



**DELHI TRANSCO LIMITED**  
(A Govt. of NCT of Delhi Undertaking)  
An ISO 9001:2015 certified company  
Office of DGM(T)-OS  
IInd Floor, Park Street Building,  
New Delhi-110001  
Website:-[www.dtl.gov.in](http://www.dtl.gov.in)

No. F.DTL/2019-20/DGM(OS)/F-4/84

Date:-24.01.2020

To,  
**All Members of Operation Co-ordination committee**

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

**Sub: MOM of 10<sup>th</sup> Delhi OCC Meeting (2019-20) held on 17.01.2020 (Friday) at 2:30 P.M.**

Dear sir/madam,

Enclosed please find herewith the minutes of 10<sup>th</sup> Delhi OCC meeting (2019-20) held on dt.-**17.01.2020 (Friday), 2:30 P.M.** in the office of **GM(O&M)-II, Delhi Transco Ltd., 220kV Sub-Stn Park Street, Opp. Talkatora Stadium, Near R.M.L. Hospital, New Delhi-110001**

The same is also available on DTL website, [www.dtl.gov.in](http://www.dtl.gov.in) under the tab "News and Information"-OCC Meeting.

Thanking You.

Yours Sincerely,  
sd/-  
**(Hitesh Kumar)**  
**DGM(OS)**

**Copy for favour of kind information to:**

- (i)Secretary, DERC, Viniyamak Bhawan, C-Block, Shivalik, New Delhi-17
- (ii)CMD, DTL
- (iii)Director (Operations), DTL

**DGM(OS)**  
Page 1 of 10

## **1. Confirmation of the minutes of 9<sup>th</sup> Delhi OCC meeting (2019-20) held on 20.12.2019.**

The 9<sup>th</sup> Delhi OCC meeting (2019-20) was held on 20.12.2019 with the agenda circulated vide letter dt: 18.12.2019. The Minutes of the aforesaid OCC meeting were issued on 02.02.2020 and uploaded on DTL website.

TPDDL Requested to amend **On table agenda no. (3) in MOM of 9<sup>th</sup> Delhi OCC meeting** wherein TPDDL need CB status of all 66/33 kV feeders including transformer incomers at specific DTL substations.

OCC agreed for above and agenda no. (3) amended as under:

**TPDDL requested DTL to provide status of Circuit breakers of 66/33 kV level feeders including transformer incomers at specific DTL substations. Regarding this, DTL agreed to allow the same & requested to TPDDL to provide the specific locations.**

**OCC confirmed the MOM of 9th Delhi OCC meeting of Dec-2019.**

## **2. DTL AGENDA:**

### **2.1 Proposed planned shutdowns of O&M, DTL for the month of February-2020.**

DTL O&M deptt. has proposed the planned shutdowns for the month of February-2020.

**(i) All the proposed shutdowns were approved subjected to real time condition (Keeping in view of lean period for load demand in Delhi System network).**

**(ii) OCC advised that no shutdowns will be availed during Delhi Assembly Elections (i.e. on 08.02.2020 & 11.02.2020) to maintain uninterrupted power supply in Delhi network.**

**(iii) NDMC requested to avail the shutdowns in NDMC related feeders preferably on Saturday/ Sunday after commencement of parliamentary budget session i.e. 11.02.2020.**

## **3. BRPL AGENDA:**

### **3.1 Handing over of 33kV feeders/ Ckts to other Discoms maintained by BRPL grids**

The below mentioned 33kV feeders are feeding the area of stated Discoms & it is maintained by BRPL grids.

#### **(a) NDMC:**

1. 33kV Ridge Valley to AIIMS "T" Off Kidwai Nagar.
2. 33kV Kilori to AIIMS
3. 33kV Sirifort to AIIMS

These feeders are feeding the NDMC area and maintained by BRPL.

