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

No. F.DTL/831/F.4/2014-15/DGM (OS & Lines)/ 44

Date: 06.06.2014

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

<b>DTL</b>	General Manager (O&M)-I Chairman OCC General Manager (O&M)-II GM (Planning) DGM (O&M)-I, II & III DGM(400kV) DGM (M/P) DGM(Plg.)	Fax no. 011-23366160 Fax No.011-23622707
<b>SLDC</b>	General Manager (SLDC) DGM (SO)	Fax no. 011-23221069 Fax no. 011-23221059, 23221012
<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>	Dy. General Manager (SO)	Fax no. 011-39996549
<b>NDMC</b>	Superintending Engineer	Fax no. 011-23235754
<b>IPGCL</b>	DGM (I/C) RPH DGM (O) GTPS	
<b>PPCL</b>	DGM (O) PPCL	
<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>NR</b>	Sr. DEE (Northern Railway) Special Invitee	Fax No. 011-23742667

विषय: प्रचालन समन्वय उपसमिति बैठक दिनांकित 29.05.2014 (बृहस्पतिवार) सुबह 11:00 बजे का कार्यवृत्त ।

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

प्रचालन समन्वय उपसमिति की बैठक दिनांकित दिनांकित 29.05.2014 (बृहस्पतिवार) सुबह 11:00 बजे, प्रथम मंजिल, सम्मेलन कक्ष, एस एल डी सी भवन, मिंटो रोड, नई दिल्ली में आयोजित की गई। उक्त बैठक के कार्यवृत्त की एक प्रति सूचनार्थ व आवश्यक कार्यवाही हेतु इस पत्र के साथ संलग्न है।

The OCC meeting was held on dt. 29.05.2014 (Thursday) at 11:00APM in the Conference Room, 1<sup>st</sup> Floor, SLDC Building, Minto Road, New Delhi. A copy of the minutes of meeting is enclosed herewith for favour of information and necessary action.

(लवलीन सिंह)

(Loveleen Singh)

उपमहाप्रबंधक (प्रचालन सेवाएं एवं लाइन्स)  
Dy.General Manager (Operation Services & Lines)  
संयोजक, प्रचालन समन्वय उपसमिति  
Convener, Operation Coordination Committee

Enclosure: प्रचालन समन्वय उपसमिति बैठक दिनांकित 29.05.2014 का कार्यवृत्त ।

MOM of OCC meeting dt.29.05.2014

**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. Chairman and Managing Director, DTL.
4. Chairperson, New Delhi Municipal Council, Palika Kendra, Sansad Marg, New Delhi.
5. Managing Director, Indraprastha Power Generation Company Ltd (Genco)/Pragati Power Corporation Ltd (PPCL), Himadri, Rajghat Power House, New Delhi-110002.
6. Director (Operations), DTL
7. General Manager, NRLDC, SJS Marg, Katwaria Sarai, New Delhi-16
8. CEO, BSES Rajdhani Power Ltd, BSES Bhawan, Nehru Place, New Delhi-110019.
9. CEO, BSES Yamuna Power Ltd, Shakti Kiran Building, Karkardooma, New Delhi-110092.
10. CEO, North Delhi Power Ltd, 33kV Grid S/Stn, Hudson Lane, Kingsway Camp, Delhi-110009.
11. CWE (Utilities), MES, Kotwali Road, Near Gopi Nath Bazar, Delhi Cantt. New Delhi-110010.
12. General Manager, Badarpur Thermal Power Station, Badarpur, New Delhi-44.
13. General Manager (Project)-I, DTL
14. General Manager (Project)-II, DTL

*लवलीन*

(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

**MINUTES OF OCC MEETING DT. 29.05.2014**

GM (O&M)-I, DTL, Chairman-Delhi OCC welcome the members and distinguished guests to the meeting. DGM (OS&L), DTL – Convener Delhi OCC requested that since summer season has arrived, all possible efforts are required to be made for meeting the Summer Load. OS department gave presentation on the review of grid operation for the month of April, 2014 and planning for grid operation for June, 2014 . SLDC informed that the anticipated demand during the month of June 2014 is 6100MW (Copy of presentation is enclosed).

