



No. F.DTL/2018-19/Mgr.(OS)-II/41

Date:02.11.2018

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) General Manager (C&MM) General Manager (Civil) 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	Vice President (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
BTPS	AGM (EEMG)
BBMB	Sr. Executive Engineer, O&M
DMRC	Addl. GM (Elect.)

Sub :- MOM of 7th (2018-19) Delhi OCC Meeting held on 23.10.2018 at DTL, 220kV Sub-Stn Park Street Building.

Dear sir/madam,

Enclosed please find herewith the Minutes of Meeting of 7th (2018-19) Delhi OCC meeting held on **23.10.2018** in the office of GM(O&M)-I, Delhi Transco Ltd. at **220kV Sub-stn Park Street Building, Opp. Talkatora Stadium, Near R.M.L. Hospital, New Delhi-110001.**

The same is also available on DTL website, www.dtl.gov.in under the Tab “News and Information” – OCC Meeting”.

Thanking You.

Yours Sincerely,
sd/-
(Shankar Kumar)
Mgr.(T) OS-II

Copy for favour of kind information to:

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



Mgr.(T) OS-II

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

MOM OF 7th (2018-19) DELHI OCC MEETING HELD ON 23.10.2018

Chairman, OCC welcomed all the members and representatives present in the meeting. List of the officers attended the meeting is enclosed as annexure.

The point-wise deliberations made in the meeting are as under:

1. Confirmation of minutes of 6th (2018-19) Delhi OCC meeting held on dated 28.09.2018.

The 6th (2018-19) Delhi OCC meeting was held on 28.09.2018 in accordance with the agenda circulated vide letter dt: 25.09.2018. Minutes of the aforesaid OCC meeting were issued vide letter dt.10.10.2018. The same was also uploaded on DTL website.

No comments were received from the participated members on the contents of MOM.

As such the minutes of 6th (2018-19) Delhi OCC meeting held on dated 28.09.2018 were confirmed.

2. DTL AGENDA POINTS:

2.1 Status of Hot Reserve of transformers at all levels.

No representative was present from DTL Planning deptt. to deliberate and update the present status of hot reserve of Power Transformers.

S.No.	Transformation Capacity	Population in no.	Hot Reserve (No.) Decided	Present status/ Remarks
1.	400/220kV, 500MVA ICT	2	1x500MVA Tr. at Bamnauli	Civil deptt. apprised that the civil estimation for this work is prepared & same is further sent to Planning deptt. for finalization of PR of this scheme. This agenda is continuously discussed in OCC meeting since Jan-2017 and since then this scheme has not been finalized due to various constraints shown by planning deptt. OCC advised that the non-availability of this hot reserve may arise power crisis due to failure of any 315/500 MVA transformer in DTL system. OCC advised to put all efforts to procure this hot reserve to avoid power exigency in summer 2019.
2.	400/220kV, 315MVA ICT	14		

3.	220/66kV, 160MVA	25	2x160MVA Tr., (1 each at Mundka and Mehrauli)	<p>The scheme for 160MVA Tr. as hot reserve at Mundka has been prepared & approved after financial vetting.</p> <p>The PR for this Tr. could be sent to DTL C&MM deptt. after approval of this scheme through DTL board of directors.</p> <p>The scheme for another 160MVA transformer as hot reserve at Mehrauli has been prepared and is under financial vetting before sending it for approval from DTL board of directors.</p> <p>This agenda is being discussed continuously in OCC meeting from May-2016.</p> <p>OCC advised to put all efforts to procure this hot reserve to avoid power exigency in summer 2019.</p>
4.	220/66kV, 100MVA	41	1x100 MVA Tr. at Pappankalan-I	<p>Steering Committee has already agreed for providing new 220/66kV, 100MVA hot reserve transformer at 220kV Pappankalan-I by 2019-20.</p> <p>DTL Plg. Deptt. confirmed in Sep-2018 that the scheme for 100 MVA Tr. at PPK-I has been prepared while the PR for this scheme is not finalized yet.</p> <p>This agenda is being discussed continuously in OCC meeting from May-2016 and since then this scheme has not been finalized due to various constraints shown by planning deptt. OCC had taken this issue on very serious note that non-availability of this hot reserve may arise high power crisis in upcoming seasons.</p> <p>OCC advised to put all efforts to procure this hot reserve to avoid power exigency in summer 2019.</p>
5	220/33kV, 100MVA	44	2x100MVA Tr., (1 each at Okhla and Patparganj)	<p>Civil deptt. apprised that the civil estimation for this work is prepared & same has been sent to Planning deptt. for finalization of PR for this scheme.</p> <p>OCC advised to put all efforts to procure this hot reserve to avoid power exigency in summer 2019.</p>

6	66/11kV 20MVA	24	NIL	Steering Committee in its meeting held on 15.03.2017 has decided that in case of exigency, the Discoms may provide these transformer on returnable basis. As per the decision taken in the Steering Committee Meeting held on 30.10.17 the transformer augmentation has been planned and detailed hereunder.
7	33/11kV 20MVA	5	NIL	As informed by Plg. Deptt. the scheme of 04 nos. Trf of Lodhi Road is approved and PR against this scheme has been generated. The augmentation scheme for Najafgarh, Okhla and Sarita Vihar will be discussed in coming steering committee meeting.
8	33/11kV 16MVA	11	NIL	OCC advised to put all efforts for energization of Tr. within the specified target date. OCC observed that downward 11kV panel board should be also matching with the rating of the Tr.