#### **(b) MES:**

1. Ridge Valley to Khyber Line Ckt 1 & 2.

- (i) These feeders are feeding the MES area and maintained by BRPL.
- (ii) In the recent past these feeders have been converted to underground feeders but

- subsequently encroached upon by NHAI by constructing drain over the cable.
- (iii) We have written couple of letters to MES that we will not be able to maintain these cables and henceforth these should be maintained by MES.

Over the past many years BRPL is maintaining these feeders and incurring maintenance cost for repairing these feeders whenever it gets faulty.

BRPL requested to NDMC & MES to take over these feeders and maintain at their end.

**OCC deliberated and advised BRPL to call a separate meeting with NDMC and MES planning department to resolve this issue. If required, this matter may be put up before Delhi Steering committee.**

**(Action by BRPL)**

### **3.2 Improvement in data connectivity between DTL grid stations and BRPL SCADA**

Due to recent amendments in DSM regulation (Amendment 4<sup>th</sup> and 5<sup>th</sup>) applicable from 01.01.2019, we need to maintain accurate power scheduling. For this SCADA data is an important tool.

For this we need to establish strong communication system.

(i) It is proposed to establish Secondary link (RF) to increase the reliability and availability of communication between grid and SCADA control center. The secondary link is expected to improve the data connectivity issues and hence reduce the gaps between SCADA drawl data and ABT meter data. RF link shall be deployed though installation of towers at the DTL grid sub-stations.

(ii) Installation of FRTU along with IT rack at following locations.

1. 220 kV RK Puram
2. 220kV PPK-3
3. 400/220kV Mundka
4. 220kV IP
5. 220kV DIAL etc

(iii) Dedicated Port for BRPL to ensure reliable communication of data through ICCP.

BRPL requested to DTL/SLDC to allow and give necessary permission for reliable communication establishment.

**OCC deliberated this matter and requested DTL to convene a meeting with BRPL to explore/ consider the possibilities for establishment of better communication system with BRPL.**

**(Action by BRPL & DTL)**

## **4. BYPL Agenda**

### **4.1 Change in CT ratio at Rohtak Road Grid of TPDDL**

BYPL requested to increase the ratio of CT at Rohtak Road Grid (TPDDL) from 400 Amps to 800 Amps for utilizing the full capacity of 33 kV DMS CKT during summer season.

**During deliberation of this issue, TPDDL shown its limitation in modification of CT ratio because of load constraints at Rohtak Road Grid. In view of this,**

(i) OCC suggested BYPL to implement SPS protection system in 33kV DMS Grid to maintain uninterrupted supply in essential feeders during excessive load on 33kV DMS Ckt.

(ii) OCC requested TPDDL to explore the possibilities of keeping O/C setting of 33kV DMS Ckt at 120% of CTR (If, CT's rating/ specifications allows for it).

(Action by BYPL & TPDDL)

#### 4.2 Allocation of 33kV Pandav Nagar Ckt bay to BYPL from DMS grid.

To meet the summer exigency, It is requested that the underutilized 33kV Pandav Nagar Ckt. from DMS Grid presently allocated to TPDDL may be re-allocated to BYPL so that newly proposed 33 kV feeder from 220kV Dev Nagar may be connected with DMS Grid at this bay location.

OCC advised to put up this agenda in Delhi Steering Committee meeting.

