

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

AGENDA OF OCC MEETING DT. 29.01.2016

Date : 29.01.2016 (Friday)
Time : 10:30 AM
Venue : Office of GM(O&M)-I, Park Street.

1.0 Confirmation of minutes of OCC meetings dt. 29.01.16

Last OCC meeting was held on 29.12.15 in accordance with the agenda circulated vide letter dt.23.12.15. Minutes of the aforesaid OCC meeting were issued vide letter dt. 01.01.16.

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:

S. No	Capacity	Present population in nos.	Status of the hot reserve as on 29.12.15
1.	220/66kV, 100MVA Tx	41	DTL informed that tender for supply and ETC of 220/66/33kV 100MVA Tx as hot reserve at 220kV Patparganj Substation got opened and received bids are being evaluated.
2.	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 27.01.16
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 follow up with DTL and carry out the said work during HTLS re-conductoring work on Pragati-S.Vihar ckt along railway crossing.
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. Expected by 31 st March, 2016.

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3.	20MVA PR.TR.-III AT C-DOT	BRPL	12.11.15	Under Shutdown. Expected by 30.01.16
4.	66kV PARK STREET-RIDGE VALLEY CKT.-II	BRPL	20.11.15	Under Shutdown. Bay has been allocated to DMRC and work is being carried out by DMRC for new bay.
5.	66/11kV 20MVA PR.TR.-II AT BINDAPUR	BRPL	16.11.15	Transformer got damaged due to flash over. The same is being checked whether repairing is feasible or not. Expected by 28.02.16.
6.	66kV NANGLOI-MANGOLPURI-T-OFF MUNDKA CKT.-I	BRPL	16.11.15	Fault is in T-Off part. BRPL to have site inspection with TPDDL during 1 st week of January, 2016
7.	66kV PPK-II(220kV)-G-5 MATIALA CKT.-II	BRPL	01.12.15	'B'PH. CABLE FAULTY. Fault could not be traced out yet. Expected by 15.01.16
8.	33kV VSNL-II - MASJID MOTH CKT.	BRPL	21.12.15	Under Breakdown
9.	66kV PALAM - 33kV AAI S/STN.-2	BRPL	05.01.16	Under Shutdown
10.	66/11kV 25MVA PR.TR.-III AT SARITA VIHAR	BRPL	05.01.16	Under Shutdown
11.	33kV RIDGE VALLEY - KHEBAR LINE CKT.-II	BRPL	13.01.16	'R'PH. SINGLE CABLE FAULTY
12.	33/11kV 16MVA PR.TR.-III AT ALAKHNANDA	BRPL	14.01.16	Under Shutdown
13.	33/11kV 20MVA PR.TR.-I AT NIZAMUDDIN	BRPL	18.01.16	Under Shutdown
14.	33/11kV 20MVA PR.TR.-III AT EAST OF KAILASH	BRPL	20.01.16	Under Shutdown
15.	66kV NJF(220kV) - BODELLA -II CKT.-II	BRPL	14.01.16	'B'PH. CABLE FAULTY
16.	33kV PANKHA ROAD-JANAKPURI CKT.-I	BRPL	18.01.16	'R'PH. SINGLE CABLE FAULTY

