



No. F.DTL/2018-19/Mgr.(OS)-II/53

Date:24.12.2018

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 9th (2018-19) Delhi OCC Meeting to be held on 27.12.2018 (Thursday) at 2:30 P.M.

Dear sir/madam,

The 9th (2018-19) Delhi OCC meeting is scheduled to be held on dt.- **27.12.2018 (Thursday), 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. 09/18-19

Date : 27.12.2018
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 8th (2018-19) Delhi OCC meeting held on dated 05.12.2018.

The 8th (2018-19) Delhi OCC meeting was held on 05.12.2018 in accordance with the agenda circulated vide letter dt: 29.11.2018. Minutes of the aforesaid OCC meeting were issued vide letter dt.17.12.2018. The same was also uploaded on DTL website.

Members may like to confirm the same.

2. DTL AGENDA POINTS:

2.1 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 has already 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.

In this regard O&M, DTL requested BRPL to draw max. load on 66kV Batra & 66kV Malviya Nagar feeders emanating from Tughlaqabad s/s to ease the load condition at 220kV Okhla & Mehrauli s/stns. In this regard BRPL submitted that 02 nos. feeders namely Okhla & Mohan Co-operative Industrial Area will become operational by March-2019 to maintain the load demand in this area.

BYPL informed that 02 nos. 33kV Dwarkapuri feeders at Preet Vihar will become operational from Feb-2019. It will provide load relief to 220kV South of Wazirabad s/stn.

It was also informed by BRPL that 66kV G-2 ckt from 220kV PPK-III s/stn will become operational by Feb-2019. It will bring load relief to 220kV PPK-1 s/stn.

OCC requested Discoms to provide the status of their ongoing projects to provide the load relief at overloaded s/stns during upcoming summer season. The detail of status of ongoing projects includes:

- (i) Name of Feeder**
- (ii) Route Length (in Kms.)**
- (iii) As on date status of erection/ termination (in Kms.)**
- (iv) Schedule date of completion**

OCC also requested to provide the current status of below mentioned feeders:

- (a) 66kV Okhla & Mohan co-operative Industrial Area at 220kV Tughlaqabad s/s.**
- (b) 66kV Vasant Kunj B-Block ckt at 220kV RK Puram s/s.**
- (c) 66kV G-2 ckt at 220kV PPK-III s/s.**

OCC requested all DISCOMs to expedite for early completion of all pending projects to provide load relief at over loaded s/stns such as 220kV Okhla, Mehrauli, PPK-I, Najafgarh, Kanjhawala, Patparganj, Rohini-I, Shalimarbagh, South of Wazirabad, & Park Street etc.

OCC advised that the issue for load relief to 220kV overloaded s/stns & Transformers has been discussed no. of times in OCC meeting & if load shedding takes place in upcoming summer season then it will be on account of respective DISCOMs.

(DISCOMs may update the latest status)

2.2 Proposed planned shutdowns of O&M, DTL for the month of Jan 2018.

DTL O&M deptt. has proposed the planned shutdowns for the month of Jan-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.

As informed by SLDC, TPDDL & BYPL already submitted required details. OCC requested BRPL, NDMC, DMRC & MES to provide respective details.

(BRPL, NDMC, DMRC & MES may update the latest status)

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.

SLDC informed that TPDDL, BYPL, DMRC and Gencos have already submitted the required details. It was further requested that BRPL, NDMC, & MES to provide the requisite details.

(BRPL, NDMC, & MES may update the latest status)

3.3 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	

DTL has been advised 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.

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 took this issue on serious note & requested all members to put all out efforts to maintain the healthy voltage during low load condition in winter season. DTL/Discoms were advised to control the reactive power injection at their end and also take up the issue with NRLDC to control the over-voltage.

It was informed that DTL has already reduced its Transformer tap position to control voltage at their end. OCC requested all DISCOMs to keep their Transformer Tap position at minimum level to control the system over voltage & maintain the healthy voltage profile at customer end.

OCC requested DMRC to provide the study details and status of reactors to be installed at DMRC end.