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

Members may 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 17.01.2020
1.	66kV PARK STREET – RIDGE VALLEY CKT.-I	BRPL	01.06.2019	'Y' PH. CABLE FAULTY. BRPL informed that this cable is outlived and contains multiple faults in this cable. RC permit from PWD/NDMC is still awaited due to Republic Day celebration activities. OCC advised BRPL to expedite to revive this faulty feeder.
2.	33kV RIDGE VALLEY - KHEBAR LANE CKT.-II	BRPL	01.06.2019	'Y' PH. Single CABLE FAULTY. Work is held up due to NHA related works. OCC advised to expedite to revive this faulty feeder.
3.	33kV LODHI ROAD - EXHIBITION GR. CKT.-II	BRPL	03.10.2019	'B'PH. 2ND CABLE FAULTY. BRPL informed that dismantling of cable is under progress for rerouting to 33kV ITPU (new grid).
4.	220kV R.K.PURAM - 33kV JNU CKT.	BRPL	09.01.2020	'R' PH. CABLE FAULTY. Expected by today itself.
5.	66kV MUNDKA - NANGLOI CKT.	BRPL	19.12.2019	'Y' PH. CABLE FAULTY. This circuit was under breakdown since 03.02.19 & after revival on 12.12.19 it tripped again on 19.12.19.
6.	220kV PPK-II - 66kV HASTAL CKT.-II	BRPL	02.01.2020	'B' PH. SINGLE CABLE FAULTY. Ckt charged on single cable. Expected by 24.01.2020.
7.	33KV PEERA GARHI - MUKHERJEE PARK CKT-II	BRPL	08.10.2019	'Y' PH. SINGLE CABLE FAULTY. The damaged section of U/G 33kV XLPE cable termination at 220kV Peeragarhi will be revived by DTL through GIS O.E.M. The

				cost of repairing works to be bear by BRPL. <b>As per DTL, the feeder is expected to revive by 28.02.2020.</b>
8.	33kV PEERAGARHI - MADIPUR CKT.	BRPL	01.12.2019	'R' PH. CABLE FAULTY. <b>Ckt charged.</b>
9.	33kV PARSVNATH MALL-KAILASH NAGAR CKT(1ST CABLE)	BYPL	15.10.2019	'R' PH. CABLE FAULTY. <b>Expected by 05.02.2020.</b>
10.	33kV BAY -42 (IP - CONNAUGHT PLACE)	NDMC	05.01.2020	'R'PH. CABLE FAULTY. <b>Approval from PWD is pending. Expected by 31.01.2020.</b>
11.	66kV RIDGE VALLEY - BAPU DHAM CKT.	NDMC	13.01.2020	'Y'PH. CABLE FAULTY. <b>Expected by 31.01.2020.</b>
12.	315 MVA ICT-II at MUNDKA	DTL	29.09.2019	DUE TO FIRE, ICT BURNT. ICT taken over process from Mandola is in progress and will take about 2 months after reaching the site. <b>ICT expected to reach at site by 28.02.2020.</b>
13.	220/66kV 160MVA PR.TR.-III AT 220kV VASANT KUNJ	DTL	26.04.2018	TRANSFORMER BURNT DUE TO FIRE. TO BE REPLACED. <b>Expected to energize by 28.02.2020.</b>
14.	GAZIPUR:- 220/66/33kV 100MVA PR.TR.-I	DTL	22.03.2019	The installation of a new 160MVA Tx is under progress. <b>Expected to energize by 28.02.2020.</b>
15.	220/66 kV 100 MVA Tx-III at NAJAFGARH	DTL	03.10.2019	Installation of new 160MVA Tx is under progress and <b>Expected to energize by 15.02.2020.</b>
16.	220kV MAHARANI BAGH - LODHI ROAD CKT.-I	DTL	20.12.2019	SHUT DOWN FOR HTLS RECONDUCTORING WORK. <b>Expected by 15.02.2020.</b>
17.	KANJHAWALA :- 20MVA TR.-I	DTL	07.01.2020	SHUT DOWN FOR OVERHAULING. <b>Expected by 22.01.2020.</b>

**Note:** DTL informed that M/s Schneider is giving a presentation on GIS working/ handling of Cable termination (in the first week of February-2020) at 220kV Peeragarhi S/stn. DTL requested to all interested/ concerned members to attend this presentation.

## **Additional Agenda**

### **1. SLDC Agenda:-**

#### **1.1 Implementation of Automatic Demand Management Scheme by Discoms.**

Refer S.No. 2.2 of 20th GCC MoM wherein NDMC had informed that their software for ADMS has been upgraded and under testing and work is linked with the IPDS project, for which efforts shall be made to complete at the earliest.

