



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

No. F.DTL/2020-21/DGM (OS)/ OCC /37

Date:-06.11.2020

**Subject: 6th Meeting of Delhi Operation Coordination Committee (2020-21)
- Minutes of Meeting.**

The 6th meeting of Delhi Operation Coordination Committee (OCC) was held on 28.10.2020 (Wednesday), 11:00 A.M and conducted through online mode.

The Minutes of Meeting are enclosed for information and necessary action.

Minutes of Meeting are also available on DTL website, www.dtl.gov.in under the tab “News and Information”-OCC Meeting.

Thanking You.

Sincerely yours,

---Sd/--

(Hitesh Kumar)

Dy. General Manager (OS)

Delhi Transco Limited

Copy for favor of kind information to:

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

Dy. General Manager (OS)

To all members - - As per list enclosed - -

6th Meeting of Delhi Operation Coordination Committee (2020-21)- Minutes of Meeting

Distribution List:

DTL	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.)
SLDC	General Manager (SLDC) DGM (SO)
TPDDL	HOD (PSC &AM), Sr. Manager (PSC)
BRPL	VP, AVP (SO)
BYPL	VP, 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	GM (Traction), Sr.DGM (Traction)
GMR(DIAL)	GM(DIAL)
N. Railways	Sr. DEE (TRD)

Minutes of 6th Delhi OCC Meeting held on 28.10.2020

Date :	28.10.2020
Time:	11:00 AM
Venue:	Online Via Video conferencing 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

Chairman, OCC welcomed the members and commended on the efforts to maintain uninterrupted power supply in Delhi network despite the ongoing Covid-19 pandemic. He mentioned about the low load condition in Delhi network in winter season & challenges of High voltage condition and reactive power injection in system. OCC members were requested to put all efforts to maintain voltage profile at various levels and take measures to control reactive power injection in system. It was also stated that lean load period has started and all efforts should be made for carrying out maintenance activities as per respective preventive maintenance schedule or up-gradation of equipments as per requirements.

- **Review of Grid operations of September-2020**

In comparison with September-2019 power demand, there was negative variation in the peak demand 6231MW (-8.01%) in September-2020 & total energy consumption in month of September-2020 is 3342.312MUs (-3.47%) for Delhi System. The negative variation indicates the impact of lockdown imposed due to pandemic COVID-19.

- **Planning of Grid operation for November-2020**

SLDC Delhi informed that, anticipated peak demand for November 2020 is 3550MW and expected availability is 5380 MW (Surplus +1830 MW). Anticipated maximum energy requirement for a day is 63MUs and expected availability is 124MUs (Surplus +61MUs).

List of participants is enclosed as Annexure-I.

1. Confirmation of minutes of 5th Delhi OCC meeting (2020-21) held on dated 24.09.2020.

The 05th Delhi OCC meeting (2020-21) was held on 24.09.2020 through video conferencing in accordance with the agenda circulated vide letter dt: 21.09.2020. Minutes of the aforesaid OCC meeting were issued on 09.10.2020 and the same was also uploaded on DTL website.

Members confirmed the Minutes of 5th OCC Meeting.

2. Updating of communication details of nominated members of Delhi OCC.

As per S. No. 2 of MOM of 3rd OCC meeting dt:24.07.2020 members/participants were requested to update communication details of nominated representatives. As of now BRPL, BYPL, DMRC & TPDDL has updated the relevant details.

S.N	Name of Utility	Designation	Name of Officer	Mobile No.	E-Mail	Corresponding Office Address
1	BYPL	Vice President	Sh. Jitendra Nalwaya	8467887272	jitendra nalwaya/rel/relianceada@info comm	BSES Yamuna Power LTD. Scada Control Room , 2nd Floor, Shankar Road, Delhi - 110060
2	BYPL	Dy. GM	Sh. Som Dutt Sharma	9312782457	som dutt/rel/relianceada@infocomm	BSES Yamuna Power LTD. Scada Control Room , 2nd Floor, Shankar Road, Delhi - 110060
3	BYPL	Asst. Vice President	Sh. Sushil Sharma	9312725633	sushil k sharma/rel/relianceada@infocomm	BSES Yamuna Power LTD. Scada Control Room , 2nd Floor, Shankar Road, Delhi - 110060
4	TPDDL	Addl. GM	Sh. Lalit Wasan	9971316492	lalit.wasan@tatapower-ddl.com	66 KV PP3 Grid S/Stn building Pitampura, Delhi – 110034
5	DMRC	GM/ Traction	Sh. Subodh Pandey	9958097178	subodh_dmrc@yahoo.com	DMRC, Metro Bhawan, New Delhi
6	DMRC	Sr.DGM/ Traction	Sh. Chandrakant Shrivastava	9717497427	chandrakant271170@gmail.com	DMRC, Metro Bhawan, New Delhi
7	BRPL	Vice President	Sh. Salil Saxena	9350582556	salil.saxena@relianceada.com	BRPL SCADA Control Centre, 2nd Floor, 33 kV Balaji Grid Sub-stations, Kalkaji.
8	BRPL	DGM	Sh. M. Kishore Babu	8178347059	miriyala.babu@relianceada.com	BRPL SCADA Control Centre, 2nd Floor, 33 kV Balaji Grid Sub-stations, Kalkaji.
9	BRPL	Asstt. Vice President	Sh. Abhishek Ranjan	9555290403	abhishek.r.ranjan@relianceada.com	BRPL SCADA Control Centre, 2nd Floor, 33 kV Balaji Grid Sub-stations, Kalkaji.