(DISCOMs, DMRC & DTL may update the latest status)

3.4 Status of Implementation of Recommendations of Enquiry Committee on Grid disturbances occurred 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.

4. TPDDL Agenda

4.1 Deployment of new communication system at DTL Grid Sub-stns. by TPDDL.

As per the approval of the OCC meeting held on 28.03.2017 at SLDC Building Minto Road (section 10.4), TPDDL have installed their backbone network (WAN) communication equipment at DTL Grid Substn's. This equipment enabled TPDDL to set up Line differential protection of TPDDL from the respective Sub-station. At the same time these equipment's act as Data hub for merging data of other applications like remote metering.

To enable remote metering, it is required to connect Data Collector to IP/MPLS equipment. Accordingly, TPDDL requested DTL to provide necessary permission to install the new equipment (Collector) at rooftop.

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 20.12.2018
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.	20MVA PR.TR.-II AT IIT	BRPL	04.12.2018	UNDER SHUT DOWN.
11.	33kV NIZAMUDDIN - SUPREME COURT CKT.	BRPL	11.12.2018	'Y' PH. SINGLE CABLE FAULTY.
12.	33kV BUS COUPLER AT TUGLAKABAD	BRPL	05.12.2018	'R' PH. CLAMP BLAST. BREAKER BY PASSED.
13.	66kV MUNDKA - NANGLOI CKT.	BRPL	08.05.2017	'B' & 'Y' PH. CABLE FAULTY.
14.	66kV PPK -I - BODELLA -I T-OFF PANKHA RD. CKT.	BRPL	18.11.2018	'R' PH. CABLE FAULTY.
15.	20MVA PR.TR.-III AT HARI NAGAR	BRPL	03.12.2018	UNDER SHUT DOWN.

16.	20MVA PR.TR.-III AT NANGLOI WATER WORKS	BRPL	19.12.2018	Y'PH. CT DAMAGED.
17.	220kV WAZIRABAD - 66kV GONDA CKT.-I	BYPL	05.12.2018	'B' PH. CABLE FAULTY.
18.	220kV PATPARGANJ - 33kV CBD SHAHDRA CKT.	BYPL	05.12.2018	'Y' PH. SINGLE CABLE FAULTY.
19.	66kV VIVEK VIHAR - DSIDC JHULMIL CKT.-II	BYPL	15.12.2018	'Y' PH. SINGLE CABLE FAULTY.
20.	66KV MANGOLPURI-I - T-OFF NANGLOI CKT.	TPDDL	09.03.2018	CABLE FAULTY.
21.	33kV SHAHZADA BAGH - T-OFF RAMA ROAD CKT.	TPDDL	14.12.2018	CABLE FAULTY
22.	220kV NARELA - 33kV AIR KHAMPUR CKT.	TPDDL	02.10.2018	CABLE FAULTY. As informed by TPDDL there is no supply source for this feeder from DTL end.
23.	66kV ROHINI-28 - ROHINI -6 CKT.-II	TPDDL	03.12.2018	CABLE FAULTY
24.	220/66kV 160MVA PR.TR.-III AT 220kV VASANT KUNJ	DTL	26.04.2018	TRANSFORMER BURNT DUE TO FIRE. TO BE REPLACED.
25.	33kV BUS COUPLER AT KASHMERE GATE	DTL		TRIPPING COIL PROBLEM.
26.	30MVA PR.TR. AT 220kV NARELA	DTL	11.08.2018	TRANSFORMER TO BE DE-CAPITALIZED.
27.	220kV TUGLAKABAD - MEHRAULI CKT-II	DTL	11.12.2018	SHUT-DOWN FOR 20 DAYS FOR REPLACEMENT OF ZEBRA CONDUCTOR WITH HTLS.
28.	66kV CAPACITOR BANK AT 220kV NARELA	DTL	11.08.2018	66kV CAPACITOR BANK CELLS BLASTED AT 220kV NARELA. TO BE REPLACED.
29.	220/33kV 100MVA PR. TR.-I AT 220kV RPH STN.	DTL	03.09.2018	TRIPPED ON BUCHOLZ AND DIFFERENTIAL RELAY. PR. TR FAILED.
30.	220/66kV 100MVA PR. TR.-I AT 220kV OKHLA STN.	DTL	27.09.2018	'Y' PH. WINDING DAMAGED. PR. TR FAILED.
31.	400KV TUGLAKABAD - BAMNAULI CKT-I	DTL	12.10.2018	SHUT-DOWN FOR ERECTING TOWER NO.173 AT BAMNAULI.
32.	66kV Bus-I at Mehrauli	DTL	03.12.2018	SHUT-DOWN FOR CONVERTING TWIN ZEBRA TO QUAD ZEBRA.

