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**DELHI TRANSCO LIMITED**  
**Office of DGM (OS & Lines)**  
**Convener (Operation Co-ordination Committee)**  
**Room No. 10, 1st floor, 220KV S/ Stn. Bldg.,**  
**Naraina, C.O.D., Ring Road, New Delhi-110010**

No. F.DTL/831/F.4/2014-15/DGM (OS & Lines)/37

Date: 28.05.2014

To: **Members of Operation Co-ordination committee**

DTL	General Manager (O&M)-I Chairman OCC	Fax no. 011-23366160
	General Manager (O&M)-II	
	GM (Planning)	Fax No.011-23622707
	DGM (O&M)-I, II & III	
	DGM(400kV)	
	DGM (M/P)	Fax no. 011-23366160
	DGM(Plg.)	Fax No.011-23632031
SLDC	General Manager (SLDC)	Fax no. 011-23221069
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TPDDL	HOD (PSC &AM)	Fax no. 011-66050602
	Sr. Manager (PSC)	Fax no. 011-66050602
BRPL	Asstt. Vice President (SO)	Fax no. 011-39996549
BYPL	Dy. General Manager (SO)	Fax no. 011-39996549
NDMC	Superintending Engineer	Fax no. 011-23235754
IPGCL	DGM (I/C) RPH	
	DGM (O) GTPS	
PPCL	DGM (O) PPCL	
MES	AEE/M.SLDC Officer	
BTPS	AGM (EEMG)	Fax no. 011-26944348
BBMB	Sr. Executive Engineer, O&M	Fax no. 011-28315542
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**विषय: प्रचालन समन्वय उपसमिति बैठक दिनांकित दिनांकित 29.05.2014 (बृहस्पतिवार) सुबह 11:00 बजे की कार्यसूची ।**

**Sub: Agenda of OCC Meeting dated 29.05.2014 (Thursday) at 11:00 AM**

प्रचालन समन्वय उपसमिति की बैठक दिनांक 29.05.2014 (बृहस्पतिवार) सुबह 11:00 बजे, प्रथम मंजिल, सम्मेलन कक्ष, एस एल डी सी भवन, मिनटो रोड, नई दिल्ली के कार्यालय में संलग्न कार्यसूची के अनुरूप आयोजित की जाएगी ।

कृपया बैठक में उपस्थित होने का कष्ट करें।

The OCC meeting is scheduled to be held on dt. 29.05.2014 (Thursday) at 11:00 AM in the Conference Room, 1<sup>st</sup> Floor, SLDC Building, Minto Road, New Delhi in accordance with agenda enclosed herewith.

Kindly attend the meeting.

Sd/-

(लवलीन सिंह)

(Loveleen Singh)

उपमहाप्रबंधक (प्रचालन सेवाएं एवं लाइन्स)

Dy.General Manager (Operation Services & Lines)

संयोजक, प्रचालन समन्वय उपसमिति

Convener, Operation Coordination Committee

**DELHI TRANSCO LIMITED**  
(Regd. Office: Shakti Sadan, Kotla Road, New Delhi-110002)  
**Office of Dy. Gen. Mgr. (OS & Lines)**  
220KV S/Stn. Bldg. Naraina, New Delhi-110010  
Tele: 25683304

**AGENDA OF OCC MEETING DT. 29.05.2014**

**Date** : **29.05.2014 (Thursday)**  
**Time** : **11:00 AM**  
**Venue** : **Conference Room, SLDC Building, Minto Road.**

**1.0 Confirmation of minutes of OCC meeting dt. 25.04.2014.**

Last OCC meeting was held on 25.04.14 in accordance with the agenda circulated vide letter dt.24.04.14. Minutes of the aforesaid OCC meeting were issued vide letter dt. 07.05.2014

Members may like to confirm the same.

**2.1 Setting up of control room by MES.**

In OCC meeting dt. 03.03.14, SLDC informed that they are providing consultancy to MES for setting up of control room at Khyber Line. The estimate has been prepared by SLDC. The tendering process shall be done by MES.

MES could not attend last OCC meeting. SLDC informed that the vetting of agreement is being done by MES.

MES to update the status.

**2.2 Shifting of Control Room of NDMC from SLDC building**

In earlier OCC meeting, NDMC informed that two of their fiber cables i.e. Minto Road – Connaught Place and Minto Road – Raja Bazaar which are connected to newly constructed control room of NDMC at Nirman Bawan got damaged which need to be rectified. It was also informed that controlling of 28 nos. of NDMC substations shall be carried out from the newly constructed Control Room of NDMC, once the work of the same is completed. DTL requested NDMC to lay communication fiber cable for SLDC data requirement across the route on Minto Road- Connaught Place-Raja Bazaar to strengthen the Delhi communication network. NDMC requested that a letter in this regard to be written to them by DTL and action shall be taken accordingly.

DTL and NDMC to update.

### **2.3 Establishment of new Control Room for DTL**

In earlier OCC meeting, DTL informed that a trial operation of 33KV feeders at HCML and Trauma Centre Grid has been done.

