



**DELHI TRANSCO LIMITED**  
(A Govt. of NCT of Delhi Undertaking)  
An ISO 9001:2008 certified company  
Office of DGM(T) OS, Convener-OCC  
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No. F.DTL/831/F.4/2017-18/DGM (OS)/30

Date:22.06.2017

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

<b>DTL</b>	General Manager (O&M)-I, Chairman OCC General Manager (O&M)-II Executive Director (Planning) Fax No.011-23622707 DGM (O&M)- North, East, West, South DGM (M/P) DGM(Plg.)	Fax no. 011-23366160
<b>SLDC</b>	GM (SLDC) DGM (SO)	Fax no. 011-23221069 Fax no. 011-23221059/12,
<b>TPDDL</b>	HOD (PSC &AM) Sr. Manager (PSC)	Fax no. 011-66050602 Fax no. 011-66050602
<b>BRPL</b>	Asstt. Vice President (SO)	Fax no. 011-39996549
<b>BYPL</b>	General Manager (SO)	Fax no. 011-39996549
<b>NDMC</b>	Superintending Engineer	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: Agenda for OCC Meeting to be held on 28.06.2017 (Wednesday) at 2:30 P.M.**

Dear sir/madam,

The next OCC meeting is scheduled to be held on dt.- **28.06.2017(Wednesday) at 2:30 P.M.** at the following venue:-

**SLDC Building, Minto Road, Opp. MCD Civic Centre, New Delhi-110002**

You are hereby requested to attend the meeting in accordance with the agenda enclosed herewith.

Thanking You.

**Encl: Agenda for OCC meeting.**

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

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

**AGENDA FOR OCC MEETING DT. 28.06.2017**

**Date** : 28.06.2017 (Wednesday)  
**Time** : 2:30 PM  
**Venue** : SLDC Building  
Minto Road, Opp. MCD Civic Centre,  
New Delhi-110002

**1. Confirmation of minutes of OCC meeting held on dated 26.05.2017.**

An OCC meeting was held on 26.05.2017 in accordance with the agenda circulated vide letter dt. 23.05.2017. Minutes of the aforesaid OCC meeting were issued vide letter dt.07.06.2017.

**Members may like to confirm the same.**

**2. DTL Agenda :**

**2.1 Status of Hot Reserve of transformers at all levels.**

The status of hot reserve of transformers at all levels were discussed during the OCC meeting held on dt.-28.02.2017. The status as on 28.02.2017 was as under:-

S. No.	Transformation Capacity	Present population in nos.	Status as on 28.02.2017
1.	400/220kV Tx 500MVA ICT	2	It was deliberated in the OCC meeting on 30.01.2017 that the 315 MVA ICT EMCO make dismantled from Bawana Sub-stn which is being repaired will be considered as hot reserve and will be commissioned at Tikri Kalan. The matter for hot reserve of 500MVA Capacity may be discussed in NRPC OCC as no. of 500MVA Transformers is growing. O&M-I Department will take up with NRPC in OCC meeting. <b>It was deliberated in the OCC meeting on 28.02.2017 that DTL O&amp;M-I Department will take up the matter with NRPC in OCC meeting regarding regional spare of 400/220kV 500MVA ICT.</b>
	400/220kV Tx 315MVA ICT	14	
2.	220/66kV Tx 160MVA	22	DTL informed that the 160 MVA transformer at Kanjhawala (previously considered as hot reserve) was transferred to PPK-I and the 100MVA Tx at PPK-I was routed to Park street for replacement of the failed 100 MVA transformer. OCC had advised DTL to start the process for purchase of a new 160MVA Power transformer as hot reserve. DTL Planning deptt. informed in the OCC meeting on 30.01.2017 that as decided in the Steering Committee meeting held on 04.01.2017, a new 160MVA Tr. is proposed for Kanjhawala Sub-stn and the same will be treated as hot reserve.