**NDMC apprised OCC that the works related to ADMS are under process and expected to be completed by 31.03.2020.**

**(Action by NDMC)**

## 1.2 Survival of Local Island at GTPS/ Pragati.

During 20th GCC meeting as per MoM at S.No. 2.4 (9.12) following was discussed:-

“BYPL representative raised the issue of survival and subsequent synchronizing of local islanding at GT/ Pragati.

GCC advised DTL to carry out a joint visit with Discoms and IPGCL/ PPCL to analyze the requirements for sustaining Local Island at GT station”. -

The matter was deliberated in the 12th (2018-19) Delhi OCC meeting held on 28.03.2019 and a committee comprising of following members was constituted for carrying out the above desired work at Pragati:-

- (i) Sh. Satyendra Prakash, AGM(Elect./C&I), PPS-I, PPCL.
- (ii) Sh. Hitesh Kumar, DGM(OS), DTL.
- (iii) Sh. B.L. Gujar, DGM (Prot.), DTL.
- (iv) Sh. Deepak Kumar, AM(T)-Pragati, DTL.

In 9<sup>th</sup> Delhi OCC meeting (2019-2020), the Committee informed that 220 kV Pragati O&M (DTL) and PPCL will execute the arrangement in consultation with protection department. This scheme is expected to be implemented by 15.01.2020.

**Regarding this, DTL/ PPCL informed that the execution works are under progress & expected to be completed by 31.01.2020.**

**OCC advised to expedite the works.**

**(Action by DTL & PPCL)**

## 1.3 High Voltage Operation of the Grid during winter nights.

The High Voltage issues have been faced in Delhi System. This is because of decrease in demand in recent month especially in night hours. During past winter season, it has been observed high voltage conditions and injection of reactive power to the grid causing heavy penalty in NRPC reactive account.

Following steps were in practice 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.
- 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.

(a) The details of NRPC reactive account from 01.04.19 onwards are as under:

**(All figures are in Lakhs)**

S. No.	Month-2019	Payable (Approx.)	Receivable Approx.)
1	April	3.98417	2.81436
2	May	19.04866	4.72369
3	June	0	42.7036
4	July	9.95309	39.25774

5	August	27.1466	1.10855
6	Sept	80.84053	0.49756
7	Oct	330.368	0
8	Nov	308.35	0
<b>Total</b>		<b>779.69105</b>	<b>91.1055</b>

(b) The details of Reactive energy charges of Delhi DISCOMs for FY 2019-20:

S. No.	Month-2019	Billed Amount (in Rs.)					
		DISCOM	BYPL	BRPL	TPDDL	NDMC	MES
1	April	1191712	6767136	5250900	199216	234987	157804
2	May	1254743	2028028	1879780	241483	186963	142202
3	June	532440	2208118	1421653	926695	315665	70151
4	July	-137750	2740645	1258528	1109467	305327	93512
5	Aug	855776	1889133	1504274	492767	368779	106967
6	Sept	279473	2083766	2090407	618613	313853	113680
7	Oct	2172376	6449528	8461519	133980	151061	-3204
<b>Total</b>		<b>61,48,770</b>	<b>2,41,66,354</b>	<b>2,18,67,061</b>	<b>37,22,221</b>	<b>18,76,635</b>	<b>6,81,112</b>

The 15 nos. of 220 kV lines were switched off on daily basis at night hours whereas 22 nos. of 66 kV ckts of BRPL & 32 Nos of 66 kV and 33 kV ckts of BYPL were also opened.

