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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)/ 70

Date: 28.07.2014

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
	DGM (SO)	Fax no. 011-23221059, 23221012
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
NR	Sr. DEE (Northern Railway) – Special Invitee	Fax No. 011-23742667
DMRC	DGM (Elect.) – Special Invitee	

विषय: प्रचालन समन्वय उपसमिति बैठक दिनांकित दिनांकित 30.07.2014 (बुधवार) अपराह्न 03:00 बजे की कार्यसूची ।

Sub: Agenda of OCC Meeting dated 30.07.2014 (Wednesday) at 03:00 PM

प्रचालन समन्वय उपसमिति की बैठक दिनांक 30.07.2014 (बुधवार) अपराह्न 03:00 बजे, प्रथम मंजिल, सम्मेलन कक्ष, एस एल डी सी भवन, मिंटो 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. 30.07.2014 (Wednesday) at 03:00 PM in the Conference Room, 1st Floor, SLDC Building, Minto Road, New Delhi in accordance with agenda enclosed herewith.

Kindly attend the meeting.

लवलीन
28-7-14
(लवलीन सिंह)

(Loveleen Singh)

उप-प्रबंधक (प्रचालन सेवाएं एवं लाइन्स)

Dy.General Manager (Operation Services & Lines)

संयोजक, प्रचालन समन्वय उपसमिति

Convener, Operation Coordination Committee

Encl: Agenda of OCC meeting dt. 30.07.14 (Wednesday)

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. 30.07.2014

Date : 30.07.2014 (Wednesday)
Time : 03:00 PM
Venue : Conference Room, SLDC Building, Minto Road.

1.0 Confirmation of minutes of OCC meeting dt. 29.05.2014 and emergency OCC meetings dt. 11.06.14 and dt.19.06.14.

Last OCC meeting was held on 29.05.14 in accordance with the agenda circulated vide letter dt.28.05.14. Minutes of the aforesaid OCC meeting were issued vide letter dated 06.06.2014. Further, two nos. emergency OCC meetings were held on dt. 11.06.14 and dt. 19.06.14 and minutes for the same were issued vide letter dtd. 11.06.14 and dtd.20.06.14.

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 had been prepared by SLDC and the tendering process was being done by MES. SLDC had informed that the tender had been floated. MES could not participated in earlier meeting as such status is yet to be updated.

MES to update.

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.

During OCC meeting dtd. 29.05.14, OCC again advised DTL to write a letter to NDMC for the aforesaid communication requirement.

DTL and NDMC to update.

2.3 Establishment of new Control Room for DTL

During the earlier OCC meeting, DTL informed that they are planning to have DTL's centralized 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 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.

During OCC meeting dtd. 29.05.14, DTL has informed that a letter has been sent to Railways, but reply is awaited till date.

Railways to deliberate.

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 10th 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.

DTL and BBMB to update.

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

DTL had entrusted the study of installation of shunt capacitors in Delhi system to CPRI on the advice of OCC. CPRI is carrying out the study accordingly for reactive power compensation in Delhi. A draft report has been submitted by CPRI and DTL had discussed it with DISCOMS in a separate meeting on dt. 08th & 09th January, 2014 as advised by Delhi OCC in its meeting dt.30.12.13.

Later, a meeting was held on 02.07.14 by Planning department of DTL to discuss the Final report of reactive power compensation study carried out by CPRI.

Final report is to be submitted by CPRI after including the suggestions/recommendations made during the meeting dt. 02.07.14.

DTL to update.

2.7 Status of Hot Reserve of transformers at all levels.

DTL to update the status of following hot reserves:

S. No	Capacity	Present population in nos.	Status of the hot reserve as on 29.05.14	Remarks
1	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
2	220/66kV, 100MVA Tx	42	DTL informed that 220/66-33/11kV, 100MVA Tx at	DTL informed that foundation work is in

3	220/33kV, 100MVA Tx,	33	220kV Patparganj S/Stn. proposed as hot reserve is at site i.e. at 220kV S/Stn. Patparganj.	progress.
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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.