OCC advised NDMC, MES, IPGCL, PPCL & BBMB to update and submit the details in prescribed format to the convener.

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3. DTL AGENDA:

3.1 Proposed planned shutdowns of DTL for the month of November-2020.

All proposed planned shutdowns for the month of November-2020 discussed in detail by OCC members (Annexure-I).

OCC Chairman advised all the utilities to plan maintenance/up-gradation/replacement activities in lean load period as per respective maintenance plans in preparation of meeting the load requirements of next summer season.

- i. After detailed discussion with members, OCC approved planned shutdowns subject to real time conditions as per the attached Annexure.
- ii. Shutdown on 220kV Sarita Vihar-Maharani Bagh Ckt & Sarita Vihar-Pragati Ckt has been approved from 01.11.20-05.11.20 in a single slot for PWD related works. PWD will ensure to clear the shutdown as soon as possible in case any exigency arise in the system on real time basis.
- iii. DMRC requested DTL to avail shutdowns on DMRC feeders preferably on Saturday/ Sunday.

3.2 Status of joint checking of Overhead Power Line crossings with Northern Railways representatives by DTL & DISCOMs.

In the 2nd Delhi OCC meeting (2020-21), committee suggested all utilities to conduct the survey in 1st fortnight, July-2020 & share the details with OCC. OCC further advised Discoms, DTL & Northern Railways to conduct joint survey of the power lines on regular basis.

In 4th OCC meeting on 24.08.20, DTL/O&M North & East informed about completion of survey & details shared with OCC. During this meeting, Northern Railway DEE/TRD raised a concern regarding very bad condition of 33 kV Feeder at Okhla-NZM Line of BRPL and jumpers are in damaged condition & may fall on the track. DEE/TRD updated on 28.10.20, the joint checking of Okhla-NZM feeder is done, but the issue jumpers in this line is not resolved yet. OCC requested BRPL to attend the issue at earliest.

In 5th OCC meeting on 24.09.20, Northern Railway DEE/TRD Delhi division informed that survey of the 12 Overhead Transmission lines out of 27 line has been completed, however survey of 15 lines still pending. OCC advised all utilities to complete the pending survey of lines/ take remedial actions and share the status in next OCC meeting.

DEE/TRD informed that 07 lines are pending for survey (Details attached as annexure-II). DEE/TRD requested to dismantle the overhead crossing at SP Marg KM 10/17-18 & 10/19-20 if the section is not used. NDMC representative replied to look into and revert back. DEE/TRD also requested to provide communication details for SSB-NO lines. It was informed by TPDDL/BRPL that a line emanating from BBMB Rohtak Road feeding to Haryana probably belongs to HVPNL and they may be approached.

Further, OCC advised all utilities to complete the pending survey of lines/ take remedial actions and share the status in next OCC meeting.

List of O/H power lines pending for joint survey is:

SN	Depot	Section	Location	Voltage	Supply Authority	Last joint checking	Contact Person
1	NUR	BHD-NUR	15/15-17, 16-18	66kV	TPDDL	08.06.2018	Sh. Anil Thakur, ADEE/TRD/Panipat, 9729531320, Sh. Sanjay Uppadhyay, SSE/OHE/Narela, 9717648532
2	NUR	BHD-NUR	22/9-11, 10-12	400kV	DTL	18.10.2016	
3	NDLS	ANDI-BHD	11/15-11/17	66kV	TPDDL	20.03.2018	Sh. Bikarmjeet Singh, ADEE/TRD/New Delhi, 9717631320, Sh. Ravinder, SSE/OHE/New Delhi 9717648532
4	TKD	HNZM-TKJ/SSP	1532/39 G-41G	33kV	BSES	26.03.2016	Sh. Shyamlal, ADEE/TRD/Faridabad, 9717632607, Sh. Pradeep Chaudhary, SSE/OHE/TKD 9717632847
5	TKD	HNZM-TKJ/SSP	1532/41 G-43G	33kV	BSES	26.03.2016	
6	PTNR	DBSI-DAZ	25/11-12, 25/11-12A	33kV	TPDDL	04.03.2015	Sh. Sunil Singh, ADEE/TRD/Patel Nagar 9717631312 Sh. Ajay Kasana, SSE/OHE/Patel Nagar 9971265266
7	BGZ	SSB-NNO	15/9-11, 15/10-12	66kV	BSES	07.12.2016	Sh. Shyamlal, ADEE/TRD/Faridabad, 9717632607, Sh. Pradeep Chaudhary, SSE/OHE/TKD 9717632847

