

	<p><b>DELHI TRANSCO LIMITED</b>  <b>(A Govt. of NCT of Delhi Undertaking)</b>  <b>An ISO 9001:2008 certified company</b>  <b>Office of DGM(T) OS, Convener-OCC</b>  <b>1<sup>st</sup> Floor, 220 kV Sub-Stn Park Street, Opp. Talkatora Stadium,</b>  <b>Near R.M.L. Hospital, New Delhi-110001</b>  <b>Web:-www.dtl.gov.in, E-mail :- dgm.os@dtl.gov.in</b></p>
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No. F.DTL/831/F.4/2017-18/DGM (OS)/59

Date:-08.09.2017

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 (Planning) DGM (O&M) - North, East, West, South DGM (M/P) DGM(Plg.)	Fax no. 011-23366160  Fax No.011-23622707  Fax no. 011-23366160 Fax No.011-23632031
<b>SLDC</b>	ED (SLDC) DGM (SO)	Fax no. 011-23221069 Fax no. 011-23221059/12,
<b>TPDDL</b>	DGM	Fax no. 011-66050602
<b>BRPL</b>	Vice President (SO) Asstt. Vice President	Fax no. 011-39996549 Fax no. 011-39996549
<b>BYPL</b>	Asstt. Vice President (SO)	Fax no. 011-39996549
<b>NDMC</b>	Executive Engineer (M/F)	Fax no. 011-23235754
<b>IPGCL</b>	AGM (T) COS AGM (T) Opr. GTPS	Fax no. 011-23284797 Fax no. 011-23370884
<b>PPCL</b>	DGM (T) Opr. PPS-I DGM (T) Opr. PPS-III	Fax no. 011-23378947 Fax no. 011-27791175
<b>MES</b>	AEE/M.SLDC Officer	
<b>BTPS</b>	AGM (EEMG)	Fax no. 011-26944348
<b>BBMB</b>	Sr. Executive Engineer, O&M	Fax no. 011-28315542
<b>DMRC</b>	Addl. GM (Elect.)	Special Invitee
<b>DMRC</b>	General Manager (Elect.)	Special Invitee
<b>N. Railways</b>	Sr. DEE (TRD)	Special Invitee
<b>EDWPCL</b>	Director(EDWPCL)	Special Invitee
<b>Delhi MSWSL</b>	Station Incharge	Special Invitee

**Sub :- MOM of Delhi OCC Meeting held on 28.08.2017 at SLDC Minto Road.**

Dear sir/madam,

The last Delhi OCC meeting was held on **28.08.2017 at SLDC Building, Minto Road, Opp. MCD Civic Centre, New Delhi-110002.**

The minutes of meeting are enclosed herewith for your kind perusal and further necessary action please. The same has also been uploaded on DTL website, www.dtl.gov.in under the Tab "News and Information – OCC Meeting".

Thanking You.

**Enclosure: MOM of OCC meeting.**

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

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

1. Member Secretary, NRPC, 18-A, SJS Marg, Katwaria Sarai, New Delhi-110016.
2. Secretary, DERC, Viniyamak Bhawan, C-Block, Shivalik, New Delhi-17.
3. Chairperson & Managing Director, DTL.
4. Director (Operations), DTL
5. General Manager (Project)-I, DTL
6. General Manager (Project)-II, DTL

**DGM(OS),DTL  
Convener-OCC**

## **DELHI TRANSCO LIMITED**

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

### **MOM OF OCC MEETING DT. 28.08.2017**

GM (O&M)-I, DTL, Chairman-OCC welcomed the members of OCC. List of participants are enclosed herewith as Annexure-1. Chairman, OCC emphasized on carrying out timely maintenance activities on the equipments with the proper PTW.

The meeting was started with the presentation on review of grid operation for July 2017. It was informed that peak demand of 6121 MW for July-2017 was met on 10.07.2017 at 22:59:49 hrs. Discom wise load as well as generation within Delhi during the peak and load curve for all the Discoms during the July month was depicted. Planning of Grid operation for Sep 2017 was also discussed, wherein it was explained that the anticipated peak demand for Sep 2017 would be around 5600 MW.

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

#### **1. Confirmation of minutes of previous Delhi OCC meeting held on dated 28.07.2017.**

The previous Delhi OCC meeting was held on 28.07.2017. Minutes of the aforesaid OCC meeting were issued vide letter dt. 10.08.2017 and sent to all the participants/OCC members via e-mail. The minutes were also uploaded on DTL website (www.dtl.gov.in) under the Tab "News and Information – OCC Meeting".