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

**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 dated 07.05.2014

Members confirmed the MOM of OCC meeting dated 25.04.2014.

**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 and the tendering process is being done by MES. SLDC informed that the tender has been floated.

MES could not attend the meeting.

**(Action by MES)**

**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 has also requested NDMC to lay additional 2 independent pair of communication fiber cables 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.

NDMC could not attend the meeting. OCC again advised DTL to write a letter to NDMC for the aforesaid communication requirement.

**(Action by DTL, NDMC)**

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

During the earlier 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.

Further, DTL Planning division is also exploring the possibilities of establishing the DTL's centralized control room at 220kV I.P. Substation.

**(Action by DTL)**

### **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 meeting dt. 25.04.14, OCC advised to again have Joint inspection for the latest status 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.

Railways could not attend the meeting. DTL has informed that a letter has been sent to Railways, but reply is awaited till date.

**(Action by Railways)**

## **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.

As per the decision taken by CEA, an independent joint physical inspection of all the towers of 220kV Narela - Rohtak Road D/C line has been carried out by the team of engineers from DTL and BBMB. The inspecting team has observed that towers of the line are fit for carrying out re-conductoring work with new Goat conductor, insulators and fittings.

Further, OCC has advised DTL's Planning division to prepare the scheme for the aforesaid re-conductoring work and take with Standing Committee on Power System Planning, CEA for long term planning.

**(Action by DTL, BBMB)**

## **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. 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.

During OCC meeting dt.24.04.14, 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.

TPDDL informed that they have submitted the requisite data to DTL Planning department. Further, DTL informed that a draft report from CPRI has also been received on the matter.

**(Action by DTL, DISCOMs)**

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

DTL updated status of following hot reserves:

S. No	Capacity	Present population in nos.	Status of the hot reserve as on 29.05.14	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 meeting dtd.25.04.14, OCC advised DTL to take up with PGCIL regarding their practices of keeping the transformer as cold reserve.

DTL informed that they have written a letter to M/s PGCIL and reply for the same is awaited. Further, OCC also advised DTL's planning to carry out study on the matter.

**(Action by DTL)**

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

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

S. No.	Element's Name	DISCO M/DTL	Date Time and of outage	Remarks/ Status as on 29.05.2014
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	Expected by 15.06.14
3	33kV KILOKRI - AIIMS CKT. (SINGLE CABLE)	BRPL	17.05.13	Expected by 07.06.14
4	66kV OKHLA PH.-I - MOHAN CO-OPERATIVE CKT.-I ('R' PH. CABLE)	BRPL	18.05.13	Expected by 07.06.14
5	66kV PPK-II(220kV) - G-5 MATIALA CKT.-I ('Y'PH. CABLE)	BRPL	18.05.13	Energized on 28.05.14
6	33kV NANGLOI(66kV) - PASCHIM PURI CKT.-II (SINGLE CABLE)	BRPL	21.05.13	Expected by 07.06.14
7	66kV HASTSAL - GGSH CKT.-I ('B'PH. CABLE)	BRPL	24.05.13	Expected by 07.06.14
8	33kV ROHTAK ROAD - MADIPUR CKT. ('Y'PH. SINGLE CABLE)	BRPL	24.05.13	Expected by 07.06.14
9	66kV G-2 PPK - SAGARPUR CKT.-II ('R'PH. CABLE)	BRPL	25.05.13	Energized on 28.05.14
10	33kV RIDGE VALLEY - AIIMS CKT.	BRPL	25.05.13	Energized on 27.05.14
11	66kV MATHURA ROAD - MOHAN CO-OPERATIVE CKT.-II ('R' PH. CABLE)	BRPL	25.05.13	Energized on 28.05.14
12	33kV PASCHIM VIHAR - PASCHIM PURI CKT. (SINGLE CABLE)	BRPL	27.05.13	Expected by 15.06.14
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 June, 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 June, 2014.
15	66kV VASANT KUNJ - RIDGE VALLEY CKT.	BRPL	13.01.14	BRPL informed that one of the cables is expected by the end of June, 2014.
16	20MVA PR.TR.-I AT IIT	BRPL	08.02.14	Energized on 28.05.14



