

	<p style="text-align: center;">DELHI TRANSCO LIMITED (A Govt. of NCT of Delhi Undertaking) An ISO 9001:2015 certified company Office of Mgr. (T) OS-II IInd Floor, ERP centre, SLDC Minto Road, New Delhi-110002 Website:-www.dtl.gov.in</p>
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No. F.DTL/2018-19/Mgr.(OS)-II/45

Date:29.11.2018

To,

All Members of Operation Co-ordination committee

DTL	General Manager (O&M)-I, Chairman OCC General Manager (O&M)-II General Manager (PMDM&S) General Manager (Planning) DGM (O&M) - North, East, West, South DGM (M/P) DGM (Plg.)
SLDC	ED (SLDC) DGM (SO)
TPDDL	HOD (PSC &AM) Sr. Manager (PSC)
BRPL	AVP (SO)
BYPL	AVP (SO)
NDMC	Superintending Engineer
IPGCL	AGM (T) Opr. GTPS
PPCL	AGM (T) Opr.PPS-I AGM (T) Opr. PPS-III
MES	AEE/M.SLDC Officer
BBMB	Sr. Executive Engineer, O&M
DMRC	Addl. GM (Elect.)
GMR(DIAL)	GM(DIAL) Special Invitee
N. Railways	Sr. DEE (TRD) Special Invitee

Sub: Agenda for 8th (2018-19) Delhi OCC Meeting to be held on 05.12.2018 (Wednesday) at 2:30 P.M.

Dear sir/madam,

The 8th (2018-19) Delhi OCC meeting is scheduled to be held on dt.- **05.12.2018 (Wednesday), 2:30 P.M.** in the office of **GM(O&M)-I, Delhi Transco Ltd., 220kV Sub-Stn Park Street, Opp. Talkatora Stadium, Near R.M.L. Hospital, New Delhi-110001**

Agenda enclosed, Members are hereby requested to make it convenient to attend the meeting.

Thanking You.

Yours Sincerely,

sd/-

(Shankar Kumar)
Mgr.(T) OS-II,DTL

DELHI TRANSCO LIMITED

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

AGENDA FOR DELHI OCC MEETING NO. 08/18-19

Date : 05.12.2018
Time : 2:30 PM
**Venue : O/o-GM(O&M)-I, Delhi Transco Ltd.,
220 kV Sub-Stn Park Street,
Opp. Talkatora Stadium, Near R.M.L. Hospital,
New Delhi-110001**

1. Confirmation of minutes of Delhi OCC meeting held on dated 23.10.2018.

The previous Delhi OCC meeting was held on 23.10.2018 in accordance with the agenda circulated vide letter dt: 18.10.2018. Minutes of the aforesaid OCC meeting were issued vide letter dt.02.11.2018. The same was also uploaded on DTL website.

Members may like to confirm the same.

2. DTL AGENDA POINTS:

2.1 HTLS re-conductoring work on 220 kV overhead transmission line Mehrauli Tuglakabad Ckt-I.

(a) Permission for crossing DMRC metro line Yellow line in between Chatarpur to sultanpur metro stations for HTLS re-conductoring work on 220 kV overhead transmission line Mehrauli-Tuglakabad Ckt-I.

HTLS reconductoring work on 220 kV overhead transmission line Mehrauli-Tuglakabad Ckt-I has scheduled from 10.12.2018 to 30.12.2018. The subject 220 kV transmission line is crossing over DMRC yellow line in between Chatarpur to Sultanpur metro stations. For safe working during HTLS reconductoring work, we require permission for crossing the HTLS conductor over metro line for 3 consecutive days (during night hours) in between 18.12.2018 to 30.12.2018.

DMRC may deliberate.

(b) Shutdown of Mehrauli-Tugalkabad ckt-1&2 during HTLS termination of Ckt-1 at Tuglakabad Substation.

HTLS reconductoring work on 220 kV overhead transmission line Mehrauli-Tuglakabad Ckt-I has scheduled from 10.12.2018 to 30.12.2018. It has been observed during site visit that for safe working during termination of HTLS conductor at Tuglakabad end (Gantry within Substation), shutdown of both ckt 1 & 2 is required, as the ckts conductors are placed vertically at Tuglakabad end within same ROW.

OCC may deliberate.

2.2 Power evacuation plan for newly commissioned/to be commissioned R.K. Puram, Tughlakabad, Pappankalan-III and Preet Vihar.

Discoms were requested to submit the schedule for evacuation plan upto March 2019 for newly commissioned/to be commissioned grids, i.e. R.K. Puram, Tughlakabad, Pappankalan-III and Preet Vihar for load optimization on DTL network.