No comments have been received. **OCC confirmed the minutes of OCC meeting dt. 28.07.2017 issued vide letter dt. 10.08.2017.**

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

##### **2.1 Tripping of 220 kV Bamnauli-Pappankalan II Ckt.-1 & 2 from Bamnauli end on dt.-20.05.2017 at 23:53 hrs. and 23:57 hrs. respectively.**

On dt.-20.05.2017, 220 kV Bamnauli-Pappankalan II Ckt-1& 2 got tripped at 23:53 hrs and 23:57 hrs respectively at Bamnauli end on backup protection and the supply at PPK-II got failed due to radial feed from Bamnauli grid. Later on it was came to notice that the fault was at BRPL 66 kV Hastal grid at the 11 kV end. The fault of 11 kV level should have been cleared at 11 kV or 66 kV level at the BRPL station, but it was not cleared leading to fire. In this particular case at the time of fault at BRPL end the current of 66 kV Hastal feeders was probably less than 800 Amp so the 66 kV feeder was not supposed to trip. Whereas the current of 220 kV feeder as noted from disturbance record of Bamnauli end was 1000 Amp and the feeder has rightly tripped on over current setting resulting supply at PPK-II got failed due to radial feed from Bamnauli grid.

BRPL should provide the following details before the OCC for deliberation of the above incident-

- A. Single line diagram of the 66 kV Hastal Grid substation.
- B. System configuration at the time of incident
- C. Connectivity of the BRPL Power network.
- D. Incident report by BRPL alongwith DR and SOE.
- E. Tripping analysis report by BRPL
- F. Details of the SCADA Connectivity along with DATA acquisition configuration of 66 kV Hastal to BRPL System Control Room (Balaji) for monitoring of the unmanned substation.
- G. Immediate Remedial measure to avoid such type of incident.

**During the discussions, BRPL informed that the report is under approval stage and will be shared in the next OCC meeting.**

## **2.2 Storage of scrap material by BRPL Najafgarh at the common road at 220 kV DTL Substation Najafgarh**

The matter has been discussed in previous OCC meetings, wherein it was informed by Mgr(O&M), DTL (N-3) that BRPL Najafgarh is using the common road from Main Security Gate (at Main Road) to Security Gate at DTL 220kV Najafgarh Substation Security Gate which is creating the hindrance to men and material of DTL and common public at large too. The problem enhances and get gruesome when general public park their vehicles while visiting the BRPL office encroaching the corridor. It can also not be ruled out that in case of major chaos, if any fire breaks out at DTL installation at Najafgarh or similar exigency, fire tenders/emergency vehicles may not be able to enter the premise due to space crunch created by storage of damaged & old scraps in the form of LT transformers, electrical poles and also due to parking of vehicles by general public.

**The matter was deliberated and it was informed by BRPL that the majority of scrap material lying on the entry road have been removed and the rest will be removed very soon. OCC advised BRPL to expedite for the same.**

## **2.3 Non provision of 33kV cable holding arrangement by NDMC and improper sealing of 33kV cable duct/trench at 220/33 kV Sub-stn HCML and AIIMS Trauma centre.**

The subjected matter was discussed during the previous OCC meeting as under:-

(i)220 KV GIS S/Stn. AIIMS Trauma Centre-

There are 18 Nos. 33 KV outgoing feeders at 220 KV GIS S/Stn. AIIMS Trauma Centre out of which 12 Nos. pertains to NDMC, 02 No. pertains to BRPL and 04 Nos. are spare at present. Cable holding arrangement is not provided in any feeders resulting damage of cable end termination box due to stress in the event of fault. Cable end termination box of 33 KV bay No. 19 along with PT was damaged due to same reason. Replacement of multi cable end termination box is very costly amounting to Rs. 27Lacs approx and time consuming being OEM item. It is pertinent to mention here that cable end termination box in which cable is to be inserted pertains to the user entity. Further, cable duct/trench are not properly sealed hence water and mud enters through entry points/pipes in the 33 KV GIS basement in rainy season. Matter was taken up with NDMC since 06.04.2015 but no progress has been made.

(ii)220 KV GIS S/Stn. HCML-

There are 15 Nos. 33 KV outgoing feeders at 220 KV GIS S/Stn. HCML out of which 09 Nos. pertains to NDMC, and 06 Nos. are spare at present. Cable holding arrangement is not provided in any feeders resulting damage/flash of cable end termination box due to stress in the event of fault. Recently on 01.06.2017, there was heavy flash on cable end termination of 33 KV feeder Connaught place (Bay No. 02) during fault and in outage since then. Further, cable duct/trench are not properly sealed hence water and mud enters through entry points/pipes in the 33 KV GIS basement in rainy season. Matter was taken up with NDMC since 06.04.2015 but no progress has been made.

The matter was deliberated in OCC meeting held on 28.06.2017 and a committee comprising of officers from DTL and NDMC was formed to resolve the issues and directed to update the status in next OCC meeting.