In OCC meeting dtd. 29.05.14, 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.

DTL to update.

2.8 Long/Recent outage of Elements in Delhi power system as on 28.07.2014 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	DISCOM /DTL	Date and Time of outage	Remarks/ Status as on 29.05.2014
1	66kV VASANT KUNJ - RIDGE VALLEY CKT.-II ('Y' PH. CABLE)	BRPL	13.01.14	BRPL informed that one of the cables is expected by the end of June, 2014.
2	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.
3	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
4	33kV BAY-5 (IP - LAJPAT NAGAR) ALONG WITH 33KV ½ BUS AT LAJPAT NGR	BRPL	01.03.14	BRPL informed meeting with BHEL, Bhopal taken place spares are being arranged. Expected by end

				of June, 2014
5	33kV KILOKRI - JAMIA CKT. ('R' & 'B' PH. CABLE)	BRPL	15.03.14	Expected by 07.07.14
6	33kV NIZAMUDDIN - EXHIBITION GROUND-I CKT (Y PHASE CABLE)	BRPL	23.06.14	Recent
7	33kV OKHLA (220kV) - NEHRU PLACE CKT. -IV('Y' PH. SINGLE CABLE)	BRPL	31.05.14	Recent
8	33kV VSNL - NEHRU PLACE CKT. (SINGLE CABLE)	BRPL	02.07.14	Recent
9	66kV OKHLA PH.-I - MOHAN CO-OPERATIVE CKT.-I	BRPL	12.07.14	Recent
10	33kV LODHI ROAD- NDSE -II CKT. (SINGLE CABLE)	BRPL	24.07.14	Recent
11	33kV MALVIYA NAGAR (66kV) - ADCHINI CKT.('R'PH. SINGLE CABLE)	BRPL	25.07.14	Recent
12	33kV BAY-37 (IP - KILOKRI) (SINGLE CABLE)	BRPL	25.07.14	Recent
13	33kV KILOKRI - NIZAMUDDIN CKT. ('B' PH. CABLE)	BRPL	25.07.14	Recent
14	33kV MALVIYA NAGAR (66kV) - ADCHINI CKT. ('Y'PH. SINGLE CABLE)	BRPL	25.07.14	Recent
15	33kV PANKHA ROAD - MAYA PURI CKT. (SINGLE CABLE)	BRPL	22.07.14	Recent
16	33kV REWARI LINE - MAYA PURI CKT. (SPARE CABLE)	BRPL	24.07.14	Recent
17	66/33kV 50MVA PR. TR.-I AT GONDA	BYPL	15.06.14	Recent
18	66kV PPK - REWARI LINE CKT. (ONE CABLE)	TPDDL		New scheme is in process. After implementation of the new scheme, this line will be dumped.
19	33KV RIDGE VALLEY - NEHRU PARK CKT.	NDMC	27.06.14	Recent
20	33KV TRAUMA CENTRE - SAFDARJUNG AIR PORT CKT.	NDMC	10.07.14	Recent
21	33KV TRAUMA CENTRE - AIIMS CKT.-III	NDMC	25.07.14	Recent
22	400kV BAMNAULI - JHATIKARA CKT.-II	DTL	11.06.14	Y-1 Phase Straight through joint box damaged & resultant fire damaged all the six.
23	220KV MAHARANI BAGH - MASJID MOTH CKT-I	DTL	14.06.14	Cable faulty. Cable damaged during digging by PGCIL contractor.

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

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.

Earlier, 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.

DTL to update.

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.

DTL and DISCOMs to update.

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.

During meeting dt.29.05.14, OCC advised DTL's planning to study the feasibility and act swiftly.

DTL to update.

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

During OCC meeting dtd. 29.05.14, 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.

TPDDL and BBMB to update.