Augmentation plan for 66/11kV and 33/11kV 16MVA and 20 MVA Transformers-

S.No.	Sub Station	Details of existing Tx.	Augmentation Plan	Year	Latest status of Scheme	Remarks
1	Lodhi Road	2 no 33/11kV 20MVA	2 no 33/11kV 25MVA	2018-19	PR generated	It is informed that 11kV panel is quite old and under rated compared to 25 MVA Tr. Rating. It was suggested to replace the panel also alongwith the augmentation.
	Lodhi Road	2 no 33/11kV 16MVA	2 no 33/11kV 25MVA	2018-19	PR generated	
2	Najafgarh	2 no 66/11kV 20MVA	2 no 66/11kV 31.5MVA	2019-20	To be discussed in upcoming steering committee meeting	While finalizing the plan, 11kV switchgear should also be considered for matching with rating of the augmentation.
3	Okhla	2 no 66/11kV 20MVA	2 no 66/11kV 31.5MVA	2019-20		
4	Sarita Vihar	2 no 66/11kV 20MVA	2 no 66/11kV 31.5MVA	2019-20		
5	Pappankalan-I	2 no 66/11kV 20MVA	2 no 66/11kV 31.5MVA	2020-21		
6	Mehrauli	2 no 66/11kV 20MVA	2 no 66/11kV 31.5MVA	2021-22		
		2 no 66/11kV 20MVA	2 no 66/11kV 31.5MVA	2021-22		

Augmentation/replacement plan for 220/66kV, 100 MVA Transformers-

Sr. No.	Name of the Sub Station	Qty. (No.)	Year	Latest status of Scheme
1	SaritaVihar (100 MVA to 160 MVA)	1	2018-19	Under tendering stage
2	Narela (100 MVA to 160 MVA)	1	2018-19	Under tendering stage
3	Najafgarh (100 MVA to 160 MVA)	2	2018-19	P.O. awarded to BHEL
4	Okhla (100 MVA to 160 MVA)	1	2018-19	Under Approval stage
5	Mehrauli (100 MVA to 160 MVA)	1	2019-20	Under Approval stage
6	Patparganj (100 MVA to 160 MVA)	2	2019-20	Under Approval stage
	Total	8		

OCC opined that DTL should adhere the timelines for augmentation/replacement of Tx. as mentioned above. Civil deptt., DTL to expedite for early completion of civil foundation works for 160MVA Tr. to be installed at 220kV Najafgarh s/s in line with drawing provided by BHEL.

However, Civil deptt. has raised its concern regarding dismantling & shifting of existing 100MVA Transformer. In view of this, OCC advised Planning and O&M deptt. to push toward timely dismantling of existing 100MVA Transformer for early completion of civil foundation works for upcoming 160MVA Transformer.

All out efforts be taken to charge the hot reserve transformers within the target date to avoid any power crisis due to breakdown of transformer. Timelines for all associated works for ETC of Tr. such as civil works including Tr. Foundation, equipment replacement, cabling, etc. be also quantified. Monthly progress be apprised/updated in Delhi OCC meeting.

(Action by Plg. Deptt., DTL)

2.2 Status of Procurement of transformers, O&M minimum inventory/spares/services as well as equipments to be procured against PSDF schemes.

1. Procurement of 09 nos. 220/66kV 160 MVA transformers.

The P.O. for 09 nos. 160 MVA Transformers (2 for SGTN, 2 for Budhela, 2 for Gopalpur, 2 for Najafgarh and 1 for Kanjhawala) have been awarded to M/s BHEL.

OCC had previously advised that the above augmentation works at Gopalpur, Najafgarh & Kanjhawala need to be taken on priority basis. Considering the continuous growth in power demand and in view of recent failure of transformers, the transformers are essentially required to be commissioned at various DTL Sub-stns by/ before March-2019 to meet the power demand of next summer season. Order for civil & erection works to be placed for early commissioning of above Transformers to avert any untoward situation/crisis which may arise due to transformer failure.

C&MM deptt. updated that 03 nos. of BHEL make 160MVA Transformers are expected to reach the site by Jan-Mar 2019. OCC advised Planning deptt. to expedite in finalizing the drawings provided by M/s BHEL to ascertain the feasibility in existing Tr. foundations.

OCC further advised for early submission of site specific drawings by M/s BHEL to Planning deptt. so that the erection of auxiliaries of Transformer could be completed in targeted time.

(Action by C&MM and DTL Planning deptt.)