3.3 Overcoming the high voltage issue in 400kV Bamnauli Jhatikara Ckt

O&M/Bamnauli informed that 400kV Bamnauli- Jhatikara Ckt No.1 tripped on Over Voltage from Bamnauli end at 20:14 hrs dated 21/10/2020. It was observed that the voltage of B- Phase was 112% of rated voltage & continued for 06 seconds.

During the upcoming DTL's shutdown period of 400 kV Tughlakabad –Ballabgarh D/C line the load of 400 kV Tughlakabad break off from 400kV Ballabgarh S/stn and all load will be feed from 400kV Bamnauli through 765kV Jhatikara only. In this case if Bamnauli-Jhatikara-1 tripped on over voltage this will overload Bamnauli- Jhatikara Ckt-2 and interruptions in electrical power flow in the Ring system due to tripping of 400 kV Bamnauli- Jhatikara- I tripped on Over Voltage at Bamnauli end. To avoid the over voltage situation during the shutdown and upcoming winter season, the voltage may be regulated at 765 kV Jhatikara substation.

OCC advised DTL/Bamnauli to check/test 400kV CVT and compare the testing results with the initial data found during commissioning of equipment. Further, OCC advised SLDC to maintain the voltage profile within limits.

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OCC requested DTL to put up planned shutdown of 400kV Tughlakabad-Ballabhgarh D/C in upcoming NRPC OCC meeting.

4. SLDC AGENDA:

4.1. 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 has informed in 02nd OCC meeting (2020-21) that the works related to ADMS are under process and expected to be completed by 30.09.2020.

NDMC informed that the work related to ADMS are under progress.

(Action by NDMC)

4.2 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. B.L. Gujar, DGM (Prot.), DTL.
- (iii) Sh. Bharat Tiwari, MGR(OS), DTL
- (iv) Sh. Deepak Kumar, AM(T)-Pragati, DTL.

In 04th Delhi OCC meeting (Aug-2020), DTL representative informed that the control cable laying work assigned to DTL has been completed on 31.07.2020 . PPCL/Pragati representative informed OCC about availability of spare items by the end of August-2020 & work will be executed by 30.09.2020.

In 5th Delhi OCC meeting (Sep-2020), PPCL/Pragati informed OCC about installation of meter at site & connection of meter will be completed after the visit of DTL/Protection.OCC advised to expedite the remaining work & to complete the work by 12.10.2020.

The committee was requested to give the status/ progress of work to the OCC forum on following :

- 1). Status of work completed.
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- 2). Status of work left or hindrances causing delay.
- 3). Final schedule date of completing the work so that local island at GTPS/ Pragati shall survived during the tripping.

It was informed that installation work has been completed. PPCL/Pragati requested DTL/Protection to visit the site for finalization & execution of control wirings.

OCC advised DTL & PPCL to plan a meeting by next week and complete the pending works before next OCC.

(Action by DTL & PPCL)

4.3 Submission of break up energy consumption by the state.

In NRPC OCC meeting all SLDCs were requested to provide the break up energy consumption by the state by segregating the same from the billed data from DISCOMs in the format as prescribed below:

Category	Consumption by Domestic load	Consumption by Commercial load	Consumption by Agricultural load	Consumption by Industrial load	Tractio n supply load	Miscella neous /Others
Month						

Report submission status:

DISCOM	BRPL	BYPL	TPDDL	MES	NDMC
Submitted up to	up to August-20	up to Sep-20	up to Sep-20	up to Sep-20	No information received

NDMC & BRPL are requested to give the details up to September- 2020 on monthly basis.

OCC advised all utilities to provide data to SLDC in the prescribed format on regular basis without failure.

(Action by DISCOMs)

4.4 Regular submission of progress of capacitor installation programme by state utilities.

In 176th NRPC OCC meeting, the agenda was discussed for submission of progress of Capacitor installation programme by State utilities.

As per Central Electricity Authority (Furnishing of Statistics, Returns and Information) Regulations, 2007 mandates for submission of multiple types of data to Central Electricity Authority in the format as specified in the regulations. One of the information pertains to the submission of Progress of Capacitor Installation Program

by State utilities to RPCs which are thereafter required to compile and submit the data to CEA.

All the utilities are advised to furnish the information to NRPC Secretariat in the Format-35 of the said regulation latest by 10th of every month. The format 35 is as under.