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 June, 2014
18	33kV KILOKRI - JAMIA CKT. ('R' & 'B' PH. CABLE)	BRPL	15.03.14	Expected by 07.07.14
19	66kV MUNDKA(400kV) - NANGLOI CKT.	BRPL	30.04.14	Repeat of S. No. 14 as above
20	33kV NIZAMUDDIN - EXHIBITION GROUND-I CKT (Y PHASE CABLE)	BRPL	20.05.14	Expected by 15.06.14
21	66kV VASANT KUNJ(220kV) - PALAM CKT. ('R' PH. CABLE)	BRPL	26.05.14	Expected by 15.06.14
22	33kV PATPARGANJ (220kV) - GURU ANGAD NAGAR CKT.- I (SINGLE CABLE)	BYPL	03.05.14	Expected by 07.06.14
23	33kV GONDA-SEELAMPUR T-OFF DWARKAPURI CKT.	BYPL	26.05.14	Expected by 07.06.14
24	66kV PPK - REWARI LINE CKT. (('R'PH. CABLE-I) ONE CABLE	TPDDL		New scheme is in process. After implementation of the new scheme, this line will be dumped.
25	33kV ROHINI-V (66kV) - AIR KHAMPUR CKT.	TPDDL		New scheme is in process. After implementation of the new scheme, this line will be dumped.
26	33kV NARELA(220kV) - HAIDERPUR CKT.	TPDDL		Modified scheme is under proposal. After implementation of the modified scheme, this line will be dumped.
27	33kV ROHTAK ROAD - SHAHZADA BAGH CKT.-II	TPDDL		Expected by 26.06.14
28	33kV SMB(220kV) - SMB KHOSLA U/G CKT.-I	TPDDL		Expected by 01.06.14
29	33kV SCHOOL LANE(66kV) - VIDYUT BHAWAN CKT.	NDMC	03.05.14	No representative from NDMC attended the meeting. Hence, the latest status is not known.
30	33kV VIDYUT BHAWAN-N.A.I. CKT.	NDMC	22.05.14	--do--
31	33kV BAPU DHAM - RIDGE VALLEY CKT.	NDMC	24.05.14	--do--
32	33kV BAY -6 (IP- TILAK MARG)	NDMC	26.05.14	--do--
33	66kV STATE GUEST HOUSE - BAPU DHAM CKT.	NDMC	27.05.14	--do--
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
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OCC advised members to expedite the work.

**(Action by DTL, NDMC, BRPL, BYPL and TPDDL)**

## **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.

OCC advised DTL to strengthen the security staff of the 220kV I.P. Substation in order to minimize the theft of cables and other equipments till materialization of shifting of control room. Further, OCC has also advised DTL's planning to expedite finalization of the scheme for new control room at 220kV I.P. Substation.

**(Action by DTL, IPGCL)**

**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.

Sr. No.	Feeder Name	Date and of Breakdown Time	Restoration Time	Tripping details	Remarks
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 advised for implementation of the earlier committee's recommendations on the matter.

**(Action by DTL and DISCOMs)**

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

DTL informed that 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.

During OCC meeting dt. 25.04.14, 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.

BRPL informed that meeting of affected area load shall be taken care on real time. Further, in order to meet future contingencies, BRPL informed that establishment of 220/33KV Power Transformers at Maharani Bagh Substation shall be in the interest of power sector of Delhi as it will directly connect the load to the Maharani Bagh Grid which is presently under loaded. BRPL requested DTL to provide 8 nos. 33 KV feeders by establishing 220/33KV Power Transformers at Maharani Bagh substation.