2. Procurement of minimum inventory/spares.

During Aug-2018 OCC meeting, C&MM deptt. informed that the subjected PR has been approved by competent authority. Further, this PR is going to be put up in next meeting of Board of Directors. After its approval from Board the minimum inventory can be procured as per O&M requirements. OCC advised C&MM deptt. to take necessary actions for further proceedings.

OCC opined that the minimum inventory is a compulsory requirement for maintaining the healthiness of electrical equipments along with system reliability & availability. OCC advised that this agenda must be put up in next DTL board meeting for its approval so that the minimum required inventory can be procured in time before summer-2019.

(Action by DTL C&MM deptt.)

3. Procurement of materials under PSDF scheme.

OCC opined that the procurement/execution against PSDF scheme is time bound activity. As such every effort be made to complete the PSDF scheme in time bound manner.

DTL updated that the order is already placed for procurement of materials under PSDF scheme. However, the placing of order for erection/ services is still pending which needs to be expedite for utilizing the supplied material.

(Action by DTL C&MM deptt.)

2.3 Reactive power compensation at 400kV & 220kV level in DTL network.

During the previous OCC meeting, DTL Planning deptt. had inform that the standing committee of CEA on power system planning of Northern region in its 40th meeting held on 22.06.2018 (minutes issued on 30.07.2018) agreed for installation of fixed reactors at the following locations across Delhi. The reactors are required to be installed to address the severe overvoltage problem being experienced in Delhi system. The detailed list as agreed in the meeting & provided in the minutes is given here under:

S.No.	Bus Name	Voltage level (kV)	Reactor (MVAR)
1	Mundka	400	125
2	Bamnauli	220	2x25
3	Indraprastha	220	2x25
4	Harsh Vihar	220	2x50
5	Electric Lane	220	1x50
6	Mundka	220	25
7	Peeragarhi	220	1x50
TOTAL			450

As gathered, the technical study related to installation of reactors at various locations within Delhi is still under consideration from long time at the end of planning deptt., DTL. OCC deliberated that due to delay in processing of installation of reactors it is going to cause hardship to control over/high voltage condition in upcoming winter season. Therefore DTL planning deptt. must look for amicable solution to compensate the reactive power in upcoming winter season to maintain the healthy voltage profile.

Planning deptt. must expedite to install reactors at the above mentioned locations which was finalized considering the feasibility With regard to Electric Lane, the OCC was firm that 50MVAR reactor is more important than additional 100 MVA Transformer as after installation of 50MVAR reactor, no additional transformer can be commissioned due to space constraints.

OCC requested Discoms to provide a schedule of switching off/ shutdown of lightly loaded U/G power cables to avoid over voltage condition in certain lines & substations.

OCC advised that all Discoms, DMRC, Gencos & DTL must put all efforts to control the injection of reactive power in thier respective control areas to maintain the voltage profile at various levels during upcoming winter season. SLDC to monitor the reactive power management along with Tap position of Transformers to avoid the overvoltage situation.

(Action by DTL, Discoms, Gencos & SLDC)

2.4 DTL Summer Action Plan-2019.

A meeting was held in the O/o-Dir(opr.), DTL on 25.07.2018 to finalize the summer action plan for 2019 in consultation with SLDC and DTL Planning & CMG deptt. The same was also apprised to OCC as under:-

S.No.	Details of the scheme	Time Line	Action Plan	Remarks
North Delhi				
1.	Addition of 1x160 MVA Transformer at 220kV Kanjhawala	15.05.2019	Existing foundation to be modified as per layout drawing of BHEL Tx to be supplied. As First 160 MVA from transformers package is to be utilize at Kanjhawala.	Civil PO awarded & civil works are initiated as informed by Civil deptt.
2.	a)Addition of 220/66kV 1x100 MVA Transformer at 220kV Shalimar bagh	15.11.2018	Due to the load pattern observed at Mehrauli s/stn during the summer season and outage of 160MVA Power Tx at 220kV Vasant Kunj s/stn , it was decided to shelve the plan of shifting of 100MVA Tx from Mehrauli to Shalimar Bagh. It has now been decided to shift the existing dual ratio 100MVA EMCO make Power Tx at Shalimar Bagh which is connected there at 33kV level to newly commissioned 220kV Bay and will be charged at 66kV level	Mgr.(O&M) will intimate Civil deptt. for necessary modification in civil foundation as per the drawing.