FORMAT-35
PERIODICITY- MONTHLY
SUBMISSION BY- 20TH DAY

Progress of Capacitor Installation Programme in Region for the month of

(All figures in (MVAR))

Name of the Constituents	Total installed as on (previous year)	Requirement during (current year)	Constituent's programme during (current year)	Actual addition during the current month	Faulty Capacitors removed during the current month	Total addition during the current year
1						
2						
3						
4						
5						
6						
.						
.						
.						
.						
.						
Total Region						

FORMAT-25 RPCs

In line with the NRPC directions SLDC needs to submit the capacitor progress report before 10th of every month. It is therefore requested to Discoms to submit the capacitor progress report before 5th day of every month.

OCC advised all utilities to update and submit the details in prescribed format to the SLDC. The capacitor details to be provided to SLDC on monthly basis before 5th day of every month.

(Action by DISCOMs)

4.5 High voltage issues in Delhi network.

The High Voltage issues have been faced in Delhi System. This is because of decrease in power demand in Delhi area. During past winter season, it has been observed high voltage conditions and injection of reactive power to the grid resulting into payment of heavy penalty to be given by Delhi system to NRPC reactive account.

The details of NRPC reactive weekly account for Delhi from 31.08.20 to 04.10.20 are as under:

Week No.	From	To	Payable (Rs in Lakhs)	Receivable (Rs in Lakhs)
23	31.08.20	06.09.20	18.68	0

24	07.09.20	13.09.20	13.68	0
25	14.09.20	20.09.20	6.48	0
26	21.09.20	27.09.20	10.30	0
27	28.09.20	04.10.20	27.99	0

Following steps were in practice to control the high voltage/ injection of reactive power.

- (i) Switching off the capacitors at all the Substations of Delhi.
- (ii) Transformer taps optimization by DTL and DISCOM.
- (iii) Monitoring of all 400/220kV ICTs and taking actions wherein VAR flows are observed from 220kV to 400kV side. In this respect reactive energy changes could also be monitored.
- (iv) Opening of lightly loaded transmission cables/ transmission lines keeping reliability in focus.
- (v) Absorption of reactive power by generating units.

(a) Action Plan for Winter Preparedness 2020-21.

i) The tap positions of Transformers/ ICTs are required to optimize up to extent to control high voltage & reactive power injection in system.

The Current Tap position details of 400/220kV ICT's in Delhi control has been shared to NRLDC in NRPC meeting held on 15.10.2020 for proper co-ordination which are as under:

Tap position Details of ICTs on 14.10.2020

Sl No.	Station Name	Owner	Voltage Ratio (kV)	Equipment	ICT details (MVA)	Configuration	TT	NT	PT
1	BAMNAULI	DTL	400/220	ICT 01	1*315	Y-Y	17	9	9B
2	BAMNAULI	DTL	400/220	ICT 02	1*500	Y-Y	17	9	9B
3	BAMNAULI	DTL	400/220	ICT 03	1*500	Y-Y	17	9	9B
4	BAMNAULI	DTL	400/220	ICT 04	1*315	Y-Y	17	9	9B
5	BAWANA	DTL	400/220	ICT 01	1*315	Y-Y	17	9	9B
6	BAWANA	DTL	400/220	ICT 02	1*315	Y-Y	17	9	9B
7	BAWANA	PGCIL	400/220	ICT 03	1*315	Y-Y	17	9	9B
8	BAWANA(CCGT)	DTL	400/220	ICT 04	1*315	Y-Y	17	9	9B
9	BAWANA(CCGT)	DTL	400/220	ICT 05	1*315	Y-Y	17	9	9B
10	BAWANA(CCGT)	DTL	400/220	ICT 06	1*315	Y-Y	17	9	9B
11	MUNDKA	DTL	400/220	ICT 01	1*315	Y-Y	17	9	9B
12	MUNDKA	DTL	400/220	ICT 03	1*315	Y-Y	17	9	9B
13	MUNDKA	DTL	400/220	ICT 04	1*315	Y-Y	17	9	9B
14	HARSH VIHAR	DTL	400/220	ICT 01	1*315	Y-Y	17	9	9B
15	HARSH VIHAR	DTL	400/220	ICT 02	1*315	Y-Y	17	9	9B
16	HARSH VIHAR	DTL	400/220	ICT 03	1*315	Y-Y	17	9	9B

The current Tap position details of 220/66kV and 220/33kV Power Transformers (as on 22.10.20) are as under:

S. No.	Name of the Element	MVA rating of ICT	Total tap	Normal tap	Present tap position
	400kV Bawana S/S				
1	220/66kV 100MVA Tx	100	17	5	3
	400kV Mundka S/S				