Accordingly, committee members met at 220 KV S/Stn. AIIMS Trauma Centre on 06.07.2017 and following decisions were taken. The contents of MOM are as under:-

- 1) NDMC has already agreed in the meeting dated 06.04.2015 (MOM of the same was circulated on 09.04.2015) that they will provide proper cable holding arrangement with alignment to cable end termination in all the feeders.
- 2) NDMC will ensure that all existing pipes are properly sealed from inside of 33KV GIS basement to avoid rain water entry in the basement of 33kV GIS.
- 3) The mud inside the basement shall be removed by DTL after completion of the works by NDMC as specified at Sr. No. 1 and 2.
- 4) NDMC will ensure proper earthing with suitable current rating links of cable sheaths and armors at DTL end in all the 33KV feeders.
- 5) NDMC will ensure proper workmanship during dismantling/insertion of cable and other associated works under intimation and satisfaction to DTL.
- 6) In addition to above, it was also decided that planning department will take care in future upcoming sub-stations with insertion of scope of works for erection of structure for cable holding from cable entry point to 66/33kV cable end terminations.

**DTL has requested that NDMC may update the status with its time frame.**

**It was deliberated that NDMC should provide proper cable holding arrangement with alignment to cable end termination in all the feeders. Further, Proper sealing of cable pipes be done to avoid the ingress of rain water in the basement of 33 kV GIS. NDMC should gear up the work as agreed in the meeting held on 06.07.2017 for proper safety of men and material. DTL to provide proper illumination to facilitate the work being carried out by NDMC.**

#### **2.4 Removal of secondary connection from dedicated LT feeder to 220 kV Substation Ridge valley.**

The LT supply (415V, 3 phase) at 220KV GIS Sub-station Ridge Valley is taken from BSES through a separate non-domestic LT connection (above 140KW). This connection is given from 66KV BSES grid substation through their local 400KVA capacity transformer. The connection was given separately i.e. there is separate LT breaker for this connection.

Recently on dt.-09-08-2017 at 23:00 hrs, the LT incomer was tripped on O/C relay with heavy sound and smoke from the incomer panel. On physical checking of same, it was found that 3 phase LT supply on this incomer was abnormal and was as under:

R – Phase -0V  
Y - Phase – 360V  
B – Phase – 417V  
Neutral –258V (All values w.r.t. Ground)

It was also found that the Y & B phase PTs of the incomer were burnt due to which the smoke was observed. The system operation SLDC was informed about the above situation and after some time BSES breakdown team arrived. On tracing the fault, it was found that another LT cable connection was given from the same terminals of DTL Ridge Valley LT Connection. The BSES team informed that this connection was given temporary to nearby Petrol Pump and Police Station at Dhaula Kuan as there was fault in their permanent feeder

cable. For ensuring the faulty section, this temporary LT cable was isolated from feeder pillar between petrol pump and police station. Subsequently, the LT supply voltages of DTL Ridge valley substation was checked and found normal. As such it was confirmed that there was fault in the another cable which was connected temporarily. However due to this fault, LT supply of Ridge valley substation got disturbed. All control systems was entirely dependent on DC supply and DG Set for approximately 24 Hrs.

The LT supply at Ridge valley S/Stn. plays a vital role for cooling fans/pumps of 160 MVA power transformer-I & II, Air conditioning system of expensive relays installed in BCR kiosks, AHU of GIS Hall, lighting of substation. These are critical auxiliaries of substation and should have uninterrupted power supply. It is pertinent to mention here that this is the one and only single source of LT supply available at 220 kV S/Stn. Ridge Valley.

Since, this LT connection is dedicated one exclusively for maintaining uninterrupted supply to 220KV GIS Sub-stn. Ridge Valley, interruption on its subsidiary feeder if any leads to failure of LT supply to Ridge Valley S/Stn. and affects operation of the system.

In view of above, DTL have requested for removal of temporary LT supply given from the same breaker/terminal from which LT supply to DTL 220KV Ridge valley substation is given.

**The matter was deliberated and it was informed by BRPL that a new local transformer will be commissioned within two to three months for feeding the power supply to nearby Petrol Pump and Police Station at Dhaula Kuan and thereafter there will be dedicated supply for Ridge valley Sub-stn. OCC noted the same.**

### **2.5 Shutdown request of Power Grid for replacement of HTLS conductor of 220 kV SOW-Geeta Colony D/C line and 220 kV SaritaVihar-Pragati line (May 2017 Agenda).**

The matter was discussed during Delhi OCC meeting held on dt.-26.05.2017 in which M/s PGCIL had requested for shutdowns of following 220kV lines for HTLS conductor replacement:-