BYPL informed that 02 nos. new 33kV feeders are going to be charged at 220kV Preet Vihar s/s before summer season and Preet Vihar s/s would be loaded upto 130MW.

BRPL informed that 4 nos. 33kV feeder and 1 no. 66kV feeder (V. Kunj B-Block) evacuating from R.K. Puram S/Stn will be charged by summer 2019.

It was further informed by BRPL that regarding power evacuation from Tughlakabad through 66kV Batra, M. Nagar feeder upto the tune of 100 MW can be expected by summer 2019 which will give load relief to Mehrauli and Okhla.

Power evacuation via G-II from PPK-III may also be expected by summer 2019.

OCC advised planning deptt. DTL to take up this matter with Discoms in upcoming steering committee meeting to optimize the load at subjected under-loaded sub-stations in line with above Discoms to put all out efforts for minimum 50% loading by march-2019 against capacity of these sub-stations, so that the load relief can be provided on other over loaded Transformers & sub-stations.

OCC may deliberate.

2.3 Proposed planned shutdowns of O&M, DTL for the month of Dec 2018.

DTL O&M deptt. has proposed the planned shutdowns for the month of Dec-2018 as per enclosed Annexure.

OCC may deliberate.

3. SLDC Agenda

3.1 System study for capacitor requirement in NR for year 2019-20.

The matter is a regular agenda in NRPC OCC to do system study for capacitor requirement in Northern Region. NRPC has approved the capacitor requirement study at 11/33kV level from CPRI to obtain the true requirement of capacitor for FY 2018-19. In this regard all NR utilities were requested to give peak summer data (Load/Voltage) and details as per format approved in NRPC. The format for data is attached as Annexure-I. As such, all utilities are requested to provide data in required format.

Discoms may please provide the information.

3.2 Requirement of data for the GIS based energy map being developed by Energy Division of NITI Aayog.

This is in reference to the agenda item no. 19 of 149NRPC OCC meeting. Energy Division of Niti Aayog is preparing a GIS based energy map, therefore, Member Secretary, NRPC has requested all Discoms / Power Department to furnish the information regarding the Name, Voltage level, Capacity Longitude and Latitude of 33kV & 66kV S/Stns and Lines. The format for data is attached as Annexure –II.

Discoms may please provide the information.

3.3 Cleaning and Replacement of porcelain insulators

In Delhi, power transmission lines are exposed to the high pollution levels along their routes. Such pollution levels with the onset of the winter season, lead to the frequent trippings and leading to breakdown and long outages of the transmission lines. These outages make the Delhi power system weak, thereby endangering the grid reliability and security. Therefore, in order to avoid/mitigate such trippings of lines during foggy (smog) weather in winter season,

preventive actions like cleaning/washing of insulators, replacement to conventional insulators with polymer insulators has been recommended and are being taken every year.

A meeting was conducted by NRPC for cleaning and replacement work of conventional insulator on 15.10.2018 in which all utilities including Delhi were requested to take the preventive measures to mitigate fog related trippings during winter season and to ensure proper submission of data in line with the discussions held in the meeting.

As per previous trends, foggy conditions generally prevail after first week of December. O&M Department of DTL may be requested to avail the opportunity for cleaning and replacing porcelain insulators especially lines originating from 400kV S/Stns, Generating Stations and passing through high polluted areas.

OCC may deliberate.

3.4 High Voltage Operation of the Grid during Winter nights.

This issue is regular agenda of Delhi OCC and being continuously discussed in OCC meeting from Oct-17 onwards. OCC has advised DTL to take various steps to sort out the problem of high voltage conditions and injection of reactive power particularly during high voltage conditions in winter months. Following steps were deliberated In the OCC meeting to control the injection of reactive power:

- a. Switching off the capacitors at all the Substations of Delhi, but during winter season proper monitoring of the same is yet to be put in place.
- b. Transformer taps optimization by DTL and DISCOM. DTL has changed Taps positions of most of the transformers at 220kV S/Stns
- c. Monitoring of all 400/220kV ICTs and taking actions wherein VAR flows are observed from 220kV to 400kV side. In this respect reactive energy accounts could also be monitored.
- d. Opening of lightly loaded transmission cables/ transmission lines keeping reliability in focus.
- e. Absorption of reactive power by generating units.