S. No.	Name of the Element	MVA rating of ICT	Total tap	Normal tap	Present tap position
2	220/66kV 160MVA Tx-II	160	17	5	3
3	220/66kV 160MVA Tx-III	160	17	5	3
	220kV Narela S/S				
4	220/66kV 100MVA Tx-I	100	17	5	5
5	220/66kV 100MVA Tx-II	100	17	5	5
6	220/66kV 100MVA Tx-III	100	17	5	5
	220kV Rohini S/S				
7	220/66kV 100MVA Tx-I	100	17	5	3
8	220/66kV 100MVA Tx-II	100	17	5	3
9	220/66kV 100MVA Tx-III	100	17	5	3
10	220/66kV 100MVA Tx-IV	100	17	5	3
	220kV Patparganj S/S				
11	220/66kV 100MVA Tx-I	100	1-17	5	3
12	220/66kV 100MVA Tx-II	100	1-17	5	3
13	220/33kV 100MVA Tx-I	100	1-17	5	5
14	220/33kV 100MVA Tx-IV	100	1-17	5	S/D
15	220/33kV 100MVA Tx-III	100	1-17	5	5
	220kV Pragati S/S				
16	220/66kV 160MVA Tx-I	160			1
17	220/66kV 160MVA Tx-II	160			1
	220kV Gazipur S/S				
18	220/66kV 160MVA Tx-I	160	17	5	3
19	220/66kV 100MVA Tx-II	100	17	5	3
20	220/66kV 160MVA Tx	160	17	5	3
	220kV Wazirabad S/S				
21	220/66kV 100MVA Tx-I	100	17	5	5
22	220/66kV 100MVA Tx-II	100	17	5	5
23	220/66kV 100MVA Tx-III	100	17	5	5
24	220/66kV 160MVA Tx-IV	160	17	5	5
	220kV Okhla S/S				
25	220/66kV 160MVA Tx-I	100	1-17	5	3
26	220/66kV 100MVA Tx-II	160	1-17	5	3
27	220/33kV 100MVA Tx-III	100	17	5	3
28	220/33kV 100MVA Tx-IV	100	17	5	3
29	220/33kV 100MVA Tx-V	100	17	5	3
	220kV Sarita Vihar S/S				
30	220/66kV 160MVA Tx-I	100	17	5	3
31	220/66kV 100MVA Tx-II	100	17	5	3
32	220/66kV 100MVA Tx-III	100	17	5	3
	220kV Vasant Kunj S/S				
33	220/66kV 100MVA Tx-I	100	17	5	3
34	220/66kV 100MVA Tx-II	100	17	5	3
35	220/66kV 160MVA Tx-III	160	17	5	3
	220kV Najafgarh S/S				
36	220/66kV 100MVA Tx-I	100	17	5	5
37	220/66kV 160MVA Tx-II	160	17	5	5
38	220/66kV 160MVA Tx-III	160	17	5	5
39	220/66kV 100MVA Tx-IV	100	17	5	5
	220kV Park Street S/S				
40	220/66kV 100MVA Tx-I	100	1-17	5	4
41	220/66kV 100MVA Tx-II	100	1-17	5	4
42	220/33kV 100MVA Tx-I	100	1-17	5	5
43	220/33kV 100MVA Tx-II	100	1-17	5	5
	220kV Kanjhawala S/S				
44	220/66kV 100MVA Tx-I	100	17	5	5

45	220/66kV 100MVA Tx-II	100	17	5	5
46	220/66kV 160MVA Tx-III	160	17	5	5
220kV Pappankalan-II S/S					
47	220/66kV 100MVA Tx-I	100	17	5	5
48	220/66kV 100MVA Tx-II	100	17	5	5
49	220/66kV 160MVA Tx-III	160	17	5	5
50	220/66kV 160MVA Tx-IV	160	17	5	5
220kV Pappankalan-I S/S					
51	220/66kV 100MVA Tx-II	100	17	5	5
52	220/66kV 100MVA Tx-IV	100	17	5	5
53	220/66kV 160MVA Tx-III	160	17	5	5
54	220/66kV 160MVA Tx-V	160	17	5	5
220kV Mehrauli S/S					
55	220/66kV 100MVA Tx-I	100	17	5	3
56	220/66kV 100MVA Tx-II	100	17	5	3
57	220/66kV 100MVA Tx-III	100	17	5	3
58	220/66kV 160MVA Tx-IV	160	17	5	3
220kV Gopalpur S/S					
59	220/66kV 160MVA Tx-II	160	1-17	5	4
60	220/33kV 100MVA Tx-I	100	1-17	5	3
61	220/33kV 100MVA Tx-III	100	1-17	5	3
220kV DSIIDC Bawana S/S					
62	220/66kV 100MVA Tx-II	100	17	5	3
63	220/66kV 100MVA Tx-III	100	17	5	3
64	220/66kV 160MVA Tx	160	17	5	3
220kV DIAL S/S					
65	220/66kV 160MVA Tx-I	160	17	4	3
66	220/66kV 160MVA Tx-II	160	17	4	3
220kV Ridge Valley S/S					
67	220/66kV 160MVA Tx-I	160	17	3	3
68	220/66kV 160MVA Tx-II	160	17	3	3
220kV Rohini-II S/S					
69	220/66kV 160MVA Tx-I	160	17	5	3
70	220/66kV 160MVA Tx-II	160	17	5	3
HARSH VIHAR 400kV S/S					
71	220/66kV 160MVA Tx-I	160	17	5	5
72	220/66kV 160MVA Tx-III	160	17	5	5
73	220/66kV 160MVA Tx-II	160	17	5	5
220kV Subzi Mandi S/S					
74	220/33kV 100MVA Tx-I	100	1-17	5	3
75	220/33kV 100MVA Tx-II	100	1-17	5	3
220kV Kashmiri Gate S/S					
76	220/33kV 100MVA Tx-I	100	17	5	6
77	220/33kV 100MVA Tx-II	100	17	5	6
220kV Lodhi Road S/S					
78	220/33kV 100MVA Tx-I	100	17	5	5
79	220/33kV 100MVA Tx-II	100	17	5	5
80	220/33kV 100MVA Tx-III	100	17	5	5
220kV Naraina S/S					
81	220/33kV 100MVA Tx-I	100	17	5	5
82	220/33kV 100MVA Tx-II	100	17	5	5
83	220/33kV 100MVA Tx-III	100	17	5	5
220kV Geeta Colony S/S					
84	220/33kV 100MVA Tx-I	100	17	5	5
85	220/33kV 100MVA Tx-II	100	17	5	5
220kV Shalimarbagh S/S					
86	220/33kV 100MVA Tx-I	100	17	5	3
87	220/66kV 100MVA Tx-II	100	17	5	3