During last OCC meeting, DTL informed that they are planning to have DTL's Control room nearer to SLDC for which PG Cell needs to be shifted. DTL informed that their Planning division is exploring the location for establishing DTL Control Room. Members suggested PG Cell at Minto Road may be shifted to Civic Center building.

DTL to update.

### **2.4 Defects in overhead power lines crossing railway traction**

Divisional Railway Manager, Northern Railway vide its letter no. DO No. 230-Elect/TRD/14/46 dt. Dec 24. 2013 informed DTL that joint survey for listing the defects of overhead Power Line crossing over electrified railway track was carried out last year with the representatives of Delhi area. The matter had been persuaded several times with the concerned officials but these defects have not been yet attended even after passing more than a year.

Railways requested DTL and Discoms for removal of defects of overhead power line crossings with railways at the earliest to avoid any breakdown and detention to Railway traffic on this account. It has also been requested to depute representatives again for joint checking of latest status of defects of overhead crossings.

TPDDL inform that in some cases the height of the line needs to be raised or convert it to underground cables for which power block is required without any charges.

BRPL requested railways to look into the issue of providing clearance for conversion of Overhead circuit to Underground cables near Bhairon Road on 33kV IP-Kilokari line.

DTL also requested railways to arrange free power block for carrying out necessary maintenance at the location where conductor repair is required.

Earlier, OCC advised DTL and DISCOMS to take up with Railways for free power block for attending the defects. DTL informed that they have written a letter to railways for providing free power block to carry out the necessary maintenance and attending to the defects identified during joint survey by the officials DTL and Railways.

Railways informed that they have sent for the approval to their board for free block to DTL and Delhi DISCOMs.

During last OCC meeting, OCC advised to again have Joint inspection for the current period along with Railways to identify the defects in Transmission lines/ Under Ground Cables. The earlier joint inspection took place in the year 2012. OCC advised DTL and DISCOMs to write a letter to Railways regarding the Joint inspection and the possible schedule dates for the same.

DTL & DISCOMS to update.

## **2.5 BBMB issues on 220kV Rohtak Road S/S**

In earlier OCC meeting, DTL informed that meeting with BBMB was held in CEA on 21.02.2014 and the options for establishment of 220kV Substation at Rohtak road by connecting it to 400kV Mundka substation as per decision taken in the 10<sup>th</sup> GCC Meeting held on 29.01.2014 explored during the joint visit of 220kV BBMB Rohtak Road S/Stn. by the officers from DTL, TPDDL, BRPL and BBMB on dt. 10.02.14 were discussed. The action shall be initiated as per the minutes of meeting of CEA. The meeting was held in the office of Member (GO&D), CEA on dt 21 Feb.2014.

During the meeting with CEA, the following deliberations were made:

DTL stated that Rohtak Road substation was being fed radially through 220 kV Narela-Rohtak Road D/C line. Re-conductoring of this line would require shutdown of both the circuits, which would lead to loss of supply in Central Delhi area being fed from Rohtak Road substation. Therefore, shutdown of this line was an issue. He further suggested that to avoid loss of supply in Central Delhi, Rohtak Road substation would require to be fed from some alternate source. For this purpose, DTL suggested various options viz. (i) LILO of one circuit of 220 kV Peeragarhi - Wazirpur line at Rohtak Road, (ii) LILO of both the circuits of 220 kV Peeragarhi-Wazirpur circuits at Rohtak road, (iii) Establishment of a 400 kV GIS substation at Rohtak Road and to provide 400 KV in-feed by using the existing corridor & upgradation of existing 220 kV Narela - Rohtak Road transmission line, (iv) Conversion of existing 33 kV AIS to 33 kV GIS at Rohtak Road substation of TPDDL and subsequently establishment of 220 kV GIS substation on the space vacated by means of LILO of 220 kV Peera Garhi - Wazir Pur cables. DTL further stated that erection of a GIS Sub-station would be a long term solution in addition to re-conductoring of the Narela-Rohtak Road line for reliable supply to Rohtak Road substation. In this regard, NRPC opined that re-conductoring of line and construction of GIS Substation work are separate issues and GIS substation work can be taken up in future as system strengthening work. The proposal for GIS substation work could be put up by DTL to the Standing Committee on Power System planning of CEA.

Further, it was decided that DTL and BBMB would jointly discuss & finalise the course of action to be adopted prior to re-conducting of Narela-Rohtak Road line without loss of supply from the Grid. DTL agreed to take up re-conducting works of Narela-Rohtak Road. The proposal for setting up of GIS substation can be put up by DTL to the Standing Committee on Power System Planning.

Other decisions taken in regard to re-conductoring of 220kV Narela-Rohtak Road D/C line are as given below:

1. Independent joint inspection by DTL and BBMB to identify and if needed, test apparently weak towers could be done at the earliest and if required, those could be changed.
2. The work of re-conductoring of line will be taken up by DTL as deposit work of BBMB.
3. All the expenses in connection with re-conductoring of line including replacement of worn tower members will be borne by BBMB, who will also arrange all kinds of clearances including those from Railways.