Inspite of taking all out efforts mentioned above, there was hardly any change in the status. Delhi has to pay heavy amount to NRPC reactive pool account due to injection of reactive power particularly during high voltage conditions in winter months. Penalty amount increases with the progress of winter despite taking all possible steps to reduce reactive power injection during high voltage period. The details of NRPC reactive account bill from 16 Oct-17 onwards are as under:

S. N	Weeks	Payable by Delhi (in Lakhs)	Receivable by Delhi (in
1	16.10.17 to 22.10.17	0	0.76038
2	23.10.17to 29.10.17	2.21401	--
3	30.10.10 to 05.11.17	7.36426	--
4	06.11.17 to 12.11.17	19.35212	--
5	13.11.17 to 19.11.17	21.28275	--
6	20.11.17 to 26.11.17	29.15394	--
7	27.11.17 to 03.12.17	29.81707	--
8	04.12.17 to 10.12.17	22.52029	--
9	11.12.17 to 17.12.17	23.21933	--
10	18.12.17 to 24.12.17	35.94213	--

11	25.12.17 to 31.12.17	43.03881	--
12	01.01.18 to 07.01.18	36.49079	--
13	08.01.18 to 14.01.18	42.91450	--
14	15.01.18 to 21.01.18	41.34701	--
15	22.01.18 to 28.01.18	38.91308	--
16	29.01.18 to 04.02.18	31.09848	--
17	05.02.18 to 11.02.18	32.31199	--
18	12.02.18 to 18.02.18	47.73575	--
19	19.02.18 to 25.02.18	57.79202	--
20	26.02.18 to 04.03.18	50.24540	--
21	05.03.18 to 11.03.18	28.25996	--
23	19.03.18 to 25.03.18	27.74425	--
24	26.03.01 to 01.04.18	23.38106	--
Total		718.48628	

Time and again DTL has been advised at various form for early commissioning of Reactors at various locations based on the feasibility study conducted by DTL, the 40th Standing Committee Meeting of CEA held on 13.07.2018. DTL/PGCIL were advised to install reactors at the following locations.

S. No	Name of the Grid	Voltage level	Reactors proposed in MVAR	Remarks
1	Mundka	400kV	125	To be installed by DTL.
2	Bamnauli	220kV	2X25	
3	Indrapastha	220kV	2X25	
4	Harsh Vihar	220kV	2X50	
5	Electric Lane	220kV	1X50	
6	Mundka	220kV	25	
7	Peera Garhi	220kV	1X50	
8	Maharani Bagh (PG)	400kV	125	To be installed by Power Grid.
9	Mandola(PG)	400kV	125	
Total		700		

Planning Department of DTL has prepared the scheme for installation of reactors at various locations as under:-

S.N.	Bus Name	Voltage Level (kV)	Reactor MVAR)	Current status
1.	Mundka	400	125	The scheme for 125 and 25 MVAR at 400 KV Mundka substation has been finalized and under costing. For rest the schemes are under preparation.
2.	Bamnauli	220	2x25	
3.	Indrapastha	220	2x25	
4.	Harsh Vihar	220	2x50	
5.	Electric Lane	220	1x50	
6.	Mundka	220	25	
7.	Peeragarhi	220	1x50	
8.	Maharani Bagh (PG)	400	125	To be installed by Powergrid
9.	Mandola (PG)	400	125	

Planning Department may be requested to explore the possibility for early commissioning of reactors as decided in the 40th Standing Committee Meeting of CEA held on 13.07.2018.

OCC may deliberate

3.5 Energization of new elements.

It is observed that while charging the new elements all the formats requires to be submitted to SLDC are not provided by the constituents. It is requested that the format available at NRLDC website related to charging of the new elements shall be submitted to SLDC alongwith PTCC clearance.

OCC may deliberate

3.6 Status of Implementation of Recommendations of Enquiry Committee on Grid disturbances on 30 and 31.07.2012.

This is in reference to the agenda item no. 14 of 150 NRPC OCC meeting. The Status of Implementation of Recommendations of Enquiry Committee on Grid disturbances on 30 and 31.07.2012 is not updated by DTL and Delhi Genco's to NRPC.

SLDC Delhi has raised this agenda in previous Delhi OCC Meeting also. Further DGM (SO) has also written letter to all the utilities to provide the details to NRPC with a copy to SLDC.

OCC may deliberate

3.7 Inability of PPCL Bawana for power generation on 12.11.2018 as per the DC.

On dt.-11.11.2018, BRPL had given consent to bring additional half module of CCGT Bawana dedicated to BRPL w.e.f. 07:00 hrs. of 12.11.2018, but Bawana was unable to bring the required generation on bar despite giving of DC of 1050 MW at 07.00 hr., which has led to OD in real time beyond the provided limit. It is still not sure when required generation would be available. PPCL is hereby requested to bring additional module of Pragati Stage dedicated to Bawana as soon as possible. The communication between BRPL,SLDC and PPCL is enclosed as "Annexure-PPCL Bawana DC".