			<b>Representative of DTL Planning deptt. informed OCC that the scheme for new 160MVA Tr. has been prepared and is under approval stage.</b>
3.	220/66kV Tx 100MVA	41	DTL informed that one no. new 220/33kV, 100MVA Tx, IMP make which was earlier planned to be commissioned at 220kV Patparganj Substation as hot reserve is to be commissioned at 220kV Sub-stn Geeta colony in view of the failure of 220/33kV, 100MVA Tx, BHEL make at 220kV Sub-stn Geeta colony.
4.	220/33kV Tx 100MVA	41	<b>During the OCC meeting held on 28.02.2017 it was informed by Planning deptt. that the 220/33kV, 100 MVA Tr. meant for Karpura project will be diverted to Patparganj Sub-stn as hot reserve. Further, The 220/66kV 100 MVA Tr. dismantled from Pappankalan-I Sub-stn will be treated as reserve after its repair. The place of commissioning and charging conditions, i.e. Hot/Cold reserve will be finalized by Planning deptt depending upon availability of space.</b>
5.	66/11kV 20MVA Tx.	24	DTL Planning department informed that the scheme for 25MVA/31.5MVA power transformers has been prepared and the same are for replacement of aged transformer and not for hot reserve. OCC had advised DTL to get the approval of DERC for cold reserve transformers each at 66kV and 33kV level for further action.
6.	33/11kV 20/16MVA Tx.	16	<b>DTL Planning deptt. confirmed that as decided in the recent steering committee meeting, Discom will give Transformer on loan basis as and when required in case of exigencies as there is a regulating embargo for building up 11kV assets.</b>

**DTL may update the status.**

## **2.2 Implementation of Special Protection Scheme**

The matter has been deliberated in the previous OCC meetings, wherein it was decided that to meet the expected Summer demand of 6600 MW and to avoid cascading outage of any transmission element, Special Protection Schemes be devised to obviate complete blackout of sub-stations in case of outage of any of the system elements during peak time, where severe constraints are in existence. Crucial transmission system including 220 kV transmission lines and 220/66 kV & 220/33 kV Transformers have been identified which are likely to be over loaded during the peak time this Summer.

The operation of Special Protection Scheme has to be activated when the loading of 220 kV transmission Lines consisting of Zebra Conductors reaches to 700 Amp. It was decided that scheme to be worked out so that the tripping command of 66 kV, 33 kV feeders and 11 kV incomers can be given in stages so as to disconnect the load before the parallel over loaded

upstream feeder/transformer Over current Relay initiate trip command on Over current protection. The feeders have been identified by the DISCOMs for disconnection in such scenario for the following specific transmission lines and are as under:

S. No.	Name of the Circuit	66/33 kV Feeders which can be switched off during the exigencies.
1	220 kV Bamnauli-Papankalan-I ckt-I & ckt-II	66 kV BindapurCkt-I & II 66 kV BudhelaCkt-I & II
2	220 kV Bamnauli-Papankalan-II ckt-I & ckt-II	66 kV Matiala-I & II
3	220 kV Bawana-Rohini-I ckt-I & ckt-II	66 kV RG-24 Ckt.-I & II 66 kV DC-I & II
4	220 kV Ballabgarh-BTPS –I & II	The committee decided that during the exigency at Ballabgarh-BTPS –I & –II, the 66 kV Malaviya Nagar-III, 33 kV Tughlakabad and 20 MVA Tr.-1 & 2 shall be switched off from 220 kV Okhla grid.
5	220 kV Mandola-GopalpurCkt –I & II	33 kV Model Town-I & II 33 kV Indira Vihar-I& II
6	220 kV BTPS-Mehrauli-I & II	Scheme is already commissioned. Tripping of 66 kV Malviya Nagar –I & II and 66 kV C Dot-I & II for reliability of DIAL supply and to avoid isolation of BTPS from Bamnauli when the system is interconnected.
7	220 kV Mundka-Peeragarhi-I & II	Manual load management
8	220 kV Mundka-Najafgarh	2 nos Local Transformers, 66 kV Nangloi, 66 kV Jafarpur
9	220 kV BTPS-Okhla-I & II	The committee has decided that during the exigency at Ballabgarh-BTPS ckt. I & II, The 66 kV Malaviya Nagar-III, 66 kV Okhla phase-1 ckt.-1 & 2 & 33 kV Tughlakabad shall be switched off from 220 kV Okhla grid.
11	220 kV Pragati-Park street-I & II	Manual load management
12	220 kV Mandaula-SOW-I,II,III and IV running parallel	66 kV Shastri Park at SOW and all 33 kV feeders at Geeta colony.
13	220 kV Ridge valley- Naraina	Scheme is already commissioned. Tripping of 33 kV Inderpuri –I and II in Stage -1 and 220 kV Bus Coupler in Stage –2 to avoid overloading of Ridge-Valley cable when Maharani Bagh and Bamnauli supply are interconnected through this link.