DTL and BBMB to deliberate.

**2.6 Status of Installation of Capacitors – Study by Planning Deptt., DTL**

DTL planning informed that the data of BRPL, BYPL & NDMC and the S/Stn. pertains to DGM (O&M) -II & 400KV S/Stn., DTL for both the dates and the data for TPDDL for the date 30.03.13 have been made available to CPRI. In respect of MES, it has been decided that lump load of 33KV Feeder will be considered for the study. Data for DGM (T) O&M-I & III ,DTL is still awaited. Further, TPDDL has been informed through e-mail dated 22.04.14 that their SCADA could not record the data on 05.12.13 at 03.00 hrs due to outage of their SCADA system, hence, the same cannot be made available.

TPDDL informed that they shall provide the requisite data for dt. 04.12.13 or dt. 06.12.13 as they do not have the data for dt. 05.12.13. O&M division of DTL informed that they have provided the requisite data to Planning department of DTL.

DTL & TPDDL to update.

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

DTL to update status of following hot reserves:

S. No	Capacity	Present population in nos.	Status of the hot reserve as on 31.03.14	Remarks
1	400/220kV, 315MVA ICT,	12	One Tx at 400kV Mundka would be hot reserve.	DTL informed that 3rd transformer at Mundka remain as hot reserve.
2	220/66kV, 160MVA Tx	7	160MVA Tx earmarked for 220kV Pappan Kalan-II was proposed be the hot reserve.	DTL informed that 160 MVA transformer at Papankalan –II will remain hot reserve
3	220/66kV, 100MVA Tx	42	DTL informed that 220/66-33/11kV, 100MVA Tx at 220kV Patparganj S/Stn. proposed as hot reserve is at site i.e. at 220kV S/Stn. Patparganj.	DTL informed that foundation work is in progress.
4	220/33kV, 100MVA Tx,	33		

On the DTL proposal to keep 1 No. 100 MVA 220/33/11kV power transformer as hot reserve at 220kV Patparganj station so as to serve as a standby arrangement in case of emergency, since procurement of new transformer usually takes around 1 year and to meet any exigencies arising out of any power transformer, for use as hot reserve for restoration of power supply, in a meeting held on dated 11.02.2014, DERC asked DTL to explore the option of keeping a transformer in cold reserve, as it may not be easy to transport an oil filled transformer.

In earlier OCC meeting, DTL informed that the transformer can be kept as cold reserve and the entire requisite test for health monitoring of Power transformer should be done periodically.

BYPL requested that the practices of PGCIL regarding keeping the transformer as cold reserve may be confirmed and action may be taken accordingly.

During last meeting, OCC advised DTL to take up with PGCIL regarding their practices of keeping the transformer as cold reserve.

DTL to update.

## 2.8 Long/Recent outage of Elements in Delhi power system as on 28.05.2014 at 08:00 Hrs.

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

S. No.	Element's Name	DISCO M/DTL	Date and Time of outage	Remarks/ Status as on 25.04.2014
1	33kV BAY -3 (IP - KILOKRI)	BRPL	22.02.11	Clearance from Railways for laying of Underground cables near Bhairon Road is pending. BRPL to write a letter to Railways.
2	33kV JASOLA - SARAI JULIENA CKT. (SINGLE CABLE)	BRPL	09.05.13	
3	33kV KILOKRI - AIIMS CKT. (SINGLE CABLE)	BRPL	17.05.13	
4	66kV OKHLA PH.-I - MOHAN CO-OPERATIVE CKT.-I ('R' PH. CABLE)	BRPL	18.05.13	
5	66kV PPK-II(220kV) - G-5 MATIALA CKT.-I ('Y'PH. CABLE)	BRPL	18.05.13	
6	33kV NANGLOI(66kV) - PASCHIM PURI CKT.-II (SINGLE CABLE)	BRPL	21.05.13	
7	66kV HASTSAL - GGSH CKT.-I ('B'PH. CABLE)	BRPL	24.05.13	
8	33kV ROHTAK ROAD - MADIPUR CKT. ('Y'PH. SINGLE CABLE)	BRPL	24.05.13	
9	66kV G-2 PPK - SAGARPUR CKT.-II ('R'PH. CABLE)	BRPL	25.05.13	
10	33kV RIDGE VALLEY - AIIMS CKT.	BRPL	25.05.13	
11	66kV MATHURA ROAD - MOHAN CO-OPERATIVE CKT.-II ('R' PH. CABLE)	BRPL	25.05.13	
12	33kV PASCHIM VIHAR - PASCHIM PURI CKT. (SINGLE CABLE)	BRPL	27.05.13	