88	220/33kV 100MVA Tx-III	100	17	5	3
89	220/66kV 100MVA Tx-IV	100	17	5	3
	220kV I.P. S/S				
90	220/33kV 100MVA Tx-I	100	1-21	9	5
91	220/33kV 100MVA Tx-II	100	1-21	9	Overhauling
92	220/33kV 100MVA Tx-III	100	1-17	5	3
	220kV Masjid Moth S/S				
93	220/33kV 100MVA Tx-I	100	1-17	5	5
94	220/33kV 100MVA Tx-II	100	1-17	5	5
95	220/33kV 100MVA Tx-II	100	1-17	5	5
	220kV Trauma Center S/S				
96	220/33kV 100MVA Tx-I	100	1-17	5	3
97	220/33kV 100MVA Tx-II	100	1-17	5	3
	220kV Electric Lane S/S				
98	220/33kV 100MVA Tx-I	100	1-17	5	3
99	220/33kV 100MVA Tx-II	100	1-17	5	3
	220kV Wazirpur S/S				
100	220/33kV 100MVA Tx-I	100	1-17	5	3
101	220/33kV 100MVA Tx-II	100	1-17	5	3
	220kV Peeragarhi S/S				
102	220/33kV 100MVA Tx-II	100	1-17	5	3
103	220/33kV 100MVA Tx-III	100	1-17	5	3
104	220/33kV 100MVA Tx-I	100	1-17	5	3
	220kV Preet Vihar S/S				
105	220/33kV 100MVA Tx-I	100	1-17	5	5
106	220/33kV 100MVA Tx-II	100	1-17	5	5
	220kV RPH Stn				
107	220/33kV 100MVA Tx-I	100	1-17	5	5
108	220/33kV 100MVA Tx-II	100	1-17	5	5
	220kV R.K.Puram S/S				
109	220/66kV 160MVA Tx-I	160	1-17	5	3
110	220/66kV 160MVA Tx-II	160	1-17	5	3
111	220/66kV 100MVA Tx-I	100	1-17	5	5
112	220/66kV 100MVA Tx-II	100	1-17	5	5
	220kV Tuglakabad S/S				
113	220/66kV 160MVA Tx-II	160	1-17	5	3
114	220/66kV 160MVA Tx-I	160	1-17	5	3
	220kV Papankalan-III S/S				
115	220/66kV 160MVA Tx-II	160	1-17	5	5
116	220/66kV 160MVA Tx-I	160	1-17	5	5
	220kV SGTN S/S				
117	220/66kV 160MVA Tx-I	160	1-17	5	2
118	220/66kV 160MVA Tx-II	160	1-17	5	2

The tap position of 220/66kV & 220/33kV Trs at DTL S/Stns shall be reviewed after detailed deliberation on inputs provided by Discoms and O&M Department of DTL.

ii) SLDC has started the opening of 220kV cables / lightly loaded lines w.e.f 18.10.20.The following lines are opened in the night hours (21.00 hrs to 07.00hrs).