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17.	66kV WAZIRABAD - GONDA CKT.-II	BYPL	18.12.15	R' PH. CABLE FAULTY. Expected by 05.01.16.
18.	33kV KASHMERI GATE(220kV)-TOWN HALL CKT.	BYPL	09.01.16	SINGLE CABLE FAULTY
19.	66KV DILSHAD GARDEN - VIVEK VIHAR CKT-III	BYPL	16.01.16	'B' PHASE CABLE FAULTY
20.	66kV PPG INDL.AREAS-KHICHRIPUR CKT.-II	BYPL	20.01.16	'B'PH. CABLE FAULTY
21.	33kV BAY - 6 (RPH-JAMA MASJID)	BYPL	20.01.16	'B'PH. SINGLE CABLE FAULTY
22.	66kV GAZIPUR - VIVEK VIHAR CKT.-II	BYPL	21.01.16	'R'PH. SINGLE CABLE FAULTY
23.	66KV HARSH VIHAR - GONDA CKT-I	BYPL	23.01.16	'Y' PHASE CABLE FAULTY
24.	66KV GONDA - BHAGIRATHI CKT-I	BYPL	23.01.16	'R' PHASE CABLE FAULTY
25.	33kV PANDAV NAGAR - DMS CKT.	TPDDL	02.12.15	UNDER BREAK DOWN. Problem in RMU. Expected by 31.12.15
26.	33kV SHALIMARBAGH-WAZIRPUR-II CKT.-II	TPDDL	02.12.15	UNDER BREAK DOWN. Expected by 31.12.15
27.	33kV SARASWATI GARDEN-DLF KIRTI NGR CKT.-I	TPDDL	09.12.15	SINGLE CABLE FAULTY. Expected by 31.12.15
28.	66kV MANGOLPURI -I T-OFF NANGLOI CKT.-I	TPDDL	08.12.15	'Y'PH. FAULTY. Expected by 31.12.15
29.	33kV INDERPURI - PANDAV NAGAR CKT.	TPDDL	18.12.15	CABLE FAULTY
30.	33kV NARAINA(220kV)-INDERPURI CKT.-I&II	TPDDL	18.12.15	CABLE FAULTY
31.	220kV MAHARANI BAGH - ELECTRIC LANE CKT.-II	DTL	17.04.15	. Expected by 31 st January, 2016.
32.	220kV MAHARANI BAGH - TRAUMA CENTRE CKT.-II	DTL	05.01.16	Cable found faulty near boundary of AIIMS.

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

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

During the OCC meeting dt. 09.12.15, TPDDL informed that the shortcomings noted during inspection dt.28.07.15 i.e. inspection of RMUs of 11kV U/G Kanjhawla and SOS Bawana has been completed and the problems have been attended. TPDDL updated the status of other works also.

During OCC meeting dt.29.12.15, TPDDL and DTL informed that inspection of first switching substations has not yet been carried out. OCC advised TPDDL and DTL to carry out the inspection during 1st week of January, 2016.

DTL and TPDDL to update the status.

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

During OCC meeting dt. 09.12.15, DTL informed that as per the direction of OCC, inspection of first switching substations for the 11kV feeders emanating from 220kV Najafgarh substation has already been carried out along with protection division of BRPL on dt. 23.11.15 & 24.11.15. Minutes of the same have been shared with BRPL. OCC advised BRPL to take necessary action on shortcomings noticed during the inspection.

During OCC meeting dt.29.12.15, BRPL informed that they are planning to install RMUs wherever the same is not available and they shall take necessary action on all other shortcomings observed during inspection. DTL requested BRPL to evacuate some of the 11kV load from Najafgarh substation to Delhi Jal Board substation of BRPL after energization of 3rd 20MVA transformer.

BRPL to update the status of action taken.

2.7 Phasing out of 66/33kV, 30MVA Tx at Narela

During meeting dt. 09.12.15, OCC advised TPDDL and DTL to have joint inspection to check healthiness of the said transformer and whether it is feasible to take load of 1 no. 33kV feeder of TPDDL. The inspection report shall be provided during next OCC meeting so that final decision could be taken.

As per direction of OCC, a joint site inspection along with M/s TPDDL has been carried out at Narela 220KV S/Stn. for assessing the condition of 30MVA BHEL make 34 years old power transformer on dated 11/12/2015. During discussion, M/s TPDDL representatives informed that availability of supply of 30MVA Trf. at Narela is required at 33KV Khampur S/Stn. for meeting

the N-1 contingency, in case of failure of another source i.e. 33KV O/H feeder from RG-5 S/Stn. But DTL is of the view that 30MVA power T/F at Narela needs to be phased out because of development of acetylene (C₂H₂) gas inside the transformer which is beyond limit and as per the recommendations of OEM (i.e. M/s BHEL)

Reference to the joint site inspection dated 09.12.15 with M/s TPDDL, 33KV Khampur feeder from Narela S/Stn. has got charged on NO LOAD to avoid its outage, as M/s TPDDL assured that no load will be taken on this feeder till any exigency B/D on another 33KV source at Khampur S/Stn. from RG-5 S/Stn.

Accordingly, DTL requested OCC to take final decision whether the 30MVA outlived power transformer should be kept in charged condition or not.

During OCC meeting dt.29.12.15, the issue has been deliberated and TPDDL suggested replacing of existing 30MVA transformer with 50MVA transformer of same voltage level which shall be provided by them. However, DTL informed that there is space constraint in erecting the same. As per the direction of OCC, TPDDL informed that they shall inform shortly whether to keep the 30MVA Tx. at Narela in charging condition or not.