OCC advised DTL's planning to study the feasibility and act swiftly.

**(Action by DTL, BRPL, BYPL and NDMC)**

### **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 requisite data from all DISCOMs except NDMC. NDMC could not attend the meeting.

OCC advised SLDC to write a letter to NDMC regarding the same.

**(Action by SLDC, NDMC)**

#### **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 feedes 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 informed that no augmentation of 66kV feeders emanating from GT station can be done as per power agreements.

OCC members were appraised of the status.

#### **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.

DTL informed that a report from NRPC has also been received on the matter.

**(Action by DISCOMs)**

#### **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 OCC meeting dt. 25.04.14, Railways informed that they shall look into the issue.

Railways could not attend the meeting.

**(Action by Railways)**

## **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. TPDDL requested for the status to be updated.

DTL informed that the work for substation and Lines (Under Ground cables) has been completed. The substation will be commissioned after pre-commissioning tests by M/s Conin Samgor and clearance from electrical inspector. The expected date of commissioning is 20<sup>th</sup> June, 2014.

**(Action by DTL)**

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

During the meeting dtd. 25.04.14, 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.

DTL informed that procurement of tower material is under process and the work of erection of circuit of 220kV Bawana – Rohini-II will take another six months. TPDDL also informed that no more load shifting to Rohini-II is possible.

**(Action by DTL)**

### **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 at Gopal Pur). In those, maximum tripping are more than 15mins and in some cases tripping restoration time is even more than 30 mins.

On 08<sup>th</sup> 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.

OCC advised DTL to study the cause of excessive trippings and to prepare necessary contingency plans in case of such failures. Further, OCC also advised DTL to prepare contingency plans in case of failure of generation from GT.

**(Action by DTL)**

## **6.0 BRPL Agenda Points**

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

In earlier OCC, DTL informed BRPL one additional allocated bay for Bodela 1 grid is ready. BRPL informed that request for commercial agreement had been sent to DTL. BRPL informed that Commercial department Commercial Agreement has been done.

OCC advised BRPL to take up with DTL.



## 7.0 Proposed Shutdowns

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

OCC has not approved the proposed shutdowns due to peak summer season and system constraints. However, emergency shutdowns can be availed depending upon the urgency and subject to actual load condition at particular time in consultation with SLDC.

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	Approved Date & time of S/D
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	-As above-
2	03.06.14 (07:00am to 01:00pm)	Najafgarh	66kV I/C-II		Feeding to BRPL	-do-
3	04.06.14 (07:00am to 01:00pm)	Najafgarh	66kV I/C-III		Feeding to BRPL	-do-
4	05.06.14 (07:00am to 01:00pm)	Najafgarh	66kV I/C-IV		Feeding to BRPL	-do-
5	06.06.14 (07:00am to 01:00pm)	Najafgarh	11kV Local trans.-I		Feeding to DTL	-do-
6	07.06.14 (07:00am to 01:00pm)	Najafgarh	11kV Local trans.-II		Feeding to DTL	-do-
7	09.06.14 (07:00am to 01:00pm)	Pappankalan-I	66kV I/C-I		Feeding to BRPL	-do-
8	10.06.14 (07:00am to 01:00pm)	Pappankalan-I	66kV I/C-II		Feeding to BRPL	-do-
9	11.06.14 (07:00am to 01:00pm)	Pappankalan-I	66kV I/C-III		Feeding to BRPL	-do-
10	12.06.14 (07:00am to 01:00pm)	Pappankalan-I	66kV I/C-IV		Feeding to BRPL	-do-
11	13.06.14 (07:00am to 01:00pm)	Pappankalan-I	11kV Local trans.		Feeding to DTL	-do-
12	16.06.14 (07:00am to 01:00pm)	Pappankalan-II	66kV I/C-I		Feeding to BRPL	-do-
13	17.06.14 (07:00am to 01:00pm)	Pappankalan-II	66kV I/C-II		Feeding to BRPL	-do-
14	18.06.14 (07:00am to 01:00pm)	Pappankalan-II	66kV I/C-III		Feeding to BRPL	-do-
15	19.06.14 (07:00am to 01:00pm)	Pappankalan-II	11kV Local trans.		Feeding to DTL	-do-
16	20.06.14 (07:00am to 01:00pm)	Vasant Kunj	66kV I/C-I		Feeding to BRPL	-do-
17	21.06.14 (07:00am to 01:00pm)	Vasant Kunj	66kV I/C-II		Feeding to BRPL	-do-
18	23.06.14 (07:00am to 01:00pm)	Vasant Kunj	66kV I/C-III		Feeding to BRPL	-do-
19	24.06.14 (07:00am to 01:00pm)	Vasant Kunj	11kV Local trans.-I		Feeding to DTL	-do-
20	25.06.14 (07:00am to 01:00pm)	Mehraulli	66kV I/C-I		Feeding to BRPL	-do-