S. No.	Name of transmission line	Ckt.
1.	220 kV Geeta Colony-Wazirabad T/L	Ckt.-1
2.	220 kV Geeta Colony-Wazirabad T/L	Ckt.-2
3.	220 kV SaritaVihar-Pragati	Ckt.-2

It was informed by SLDC that they had inquired from PGCIL about the reason for reconductoring. PGCIL have informed that during the reconductoring of 220 kV Pragati – Sarita Vihar Ckt. –II the core of the HTLS conductor got broken due to which delay in reconductoring occurred. It was also informed that the conductor of the same drum was utilized in 220 kV Geeta Colony – Wazirabad Section. Since the core of the conductor was broken as such the quality of the HTLS used in reconductoring work has come under question. As such PGCIL has pressed the contractor to change the entire section of the above mentioned ckts where the conductors of the same drum were used. The shutdowns of above mentioned line is required for change of the existing conductors thus used.

During the OCC meeting held on 26.05.2017, The proposed shutdowns were deferred till Sep-2017 in view of ongoing summer season and peak demand.

**The matter was discussed and the shutdowns as proposed by PGCIL were tentatively approved w.e.f. 22<sup>nd</sup> Oct, 2017. The shutdowns have been tentatively approved for 10 days for each ckt. in continuation and subject to real time loading conditions prevailing at the time of shutdown.**

## **2.6 Proposed planned shutdowns of O&M, DTL**

DTL O&M deptt. has proposed the planned shutdowns for the month of Sep 2017 as per enclosed Annexure.

**After deliberation, the shutdowns were approved subject to real time loading conditions prevailing at the time of shutdown and SLDC remarks are also given in separate column. List of duly approved shutdowns for Sep 2017 is enclosed as Annexure.**

## **3. SLDC Agenda**

### **3.1 Deemed Availability of 220 kV Maharani Bagh – Masjid Moth Ckt.-II during the period of its breakdown which occurred on 14.06.2017 at 02:05 hrs.**

The 220 kV Maharani Bagh – Masjid Moth Ckt.-II (U/G cable) became faulty on dt.-14.06.2017 at 02:05 hrs. during the excavation work for laying of optical fibre cable being carried out by M/s BSNL.

DTL have requested for treating the ckt. as deemed available during the forced outage period, since the outage was due to damage of XLPE power cable of the Ckt. caused by external agency (M/s BSNL) during optical fibre laying/excavation work in night hours. As such, the outage was a force majeure event and beyond the control of DTL. In view of above and in accordance with the DERC guidelines, the ckt. be treated as deemed available during its forced outage period.

SLDC have informed that they have already certified the transmission system availability for June 2017 and circulated to all stake holders.

DTL requested that issuing of necessary corrigendum regarding revision in availability for June-2017 may please be considered by SLDC.

**The matter was discussed and it was finalized that since the fault in 220 kV Maharani Bagh – Masjid Moth Ckt.-II occurred during optical fibre laying/excavation work in night hours by external agency (M/s BSNL), as such the outage was a force majeure event and beyond the control of DTL. In view of above and in accordance with the DERC guidelines, the ckt. be treated as deemed available during its forced outage period.**

### **3.2 Integration of SCADA database of DISCOMS upto 11KV with SLDC**

All DISCOMS were required to provide, as per MOM dated 17.01.17, the ICCP points of all 66/33/11KV level data to SLDC for integration in SLDC's SCADA system for effective visualisation of complete Delhi Network.

However, even after number of reminders / follow ups, a large amount of data is still pending to be provided by the DISCOMs ( BRPL/BYPL and TPDDL).

**The Discoms cited their ongoing Scada Upgradation work as reason for delay, however they assured that they shall immediately provide at least the total quantity of data points (both analog and digital) upto 11 kV level which are required to be integrated with SLDC, within one week time frame to SCADA deptt.**

**DTL SCADA deptt. to follow up with Discoms for the same.**

#### **4. EDWPCL Agenda**

4.1 M/s EDWPCL have informed that on dt.- 18.08.17 at 3:19 AM, 66 kV Vivek Vihar-2 circuit from DTL 220 kV Sub-stn Ghazipur tripped due to fault in R-phase (Distance Prot., Zone-1, 1.1 KM from Ghazipur). Due to this fault the SF6 breaker at their plant end got tripped and power export was stopped for approximately 30min.

They have further informed that they are under tremendous pressure by NGT to run the plant continuous now. In case if there any stopped of plant then IL&FS has to pay the penalty for the same.

**The matter was discussed and it was informed by DTL that there was a transient fault in 66 kV Vivek Vihar ckt.-2 from DTL 220 kV Sub-stn Ghazipur and the same was tripped on Dist. Prot., Zone-1. Further, it was informed that the 66 kV Bus-I & II remained charged at this time. There was no tripping of 66 kV EDWPCL bay at DTL Ghazipur end.**

**OCC advised EDWPCL to review the settings of Generator.**

4.2 M/s EDWPCL have informed that in reference to MOM of OCC meeting held on dt.28.03.2017, Point no. 7, Synchronizing relay and line CVT in three phases was to be installed by DTL in 66 kV feeders at Ghazipur substation for successful synchronization of two different sources at Ghazipur Sub-stn. They have requested to update the current status.