			at Shalimar bagh itself. After repair of 3 rd 100MVA 220/33kV Tx of Preet Vihar, it would be diverted to Shalimar Bagh in place of above mentioned EMCO make dual ratio Tx., which is presently charged there at 33kV level and planned to be charged at 66kV level at Shalimar bagh itself.	
	b)Addition of 220/33kV 1x 100 MVA at Shalimar bagh	15.06.2019	220/66-33kV, 100 MVA Transformer will be shifted from 220kV Gopalpur S/stn. to Shalimar Bagh, as the same is being replaced with 220/66kV 160MVA Tr. New 220kV & 33kV Transformer bays shall be constructed under QVC of existing contract.	
3.	BRPL would be persuaded to transfer the load of Nangloi from Najafgarh to Mundka	--	The matter was discussed in SCM, it was informed by BRPL that this U/G cable is stable barring a cable fault in the summer months. BRPL was also requested to make possible effort to revive the 66kV Mundka-Nagloi feeder.	BRPL submitted that they are facing hardship to revive the cable. OCC deliberated that this ckt is under breakdown since long time and BRPL to expedite to replace/revive the cable to reduce the burden of already overloaded Najafgarh S/s before coming summer-2019. BRPL updated that the Mangolpuri T - Off section would be revived before end of Nov-2018.
4.	Addition of 1x160 MVA Transformer at 220kV Goplapur	15.05.2019	66kV GIS is being re-tendered and would not be available in next summer. As a stop gap arrangement, 160 MVA Tx would be installed on back to back	TPDDL assured to provide the requested power cable after taking the matter with their management. OCC advised DTL Project deptt. to take up

			arrangement at 66kV level for redundancy. TPDDL would be requested to provide 1.0KM 66KV 1000Sq MM cable on loan basis, as discussed in last SM dated 04.07.2018	this matter with Sh. P. Devanand,TPDDL, Mob. No.-9871800506, E-mail id- p.devanand@tatapower-ddl.com.
5.	TPDDL to divert load from 220kV Rohini-I to 220kV Rohini-II	31.08.2018	In the SCM dated 04.07.2018, TPDDL has informed that they will cater the load of 66kV DC-1 and RG-4 s/stns from 220kV Rohini-II s/stn in place of 220kV Rohini-I s/stn. This would be reduce the load of Rohini-I by 70MVA.	As informed by TPDDL the load of 66kV DC-1 ckt at Rohini-1 could be compensated through 66kV ckt emanating from Rohini-II to RG-28.
West Delhi				
1.	Re-commissioning of faulty 160 MVA BHEL make transformer at Pappankalan-III.	30.10.2019	It has been decided to commission the 160MVA BHEL make transformer after its repairing.	
2.	BRPL would be persuaded to shift the load of their G-2 grid substation from Pappankalan-I to Pappankalan-III by way of 66kV cable connection	31.03.2019	BRPL agreed in the SCM held on 04.07.218	BRPL informed that the work is under progress
3.	Augmentation of one no. 160 MVA transformer at Najafgarh	30.04.2019	Repaired BHEL make 160 MVA transformer of Pappankalan-III will be utilized at Najafgarh. Civil department has to suitably modify the existing foundation of 100MVA Tx into 160 MVA Power Tx during the shutdown period	Civil PO awarded. However, the civil work going to start only after dismantling of existing Transformer which is subjected to supply of new 160MVA Tx.

			in the month of Nov to Dec, so that supplied 160MVA Power Tx could be installed at the plinth of the said 100MVA Tx in minimum possible time.	
South Delhi				
1.	Creation of 2 nos. of 220kV Bays at Okhla for getting infeed from 400/220kV S/stn. Tuglakabad.	31.12.2018	Work awarded and execution under progress.	Project-I Dept. updated that Civil & Electrical works are under progress.
2.	BRPL is to be persuaded for executing their already conceived scheme to lay 66kV feeders to (i) Malviya Nagar (ii) Batra Grid from 220/66kV Tuglakabad substation.	Along with the commissioning of s/stn	Cable laying has been done by BRPL.	BRPL updated that 66kV Malviya Nagar ckt & Batra Ckt are already energized. DTL informed that the above charged ckts are under loaded & load needs to be increased to provide load relief at 220kV Okhla s/s where 01 no. 220/66kV 100MVA Tx is under breakdown condition. Further, BRPL submitted that the lines of 66kV Mohan Cooperative enclave & Okhla phase-1 ckt are planned for LILO near Tughlaqabad before next summer to optimize load at Okhla s/s.
3.	BRPL is to be persuaded for putting load at 220kV R.K.Puram to relief Mahrauli/Vasant Kunj S/stn.	31.03.2019	In the SCM held on 04.07.2018, BRPL informed that they have already laid 04 no of 33kV cables and it would be connected soon.	BRPL shall explore to charge by March 2019.

			For 66kV Level they would connect 66kV Vasant Kunj B-Block feeder to evacuate about 60-70MVA capacity before summer 2019.	In view of outage of 160 MVA Tr. at V.Kunj, BRPL should explore the possibility to connect the cable between R.K. Puram and Vasant Kunj B-Block by March 2019.
			The faulty 66kV VasantKunj-Ridge Valley cable ckt. will be LILoed at R.K.Puram.	The ckt. will be utilized for next Stn at west of JNU. BRPL expressed their inability to revive the cable.
4.	The replacement of damaged 1x160 MVA Tr. at Vasant Kunj	31.03.2019	The 100MVA Transformer being spared after augmentation at 220kV NJF, would be used at Vasant Kunj	As informed by DTL, O&M deptt. is exploring the possibilities of diversion of 01 no. 160MVA Tx from newly commissioned Tughlaqabad to replace this damaged Transformer OCC advised to BRPL to expedite the commissioning of 66kV R.K. Puram- V. Kunj B-Block feeder before summer 2019 to reduce the burden on 220kV V. Kunj S/Stn.
East Delhi				
1.	Addition of 2 no 66kV Bays at Gazipur to feed PPG Industrial Area and Mayur Vihar for reliability.	31.03.2019	Scheme under finance vetting	As informed, the estimate of civil works is finalized by Civil deptt.
2.	Addition of 2 no 66kV Bays at SOW to feed Bhagirathi for reliability.	31.03.2019	Scheme under preparation	BOQ and estimate under financial vetting.