Additional Agenda

6.1 BRPL Agenda

1. Requirement of stable supply from 220 KV Mehrauli, Any disturbance will impact the supply of DERC chairman Residence.

Few observations and recommendations from this incident happened on 14-12-2018.

1. Share & Discuss 400/220KV EHV lines planned outages a day advance.
2. Transfer/ balance load in coordination with BRPL control room in advance for smooth changeover of load.
3. Share tripping events and possible restoration time line with BRPL control room.
4. Increase redundancy at 220KV levels by keeping load in balanced conditions.

5. Shift staff may be advice to share proper information at the time of tripping which is missing now a days.

The Major disturbance of supply was happened on 14-12-2018

14.12.2018

Supply fail from both 220KV Vasantkunj and 220KV Mehrauli caused huge load disturbance in BRPL area of Vasant Kunj, Mehrauli and JNU etc

DERC chairman shifted in Sector D-1 Vasant Kunj which is feeding through 11 KV Feeder from Andheria Bagh and 220 KV Mehrauli

Interruptions was due to

A. 220KV Mehrauli to Vasant kunj tripped as 400KV Tuglakabad to 220KV Mehrauli one 220KV feeder was running on full load and other feeder was under shutdown.

B. As per DTL 400KV Bamnauli to 220KV DIAL also got tripped during load normalization. This delayed power restoration.

1. At 9:28 Hrs Supply failed from 220 Vasantkunj to Vasant kunj C 1 & C2 feeders.

The following grids were affected due to this (58 MW load)

- Vasantkung B,
- Vasantkunj C,
- Vasantkunj D,
- JNU,
- Andheria Bagh,
- RKP-1,
- ILBS & Ambience mall

2. At 09:33 Hrs, supply of all above grids normalized on incoming on 220KV Mehrauli after reducing 10 MW (RKP-1 was kept in put off condition as DTL asked to reduce loading)

3. At 09:35 Hrs RKP-1 load shifted to 220KV RKP.

4. At 9:37 Hrs Supply failed from 220 Mehrauli to Vasant kunj C 1 & C2 feeders.

The following grids again were affected due to this (48 MW load)

- Vasantkung B,
- Vasantkunj C,
- Vasantkunj D,
- JNU,
- Andheria Bagh,
- ILBS & Ambience mall

5. At this time, all above grid solely depending on 220KV Vasant kunj or 220KV Mehrauli, both down now.

6. At 09:50 Hrs Ambience Mall load diverted to 220KV RKP

7. At 10:15 Hrs supply from 220KV Vasantkunj restored.

8. By 10:25 Hrs all BRPL grid normalized.

OCC may deliberate.

6.2 PWD Agenda

Shutdown request of 220kV D/C Maharani Bagh – Ghazipur T/L for the re-routing of transmission line.

The work of re-routing of 220kV Maharani Bagh – Ghazipur T/L is under progress. However, to complete the work and making the line functional, M/s L&T has requested to provide the shutdown of the line as per following schedule :-

Name of Line	From Date	To Date	Execution plan
220kV D/C Maharani Bagh – Ghazipur T/L	28.12.2018	04.01.2018	Erection of towers at Loc. No. 1A
	10.01.2018	15.01.2018	Stringing of sections 1A to existing Loc. No. 1
	10.01.2018	15.01.2018	Stringing of sections 1E to existing Loc. No. 8

OCC may deliberate.