**The matter was deliberated and it was informed by DTL that the line CVTs in 66 kV O/G feeders will be installed within 4 months.**

#### **5. TPDDL Agenda**

##### **5.1 Arbitrary scheduling by Delhi SLDC.**

M/s TPDDL have informed that there have been many instances in past regarding arbitrary or forced scheduling of power by NRLDC. They write to NRLDC regarding force scheduling time to time. Delhi SLDC is very reluctant to change the scheduling to TPDDL when there is force scheduling by NRLDC. After taking up the matter with NRLDC many times, NRLDC has responded that they scheduled the forced power (RRAS, MTL etc.) to overdrawing entities under them i.e. Delhi. Further scheduling of this power to deviating discom is the responsibility of Delhi SLDC. Delhi SLDC under current practice, schedule the power as per percentage of entitlement irrespective of OD or UD position.



With reference to above, TPDDL have requested Delhi SLDC to change the scheduling guideline and align the same with NRLDC. Force scheduled power by NRLDC will be scheduled to the discom who is deviating from DSM regulation.

**It was informed by SLDC that force scheduling is being done by NRLDC when Delhi discoms overdraw resulting in Overdrawal of Delhi state from the grid. As such, SLDC suggested that as per grid code all discoms should maintain their schedule as per drawal to avoid the such situation i.e. force scheduling by NRLDC to Delhi.**

**TPDDL and other discoms stated that discoms who are overdrawing, only they should be force scheduled. In this regard SLDC informed that generally NRLDC does not inform to SLDC regarding force schedule done by them. Whenever SLDC knows the information regarding the force scheduling, the same is being passed to Discoms.**

**OCC opined that the discoms and SLDC may discuss this issue separately.**

## **6. Long/Recent outage of Elements in Delhi power system.**

Members updated the status of following Long/Recent outage of elements in Delhi Power system as on 28.08.2017:

S.N	Element's Name	Discom/ DTL	Date and Time of outage	Updated Status of outage as on 28.08.2017
1.	33kV BAY -3 (IP – KILOKARI)	BRPL	22.02.2011	Clearance from Railways for laying of 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.	33kV RIDGE VALLEY - KHEBAR LINE CKT.-II	MES	31.01.2016	R-PHASE SINGLE CABLE FAULTY. Expected by 20.09.2017.
3.	66kV VASANT KUNJ INSTL.AREA-RIDGE VALLEY CKT.-I	BRPL	26.03.2017	UNDER SHUTDOWN
4.	33kV LODHI ROAD - EXHIBITION GROUND -II	BRPL	04.06.2017	SINGLE CABLE FAULTY Expected by 30.08.2017.
5.	33kV KILOKRI - O/H SARAI JULIENA CKT	BRPL	18.08.2017	SINGLE CABLE FAULTY Expected within 3-4 months.
6.	33kV LODHI ROAD - EXHIBITION GROUND-II CKT.	BRPL	19.08.2017	SECOND CABLE FAULTY. Energized on 23.08.2017.
7.	5MVA PR.TR.-II AT BIJWASAN	BRPL	21.08.2017	UNDER SHUTDOWN Energized on 28.08.2017.
8.	50MVA PR.TR.-I AT MALVIYA NAGAR	BRPL	22.08.2017	PROTECTION CLEARANCE AWAITED Energized on 23.08.2017.
9.	66kV SAGARPUR - REWARI LINE CKT.	BRPL	30.07.2016	'B' PH. CABLE FAULTY. RE-ROUTING BEING DONE. PERMISSION WITH PWD AWAITED.
10.	30MVA PR.TR. AT NANGLOI	BRPL	18.03.2017	PROBLEM IN RELAY. SPARE TRANSFORMER. LIKELY TO BE DISMANTLED.
11.	66kV MUNDKA-NANGLOI CKT	BRPL	08.05.2017	B & Y-PHASE CABLE FAULTY. Expected by 15.09.2017
12.	20MVA PR.TR.-IV AT PASCHIM VIHAR	BRPL	21.07.2017	UNDER SHUT DOWN FOR MTC. WORK.