13	33kV OKHLA(220kV) - ALAKHNANDA CKT.-I	BRPL	17.09.13	GIS bay at Alkananda Grid is faulty. In last OCC, BRPL informed meeting with BHEL, Bhopal taken place spares are being arranged. Expected by end of May, 2014
14	66kV MUNDKA (400kV) - NANGLOI CKT. (PUT OFF)	BRPL	12.01.14	There is an issue regarding IOC pipeline crossing. Expected by end of April, 2014.
15	66kV VASANT KUNJ - RIDGE VALLEY CKTS.	BRPL	13.01.14	BRPL informed that one of the cables is expected by the end of May, 2014. The other cable is expected by the end of December, 2014.
16	20MVA PR.TR.-I AT IIT	BRPL	08.02.14	Expected by the end of May, 2014.
17	33kV BAY-5 (IP - LAJPAT NAGAR) ALONG WITH 33KV ½ BUS AT LAJPAT NAGAR	BRPL	01.03.14	GIS bay at Alkananda Grid is faulty. BRPL informed meeting with BHEL, Bhopal taken place spares are being arranged. Expected by end of May, 2014
18	33kV KILOKRI - JAMIA CKT. ( 'R' & 'B' PH. CABLE)	BRPL	15.03.14	Expected by 7 <sup>th</sup> May, 2014.
19	66kV MUNDKA(400kV) - NANGLOI CKT.	BRPL	30.04.14	Recent
20	33kV NIZAMUDDIN - EXHIBITION GROUND-I CKT (Y PHASE CABLE)	BRPL	20.05.14	Recent
21	66kV VASANT KUNJ(220kV) - PALAM CKT. ('R' PH. CABLE)	BRPL	26.05.14	Recent
22	33kV PATPARGANJ (220kV) - GURU ANGAD NAGAR CKT.- I (SINGLE CABLE)	BYPL	03.05.14	Recent
23	33kV GONDA-SEELAMPUR T-OFF DWARKAPURI CKT.	BYPL	26.05.14	Recent
24	66kV PPK - REWARI LINE CKT. (('R'PH. CABLE-I) ONE CABLE	TPDDL		
25	33kV ROHINI-V (66kV) - AIR KHAMPUR CKT.	TPDDL		
26	33kV NARELA(220kV) - HAIDERPUR CKT.	TPDDL		
27	33kV ROHTAK ROAD - SHAHZADA BAGH CKT.-II	TPDDL		
28	33kV SMB(220kV) - SMB KHOSLA U/G CKT.-I	TPDDL		
29	33kV SCHOOL LANE(66kV) - VIDYUT BHAWAN CKT.	NDMC	03.05.14	Recent
30	33kV VIDYUT BHAWAN- N.A.I. CKT.	NDMC	22.05.14	Recent
31	33kV BAPU DHAM - RIDGE VALLEY CKT.	NDMC	24.05.14	Recent

32	33kV BAY -6 (IP- TILAK MARG)	NDMC	26.05.14	Recent
33	66kV STATE GUEST HOUSE - BAPU DHAM CKT.	NDMC	27.05.14	Recent
34	220kV MAHARANI BAGH - TRAUMA CENTRE CKT.-I&II	DTL	31.05.13	Cables got punctured during trenchless digging work carried out by Delhi Jal Board near Lajpat Nagar. Repair/Joining work of cable is in progress. The expected date of restoration is 12 <sup>th</sup> June, 2014

Members to update.

## 2.9 Shifting of Control Room at 220kV Indra Prastha Substation.

OCC in its meeting on 30.09.13, advised DTL to visit the control room of IP S/Stn. along with all concerned GMs to look into the current situation and accordingly take appropriate action as existing control room and control wiring at IP is in dilapidated condition due to dismantling of erstwhile IP Power station.

DTL informed that 220kV GIS is proposed at existing 220kV IP Substation and the same is under process for approval with Board of Directors, DTL. Further, the Control Room is to be shifted from first floor of generation main building (being dismantled) to new place in the switchyard.

Sub-Station site was visited by GM (O&M)-I along with Protection team & planning department and the site near the gate of switchyard has been found suitable & finalized for making temporary control room using Porta Cabin. The land up to the bay no. 8 would be required to be cleared by dismantling the gantry and idle lying 10MVA power transformer.

During last OCC meeting held on 30-10-2013 IPGCL stated that IPGCL has a dedicated bay No. 39 at IP S/Stn. and they will erect their own transformer for their LT supply. DTL should make arrangement for LT supply at their own.

DTL further informed that 220/33kV 100MVA Tx-I at 220kV IP S/Stn. got tripped on 28.12.13 due to the damage of control cables which occurred during dismantling work carried by IPGCL. Such trippings/ break-down occurred at IP substation affects the power supply to VVIP areas of NDMC region and walled city region of Delhi. DTL also informed to avoid such occurrences; Control room needs to be shifted from 1<sup>st</sup> floor of generation building to near to switchyard at the earliest.

In view of above, DTL again requested IPGCL to remove the idle lying 10MVA power transformer from bay no. 8 at IP sub-station at the earliest for sparing the space for the construction of new control room.



In meeting dated 30.12.13, OCC advised IPGCL to take necessary care while carrying dismantling works or any such other works and to take urgent action in removing the idle lying 10MVA power transformer.