(Action by DTL/concerned Discoms)

2.5 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.

(Action by DTL Planning deptt./BRPL/BYPL)

2.6 Load relief at adjacent sub-stations/ Power Transformers by timely Power evacuation from newly commissioned 220kV Tughlaqabad S/s.

220/66 KV GIS Substation Tughlaqabad has started its operational activities. The operation staff has been deputed and working in shifts. One No. 160 MVA power transformer has been energized along with its incomer and 66kV GIS Bus. Other 160MVA is also likely to be energize shortly.

It has been gathered that 66kV feeders are likely to feed BRPL, MES and Delhi Metro. The DISCOMs are required to evacuate the load to provide relief to adjoining 220 KV substation.

BRPL has laid power cable, (2X300 sqmm) for 66 KV Batra and Malviya Nagar substations, however these feeders have not yet been taken into service. One of the cable became faulty while back-charging from Batra to 66kV Tughlaqabad on 13.10.2018. These feeders are likely to be taken on load shortly after commissioning of Differential relay at DISCOMs end.

OCC advised BRPL to expedite for timely energization of remaining feeders to provide relief to adjacent 220 KV grids.

(Action by BRPL)

2.7 Shutdown of 220kV bus-I & bus-II at Maharani Bagh Sub-stn on continuous basis for seven days (i.e.15.11.2018 to 21.11.2018)

In 152nd NRPC outage coordination meeting dt-15.10.18, the PGCIL shutdown request was approved to rectify SF6 gas leakage in B- Phase B3 compartment of 220kV level bay no. 203 at Maharani Bagh S/s along with shutdown of 220kV bus-I & bus-II on continuous basis for seven days (i.e. 15.11.18 to 21.11.18).

However, PGCIL should note that the above shutdown is going to leave 03 nos. radial feed substations (i.e. Lodhi Road, Electric Lane & Masjid Moth) with only 33kV back-feed

arrangement. Therefore, PGCIL should put all out efforts to revive the 220kV Buses at M. Bagh in the least possible time by engaging sufficient man-power.

PGCIL should further note that repeated shutdown of 220kV Bus at M. Bagh is not possible being the most vital link for Delhi power network.

OCC discussed this matter and advised DTL to maintain at-least 01 no. 220kV level ckt in live condition to feed load at 220kV Lodhi Road s/s during shut down of both 220kV Buses at M.bagh s/s.

O&M deptt. DTL informed that the corridor of 220kV level Sarita Vihar-M. Bagh-Pragati transmission lines is been explored and it has been decided to charged 01 no. 220kV M.Bagh-Lodhi Road ckt by making a T-off at M.Bagh with the help of Jumper.

OCC requested BRPL to schedule/shift & cater the load accordingly to avoid any power exigency situation in above regions. For the load management point of view SLDC will called meeting with BRPL on 25.10.18 to maintain uninterrupted power supply in subjected areas.

(Action by PGCIL, BRPL, DTL & SLDC)

2.8 Repeated trippings on 66 kV Malviya Nagar Ckt. No.-I & II at 220kV Okhla Substation.

Repeated trippings have been noticed on BRPL 66 kV Malaviya Nagar Ckt. No.-I & II from 220kV Okhla Sub-stn, whose details are as under:-

Sl.No	Date	Time	Name of 66kV Feeder	Relay indication
1	27.09.18	7:15	66kV Malviya Nagar ckt-1	Earth Fault relay.
2	27.09.18	7:15	66kV Malviya Nagar ckt-2	Dist. Protection, Zone-1, Fault current Y-phase-4.16KAmp.
3	05.09.18	8:55	66kV Malviya Nagar ckt-1	Earth Fault relay.
4	05.09.18	8:55	66kV Malviya Nagar ckt-2	Dist. Protection, Zone-1, Fault current Y-phase-3.99 KAmp.
5	03.09.18	15:15	66kV Malviya Nagar ckt-1	Earth Fault relay.
6	03.09.18	15:15	66kV Malviya Nagar ckt-2	Dist. Protection, Zone-1, Fault current Y-phase-4.38 KAmp.
7	28.08.18	3:30	66kV Malviya Nagar ckt-1	Earth Fault relay.
8	28.08.18	3:30	66kV Malviya Nagar ckt-2	Dist. Protection, Zone-1, Fault current B-phase-4.59 KAmp.
9	15.08.18	19:20	66kV Malviya Nagar ckt-2	Dist. Protection, Zone-1, E/F, Fault current B-phase-3.71 KAmp.
10	19.07.18	9:18	66kV Malviya Nagar ckt-1	Earth Fault relay.
11	19.07.18	9:18	66kV Malviya Nagar ckt-2	E/F
12	16.07.18	19:40	66kV Malviya Nagar ckt-1	Earth Fault relay.
13	16.07.18	19:40	66kV Malviya Nagar ckt-2	Dist. Protection, Zone-1, E/F, Fault current Y-phase-4.07 KAmp.
14	13.07.18	18:18	66kV Malviya Nagar ckt-1	Earth Fault relay.
15	13.07.18	18:18	66kV Malviya Nagar ckt-2	Dist. Protection, Zone-1, E/F, Fault current R-phase-4.74 KAmp.