13.	66kV PPG - AKSHARDHAM CKT	BYPL	06.08.2017	CABLE FAULTY. EXPECTED BY 3-4 MONTHS AFTER SHIFTING.
14.	33KV PANDAV NAGAR - DMS CKT.	TPDDL		CABLE FAULTY. Expected by 30.09.2017
15.	33kV BAY -28 (IP - CONNAUGHT PLACE) CKT	NDMC	20.08.2017	CABLE FAULTY. PERMISSION WITH PWD AWAITED.
16.	400kV BAMNAULI - JHAKTIKARA CKT.-I	DTL	22.05.2016	Dead end Tower No.-169 along with gantry collapsed at Bamnauli end. Ckt.-II charged on ERS. Gantry created. Tower material is under inspection. Expected by 20.09.2017.
17.	220/33kV 100MVA PR.TR.-II AT 220 kV LODHI ROAD	DTL	22.03.2017	Transformer tripped on differential protection and Buchhloz relay. Transformer is faulty and to be replaced.
18.	400kV BAWANA - MUNDKA CKT.- I&II	DTL	14.05.2017	Legs of tower no.-116 twisted due to fire beneath the line. Ckt.- I & II energized upto tower no. 115 from Bawana end. Jumper opened at tower no. 115. Tender could not be matured and refloated. Expected by 30.11.2017.
19.	220KV GZP – PATPARGANJ CKT	DTL	05.08.2017	R-Phase Cable damaged by NHAI during excavation works. Cable energized on 28.08.2017.
20.	220/33kV 100MVA PR.TR.-I AT 220kV NARAINA	DTL	26.07.2017	Transformer damaged due to fire. Another Transformer expected by 30.11.2017
21.	220/33kV 100MVA PR.TR.-I AT 220kV PATPARGANJ	DTL	14.08.2017	Transformer under shutdown as the DGA values are abnormal expected to energise by 26.08.17. Expected in first week of Sep 2017.

## **ADDITIONAL AGENDA FOR DISCUSSION**

### **1. SLDC Agenda**

#### **(i) Shutdown procedure for 400kV shutdowns:**

As per current practice, 400kV shutdowns require approval from NRPC Outage Co-ordination Meeting. Manager,(Bawana) gives consolidated shutdown request from DTL to SLDC to put up in NRPC Outage Co-ordination Meeting. SLDC forward the consolidated list to NRPC before 07 th day of that month.

In this process all the 400kV shutdowns comes to SLDC without the consent of OS Department.

#### **SLDC request the following:**

1. All the consolidated list of 400kV shutdowns must route through OS Department.
2. Officials from OS department should also attend the NRPC Outage Co-ordination meeting.

**The matter was deliberated and it was advised that O&M deptt. would send the planned Shut-downs for the month at 400 kV level to OS deptt. by 2<sup>nd</sup> day of the preceding month. OS deptt. will send the compiled shut-down list to SLDC by 5<sup>th</sup> day of each month for onward submission to NRPC. Nodal officer from O&M as well as from OS deptt. will attend the NRPC Outage Co-ordination meeting.**

#### **(ii) Agenda point no.15 from 138 th NRPC OCC Meeting:**

**RGMO/FGMO compliance by generators in the region (Agenda based on letter by CERC)**

CERC (IEGC) 5th amendment of IEGC dated 12.04.2017 provides that all Coal/lignite based thermal generating units of 200 MW and above, Open Cycle Gas Turbine/Combined Cycle generating stations having gas turbines of capacity more than 50 MW each and all hydro units of 25 MW and above should provide RGMO/FGMO response. Further, it has been provided at Regulation 5.2(h) that ‘RLDCs/SLDCs should not schedule the generating station or unit(s) thereof beyond ex-bus generation corresponding to 100% of the installed capacity of the generating station or unit(s) thereof and that the generating station shall not resort to Valve Wide Open operation of units’ so that primary response is ensured. CERC in its letter dated 05.06.2017 has directed to obtain the status of availability of RGMO/FGMO response from the generators (ISGS as well as intra-state generators) in the region.

*The latest status of RGMO/FGMO available with NRPC is attached in ANNEXURE –F. All the Utilities are requested to check and update this status.*

*Annexure-F :*

S.No.	Power Station	Unit size	No of units	Installed Capacity	Status of RGMO/FGMO					Reason for seeking exemption/ extension	Status not available	Remarks
					Units required to operate under RGMO/ FGMO as per IEGC	Units operating under RGMO	Units operating under FGMO with manual control to achieve RGMO	Units operating with inoperative governor /locked governor	Units exempted from RGMO/ FGMO by CERC			
<b>CENTRAL SECTOR</b>												
<b>NTPC (Thermal)</b>												
1	Badarpur TPS	3x95 + 2x210	5	705	2	0	0	2	0	2	Mechanical governors	
<b>Delhi</b>												
4	Indra Prastha Gas station	6x30+3x34	9	282.00	0	0	0	0	0			
5	Pragati GasTurbines	2x104+1x122	3	330	3	0	0	0	0			
6	Bawana	4x216+2x253	6	1370	6	0	0	0	0			
7	RajghatTPS	2x67.5	2	135	0	0	0	0	0			
8	Rithala GPS	3x36	3	108	0							