Sr. No	Name of Stn.	Name of Ckt.	Elements to be opened
1	Maharani Bagh	Trauma Centre ckts	Single ckt. at both ends
2	Trauma Centre	Ridge Valley Ckt.	Single ckt. at both ends
3	Peeragarhi	Wazirpur	Single ckt. at both ends
4	Shalimarbagh	Wazirpur	Both ckts. at both ends
5	Maharani Bagh	Masjid moth ckts.	Single ckt. at both ends

6		Electric Lane	Single ckt. at both ends
7	Harsh Vihar	Patparganj	Single ckt. at both ends
8	Patparganj	Preet Vihar	Single ckt. at both ends
9	Patparganj	Gazipur	Single ckt. at both ends

SLDC requested DTL to expedite the process of tendering works and execution of project related to Reactors as suggested by CEA.

OCC deliberated the high voltage & reactive power injection issue in Delhi system during winter season and advised additional corrective actions:

- (i) All the Capacitor banks installed in DTL as well as DISCOMs should be switched Off.
- (ii) All the generators are advised not to inject MVAR in grid and should absorb MVAR particularly during high voltage condition to improve voltage profile of the Grid as per their capability curve.
- (iii) DISCOMs were requested to select the list of feeders for switching exercise to control reactive power injection. List of selected feeders to be shared with SLDC.
- (iv) DISCOMs were advised to share cases of high voltage conditions in substations directly with SLDC. Further, SLDC will instruct respective DTL substations to change tap position of Transformers if required.
- (v) For switching of 220 kV level U/G cables/Ckts, OCC advised SLDC to not to keep Ckts under Off condition for long duration of time. OCC suggested for switching of U/G cable circuits on alternate basis.

OCC advised DMRC, DTL & DISCOMs to explore all possibilities to control system voltage profile and reactive power injection in system from their respective ends.

(Action by DMRC, DTL & DISCOMs)

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 28.10.2020
1.	33 kV RIDGE VALLEY - KHEBAR LANE CKT.-II	BRPL	01.06.2019	'Y' PH. Single cable faulty. BRPL informed that the agenda related to handover this ckt to MES to be put up before Steering Committee. Process is not started yet. In last OCC, BRPL advised to pursue with MES to revive this ckt..
2.	220kV OKHLA - 33kV BALAJI CKT.-I	BRPL	21.10.2020	'R' & 'B'PH. SINGLE CABLE FAULTY

S.N	Element's Name	DISCOM/ DTL	Date and Time of outage	Status of outage as on 28.10.2020
3.	400 kV MUNDKA - 66 kV NANGLOI W. WORKS CKT.	BRPL	26.08.2020	'B' PH. cable faulty. There are multiple faults in Ckt & BRPL checking for feasibility of cross bonding.
4.	66kV DHEERPUR - JAHANGIRPURI CKT.-I	TPDDL	17.07.2020	'R' PH. CABLE FAULTY. Energised on 22.10.2020.
5.	33kV LV SIDE CABLE B PHASE OF 100MVA Tx-I AT WZP	TPDDL	15.10.2020	CABLE FAULTY. Cable has multiple defects. Ckt will be energized by 31.12.2020.
6.	33kV BAY -4 (IP - ELECTRIC LANE)	NDMC	24.08.2020	'B' PH. CABLE FAULTY. Ckt will be energized by 05.11.2020.
7.	33kV LODHI ROAD - VIDYUT BHAWAN OLD CKT.	NDMC	15.10.2020	'B' PH. CABLE FAULTY. Energised on 22.10.2020.
8.	66kV GT - VIDYUT BHAWAN CKT.-II	NDMC	20.10.2020	'B' PH. CABLE FAULTY. Energised on 21.10.2020.
9.	220/66 kV 160 MVA PR.TR.- II AT R.K. PURAM	DTL	06.03.2020	Tx tripped on Buchholz & found faulty. Transformer already sent to workshop OEM, for repairing works. Expected by 30.11.2020
10.	220kV PEERAGARHI - WAZIRPUR CKT.-I	DTL	08.10.2020	Cable punctured. Expected by 06.11.2020.
11.	220kV MASJID MOTH - MAHARANI BAGH CKT.-II	DTL	16.10.2020	CABLE JOINT DAMAGED. Expected by 15.11.2020
12.	AT IP STATION: 100MVA PR.TR.-II	DTL	23.09.2020	Shutdown for Overhauling of Transformer. Expected by 05.11.2020
13.	AT NAJAFGARH : 66kV CAPACITOR BANK -I	DTL	01.10.2020	Shutdown for Dismantling & AUGMENTATION WORK. Expected by 05.11.2020
14.	AT NAJAFGARH : 66kV CAPACITOR BANK -2&3	DTL	09.10.2020	Shutdown for Dismantling & AUGMENTATION WORK. Expected by 10.11.2020
15.	AT 220kV WAZIRABAD : 20MVA PR.TR.-IV	DTL	06.10.2020	Shutdown for Overhauling of Transformer. Expected by 05.11.2020
16.	220kV WAZIRABAD - MANDOLA CKT.-III	DTL	14.10.2020	SHUT DOWN FOR CONDUCTOR REPLACEMENT. Energized on 30.10.2020.