16	03.07.18	15:50	66kV Malviya Nagar ckt-1	Earth Fault relay.
17	03.07.18	15:15	66kV Malviya Nagar ckt-2	Dist. Protection, Zone-1 & E/F

The matter was discussed in previous OCC meeting held on 25.07.2018, wherein M/s. BRPL had inform that the major cause of above mentioned tripping is due to rapid growth of tree branches in monsoon season.

OCC advised BRPL for regular trimming of tree branches and take all precautionary actions to avoid the unwanted trippings & further electrical stress on DTL transformers as well as switchgears.

OCC have taken this issue on a serious note and observed that due to frequent no. of trippings at Discoms end it may put DTL Transformers at risk during through fault which affects the Transformer & its auxiliary equipments.

To review the frequent no. of trippings at 66kV and 33kV level and its consequent effects on DTL Transformer & equipments, a committee has been formed by OCC which includes following members:

1. Sh. Hitesh Kumar (DGM-Prot.), DTL, Member
2. Sh. S. Sutradhar (DGM-O&M), DTL, Member
3. Sh. Pradeep Katiyar (DGM), SLDC, Member
4. Sh. Rajiv Sapra (Mgr-O&M), DTL, Member Secretary
5. Sh. Shankar Kumar (Mgr-OS), DTL, Member
6. Sh. S. K. Kansal (BRPL) , Member
7. Sh. Balram (BYPL) , Member
8. Sh. Dhananjay Varshney (BRPL-West) , Member
9. Sh. Chandra Mohan Sharma (BRPL-South) , Member
10. Sh. Roshan Sharma (TPDDL) , Member

To review & study the frequent tripping of feeders, SLDC will provide the details of tripping occurred at 66kV & 33kV level feeders for the period of June-October 2018. These details will be analyzed by the committee and its report will be submitted to OCC.

2.9 Proposed planned shutdowns of O&M, DTL

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

After deliberation, the shutdowns were approved subject to real time loading conditions. Approved shutdown list is enclosed as Annexure.

3. SLDC Agenda

3.1 System study for capacitor requirement in NR for year 2018-19.

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.

In 151st NRPC OCC meeting the format for data collection has been modified and the NR constituents were requested to submit data in revised formats.

The representative from CPRI (Dr. Manohar Singh) made a detailed presentation explaining the format for capacitor study for 2019-20 of NR. CPRI has made a detailed video explaining the format which is available on YouTube at the given link (<https://youtu.be/QTxx7owPF3g>). Personnel concerned for collecting the data is advised to go through the video before collecting the same for the study.

CPRI has also requested to initially fill the attached data format for any one 220 kV or 132 kV substation and send it back CPRI (manoharsingh@cpri.in) to check its suitability for utilization in carrying out the study. Once CPRI gives a go ahead for the submitted data, the data for the complete state network shall be collected and made available to CPRI.

The revised formats have been attached with necessary guidelines such as PPT and Video for filling the data in desired formats.

As advised the data be filled up by all the utilities in desired format & send it to SLDC to verify the same from CPRI.

(Action by Discoms)

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 149 NRPC 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 –III.

This agenda has been discussed in OCC meeting for multiple times, but till now the requested data has not been provided by Discoms & DMRC. SLDC informed that till date only BYPL have submitted the data.

DMRC & BRPL assured to provide requisite details by next week.

OCC requested all concerned to furnish the requisite data required for GIS based energy mapping.

(Action by Discoms, Gencos & DMRC)

3.3 Status of implementation of recommendations of enquiry committee on Grid disturbances held 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 held on 30 and 31.07.2012 is not updated by DTL and Delhi Genco's to NRPC.

In 147th NRPC OCC meeting, All utilities were requested to update the information as per the letter enclosed at Annexure 18 with the Agenda of the 146th OCC meeting.

The indicative formats are attached.

DTL and Delhi Gencos were requested to submit the status to NRPC.