***Delhi Genco’s & BTPS are requested to give latest updates regarding RGMO/FGMO.***

**The matter was deliberated and all the Generating stns of Delhi as well as BTPS were requested to update the status within fifteen days.**

**(iii) Agenda point no.11 from 138 th NRPC OCC Meeting:**

**System Study for Capacitor Requirement in NR for the year 2017-18.**

*Comments on the report were received from RVPNL and DTL and the same were discussed with CPRI. After the discussion, CPRI has submitted an amended report (uploaded on NRPC website) wherein clarification is provided for Table 11 of the draft report, in which, recommendations are made regarding the quantum of additional capacitor bank needed to be installed along with those that needs to be switched ON from the existing ones .*

***Earlier recommendations :***

Table 11.Recommended Capacitor Compensation for the northern grid.

Sl. No	Utility	Existing Capacitor Bank		Newly Recommended banks (c) (MVAR)	Total (d = a+c) (MVAR)
		Operational (a) (MVAR)	Not in operation (b) (MVAR)		
1	Punjab	1563.9	0	1039.26	2603.16
2	Haryana	59.7	167.4	2163.58	2223.28
3	Rajasthan	235.5	3934.25	1299.05	1534.55
4	Delhi	0	0	712.56	712.56
5	Uttara Pradesh	1367.2	0	4531.6	5898.8
6	Uttarakhand	0	0	523	523
7	Himachal Pradesh	609.14	687.48	0	609.14
8	Jammu- Kashmir	0	0	1102.8	1102.8
	Total	3835.44	4789.13	11371.85	15207.29

**Amended Recommendations:**

Table 11.Recommended Capacitor Compensation for the northern grid.

Sl. No	Utility	Existing Capacitor Bank		Recommended to be switched on from column.(b)	Additional Recommended capacitor banks	Total capacitor banks (a+c+d)
		Operational	Not in operation			
		(a) (MVAR)	(b) (MVAR)	(c) (MVAR)	(d) (MVAR)	(e) (MVAR)
1	Punjab	1563.9	0	0	1039.26	2603.16
2	Haryana	59.7	167.4	167.4	1996.18	2223.28
3	Rajasthan	235.5	3934.25	1299.05	0	1534.55
4	Delhi	0	712.56	712.56	0	712.56
5	Uttara Pradesh	1367.2	0	0	4531.6	5898.8
6	Uttarakhand	0	0	0	523	523
7	Himachal Pradesh	609.14	687.48	0	0	609.14
8	Jammu- Kashmir	0	0	0	1102.8	1102.8
9	Total	3835.44	4789.13	2179.1	9192.84	15207.29

Clarification: Reference Draft report

In Row no-04 of Table 11, 712.56 MVAR was mentioned as newly recommended. Actually this is already existing capacitor bank but not in operation (was a typing error). Corresponding changes incorporated in Amended version.

***This is for information to OCC members.***

OCC noted the above.

**(iv) Requirement of 150-200MW power for 7 days from 220kV Gazipur Sub station to 220kV Sahibabad S/Stn of UPPTCL.**

Vice Chairman, GDA vide dt. /4/E-E-(Project)/2017 dt. 03.08.2017 has requested DTL for providing 150-200MW Power for 7 days from 220kV Gazipur S/Stn. due to shutdown of 220kV Muradnagar – Sahibabad Double ckt. for construction of via duct of Metro corridor near Meerut road crossing.

In this regard today DMRC representative has informed SLDC, Delhi that they intend to avail shutdown of 220kV Muradnagar – Sahibabad Double ckt. from 09.09.2017 to 15.09.2017 for construction of via duct of Metro corridor near Meerut road crossing.

Load of 220kV Gazipur is mainly fed through 220kV Maharani Bagh – Gazipur Double ckt. and each ckt. capacity is 600Amps (200MW).

During August 2017 Gazipur sub station has catered maximum load of 186MW on 17.08.2017 at 22.46hrs. Last year maximum load of Gazipur S/Stn in the month of August 2016 was 172MW on 20.08.2016 at 23.00hrs.