Additional Agenda

1. BRPL AGENDA:

1.1 Non availability of PT isolation at 66/33kV level at R.K.Puram.

BRPL submitted that, whenever any 66KV or 33kV O/G feeder trips, generally PT isolation is required for testing the cable. But there is no PT isolation facility at RK Puram sub-station. This creates prolonged outages for getting the PT isolation and thereby testing of cables.

Moreover frequent plug-in and plug-out activities are not advisable as these activities may damage bushings.

Other similar sub-stations are also facing same issues. It is understood that certain switch gears are under long outages at Trauma center and Peeragarhi sub-stations.

One of the probable solutions to this issue is erection of separate DP Structure within the Grid premises so that cables between GIS breaker and the DP are terminated so that testing can be done at DP end only, thus avoiding Plug in, Plug out activity in GIS panels. This will not only reduce the chances of damage of switchgears due to Plug-in and Plug- out process but also facilitates with to the testing of cables at DP structure to reduce the restoration process of the breakdown.

OCC advised BRPL to plan a visit along with DTL/O&M RK Puram substation for assessment at site and explore possibilities for amendments in existing GIS to resolve the PT isolation issue. OCC further advised that extensive maintenance and patrolling of feeders be ensured to minimize outages.

1.2 Status of 66/11 kV and 33/11 kV PTR augmentation works

BRPL requested to DTL to provide latest status of 66/11kV and 33/11kV PTR augmentation works at 220kV Najafgarh, Lodhi Road & PPK-I sub-stations.

DTL shared the status of scheme with OCC (Attached as annexure-III).

1.3 No bus selection facility available on 66kV bus level at 220kV Najafgarh & PPK-I sub-station.

DTL has no bus selectivity on the elements at 66kV level i.e, Jaffarpur ckt-1, Nangloi Ckt & 66/11kV 20 MVA Tx-3 at Najafgarh & G-6 PPK Ckt at PPK-I, whenever there is a shutdown on 66kV bus bar these feeders will remain affected.

Recently two number 220/66kV 160 MVA Tx are installed as a replacement 100 MVA Tx at Najafgarh. However due to the lesser capacity of 66kV bus bars the enhanced capacity cannot be utilized at times. The dependency of the 220kV S/stn is getting increased due to the in ordinate delay of commissioning of 220kV Bodella-2.

It was informed by DTL that 66 kV Bus selection has not been provided since the commissioning of Najafgarh grid, therefore DISCOMs are well aware of this situation. However, to meet load condition in next summer season the augmentation works of 66 kV bus-bar at 220 kV Najfagrah is under progress and also DTL requested for shutdown of 66 kV bus alternatively for augmentation works. BRPL expressed its inability to manage the load due to load constraints as 66kV BRPL feeder from Mundka to Nangloi Water Works is under breakdown since 26.08.2020.

OCC advised DTL/Najafgarh to plan shutdown for augmentation works of 66kV bus bar to meet load demand in summer season. OCC further requested BRPL to explore the alternate feeders to meet present load condition while 66 kV Nangloi Water Works is under breakdown.

OCC advised BRPL to put up this issue in steering committee to resolve 66kV bus selection problem at 220 kV Najafgarh.

1.4 To update the Nomenclature of feeder at 66kV/33kV.

BRPL requested DTL to update the pending nomenclature of 66kV/33kV level feeders at some stations.

BRPL submitted that, updation in nomenclature of some feeders is still pending in SCADA/ DTL substations.

OCC advised BRPL to share the list of feeders with SLDC and DTL substations wherein nomenclature updation is pending so as to update the same.

(Action by SCADA/SLDC and DTL)

1.5 Computation of Reactive Power Drawl of BRPL from the Grid.

It has been observed from the statements of drawl of reactive power of BRPL, the methodology adopted for computation of reactive power is different from that of drawl of active power from the grid. The active power drawl is computed based on power transactions at energy exchange points. However the reactive power drawl is computed based on reactive power transactions at exchange points and that from generating station within Delhi.

The computation of reactive power drawl is not as per the provisions of Indian electricity grid code (IEGC) and Delhi Grid Code (DGC). BRPL vide letter No-2020-21/06 dated 08.09.2020 brought the discrepancy in the notice of DTL and requested DTL to revise the statement of reactive power drawl on the same methodology of computation of active power drawl since 2019-20 (as up to 2018-19 settlement has already been done). The statement of reactive power drawl for September 2020 has also been done on the same way as was being done earlier.

After detailed deliberations, OCC advised that matter be discussed in Delhi commercial subcommittee meeting wherein concerned persons of all the departments viz, SLDC, DISCOMs, DTL commercial & metering department members etc. can deliberate the issue.

The meeting ended with thanks to the Chair.