**As depicted above reactive penalties on DISCOMs, OCC requested to DISCOMs to find ways to limit reactive power injection in system and consider the installation of shunt reactors in their respective areas.**

**OCC requested to DTL to expedite the installation of Reactors as suggested by CEA.**

**OCC advised to call DMRC in next OCC for feasibility of switching of U/G cables in DMRC system to maintain voltage profile in certain areas.**

**(Action by DISCOMs, DTL & DMRC)**

## **2. DTL Agenda:-**

### **2.1 Shutdown of 100 MVA-II at 220 kV S/Stn Najafgarh**

It is submitted that as a part of summer action plan 2020, 02 nos. 100MVA 220/66 kV Power transformers are to be replaced with 160MVA power transformer at 220/66 kV Najafgarh by 31<sup>st</sup> March 2020. Augmentation work of one no. 100MVA Power Transformer -III is already under progress at 220/66 kV Najafgarh and it is likely to be commissioned by Mid Feb 2020. In order to meet the above target of commissioning of both transformers by March 2020, shutdown Proposal of 100 MVA transformer-II was put up before OCC on 20.12.2019 and same was also approved by OCC with effect from 05.01.2020. However, in real time, system operation SLDC refused the shutdown as BRPL failed to shift the load from 220/66 kV Najafgarh S/stn due to constraints at their end. It was informed by BRPL vide e-mail dated: 06.01.2020 that they have following constraints in providing this shutdown:

(1). 400/220KV Mundka- NWW U/G cable faulty.

(2). 220KV PPK-2 to Hastal U/G cable faulty.

Further to explore the possibility of above shutdown , a meeting was held in the office of GM(O&M)-I on 08.01.2020 with BRPL and System Operation SLDC wherein it was decided that BRPL will make all out effort to revive the aforesaid faulty feeders so that above shutdown may be availed . Now, it has been gathered that 400/220KV Mundka-NWW has been revived by BRPL on 10.01.2020.

It is pertinent to mention here that aforesaid shutdown of 100 MVA Trf-II is urgently required till 31<sup>st</sup> March (tentative) to avoid contractual complications including financial implications because of expiry of extended time period of the contract.

**During deliberation, BRPL shown its limitation to allow above shutdown in view of:**

**(i) Delhi assembly election, as continuity & reliability of electric supply need to be maintained.**

**(ii) 66kV Mundka-Nangloi Ckt which caters the load of Najafgarh area is still under breakdown.**

As of now, the load of above Ckt is feeding through a temporary arrangement at 66kV Mangolpuri-Nangloi Ckt (belongs to TPDDL). On this Ckt an extra margin of 20MW needed at BRPL end. However, TPDDL did not agree for this as they are unable to shift the load of this area.

DTL insisted that, to maintain uninterrupted supply in Najafgarh area in coming summer season above augmentation work shall be completed during Jan-March month period (a lean period for load demand in this area).

In view of above, OCC advised BRPL to expeditiously revive the faulty feeders or transfer its load within one week period so that this proposed DTL shutdown can be availed without any further delay. OCC approved the shutdown from 20.01.2020 subjected to system real time condition/availability to be ascertained by SLDC.

**(Action by BRPL & DTL)**

**2.2 Shutdown of 100MVA Tx-I at 220kV Sarita Vihar S/stn scheduled from 20.01.2020 for replacement of this Tx with a new 160MVA Tx.**

SN	Date of S/D	Duration	Name of the Element	Work Done	Remarks
1	1/20/2020 to till the commissioning of new 160MVA Pr Tx	Continuous	100MVA-I along with 66KV I/C-I	Replacement of 100MVA power transformer no. I with new 160MVA power transformer of BHEL make	Load will be managed through 100MVA Tx-2 & 3.

**This shutdown was deliberated & approved by Delhi OCC from 20.01.2020 as per consent given by BSES. This shutdown may be provided subjected to system real time condition.**



## On-Table Agenda

### (1). Shutdown of 220kV Lodhi Road-Maharani Bagh Ckt-II

S.No	Name of Line	Start of Shutdown	Finish
1	Lodhi Road-Maharani Bagh Ckt-II.	30.01.2020	15.03.2020

DTL (Project deptt) apprised OCC that work related to system strengthening/ HTLS reconductoring in 220kV Lodhi Road-Maharani Bagh Ckt-I is under progress & expected to be completed in last week of this month.