The Special Protection Scheme (SPS) will be configured in respective Numerical Relays by the Protection Deptt. As decided in the previous OCC meeting, the work of laying and termination of 4Cx2.5sq. mm Control Cable from 220 kV Feeder Relay panel to the respective 66/33 kV panel in respect of 220 kV transmission lines as mentioned above is to be done by the respective Sub-Station In-charge in consultation with the Protection Deptt., where the scheme are to be implemented.

**During the last OCC meeting, It was informed by DTL that the Special Protection Scheme (SPS) has been implemented for all the above 220 kV feeders except 220kV BTPS-Okhla ckt.-I & II which is expected to be completed by the end of May month.**

**DTL to update the status.**

### **2.3 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 previous OCC meeting, It was informed by BRPL that there was a line fault in 11kV feeder which led to fire in 11kV panel board due to which the DC supply got failed. However, a committee has been formed by BRPL for detailed analysis of the breakdown/fire. OCC requested BRPL to update the breakdown analysis by their committee in the next OCC meeting with all the desired details. BRPL agreed for the same. The matter was referred to protection sub committee for detailed analysis of the breakdown and suggesting the remedial measures to avoid the reoccurrence of such events.**

**BRPL may update the breakdown analysis.**

### **2.4 Installation of Line differential relays in 66kV/33 kV O/G feeders from DTL.**

As decided in the 6<sup>th</sup> Delhi GCC Meeting DISCOMs are supposed to provide Line differential relay for faster and selective fault clearance. The matter was also discussed in the last protection sub committee meeting, in which the need was felt to install Line Differential Relays in 66 kV/33 kV O/G feeders from DTL. As per present scenario many of the DISCOM feeders emanating from DTL S/Stns are not being provided with Line differential relay which also require the fibre connectivity to be provided by DISCOM along with cable between DTL S/Stns to DISCOMs S/Stns along with the new commissioned feeders.

**During the previous OCC meeting, It was deliberated that the discoms will submit the action plan for installation of line differential relays in the feeders emanating from DTL as well as in the feeders of their own network in the next OCC meeting.**

**Discoms may update the action plan.**

## **2.5 Disturbance in Delhi power supply on 21<sup>st</sup> May 2017 following rain and thunderstorm.**

The power supply in Delhi got disturbed on 21<sup>st</sup> May 2017 following rain and thunderstorm due to various trippings. Discoms are requested to provide the list of manual load sheddings if any.

**It was deliberated during the last OCC meeting that from safety point of view some 11 kV feeders are switched off manually by the discoms. The details of manual load shedding during the rain and thunderstorm will be provided by the discoms in the next OCC meeting.**

**Discoms may update.**

## **2.6 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.

**During the last OCC meeting, It was informed by BRPL that some transformers have been removed from site and the rest will be removed by 20<sup>th</sup> june. OCC advised BRPL for expediting the same. DTL should follow up with BRPL.**

**BRPL/DTL may update the status.**

## **2.7 Unbalanced loading on 100 MVA, 220/33 kV Tr. No.-1 & 2 at 220 kV Wazirpur Sub-stn. due to non switching of 33 kV Bus coupler at TPDDL end.**

It has been informed by DTL that on dt.-06.06.2017, when the total Delhi load was 6450 MW, there was unbalanced loading on 100 MVA, 220/33 kV Tr. No.-1 & 2 at 220 kV Wazirpur Sub-stn. Load on 100 MVA Tr.-1 on dt.-06.06.2017 at 3:26 PM was 83 MW, while that on 100 MVA Tr.-2 was 58 MW.