TPDDL to update.

2.8 Issue of over-voltage at various substations of DTL

BYPL informed that the issue of over voltage/High voltage at various 220kV Substations of DTL has been deliberated in last OCC meeting and recently held GCC meeting. In this regard, during meeting dt.09.12.15, OCC advised DTL O&M department to change the tap positions of transformers at 220kV Level from tap no. 5 to tap no. 3 wherever the over voltage issue pertains and further DISCOMs shall monitor and regulate the Voltage at their end so that appropriate voltage levels to be maintained at consumer end.

During OCC meeting dt.29.12.15, DTL informed that the activity of lowering the tap position of OLTC has been carried out at many of the 220kV substations. OCC advised DTL to implement the activity at every substation by 5th January, 2016.

DTL to provide the compliance report regarding tap-change of OLTC to control over voltage at all 400/220kV substations.

2.9 Evacuation of load from newly installed bays

DTL advised DISCOMs for putting the load on installed bays at various DTL sub-stations. The detail is as under:

S.No.	Name of sub-stations	Details of bays	Date of commissioning	Remarks
1	400KV Mundaka	14X 66KV feeder bays	29.07.2014	Awaiting the line from

2.	220KV Naraina	2 X 33KV feeder bays	15.10.2015	discoms
3.	220KV vasant kunj	2X 66KV feeder bays	15.10.2014	
4	220KV Gazipur	2X 66KV feeder bays	05.10.2015	
5.	220KV SOW	2X 66KV feeder bays	Oct.- 2012	
6	220KV Papankalan-II	2X 66KV feeder bays	25.12.2015	
7.	220KV Kanjhawala	4X 66KV feeder bays	07.01.2016	
8.	220KV DSIDC Bawana	3X 66KV feeder bays	11.01.2016	

Further in new Grid Sub-station like as Peera Garhi, AIIMS, HCML, DIAL etc. are required to be optimally loaded for the best utilization of the Installation.

Members may deliberate.

3.0 TPDDL Agenda points

3.1 Excess sagging of BBMB EHV Circuit:

TPDDL informed that excess sagging is found between two towers of 220kV Narela – Rohtak Road Circuit (owned 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.

Issue has been deliberated during OCC meeting dt. 06.11.15 and OCC advised BBMB to have inspection of the said circuit in the presence of TPDDL representative and take necessary action.

During OCC meeting dt.29.12.15, BBMB informed that the inspection has not yet been carried out. OCC advised TPDDL and BBMB to have joint site visit during 1st week of January, 2016 and take necessary action based on the outcome of the site visit.

BBMB and TPDDL to update.

3.2 Multiple tripping due to heavy fog

On dated 08.01.2016, multiple tripping occurred in Transmission lines (220kV and 400kV network) due heavy fog from 01:52 hrs. Due to these trippings, a lot consumers were affected for long duration and high quantum of energy were remain unserved. Approximately 200- 250 MW quantum of Load and about 0.8 Mus energy were affected. It may be noted that due to these

trippings, the critical load of Wazirabad Waterworks (for 30 mins) and Indian Railways (for 1:30 hrs) were also affected for long duration. In addition to this, the supply of some important feeders could not be restored due to constraints at 220KV GOPLAPUR, SUBZI MANDI, NARELA, DSIDC BAWANA, KANJHAWALA, ROHINI and BBMB till 13:00 hours.

The detail of the duration and the quantum affected due to the trippings and transmission constraints at DTL end is given below:

NAME OF DTL GRID	TIME		LOAD AFFECTED	MU's AFFECTED	REMARKS
	FROM	TO			
220KV GOPALPUR	9:14	12:25	76	0.1600	Load constraint imposed by DTL due to tripping of its transmission lines
220 KV SUBZIMANDI	9:14	13:02	88	0.2500	
220 KV KANJHAVALA	1:52	1:55	24	0.0012	
	5:16	6:20	17	0.0181	
220 KV NARAINA	2:37	3:13	29	0.0158	Load constraint imposed by DTL due to tripping of its transmission lines.
	11:05	12:01	14	0.0131	
220KV NARELA	3:02	3:07	75	0.0054	
	5:02	6:30	42	0.0616	
	6:58	7:38	26	0.0173	
	8:16	8:20	62	0.0041	
	07:15	11:23	10	0.04	
220 KV ROHINI	5:28	5:45	52	0.0108	
220KV DSIDC BAWANA	4:16	4:24	49	0.0044	
	4:16	4:54	14	0.0089	
	4:16	8:00	13	0.0485	
220 KV ROHINI 2	5:33	5:45	20	0.004	
	6:05	6:30	20	0.008	
220 KV BBMB	04:16	04:46	19	0.0065	
	04:16	07:00	2	0.0055	