During earlier OCC meeting, IPGCL was requested to expedite the work of removal of ideal lying 10MVA power transformers. OCC advised DTL to carry out Joint inspection along with IPGCL for re-allocation of land.

In last OCC meeting, DTL informed that budgetary offers for establishing control room at IP have been invited. IPGCL could not attend the meeting.

DTL and IPGCL to deliberate.

### **2.10 Non-trippings of breakers at BRPL end for 11kV feeders emanating from 220kV S/S Najafgarh.**

DTL informed that the below mentioned trippings occurred at 220kV Substation Najafgarh in 11kV System.

<b>Sr. No.</b>	<b>Feeder Name</b>	<b>Date and of Time Breakdown</b>	<b>Restoration Time</b>	<b>Tripping details</b>	<b>Remarks</b>
1.	11KV 7 Panel board	02.01.2014 1:35 Hrs.	02.01.2014 18:45 Hrs.	Feeders trip on earth fault with heavy sound.	Cable end boxes connected with DTL switch gear panel got burnt.
2.	11KV Deenpur	07.01.2014 05.15 Hrs.	07.01.2014 14:00 Hrs.	Feeders trip on earth fault and O/C	It was noticed that cable end boxes connected with DTL switch gear panel got burnt.

In each of the above trippings, the cable end boxes of the feeders got damaged/ burnt and supply remained affected. It is gathered that fault was not cleared at BRPL end due to which one CT of the affected feeder got damaged.

DTL informed that Najafgarh Substation is experiencing frequent trippings at 11kV level due to unhealthy protection system at BRPL end. OCC advised BRPL to check up the healthiness of protection system at their end to avoid damage to DTL system. During last OCC meeting BRPL inform that on these feeders first switching progress are by passed for protection and they are taking necessary action for retrofit and repair.

OCC once again advised SLDC for joint inspection by the committee already constituted in past of first switching substation of DISCOMs to ensure the healthiness of system.

DTL and DISCOMs may deliberate.

## **2.11 Contingency Plan for 220kV Substation Indra Prastha.**

The operation and maintenance activities of 220 KV S/Stn. Indraprastha has been entrusted to DTL since Jan, 2010 after closure of IP Generating Stn. Main control room of sub-station is situated in main generation building which is about half kilometre away from switchyard. Following are the main problems in operation of sub-station-

1. Main control room is in worst condition due to dismantling process of generation equipments by the contractor of IPGCL. Wall & ceiling of control room is damaged at various places and in every rainy season rainy water showers in control room & on panels which leads to many unwanted tripping / breakdowns.
2. During the process of dismantling of control cables from the switchyard to the control room, the control cables got damaged many times and for restoring the system joints are made in the control cables, moreover tracing the faulty control cable and revival of system is very difficult as well as time consuming. As the control room is around half kilometer away and situated on second floor in generation building, it takes around two working days to replace a control cable.
3. In the recent past, there are several incident of cutting/ damaging of control cables by some mischievous elements leading to many trippings and affecting the metering of feeders. Control cables laid for protection and control system were replaced to restore the system whereas energy meter reading of 12 nos. 33KV feeders is still affected and in the process of revival. Many times control cables and optical fiber laid for SCADA system got damaged resulting in loss of data communication to SLDC which created problems for System Operation in maintaining the Grid system of Delhi. Control cables laid for data communication of 220KV feeders replaced many times to restore the data communication and communication of data of all 33KV feeders is still affected.
4. Boundary wall of IP sub-station is not proper and it is only covered by boundary wall from Ring road side. Several incidents of theft/ attempt of theft are reported in this sub-station making the sub-station very unsafe for staff and material.
5. There is a pack of stray monkeys which moves freely in the switchyard, control room and offices due to access from the damaged control room walls and ceiling and smash up in control room again making it very unsafe for staff and equipments.
6. One small control room is also situated in switchyard for control & operation of 100MVA No. III and 33KV Incomer No. III. There are several wide cracks in wall & roof of this room which makes it very unsafe to operator and control panels.

In view of above circumstances O&M wing is not able to run this sub-station smoothly & reliably as most of the above problems are beyond control of O&M department. It is pertinent to mention here that 24 nos. 33KV outgoing feeders emanates from this sub-station feeding the load in the VVIP areas covered under the jurisdiction of BRPL, BYPL & NDMC and possibilities of this sub-station for going in long outages in a part or in whole cannot be ruled out.

DTL requested that matter may be deliberated and contingency plan in case of outage in part or whole of Indraprastha substation may be prepared by the affected DISCOMS in consultation with SLDC.

NDMC informed that they have provision to shift the load from IP stn during contingency conditions at IP stn BRPL informed that they shall shift the load from IP Stn subject to load margin at Lodhi Road. BYPL informed that they have provision to shift the load from IP Stn. except for IG Stadium circuit.

Members may deliberate.

### **3.0 SLDC Agenda Points**

#### **3.1 Power map of 66/33kV network of Distribution companies.**

SLDC requested that the power map is required in GIS format and requested DISCOMs to submit the same.