(Action by DTL & Gencos)

3.4 Damage of DTL 220kV Peeragarhi - Mundka both optical fibre cable along with DTS fibre by M/s BRPL on dt.-06.06.2018.

DTL informed that both optical fibre cable along with DTS fibre between 220kV Peeragarhi – Mundka D/C has been damaged by M/s BRPL on dt.-06.06.2018 during tracing/rectification of fault in their 66 KV Mundka-water works cable emanating from Mundka Sub-stn. which is running in parallel to DTL 220kV Peeragarhi – Mundka D/C cable.

The matter was also deliberated in Delhi OCC Meeting (03/18-19) held on 15.06.2018 at DTL, 220kV Sub Stn Park Street Building in which it was mutually agreed that BRPL will execute the digging/ excavation works at the location of damaged optical fiber while DTL is going to repair the damaged fiber & the cost of repair works will be booked on account of BRPL.

However, as on date no action in this regard has been taken by M/s BRPL.

During discussion in Sep-2018 OCC meeting it was decided that a joint site visit be done by Head, EHV-BRPL and DGM(SCADA), DTL and further course of action will be decided at site.

BRPL informed that the above scheduled site visit couldn't take place. OCC advised to schedule a next joint inspection to revive this damaged Optical fiber cable.

(Action by BRPL/DTL)

3.5 Status of healthiness of OLTC of power transformers for ON-LOAD operation.

In view of upcoming winter season and to counter the over-voltage situation, DTL to update the healthiness of OLTC of power transformers for ON-LOAD operation. AMC if any for carrying out the mtc. work may also be updated.

As informed by O&M deptt., DTL an order is under finalization by C&MM deptt. Discoms were also requested to operate their transformer on min. tap position. NRPC be requested to lower the tap in 400kV and 765kV network. Gencos will operate their generators so as to absorb MVAR.

(Action by DTL)

3.6. Mock trial of Black-start Exercise of GT (IPGCL):

As per Indian Electricity Grid Code (IEGC) clause 5.8(b) *“Mock trial runs of the procedure for different sub-systems shall be carried out by the Users/ CTU/ STU at least once every six months under intimation to the RLDC”.*

Mock Black-start exercise of power stations are therefore needs to be carried out in-order to ensure healthiness of black start facility.

The black start exercise of Unit-3 of GTPS was earlier carried out on 13.04.18. The report is attached as Annexure-1.

IPGCL (GTPS) may please give schedule to SLDC and OS Department of DTL so that a mock start exercise can be done accordingly.

OCC advised to schedule the mock trial of Black-start in the end of Nov-2018. SLDC may coordinate with GTPS.

(Action by DTL & Gencos)

4. 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 31.10.2018
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. Expected by 26.12.2018.
3.	33kV ALAKHNANDA - OKHLA CKT.-I	BRPL	19.04.2018	BREAKER PROBLEM. Expected by 28.11.2018.
4.	33kV RIDGE VALLEY - KHEBAR LANE CKT.-II	BRPL	13.01.2016	'R' PH. SINGLE CABLE FAULTY. Expected by 23.12.2018.
5.	EXHIBITION GROUND-I-33kV INCONNECTOR	BRPL	30.05.2018	CABLE FAULTY. Expected by 15.12.2018.
6.	33kV LODHI ROAD - EXHIBITION GROUND-II CKT.	BRPL	10.10.2017	'R' PH. SINGLE CABLE FAULTY. Charged on single cable.
7.	33kV OKHLA PH.-II-JAMIA -T-OFF SARAIJULIENA CKT.	BRPL	14.08.2018	T-POINT SIDE JUMPER OPENED. Energized on 15.08.2018.
8.	33kV SIRI FORT - MEDICAL CKT.	BRPL	21.08.2018	'Y' PH. SINGLE CABLE FAULTY. Expected by 10.11.2018.
9.	66kV BATRA - MALVIYA NAGAR CKT.	BRPL	13.10.2018	UNDER SHUTDOWN. Energized on 14.10.2018.
10.	66kV MUNDKA - NANGLOI CKT.	BRPL	08.05.2017	'B' & 'Y' PH. CABLE FAULTY. Expected by 30.12.2018.
11.	400kV-MUNDKA 66kV NANGLOI W. WORKS CKT.	BRPL	04.10.2018	'Y'PH. CABLE FAULTY. Expected by 07.11.2018.
12.	20MVA PR.TR.-III AT G-6 PPK	BRPL	04.10.2018	UNDER SHUT DOWN. Expected by 08.11.2018.
13.	33kV PASCHIM PURI - PASCHIM VIHAR CKT.	BRPL	11.10.2018	'Y' & 'R'PH. 2ND CABLE FAULTY. Expected by 10.11.2018.
14.	66KV MUNDKA-MANGOLPURI-I - T-OFF NANGLOI CKT.	BRPL	09.03.2018	CABLE FAULTY. Expected by 30.11.2018.
15.	33kV SHAHZADA BAGH - T-OFF RAMA ROAD CKT.	TPDDL	13.04.2018	CABLE FAULTY. Expected by 15.12.2018.
16.	220kV NARELA - 33kV AIR KHAMPUR CKT.	TPDDL	02.10.2018	CABLE FAULTY. Expected by 30.11.2018.
17.	33kV A-21 NARAINA - REWARI LINE CKT.	TPDDL	07.10.2018	SINGLE CABLE FAULTY. Energized on 16.10.2018.

