	33kV ROHTAK ROAD - MADIPUR CKT.	BRPL	28.05.16	CABLE FAULTY.
13.	66kV SAGARPUR - REWARI LINE CKT.	BRPL	30.07.16	'B' PH. CABLE FAULTY.
14.	30MVA PR.TR. AT NANGLOI	BRPL	18.08.16	UNDER SHUT DOWN.
15.	20MVA PR. TR. -III AT BINDAPUR	BRPL	10.11.16	UNDER SHUT DOWN.
16.	33KV ROHTAK ROAD-SB MILLS CKT-1	BRPL	19.11.16	SINGLE CABLE FAULTY
17.	20MVA PR.TR.-3 AT PASHIM VIHAR	BRPL	21.11.16	UNDER SHUT DOWN.
18.	33KV OKHLA-NEHRU PLACE CKT.-4	BRPL	21.11.16	SINGLE CABLE FAULTY
19.	33KV PPG-CBD SHAHDARA	BYPL	29.10.16	Y-PH SINGLE CABLE FAULTY
20.	33KV PANDAV NAGAR - DMS CKT.	TPDDL	03.04.16	PROBLEM IN RMU.
21.	400kV BAMNAULI - JHAKTIKARA CKT.-I	DTL	22.05.16	Tower erection work is yet to be started. In process of tendering.
22.	220/66kV 100MVA PR.TR.-III AT 220kV PPK-I	DTL	04.09.16	HV SIDE 'Y' PH. WINDING DAMAGED. Expected by 15.01.2017.
23.	220/33kV 100MVA PR.TR.-II AT 220kV PARK STREET	DTL	11.09.16	The transformer have been put Off due to rise in oil temperature and it will be replaced by the transformer at 220kV Pappankalan-I.

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				Expected by 15.01.2017.
24.	220/33kV 100MVA PR.TR.-I AT 220kV WAZIRPUR	DTL	19.10.16	Tr. Tripped on Differential and Buchholz. Internal inspection has been carried out and the transformer will be charged after the recommendations of OEM.
25.	220kV Bus coupler at Vasant Kunj	DTL	17.11.16	R-PH. POLE DAMAGED.