21	26.06.14 (07:00am to 01:00pm)	Mehraulli	66kV I/C-II		Feeding to BRPL	-do-
22	27.06.14 (07:00am to 01:00pm)	Mehraulli	66kV I/C-III		Feeding to BRPL	-do-
23	28.06.14 (07:00am to 01:00pm)	Mehraulli	66kV I/C-IV		Feeding to BRPL	-do-
24	30.06.14 (07:00am to 01:00pm)	Mehraulli	11kV Local trans.-I		Feeding to DTL	-do-
25	01.07.14 (07:00am to 01:00pm)	Mehraulli	11kV Local trans.-II		Feeding to DTL	-do-

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.

**(Action by DTL, DISCOMs)**

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

OCC has not approved the proposed shutdowns due to peak summer season and system constraints. However, emergency shutdowns can be availed depending upon the urgency and subject to actual load condition at particular time in consultation with SLDC.

S. No.	Proposed Date & time of S/D	Name of the feeder / equipment	Work to be carried out	Remarks/ Areas affected	Approved Date & time of S/D
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	-As above-
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.	-do-
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.	-do-

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.	-do-
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.	-do-
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.	-do-

(Action by DTL)

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

OCC has not approved the proposed shutdowns due to peak summer season and system constraints. However, emergency shutdowns can be availed depending upon the urgency and subject to actual load condition at particular time in consultation with SLDC.

S. No.	Proposed Date & time of S/D	Name of the feeder / equipment	Work to be carried out	Remarks/ Areas affected	Approved Date & time of S/D
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.	-As above-
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.	-do-
3	02.06.14 (09:30 to 17:00hrs)	Jhatikra ckt-1	Attend hot points	Load shall be shared by Jhatikra ckt-2	-do-
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	-do-

(Action by DTL)

**8.0 Additional agenda points with the permission of the Chair.**

**8.1 Metering issue of 11kV BBMB circuit emanating from 220kV S/Stn. Narela.**

DTL informed that 1 no. 11kV BBMB circuit is emanating from 220kV DTL Narela Substation and feeding at 220kV BBMB Narela Substation for auxiliary supply to BBMB Narela Substation since the time of DESU/DVB. In case of failure of their 11kV source, this circuit serves the purpose of emergency supply. This circuit supply has been used by BBMB Narela on rare occasion during exigency at their end. But the energy consumed by BBMB through this feeder is not being accounted for BBMB, but booked to TPDDL at 66kV Bus of 220kV Narela DTL S/Stn.

Representative from TPDDL informed that the same shall be deliberated in the next OCC meeting.

**(Action by TPDDL, BBMB)**

**9.0 Meeting ended with vote of thanks to the Chair.**

Attendance sheet of OCC Meeting held on 29.05.2014 at 11:00 A.M. at 1st Floor, Conference Room, SLDC Building, Minto Road, New Delhi-110002.

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