SLDC informed that they have received the power map from TPDDL. SLDC advised NDMC, BRPL and BYPL to submit the map in GIS format. OCC advised SLDC to write a letter to NDMC regarding the same.

BRPL, BYPL, NDMC and SLDC to update.

#### **3.2 Augmentation of 66kV Circuits emanating from GT Station.**

The issue was earlier deliberated in Delhi OCC meeting dtd. 30.07.2013 and in GCC meeting dated 06.08.2013.

BYPL raised the issue of load constraints faced on 66 KV O/G feeders from GTPS. Due to long outage of 220 KV BTPS-Gazipur line, it is required to take maximum load on 66 KV GTPS-Akshardham feeder (to be further distributed to MVR-1 & 2 areas). This arrangement can reduce the loading on 220 KV Patparganj Transformers thereby load-shedding in East Delhi area. However, due to under-sized conductor used at O/G bays at GTPS, loading above 300-350 Amps is not allowed, while the capacity of the Akshardham feeder is about 550 Amps. (630 sq.mm. cable).

In aforesaid meetings, GTPS informed that a complete shutdown of 66kV half bus is required to augment the conductor of outgoing bays. During shutdown, both the station's auxiliary transformers will remain affected as these are installed on the same half bus vicinity. This will require complete shutdown of the station as there will be no supply to the station auxiliaries and it may take around 72 Hrs. to restart generations after the shutdown.

In order to avoid complete shutdown of the station, GCC suggested exploring the possibility to arrange the auxiliary supply through 11kV sources by BYPL so that the shutdown of the

complete station can be obviated. BYPL had agreed to provide 11kV supply for auxiliary needs on temporary basis.

In the 9<sup>th</sup> GCC meeting, it was advised to IPGCL to plan the augmentation work during weekend days (Saturday and Sunday) after 2<sup>nd</sup> week of October, 2013 provided auxiliary needs are arranged through 11kV BYPL sources. IPGCL representative informed since they have not heard anything from BYPL for providing 11kV feed to meet the auxiliary needs of IPGCL's GT station to avoid safe shutdown of the units, the work could not be undertaken.

A Joint visit carried out by BYPL and GTPS to check the feasibility. BYPL confirmed in the meeting that modalities to be decided and GTPS was advised to write a letter to BYPL.

GTPS and BYPL to deliberate.

#### **4.0 Agenda point deliberated in NRPC OCC dt. 19.05.2014**

##### **4.1 Progress of installing new capacitors and repair of defective capacitors**

During the NRPC OCC meeting held on dt. 19.05.2014, the status of defective capacitors in each constituent member state was deliberated. The defective capacity in Delhi, at the end of March 2014 was 153.22 MVAR. NRPC emphasised that the defective capacitors be revived at the earliest to support the rising grid requirement during ensuing summer.

The status of revival of defective capacitors and installation of new capacitors, in Delhi System to be updated.

OCC may deliberate.

#### **5.0 Agenda points of TPDDL.**

##### **5.1 Supply Failure Cases from DSIDC Narela of TPDDL to Narela/TSS during the Year of 2013.**

TPDDL provides 2 No's 66 KV Power supply source to Railways from DSIDC-1 Narela grid station. In the FY-2013-14 there have been 10 instances of Power supply interruption to Railways thereby interrupting Mail/Express and goods train. It is envisaged to commission an in house scheme for faster restoration of supply to M/S Railways.

7 of the total 10 instances of power supply interruption are due to source failure from 220/400KV end, and 3 of them due to network faults. Though the duration of none of the interruptions has crossed 10-12 minutes, it is still a concern for TPDDL as Railways being an essential supply. The possibilities for faster restoration from TPDDL are as below:

a) To explore the possibility of changing the NOC of M/s Railways at DSIDC-1 and thereby providing supply from two separate sources i.e. 220 KV NRL & 220 KV BWN DSIDC.

b) To provide Auto changeover switch at DSIDC-1 for restoration of Power supply to Railways in the event of failure of Main supply from 220KV NRL, if both Railway circuit are on same supply source and running in parallel.

Analysis of TPDDL for the above possibilities is as below:

a) Auto changeover scheme can be adopted at DSIDC-1 grid to improve the reliability of power supplied to M/s Railways .To implement the scheme, it is desired that NOC (Normal Operating Condition) should remain as maintained till date. Scheme will work only in the event of supply failure and there will not be changeover operation during trippings in the sub transmission network. However, loading condition at DSIDC-1 & 2 indicates that in case of supply failure from Narela before the changeover load shedding may be required at DSIDC-1 or DSIDC-2 to avoid over loading on Lines fed from Bawana and load trimming will also be required either at DSIDC-1 or DSIDC-2. This would mean that after the supplies are restored an interruption would have to be given to Railways to restore the NOC.

b) Best option would be that Power supply to Railways shall be fed from two independent sources that are running one ckt. on each bus at DSIDC -1 and in case of failure of any one supply changeover can be done by Railways at their end. This would have greater flexibility and control at Railway end.