18.	33KV JAHANGIRPURI - SGTN GIS CKT	TPDDL	11.10.2018	CABLE FAULTY. Energized on 16.10.2018.
19.	220/66kV 160MVA PR.TR.-III AT 220kV VASANT KUNJ	DTL	26.04.2018	TRANSFORMER BURNT DUE TO FIRE. TO BE REPLACED.
20.	33kV BUS COUPLER AT KASHMERE GATE	DTL		TRIPPING COIL PROBLEM. EXPECTED BY DECEMBER 2018.
21.	30MVA PR.TR. AT 220kV NARELA	DTL	11.08.2018	TRANSFORMER TO BE DE-CAPITALIZED.
22.	66kV BUS COUPLER AT 220kV PAPPANKALAN-III	DTL	24.06.2018	GAS PRESSURE PROBLEM. TO BE ATTENDED BY PGCIL STAFF.
23.	66kV CAPACITOR BANK AT 220kV NARELA	DTL	11.08.2018	66kV CAPACITOR BANK CELLS BLASTED AT 220kV NARELA. TO BE REPLACED. EXPECTED BY NOVEMBER 2018.
24.	220/33kV 100MVA PR. TR.-I AT 220kV RPH STN.	DTL	03.09.2018	TRIPPED ON BUCHOLZ AND DIFFERENTIAL RELAY.TRANSFORMER FAILED.
25.	315MVA ICT-III AT 400kV BAWANA	DTL	02.09.2018	TRIPPED ON DIFFERENTIAL. 'Y' PH. BUSHING DAMAGED. BEING ATTENDED BY PGCIL STAFF. EXPECTED BY 05.11.2018.
26.	400kV BAMNAULI – TUGHLAQABAD CKT-1	DTL	12.10.2018	UNDER SHUTDOWN FOR REPLACEMENT OF TOWER No.173. EXPECTED BY 31.12.2018.
27.	20MVA PR.TR.-I AT 220kV LODHI ROAD	DTL	08.10.2018	SHUT DOWN FOR OVERHAULING. EXPECTED BY 01.11.2018.
28.	220/33KV 100MVA PR. TR-III AT IP	DTL	12.10.2018	SHUT-DOWN TO ATTEND OIL LEAKAGE. ENERGIZED ON 18.10.2018.

5.Additional Agenda of TPDDL

5.1 Timely information of Change over, Tripping, ESD not given by DTL.

DTL must provide information regarding any change over, tripping, ESD or PSD to Tata Power DDL for timely intimation to consumers. There are many instances where DTL doesn't provide information to TPDDL. On 16th Oct 2018, DTL switched off PTR 1 from 220 Naraina Grid at 11:30 AM, but informed 10 min late, due to which 1018 consumer got affected without ETR update. Area was then back feeded at around 12:35.

The matter was deliberated and OCC advised TPDDL to take/share information directly with central control body (i.e. SLDC) to avoid any mis-communication in this regard. SLDC to inform the affected utility immediately.

(Action by TPDDL/SLDC)

5.2 Installation of Real Time Breaker Status (RTBS) at 11kV feeders of DTL and BSES grid supplying to Tata Power DDL.

Below mentioned agenda has already been raised by TPDDL in Aug-18 OCC meeting regarding late information of 11kV feeder tripping from DTL grid. To overcome this kind of event, TPDDL has decided to install Real Time Breaker Status on each 11 kV breaker which will send SMS to respective affected zone and necessary action.

“Tata Power DDL is frequently facing the problem of delay in information of 11 kV feeder tripping at 220 Naraina grid. The list of all such cases is from 1st April to 15 Aug-18 (attached in annexure).

*MOM of 7th (2018-19) Delhi OCC meeting held on 23.10.2018
If timely informed, then Tata Power DDL can back feed all consumers within 15 min of time,
but in most of cases consumer faces Power Outage as long as 2 hours.”*

This issue was deliberated and OCC advised to TPPDL to install RTBS in their own sub-stations. Therefore during any shutdown/breakdown TPPDL can easily get the real time breaker status of their incomers/ feeders.

(Action by TPDDL)

5.3 Introducing Energy Reading Portal

TPDDL has developed Energy Reading Portal for capturing Energy data of all DTL and Tata Power DDL grids through Online Web application. TPDDL requests DTL to punch the reading data on Energy Reading Portal, in line with practices being followed by NRLDC for DTL Grids.

It was deliberated that at initial level, a pilot scheme at Rohini-I and Shalimar Bagh Sub-stn be tried.

(Action by TPDDL)

The meeting ended with vote of thanks to the chair

**NOTE:-The MOM of OCC meeting can also be seen on DTL website
(www.dtl.gov.in) under the Tab “News and Information – OCC Meeting”.**