2.13 Repair/Overhauling of 11kV Switchgears at 220kV S/Stn. Okhla.

11kV Switchgear at 220kV Okhla S/Stn. has completed 19 years in service and presently in much dilapidated condition and requires major repairing/overhauling for smooth operation of the equipment. The estimated cost for repairing /overhauling of the said equipment is Rs.32,65,117.62 p. The load would be required to be shifted by BRPL.

As per the DERC order no. F.17(44)/Engg./DERC/2012-13/3496/3930 dtd. 29.11.2013, DISCOMs have to permanently shift the 11kV load from DTL substations.

Members may deliberate.

2.14 Over loading of 20MVA Trfs. at 220kV Najafgarh Substations.

DTL informed that during this summer season, excessive over loading on all the 3 nos. 20MVA Trsf. has been noted for about whole summer season. For maintaining the loading condition of 20 MVA Trsf., rotational load shedding on 11KV feeders is being resorted to for about whole summer season. Due to this, local public are facing hardships due to non availability of power supply. In the past, due to this menace, DTL installations have been intruded upon by local people and try to sabotage the DTL installations at 220KV S/Stn. Najafgarh.

Further, whenever DTL avails any planned/emergency shutdown on any of the 11KV outgoing feeders emanating from 220KV S/Stn. Najafgarh, BRPL is always unable to back feed the load of any of the 11KV feeders. It is prudent to mention that this is contrary to the transfer schemes rules 2001 vide which it was mandated that DISCOMS shall shift their 11KV loads from existing 220KV S/Stns. of DTL. However, no proper action has been taken by BRPL till date for shifting of load from DTL Najafgarh S/Stn. Accordingly, BRPL has to erect and commission new 66KV S/Stns. and shift the 11KV load from Najafgarh DTL S/Stn. to their thus erected substations.

DTL and BRPL to deliberate.

2.15 LILO of existing 66kV NJF-G-5 PPK-1 from 220kV Substation Najafgarh:-

DTL informed that a PTW Request made by Sh Sandeep Kumar, P&C deptt of BRPL at 07.55 Hrs on 03.07.2014 at 220kV Substation Najafgarh for the 66kV NJF-G-5 PPK-1 Line for LILOing the said Line at upcoming 66kV DMRC Metro Depot at Najafgarh. In this regard, DTL requested BRPL through email dated 02.07.2014 for entering into connection agreement with DTL for change of configuration of this line as the same was being LILOed at upcoming 66kV DMRC Metro Depot at Najafgarh in line with DERC regulations/ guidelines. However, BRPL has not carried any connection agreement and charged the said lines on 16:57Hrs on 03.07.2014. Further, DTL informed BRPL has not taken any consent of DTL protection deptt. And even the relay setting have not been revised/ changed as per revised configuration of said line.

As such, it is noted that BRPL is not following the laid down rules of DERC etc.

Also, the said Line of 66kV G-5 PPK-1 is on load w.e.f 03.07.2014 and due to this other DTL substations are being overloaded due to non-taking of load on this line.

In this regard, DTL requested BRPL to look into the issue.

BRPL to deliberate.

2.16 Excessive overloading observed on 66kV Budela Line on 08.07.2014

DTL informed that on 66kV Budela line, current exceeds the allowable limits @ 800Amp. The rating of the CT is 800Amp and load ranged due to overloading ranging from 790Amp to 840Amp at about 20:20Hrs to 22:35Hrs on 08.07.2014. The Operational staff of DTL informed to SLDC and in return SLDC further asked BRPL for offloading the said line up to safe limit. But it was noted that the load on this line has gone down only for some minutes and again the

overloading has been noted to the tune of 840Amp. It was noted that the DISCOM i.e. M/s BRPL did not offload the said feeder in due course even after asking by SLDC and also, they again put the load on this line beyond safe margin i.e. 800Amp (CT rating is 800Amp). Due to this, the line equipments particularly CTs were at stake for their healthiness and as such, it cannot be ruled out these CTs may have damaged due to overloading.