**The load couldn't be balanced due to non switching of 33 kV Bus coupler at TPDDL end.**

**TPDDL/DTL may deliberate.**

## **2.8 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.**

### 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.

### 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.

### **NDMC/DTL may deliberate**

## **2.9 Open access for various RSS of DMRC in Delhi**

In reference to DMRC letter dt. 19.05.2017 wherein DMRC have stated that they have signed a Power Purchase Agreement for 25 years to procure solar power from REWA ULTRA MEGA SOLAR LIMITED for procuring solar power through OPEN ACCESS.

Vide their letter dt. 19.05.2017 DMRC quoted a reference of meeting held on 13.01.2017 with DTL and stating that DTL had principally agreed to DMRC's request for change of CTs and PTs at DTL end by DMRC at their own cost.

As per guidelines issued by Hon'ble DERC, the metering equipment and arrangement are to be installed at open access consumers premises. However, vide their letter dt. 19.05.2017 quoting reference of Minutes of Meeting held on 13.01.2017, DMRC is asking for change of CT/PT at DTL end.

Further, as per Hon'ble DERC guidelines for open access metering "Metering CT/PT should be exclusive for metering purpose. These will not be allowed for protection purpose." This also needs clarification from Hon'ble DERC that CT/PT having Metering & Protection core on the same CT/PT are to be allowed OR not for open access metering OR separate CT/PT for metering and protection to be installed.

### **DMRC/DTL may deliberate.**

### 3. SLDC Agenda

#### 3.1 Peak Demand loading analysis

The peak demand of Delhi has occurred on 06.06.2017 at 15.31.37 hrs. During the time the demand of 6526MW was met.

The loading of 400kV and 220kV Grid sub stations occurred at the time of peak was analysed.

The gist of the analysis is as under :

Voltage level	Total number of stations	Number of sub-stations where n-1 criteria does not meet	Details of Sub-stations/ Lines where n-1 criteria does not meet
400kV	6 (Including 400kV Mandola & Maharani Bagh of PGCIL)	1	without 500MVA at Bamnauli
220kV	36 (including 220kV Maharani Bagh)	10	Gopalpur, Shalimarbagh, Khanjawala, Okhla, Geeta Colony, Park Street, Subzi Mandi, Trauma Centre, Wazirpur & Peeragarhi.
400kV lines	13 pairs (26 nos)	--	
220kV lines	51 pairs (102 nos.)	11 pairs	Bamnauli – Dial Ckt I&II, Bamnauli – Papankalan-I Ckt. I&II Bamnauli – Papankalan-II Ckt. I&II Bawana – Rohini Ckt. I&II BTPS – Ballabgarh Ckt. I&II Gopalpur – Mandola Ckt. I& II BTPS – Mehrauli Ckt. I& II Narela – Rohtak Road Ckt. I& II BTPS – Okhla Ckt. I& II Pragati – Park Street Ckt. I& II Mandola –Wazirabad Ckt. I, II, III & IV

The Sub station wise, Line wise loading and Capacity utilization of the elements is enclosed as annexure.

**OCC may deliberate.**

#### 3.2. Load shedding at the time of Peak

It has been reported that load shedding occurred in BRPL Areas due to issues in EHV System. The details are as under :

Name of S/Stn	MW	Reason
D.C.SAKET	3	DUE TO OVER LOADING OF 33kV MASJID MOTH-D.C. SAKET CKT.
MALVIYA NAGAR	3	DUE TO OVER LOADING OF 66kV MEHRAULI MALVIYA NGR CKT.
NDSE	5	DUE TO OVER LOADING OF 33kV R.K. PURAM -I CKT.
NANGLOI WATER WORKS	3	DUE TO OVER LOADING OF PR.TR.-II
	9	DUE TO BREAK DOWN OF PR.TR.-III
SARAI JULIANA	4	DUE TO OVER LOADING OF 33kV JASOLA - SARAI JULIENA CKT.