During the last OCC meeting, Railways informed that they shall look into the issue.

Railways to update.

### **5.2 Status of 220kV Wazirpur Substation.**

TPDDL informed that during last OCC meeting, it was ensured by DTL that WZP-3 will come into service before 31-05-2014. It is very essential for this summer. Kindly update the fresh status of the same.

DTL to deliberate.

### **5.3 Inability to take load on 220kV Rohini-II.**

In last meeting, TPDDL informed that 220kV RHN T-off at Rohini-II from 400kV BWN is not reliable and separate circuit from 400kV BWN is required as early as possible.

TPDDL informed that DTL ensured that there will not be any issue in T-off. But now aforesaid circuit gets overloaded whenever TPDDL takes load on 220kV RHN-2 sec-29.

DTL to deliberate.

#### 5.4 Reliability of Wazirpur water works.

TPDDL informed that during last FY, about 22 interruptions occurred at WZB Water works due to STS interruption out of which 17 are on account of DTL (i.e due to tripping of either 220kV GPL-Mandola Ckt or tripping of 100MVA PTR). In those, maximum tripping are more than 15mins and in some cases tripping restoration time is even more than 30 mins.

**On 08-May-2014, supply was again affected for 50mins.** Water Works is an essential supply of TPDDL. In order to maintain reliable power supply, TPDDL requested DTL to take care of the aforesaid issue and take suitable action to restore supply of WZB through any alternate source as early as possible.

DTL to deliberate.

#### 6.0 BRPL Agenda Points

##### 6.1 Status of additional allocated bay for Bodela-1 grid.

DTL informed BRPL one additional allocated bay for Bodela 1 grid is ready. BRPL informed that request for commercial agreement has been sent to DTL Commercial department which needs to be expedited.

OCC advised BRPL to take up with DTL Commercial department.

BRPL to update.

#### 7.0 Proposed Shutdowns

##### 7.1 Proposed shutdown by DTL Protection – Metering department

DTL proposed the following shutdowns to carry out Accuracy Testing of CT, PT & metering system to comply the metering regulations.

S. No.	Proposed Date & time of S/D	Name of the 220kV S/Stn	Name of the feeder / equipment	Work to be carried out	Remarks/ Areas affected
1.	02.06.14 (07:00am to 01:00pm)	Najafgarh	66kV I/C-I	Accuracy Testing of CT & PT & metering system to comply the metering regulations	Feeding to BRPL
2	03.06.14 (07:00am to 01:00pm)	Najafgarh	66kV I/C-II		Feeding to BRPL
3	04.06.14 (07:00am to 01:00pm)	Najafgarh	66kV I/C-III		Feeding to BRPL
4	05.06.14 (07:00am to 01:00pm)	Najafgarh	66kV I/C-IV		Feeding to BRPL
5	06.06.14 (07:00am to 01:00pm)	Najafgarh	11kV Local trans.-I		Feeding to DTL
6	07.06.14 (07:00am to 01:00pm)	Najafgarh	11kV Local trans.-II		Feeding to DTL

7	09.06.14 (07:00am to 01:00pm)	Pappankalan-I	66kV I/C-I	Accuracy Testing of CT & PT & metering system to comply the metering regulations	Feeding to BRPL
8	10.06.14 (07:00am to 01:00pm)	Pappankalan-I	66kV I/C-II		Feeding to BRPL
9	11.06.14 (07:00am to 01:00pm)	Pappankalan-I	66kV I/C-III		Feeding to BRPL
10	12.06.14 (07:00am to 01:00pm)	Pappankalan-I	66kV I/C-IV		Feeding to BRPL
11	13.06.14 (07:00am to 01:00pm)	Pappankalan-I	11kV Local trans.		Feeding to DTL
12	16.06.14 (07:00am to 01:00pm)	Pappankalan-II	66kV I/C-I		Feeding to BRPL
13	17.06.14 (07:00am to 01:00pm)	Pappankalan-II	66kV I/C-II		Feeding to BRPL
14	18.06.14 (07:00am to 01:00pm)	Pappankalan-II	66kV I/C-III		Feeding to BRPL
15	19.06.14 (07:00am to 01:00pm)	Pappankalan-II	11kV Local trans.		Feeding to DTL
16	20.06.14 (07:00am to 01:00pm)	Vasant Kunj	66kV I/C-I		Feeding to BRPL
17	21.06.14 (07:00am to 01:00pm)	Vasant Kunj	66kV I/C-II		Feeding to BRPL
18	23.06.14 (07:00am to 01:00pm)	Vasant Kunj	66kV I/C-III		Feeding to BRPL
19	24.06.14 (07:00am to 01:00pm)	Vasant Kunj	11kV Local trans.-I		Feeding to DTL
20	25.06.14 (07:00am to 01:00pm)	Mehraulli	66kV I/C-I		Feeding to BRPL
21	26.06.14 (07:00am to 01:00pm)	Mehraulli	66kV I/C-II		Feeding to BRPL
22	27.06.14 (07:00am to 01:00pm)	Mehraulli	66kV I/C-III		Feeding to BRPL
23	28.06.14 (07:00am to 01:00pm)	Mehraulli	66kV I/C-IV		Feeding to BRPL
24	30.06.14 (07:00am to 01:00pm)	Mehraulli	11kV Local trans.-I		Feeding to DTL
25	01.07.14 (07:00am to 01:00pm)	Mehraulli	11kV Local trans.-II		Feeding to DTL