As such crisis can be expected at any time, TPDDL requested the following details by DTL/SLDC:

- Sequence of Events and Relay Data download for all trippings (Circuit, Transformer and Feeder).
- Detail of constraints faced by DTL which forced load restrictions on DISCOMS.
- Load Restriction Quantum should base on Demand Ratio in case of 2-3 DISCOM fed from same source.

- Corrective and Preventive action (in term of maintenance as well as load restoration) to avoid recurrence of such events in future.

Members may deliberate.

3.3 Creation of Disaster Management Team.

TPDDL is of view that proper disaster management mechanisms need to be developed at SLDC. During contingency period, all Load Dispatch Center (Control Room) of TRANSCO as well as DISCOMs become busy in operation. Due to this chaotic situation, necessary information flow (like actual tripping due to which our load is affected, persisting system constraints, restoration plan, expected time of restoration) stuck up. TPDDL requested SLDC to create a team consisting at least 2 persons from each utility, who will be responsible for exchanging necessary information.

Members may deliberate.

3.4 Declare Capacity for Rajghat and BTPS:

As per the directions of DPCC vide their letter ref: DPCC/WMC-II/2015/2456-2470 and DPCC/WMC-II/2015/2441-2455 dated 31.12.2015, Rajghat and BTPS (four units out of five units) has been directed to be closed till 15.03.2016. Under these circumstances, the plants have to be considered not fit for generation. As per definition of Declare Capacity of generating station mention in IEGC issued by CERC.

(15) 'Declared Capacity' or 'DC' in relation to a generating station means, the capability to deliver ex-bus electricity in MW declared by such generating station in relation to any time-block of the day as defined in the Grid Code or whole of the day, duly taking into account the availability of fuel or water, and subject to further qualification in the relevant regulation;

Since DC should subject to qualification in relevant regulation also, hence the availability of Rajghat and Units 1, 2, 3, & 4 of BTPS should be considered as nil by SLDC.

Member may deliberate.

3.5 Generation Mapping of ISGS Generating Plant.

Earlier, it was decided that after complete mapping of Intrastate Exchange Points (primary, secondary, tertiary) through ICCP, data from ISGS Generating Plant will also be mapped in next phase. These data are very important for Power Scheduling and Real Time Power Management.

TPDDL requested to update the status of the same and mention if there is any limitation in mapping of Generating Plant.

Members may deliberate.

4.0 SLDC Agenda points

4.1 Details of annual outage plan for FY 2016-17.

As per the guidelines of NRPC, annual outage plan/maintenance plan for FY 2016-17 needs to be submitted by STU to NRLDC/SLDC by 10.01.2016. During the OCC meeting dt.29.12.15, SLDC requested DTL to provide the annual outage plan/AMP for FY 2016-17 to NRLDC (Interstate Substations) and to SLDC (other than interstate substations) by 10th January, 2016. DTL to update the status.

4.2 Review of SPS scheme of 765kV Agra-Gwalior Line.

During the meeting dt.29.12.15, SLDC informed the members that NRPC reviewed the SPS Scheme of 765kV Agra-Gwalior Line according to which Delhi needs to provide 200MW load relief during SPS operation. Accordingly, SLDC requested DTL protection department to identify the feeders to provide minimum 200MW load relief during SPS operation of the said 765kV Line.

DTL Protection department to update.

5.1 Proposed Shutdowns

DTL proposed the planned shutdowns for the month of February 2016 as per enclosed annexure.

Members may deliberate.

5.2 Proposed shutdown at IP substation by Projects department.

DTL Projects department proposed the following shutdowns at 220kV IP Substation:

S. No.	Description of Element	Date	Detail of activities	Remarks
1	100 MVA 220/33KV Power Transformer – I (BHEL Make)	15.02.16 to 10.05.16*	Dismantling of Existing Transformer(15 days). Modification of existing main & auxiliary foundation to accommodate new Tx. (35Days) ETC of New BBL make Transformer(35 days)	*- subject to PO from C&MM Dept for Transformer Foundation Modification.

Members may deliberate.

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