**BRPL may indicate the remedial measures to avert the load shedding in the above areas.**

### **3.3. Low Voltage problem persisting in the Grid.**

With the onset of Peak demand season the voltages at various grid sub stations started sinking down. At the time of occurrence of peak demand Delhi power system was drawing about 490MVAR from the Grid. The drawal of reactive power by different utilities at the time of Delhi Peak was observed as under :

<b>Utility</b>	<b>Drawal in MVAR</b>
TPDDL	80
BRPL	168
BYPL	178
NDMC	50
MES	7
<b>TOTAL</b>	<b>483</b>

It was also observed that the capacitors installed at various sub stations of DTL were found not operative as detailed hereunder :

<b>Name of Sub station</b>	<b>Voltage level</b>	<b>Capacity down (MVAR)</b>	<b>Remarks</b>
Lodhi Road	33kV	20	Capacitors are dismantled due to shortage of space for working for the commissioning of 220kV GIS and removal of the faulty 100MVA transformer.
Sarita Vihar	11kV	5.04	The capacitors are not in operating condition.
Vasant Kunj	11kV	5.04	The capacitors are not in operating condition.
I.P. Stn.	33kV	10	Breaker problem
<b>Total</b>		<b>40.08</b>	

All the utilities are requested to ensure the operation of capacitors as per the guidelines and revive the capacitors lying under breakdowns for maintaining normal voltage.

**OCC may deliberate**

### **3.4. Details of power consumption, supply and demand as per various users (residential, industrial etc) for monitoring of Perspective Plan for Infrastructural Services – MPD -2021.**

Delhi Development Authority vide their letter no. F.15(02)/2017/92 dated 24.02.2017 has requested for providing the details of power consumption, supply and demand as per various users (residential, industrial etc) regarding monitoring of Perspective Plan for Infrastructural Services-MPD 2021.

The detailed requirement is as under :

TENTATIVE CHECKLIST OF THE INFORMATION TO BE INCLUDED W.R.T. UPDATION OF PERSPECTIVE PLANS FOR INFRASTRUCTURE SERVICES IN MASTER PLAN OF DELHI.

POWER SECTOR

1. Status / Action taken w.r.t. implementation of Perspective Plan, 2021 as annexed in MPD-2021.
2. Updated / Current scenario and future projections / Augmentation Plan (to be shown also on MAPS) w.r.t. :
  - a. Details of Power consumption, supply and demand as per various uses (residential, Industrial, etc. )
  - b. Details of existing and propose power generation stations with capacity (in MW).
  - c. Detail of transmission networks, sub station, grids, etc
  - d. Details of issues / action plan/proposal to supplement power requirements through non conventional sources of energy, solar energy or incorporation in MPD.
  - e. Detail of issues/action plan / proposals for energy conservation for demand side management for incorporation in MPD.
  - f. Any other requisite information as applicable.
3. Ongoing projects : Project Components, area & population covered.
4. Future plans and proposals in next 5-10 years and 20 years (including target areas, estimated requirements, sources, distribution, etc) for necessary inclusion in the Master Plan taking into consideration emerging issues w.r.t. land constraints, technology advancements, environment etc.
5. Any other new information / notified amendments related to policy, rules legislation etc as applicable for updation / incorporation in the Master Plan.

SLDC vide its letter dt. 31.05.2017 has requested the Discoms to provide the information.

**OCC may deliberate.**

**3.5 Providing reliable and efficient data communication of G.T. to SLDC.**

The real time SCADA data of GT Station is presently available to SLDC through SIC (Supervisory Interface Control) panel installed at GT Control room under ULDC phase-I scheme in the year 2002 by PGCIL. The digital and analog data is provided through cable laid from the SIC panel in GT Control room to IP Extension control room of DTL, where the RTU and communication equipments are installed.