PPCL Bawana, SLDC and BRPL may deliberate

4.BRPL Agenda

1. 220KV Najfgarh

100 MVA PTR's

Station is running on over load condition.

Augmentation of 100 MVA to 160 MVA is to be done before summer 2019.

20 MVA PTR's

All three PTR's are running on overload and local shedding was being carried out in summer 2018.

Augmentation of 2X20 MVA to 2X31.5 is to be done before summer 2019.

2. 220KV Okhla

100 MVA PTR- Damaged

Replacement of damaged PTR is to be done before summer 2019.

Augmentation of 100 MVA to 160 MVA is to be done before summer 2019 to cater load which is on increased trend.

3. 220KV Vasant kunj

160 MVA PTR- Damaged

Replacement of damaged PTR is to be done before summer 2019 to cater the load which is on increased trend and to have redundancy at 220KV level.

4. 220KV Bodella-2

New 220KV Station at Bodella-2

In view of recent summer season there was a necessity for energization of new 220KV station at Bodella-2 which is already an approved scheme at DTL level. Following grids will get benefitted with this scheme and other near by DTL stations will also get benefit of ease of loading.

Bodella-2, G- Matiala, Pankha Road, 220KV Najafgarh, 220KV PPK-2 etc

5. 220KV Lodhi Road

100MVA PTR –Damaged

Third 100 MVA PTR still under damaged condition need to be revive before summer season 2019 to have increased redundancy at 220KV level.

Other Issues

1. 66KV Rewari Line

1. A 66KV Feeder Rewari line to Sagarpur

TPDDL managing load of BRPL (Vishal grid and one 66/11KV PTR at Rewarline) on this feeder feeding from BRPL grid (Sagarpur). We need this load should run on TPDDL incoming source during peak summer season to meet the load of summer season and to relieve overloaded 220KV PPK-1 DTL station.

1. B Delayed response in issuing of PTW form 66KV Rewarline grid.

In case of any outage on feeders isolation and issuance of PTW comes under TPDDL jurisdiction. Most of the time it is taking longer time causing delayed power restoration. TPDDL asked to provide assistance regarding this.

2. DR reports

To study, analyse and to find out the reason of breakdowns we need DR (disturbance record) on need basis on outgoing feeders of TPDDL s/stns. We need continuous support in providing DR report as when BRPL protection team ask for.

3. Relay Setting & coordination

We observed some outgoing feeders from TPDDL running on low load limit settings in comparison to actual capacity of feeder caused unwanted overload tripping. We need transparency and coordination needed on this. Load limit settings need to shared and finalised in mutual consent.

4.TPDDL Agenda

4.1 Clubbing of Shastri park-Pusa cable.

The cable of Shastri Park and Pusa grid will be clubbed under project work. As per today scenario there are 2 no's of ckt at pusa grid i.e. Shastri park ckt-1 and shastri park ckt-2. Both have cable capacity of 3X300 (XLPE). After clubbing the Ckt cable capacity will become 3X300 (XLPE) * 2 , so there will be requirement of revision of CT ratio to 800 amp and relay setting at both ends. BYPL is requested to revise the CT ratio and relay setting.

OCC may deliberate.

4.2 Requirement of complete grid outage by BBMB.

Request for shut down of complete grid of BBMB has been received. During this shut down, complete load of Rohtak road grid is required to be shifted. There are also ckts pertaining to BRPL and BYPL. BRPL and BYPL may share their consent for shifting their load.

OCC may deliberate.

5. Long/Recent Outage/Breakdown of Elements in Delhi power system.

Members to update the latest status of following Long/Recent Outage/Breakdowns of elements in Delhi Power system as under:

S.N	Element's Name	Discom/ DTL	Date and Time of outage	Status of outage as on 19.11.2018
1.	33kV BAY -3 (IP – KILOKARI)	BRPL	22.02.2011	Clearance from Railways for laying down the underground cables near Bhairon road is pending. OCC advised BRPL to inform DTL after awarding of the said work. During the OCC meeting dt.-28.11.2016, It was deliberated that the above work shall be started after joint inspection with Railways.
2.	66kV V.KUNJ INSTL.AREA-RIDGE VALLEY CKT.-I	BRPL	26.03.2017	UNDER SHUT DOWN.
3.	33kV ALAKHNANDA - OKHLA CKT.-I	BRPL	19.04.2018	BREAKER PROBLEM.
4.	33kV RIDGE VALLEY - KHEBAR LANE CKT.-II	BRPL	13.01.2016	'R' PH. SINGLE CABLE FAULTY.
5.	EXHIBITION GROUND-I-33kV INCONNECTOR	BRPL	30.05.2018	CABLE FAULTY.
6.	33kV LODHI ROAD - EXHIBITION GROUND-II CKT.	BRPL	10.10.2017	'R' PH. SINGLE CABLE FAULTY.
7.	33kV OKHLA PH.-II-JAMIA -T-OFF SARAI JULIENA CKT.	BRPL	14.08.2018	T-POINT SIDE JUMPER OPENED.
8.	33kV AMBIENCE MALL – V.KUNJ 'B' BLOCK T-OFF ANDHERIA BAGH CKT.	BRPL	24.10.2018	UNDER SHUTDOWN.
9.	20MVA PR.TR.-I AT VASANT KUNJ 'B' BLOCK	BRPL	16.11.2018	UNDER SHUT DOWN
10.	66kV MUNDKA - NANGLOI CKT.	BRPL	08.05.2017	'B' & 'Y' PH. CABLE FAULTY.
11.	33kV MAYA PURI - REWARI LINE CKT.	BRPL	10.11.2018	LINE ISOLATOR BY PASSED.
12.	66kV PPK -I - BODELLA -I T-OFF PANKHA RD. CKT.	BRPL	18.11.2018	'R' PH. CABLE FAULTY.
13.	220kV WAZIRABAD - 66kV GONDA CKT.-II	BYPL	12.11.2018	'B' PH. CABLE FAULTY.
14.	33kV GURU ANGAD NAGAR - GEETA COLONY CKT.	BYPL	15.11.2018	BOTH CABLES FAULTY
15.	66kV EAST OF LONI ROAD - GONDA CKT.-II	BYPL	16.11.2018	'Y' & 'B' PH. CABLE FAULTY
16.	33kV GEETA COLONY - KANTI NAGAR CKT.-I	BYPL	18.11.2018	'Y' PH. SINGLE CABLE FAULTY
17.	66KV MANGOLPURI-I - T-OFF NANGLOI CKT.	TPDDL	09.03.2018	CABLE FAULTY.
18.	33kV SHAHZADA BAGH - T-OFF RAMA ROAD CKT.	TPDDL	13.04.2018	CABLE FAULTY.

Agenda for Delhi OCC meeting dt.-05.12.2018

19.	220kV NARELA - 33kV AIR KHAMPUR CKT.	TPDDL	02.10.2018	CABLE FAULTY.
20.	220kV PARK STREET - 33kV BAIRD LANE CKT.	NDMC	14.11.2018	'B' PH. CABLE FAULTY.
21.	220/66kV 160MVA PR.TR.-III AT 220kV VASANT KUNJ	DTL	26.04.2018	TRANSFORMER BURNT DUE TO FIRE. TO BE REPLACED.
22.	33kV BUS COUPLER AT KASHMERE GATE	DTL		TRIPPING COIL PROBLEM.
23.	30MVA PR.TR. AT 220kV NARELA	DTL	11.08.2018	TRANSFORMER TO BE DE-CAPITALIZED.
24.	66kV BUS COUPLER AT 220kV PAPPANKALAN-III	DTL	24.06.2018	GAS PRESSURE PROBLEM. TO BE ATTENDED BY PGCIL STAFF.
25.	66kV CAPACITOR BANK AT 220kV NARELA	DTL	11.08.2018	66kV CAPACITOR BANK CELLS BLASTED AT 220kV NARELA. TO BE REPLACED.
26.	220/33kV 100MVA PR. TR.-I AT 220kV RPH STN.	DTL	03.09.2018	TRIPPED ON BUCHOLZ AND DIFFERENTIAL RELAY. PR. TR FAILED.
27.	220/66kV 100MVA PR. TR.-I AT 220kV OKHLA STN.	DTL	27.09.2018	'Y' PH. WINDING DAMAGED. PR. TR. TO BE REPLACED.
28.	400KV TUGLAKABAD - BAMNAULI CKT-I	DTL	12.10.2018	SHUT-DOWN FOR ERECTING TOWER NO.173 AT BAMNAULI. EXPECTED BY 30.12.2018.
29.	NAJAFGARH - 220/66kV 100MVA PR. TR.-I	DTL	24.10.2018	SHUT DOWN FOR COMPLETE OVERHAULING. EXPECTED BY 10.12.2018.