The testing is a statutory requirement as per metering regulation. The outage during aforesaid shutdowns shall be considered as deemed available since the testing enervate comprehensive system requirement effecting DISCOMs and DTL and is statutory requirement as per CEA guidelines and metering regulations, grid code.

Further, DISCOMs representatives shall be present during testing for witnessing the test as required.

Members may deliberate.

## 7.2 Proposed shutdown at 220kV S/Stn. Najafgarh

DTL proposed the following shutdowns at 220kV S/Stn. Najafgarh:

S. No.	Proposed Date & time of S/D	Name of the feeder / equipment	Work to be carried out	Remarks/ Areas affected
1.	02.06.14 (05:00Hrs. To 10:00Hrs.)	100MVA Trsf. No.1 with 66KV I/C No.1& 66KV Bus -2	To attend the hot spot (1)115°C - Y-phase isolator clamp LA side & 65°C- B-phase bus-1 iso common side of 100MVA Tr. -1 (2) Y--phase CT clamp line isolator side (123 °C) (3) B--phase Bus-II common jaw contact (150 °C) (4) B-phase female jaw contact Bus-II side (100°C)	Load Transferred on 100MVA Trsf. No. 2,3 & 4.Feeder switch off during the Bus-2 S/D are 20MVA Tr No.III, 66KV Nangloi & 66KV Jaffer Pur ckt.-2
2	03.06.14 (05:00Hrs. To 10:00Hrs.)	100MVA Trsf. No.2 with 66KV I/C No.2	To attend the hot spot point on R-phase CT clamp line isolator side (90°C) and 66KV I/C No.2 Y-phase Ckt. Bottom clamp and CT clamp breaker side (85°C)	Load Transferred on 100MVA Trsf. No. 1,3 & 4.
3	04.06.14 (05:00Hrs. To 10:00Hrs.)	100MVA Trsf. No.3 with 220KV Bus-I with 66KV I/C No.3	To attend the hot spot point on Y-phase Bus-I isolator clamp bus-I side (80°C) and R-phase line isolator clamp CT side (85°C)	Load Transferred on 100MVA Trsf. No. 1,2 & 4.
4	05.06.14 (05:00Hrs. To 10:00Hrs.)	100MVA Trsf. No.4 with 66KV I/C No.4	To attend the hot spot point on Y-phase CT clamp line isolator side (105°C), B-phase CT clamp braker side (90°C), Y-phase line isolator clamp LA side (150°C) and B-phase line isolator clamp CT side (95°C) and 66KV I/C no.4 R-phase line isolator female jaw contact CVT side (135°C).	Load Transferred on 100MVA Trsf. No. 1,2 & 3.
5	06.06.14 (05:00Hrs. To 10:00Hrs.)	220KV Bawana Ckt.	To attend the hot spot point on B-phase CT clamp line isolator side (109°C)	Load transfer on Bamnauli Ckt.
6	06.06.14 (05:00Hrs. To 10:00Hrs.)	20MVA Trsf. NO.1 with 66KV Bus-I	To attend the hot spot point on R-phase Bus-I isolator clamp bus-I side (111°C) and 11KV Y-phase bushing clamp (84°C)	Load of 20MVA Trsf. No.1 to 20MVA Trsf. No-II and 66KV Jaffarpur Ckt. No.1 switch off during Bus-I shutdown.

Members may deliberate.



### 7.3 Proposed shutdown at 400kV S/Stn. Bamnauli.

DTL proposed the following shutdowns at 400kV S/Stn. Bamnauli:

S. No.	Proposed Date & time of S/D	Name of the feeder / equipment	Work to be carried out	Remarks/ Areas affected
1.	30.05.14 (09:30 to 14:00hrs)	315 MVA TR No-I	Attending Hot points on Incomer side CT.	Load will met by another ICT. Transformer may be made OFF.
2	31.05.14 (09:30 to 14:00hrs)	315 MVA TR No-IV	Attending Hot points on Incomer side CT	Load will met by another ICT. Transformer may be made OFF.
3	02.06.14 (09:30 to 17:00hrs)	Jhatikra ckt-1	Attend hot points	Load shall be shared by Jhatikra ckt-2
4	03.06.14 (09:30 to 17:00hrs)	Jhatikra ckt-2 along with BUS-1	Attend hot points	Load shall be shared by Jhatikra ckt-1

Members may deliberate.

### 8.0 Any additional agenda points with the permission of the Chair.

### 9.0 Date and time of next OCC meeting