Load pattern of Gazipur s/stn along with 220kV Patparganj and Harsh Vihar sub station for the last 10 days has been analysed at the time of occurrence of Delhi peak demand the details of the same is as under :

Date	Time	Delhi peak Demand	Loading at the time of occurrence of Delhi peak demand		
			Gazipur	Patparganj	Harsh Vihar
14.08.17	23.18.29	5422	104	131	158
15.08.17	00.00.16	5292	103	131	156
16.08.17	22.43.39	5859	105	94	168
17.08.17	22.46.39	6053	186	100	199
18.08.17	22.50.57	6129	137	153	175
19.08.17	00.00.11	5928	127	144	176
20.08.17	22.14.40	5810	127	77	185
21.08.17	22.55.08	5829	138	133	165
22.08.17	23.03.03	5601	183	73	157
23.08.17	00.00.03	5392	172	63	154

In case of exigency part load of Gazipur sub station can be shifted to 220kV Patparganj and Harsh Vihar sub station. In addition to this, part load (approx. 25MW) of Gazipur can also be shifted to 66kV Akshardham S/stn which is fed from GT stn of IPGCL.

Looking into the above load scenario of Gazipur s/stn, Delhi may provide 150-200MW power at 220kV Sahibabad S/stn from 220kV Gazipur s/stn for 7 days. However, in case of outage of any one ckt. of 220kV Maharani Bagh – Gazipur ckt would lead to load shedding as 220kV Patparganj – Gazipur single ckt is under breakdown since 05.08.2017. As far as 220kV BTPS – Noida – Gazipur Single Ckt. is concerned BTPS does not have sufficient generation to supply power to Gazipur sub station.

**The matter was deliberated and consensus was made to provide upto 150 MW load to UPPTCL during 09.09.2017 to 15.09.2017. This is subject to the condition that any contingency should not occur at Ghazipur Sub-stn during this period.**

## **2. Shutdown request of Power Grid for Loop in Loop out of 220 kV Bamnauli-Naraina Transmission line at 220/66 kV Pappankalan-III Sub-station.**

M/s Powergrid have requested the shutdown of 220 kV Bamnauli-Naraina Transmission line for Loop in Loop out at 220/66 kV Pappankalan-III Sub-station.

They have informed that two nos. of new towers required for the LILO of this line are to be placed in the same alignment, for which foundation work has already been completed. However, for the tower erection and stringing work, shutdown of both ckt. is required for around 15 days. M/s Powergrid have requested that the intimation of approved shutdown be given to them in advance (15 days).

The shutdown request of Powergrid was also discussed in the OCC meeting held in the month of June-2017, wherein DTL had enquired PGCIL about readiness of sub-station of Pappankalan-III. PGCIL informed that erection work is in progress and they will inform after confirming from sub-station erection wing.

**After deliberation the shutdown for 220 kV Bamnauli-Naraina D/C were tentatively approved w.e.f. 26 sep to 10 oct 2017. However, O&M depts. of DTL should ensure for inter-connection between 220 kV Bamnauli-Pappankalan Ckt.-I to 220 kV Bamnauli-Naraina Ckt.-II near Madhu Vihar depot before the proposed shutdown for 220 kV Bamnauli-Naraina D/C.**

**3. Shutdown of both Circuits of 220kV Underground Cable Transmission link between Trauma Centre and Ridge Valley for the Turnkey project of Shifting of 220kV Double Circuit XLPE Cables of 1000Sqmm in Section-2 (JB1-JB2) and in Section-3 (JB2-JB3) between 220kV GIS Ridge Valley Sub Station and 220kV GIS Trauma Center (AIIMS) Sub Station for Construction of Underpass at the Junction of BJ Marg and Inner Ring Road (Deposit work of PWD).**

DTL Project-II depts. have requested for providing shutdown of both Circuits of 220kV Underground Cable Transmission link between Trauma Centre and Ridge Valley for 25 days with immediate effect in connection with the subjected work. They have informed that the jointing team of M/s LS cable & System Ltd. are ready to commence the jointing work at JB 2 and JB 3.

**After deliberation, the Shutdown of 220 kV Trauma centre-Ridge valley ckt.-II was tentatively approved w.e.f. 04.09.2017 to 14.09.2017, and that of 220 kV Trauma centre-Ridge valley ckt.-I was tentatively approved w.e.f. 15.09.2017 to 25.09.2017. DTL Project-II depts. should ensure for deployment of sufficient man-power to accomplish the job within the schedule time frame.**

#### **4. BTPS Agenda**

1. Shutdown of 220 KV Bus#2 required from 09:00 hr to 17:00 hr on 12.09.17 for attending hotspot at BTPS Switchyard

**After deliberation, Shutdown of 220 KV Bus#2 was tentatively approved from 09:00 hr to 17:00 hr on 12.09.17.**

2. Frequent tripping of BTPS-Mehrauli#1&2. Necessary requirement may be under taken to avoid unwanted outage.

**DTL informed that there are unauthorized constructions in the vicinity of 220 kV BTPS-Mehrauli Ckt.-I & II for which matter has already been taken up with the civic agencies and local police. Several times the tripping occurred during throwing of TV cable/wires across the live conductor as well as due to kite flying.**

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](http://www.dtl.gov.in)) under the Tab "News and Information – OCC Meeting".

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