**DTL requested for shutdown of 220kV Lodhi Road-Maharani Bagh Ckt-II for HTLS reconductoring works as above.**

**OCC approved this shutdown for the period of 01.02.2020 to 28.02.2020 (subjected to completion of HTLS reconductoring in 220kV M.Bagh-Lodhi Road Ckt-I).**

(Action by DTL)

### (2). Shutdown of 220kV Pragati-Maharani Bagh Ckt & Pragati-Sarita Vihar Ckt at 220kV Pragati sub-station.

DTL (Project deptt) working for strengthening of foundation of OET support structure at Pragati Power substation & trench excavation works for Laying, testing & commissioning of 220kV U/G 1x1000 Sq.mm. U/G XLPE Cable (Twin Cable). So, according to above plan we are requesting shutdown for both ckt as under:-

S.N	Name of Line	Start of shutdown	Finish
1.	220kV Pragati-Maharani Bagh Ckt	01.02.2020	22.03.2020
2.	220kV Pragati-Sarita Vihar Ckt	01.02.2020	22.03.2020

**OCC advised that to maintain system reliability, above shutdown shall be availed as one ckt at a time. OCC approved shutdown for Pragati-Maharani Bagh Ckt from 01.02.2020-22.03.2020. OCC advised to DTL to expeditiously complete the work to avail shut down on other circuit. Therefore, the shutdown of Pragati-Sarita Vihar Ckt will be availed alternatively later on during this period.**

(Action by DTL)

### (3). Emergency shutdown for LILO of PPK-III-Naraina & PPK-III-PPK-I 220kV line at Dwarka Sub-Station.

S.N	Name of Lines	Date of S/D	Time & Duration	Work to be carried	Remarks
1	220kV PPK-III to Naraina Line	20.01.20 to 21.01.20	Cont.	Switchover to ERS of 220kV PPK-III-Naraina line at 400/220kV Dwarka Sub-station for LILO	During the joint meeting with PGCIL on 07.01.2020 it was decided that 400/ 220kV GIS Dwarka substation shall be charged through downstream LILO of existing 220kV PPK-III to PPK-I line &
2	220kV Bamnauli to PPK-I Ckt-I&II	22.01.20 to	Cont.	1). Shifting of 220kV Bamnauli to PPK-I	20kV PPK-III to Naraina line at Dwarka.

	220kV PPK-III to PPK-I Line	28.02.20		(Ckt I&II). 2). LILO of 220kV PPK-III to PPK-I line and 220kV PPK-III to Naraina Line.	During LILO these three Ckt shall be kept under S/D and remaining one Ckt PPK-III to Naraina shall be kept charged on ERS to cater load of 220kV PPK-I.
--	-----------------------------	----------	--	---	---

The proposed shutdown for LILO works in (1) 220kV PPK-III - Naraina, (2) 220kV PPK-III-PPK-1 Lines (including shifting of 220kV Bamnauli-PPK-I Ckt-1&2) during 23.01.2020 to 28.02.2020 deliberated & OCC approved this shutdown with consent of BRPL.

OCC approved this shutdown in following manner:

- (1) 220kV PPK-III-Naraina on 23.01.2020 for 02 days (for erection of ERS on this Ckt).**
- (2) 220kV PPK-III-PPK-1 along with Bus-1 thereafter Bus-2 on 24.01.2020 (to execute T-Off of PPK-III-PPK-1 to PPK-III-Naraina Lines).**
- (3) 220kV PPK-III-PPK-1 & 220kV Bamnauli-PPK-I Ckt-1&2 from 27.01.20 to 28.02.20 (for above LILO related works & shifting of BML-PPK-I D/C lines).**

\*\*\*\*\*