Presently, the data of GT is very irregular/intermittent which is mainly due to the outdated transducers, CMRs and the aged long length cables laid out from the GT control to IP Extension control room.

NRPC/PGCIL vide their letter dt.01/07/16 had already directed NR constituents to replace their RTUs/equipment installed under ULDC phase-I since they have outlived their life and no OEM support is available for them. This has also been repeatedly discussed in the various TEST meetings wherein the representatives of IPGCL/PPCL were present. The

equipments have to be replaced by the utilities of their own for which NRPC has already issued final RTU specifications on their website.

In this regard, DTL has initiated a proposal for replacement of RTUs installed at various S/Stations in line with the latest NRPC approved specifications of RTU. Further as per Delhi Grid Code “Clause No. 17.0” All users are required to install necessary equipments at their end to provide real time data upto SLDC.

In view of the statutory provisions with regard to provide real time operational data to SLDC for efficient grid operation, IPGCL has to provide RTUs and communication for delivering real time data to SLDC. The OCC may impress upon the same.

**3.6 System Study for Capacitor Requirement in Northern Region for the year 2016- 17 and 2017-18.(134 th & 135 th NRPC OCC),(Agenda by SLDC)**

A study for Capacitor bank requirement was carried out by CPRI on request of NRPC for 2017-18.

CPRI has submitted the detailed report for capacitor bank requirement in Northern Region for 2017-18.

Recommended Compensation for the Delhi as per Draft report:

S. No	Utility	Existing Capacitor Bank		Newly Recommended Banks (c) (MVAR)	Total (d=a+c) (MVAR)
		Operational (a) (MVAR)	Not in operational (b) (MVAR)		
1	DELHI	0	0	712.56	712.56

# The modelling for system study for capacitor bank requirement done at 132kV Voltage level and above.

The above details has also been discussed in 17<sup>th</sup> GCC Meeting.

The detail report is available on NRPC website:

[http://www.nrpc.gov.in/Reports/other/Report-NRPC\\_Draft.pdf](http://www.nrpc.gov.in/Reports/other/Report-NRPC_Draft.pdf)

NRPC is asking comments on the draft report.

**It was deliberated in the previous OCC meeting that all the discoms and DTL (Planning) department should submit their comments latest by 15<sup>th</sup> June, 2017.**

**Discoms/DTL/SLDC may deliberate.**

**4. TPDDL Agenda**

**4.1 Power up issue for newly commissioned TPDDL communication equipment at DTL end:**

TPDDL had installed their MPLS Communication Equipment, Rack, Battery set, power and control cable and auxiliary switches and other devices at 6 nos. DTL Grid Sub Stations to improve communication technology. Now to power up these equipment power source is required from Grid Substation. Some Grid Manager has raise concern about energy consumed by TPDDL equipment and its billing. TPDDL have informed that **Max. Power**

**Consumption by MPLS equipment is only 4 Amps (while battery set is fully charged) and 6- 8 Amps (while battery set is discharged).**

TPDDL have requested to suggest whether meter is required for such low consumption and if required what will be the procedure for installing single phase energy meter.

DTL Grid S/stn where new Communication equipment (MPLS) has been installed are –

1. 220kV Rohini- 1,
2. 220kV Rohini- 2,
3. 220kV Shalimar Bagh
4. 220kV Gopalpur
5. 220kV Peeragarhi
6. 220KV Kanjawala

**4.2 Intimation of variable cost pertaining to Delhi Genco power plants on daily basis.**

TPDDL have informed that they have power allocation from Delhi Genco gas based stations namely Pragati-1, GT & Bawana (PPS-3). In this regard they have requested IPGCL/PPCL to intimate them on a daily basis for-

- (a) The variable cost of power
- (b) Related generation capacity of the plant considering daily gas availability (APM, Non APM, Spot Gas, RLNG etc.)

The same would help them in optimum scheduling of power from these stations considering the merit order dispatch.

They have requested to send the information on a daily basis at the following mail ids:-

- (a) power.manager@tatapower-ddl.com
- (b) mehra.deepak@tatapower-ddl.com

**TPDDL & IPGCL/PPCL may deliberate.**

**5. Proposed Planned Shutdowns**

**5.1 Proposed shutdowns of O&M, DTL**

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

**OCC may deliberate.**

**5.2 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 if the shutdown is deferred, the construction agencies engaged for LILO and for Sub-stn work

shall be forced to detain their manpower, for which financial implications if any will be on DTL part.

**OCC may deliberate.**

### 5.3 Shutdown request of PPS-III, Bawana, PPCL

PPS-III Bawana, PPCL have requested shutdown of **400 kV Bus-II on dt.-01.08.2017** w.e.f. 07:00 hrs. to 17:00 hrs. for the following work :-

(i)Alignment of bus isolator of new 400 kV bay no. 412 by BHEL TBG.

(ii)Stability test for bay no. 411 by BHEL TBG.

(iii)Attending a hot spot (111°C, Ambient temp.-40°C, Load-388A) at Y-Phase of Bus isolator clamp (bus side) of bay 413).

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

Members to update the status of following Long/Recent outage of Elements in Delhi Power system:

S.N	Element's Name	Discom/ DTL	Date and Time of outage	Status as on 23.06.2017
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	BRPL	31.01.2016	R-PHASE SINGLE CABLE FAULTY.
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	CABLE FAULTY
5.	33kV RIDGE VALLEY-AIIMS CKT	BRPL	16.06.2017	CABLE FAULTY
6.	66kV SAGARPUR - REWARI LINE CKT.	BRPL	30.07.2016	'B' PH. CABLE FAULTY. RE-ROUTING BEING DONE.
7.	66kV BUS COUPLER AT G-15 DWARKA	BRPL	22.11.2016	CT BLAST.
8.	30MVA PR.TR. AT NANGLOI	BRPL	18.03.2017	PROBLEM IN RELAY.
9.	66kV MUNDKA-NANGLOI CKT	BRPL	08.05.2017	B & Y-PHASE CABLE FAULTY.
10.	33kV NARAINA(220kV) - MAYA PURI CKT.-I	BRPL	03.06.2017	R & B-PHASE SINGLE CABLE FAULTY.

11.	33kV NANGLOI - UDYOG NAGAR CKT-II	BRPL	20.06.2017	Y-PHASE SINGLE CABLE FAULTY.
12.	33KV ROHTAK ROAD - VISHAL CKT	BRPL	22.06.2017	CONDUCTOR SNAPPED.
13.	33KV PANDAV NAGAR - DMS CKT.	TPDDL		CABLE FAULTY.
14.	33kV SUBZI MANDI - SHAHZADA BAGH CKT-II	TPDDL		SINGLE CABLE FAULTY.
15.	33KV PARK STREET - BAIRD LANE CKT	NDMC		
16.	33KV ELECTRIC LANE -33kV CONNAUGHT PLACE CKT	NDMC	01.06.2017	R-PHASE CABLE FAULTY.
17.	66KV GT - SCHOOL LANE CKT-I & II	NDMC	08.06.2017	CABLE FAULTY.
18.	33KV TRAUMA CENTRE - SAFDARJUNG AIRPORT CKT	NDMC	19.06.2017	CABLE FAULTY.
19.	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.
20.	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 energised upto tower no. 115 from bawana end. Jumper opened at tower no. 115.
21.	220KV MAHARANI BAGH - MASJID MOTH CKT-II	DTL	14.06.2017	B-phase underground cable faulty.
22.	220/33kV 100MVA PR.TR.-II AT 220kV LODHI ROAD	DTL	22.03.2017	Tripped on differential, protection and Buchhloz relay. Transformer is faulty and to be replaced.
23.	220/33kV 100MVA PR.TR.-IV AT 220kV OKHLA	DTL	07.04.2017	Tripped on differential, HV & LV windings damaged.

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