In the past also, the similar incidents took place and BRPL did not give immediate response / relief for offloading the Transformers and lines installed even after asking by SLDC. Even if they provide relief, that is only for very short duration i.e. for 15-20 minutes. Such incidents dent the life of the equipments installed.

As such, DTL requested BRPL to look into the issue. Further, DTL informed that the above issue is not only restricted to Pappankalan-1 substation but also at other substations of DTL i.e. at 220kV Substation Najafgarh.

BRPL to deliberate.

2.17 Overloading of various 20MVA TRs (DTL assets) and 11kV Feeders of BRPL emanating from 22kV Substation Najafgarh:-

DTL informed that as per enclosed **Annexure-1**, the load shedding has been carried out in this summer season on 20MVA Transformers and 11kV Feeders only because of overloading of either the 11kV Feeders or 20MVA Trs. The list shows that due to non-availability of alternate source at 11kV Level (also no back feeding arrangement is available at 11kV level by BRPL), DTL 220kV NJF substation has to resort to load shedding at 11kV level. As such, it can be seen that due to the non-availability of backfeeding etc at BRPL end, the local public frustration is being faced by DTL without no good reason.

Further, DTL informed that several trippings occurred as per enclosed **Annexure-2** in this summer season at various 11kV O/G feeders which is showing that the said feeders are directly tripping from the 220kV Substation Najafgarh without getting tripped locally at BRPL end. The matter has been taken up many a times with the BRPL in the various OCC meetings, but no concrete steps have been taken by BRPL till date. It is observed that even for very small problem (e.g. for fuse failure in HVDS), the whole feeders get tripped and as such, total feeders load is affected.

BRPL to 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 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.

SLDC and NDMC to update.

4.0 Agenda points of TPDDL.

4.1 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 to update.

4.2 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 20th June, 2014.

DTL to update.

4.3 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.

DTL to update.

4.4 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 08th 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.

DTL to update.

4.5 66kV MGP-1 T-Off Nagloi Ckt. from 400kV Mundka

On dated 16-06-2014, 66kV MGP-1 T-Off Nangloi Ckt tripped from 400kV Mundka Grid at 14:47 hrs. At same time 66kV Nangloi Ckt is also tripped from 400kV Mundka. After

investigation it came into notice that BSES was taking load on 66kV MGP-1 T-Off Nangloi Ckt without taking permission of TPDDL. They didn't only take load but running their direct circuit (66kV Nangloi Ckt) parallel with our circuit. That is why our circuit also tripped with fault in their circuit.

It is requested to maintain discipline in System shift load after consultation.

BRPL to deliberate.

4.6 Status of 220kV Peeragarhi

As now 33kV Ranibagh CC cable is laid down to 220kV Peeragarhi Grid. But work on 220kV Peeragarghi is not completed yet due to which we are unable to shift load from existing Ranibagh Grid. Beside of that some 11kV feeders are also laid down but we can't charge it from new grid as no juice is available in existing SMB- Ranibagh Ckt.

DTL to update the status of 220kV Peeragarhi.

4.7 Mismatch between actual load at SCADA and DTL website :

TPDDL informed that they have noticed there is difference of almost 50-60 MW at maximum time at DTL website. It may possible that there is difference due to inter DISCOM exchange points like Rewari Line, Rohtak Road, MGP-1 and Shastri Park.

TPDDL requested SLDC to share how they calculate load sharing in these Grids.

SLDC to deliberate.

5.0 Status of additional allocated bay for Bodela-1 grid (BRPL Agenda Point).

In earlier OCC, DTL informed BRPL one additional allocated bay for Bodela 1 grid is ready. BRPL informed that Commercial Agreement has been done.

During meeting, OCC advised BRPL to take up with DTL.

BRPL and DTL to update.

6.0 Spurious trippings on BYPL 11kV System on 08.07.14 around 22:37Hrs (BYPL agenda)

BYPL informed that there were 19 nos. of spurious trippings on 11kV feeders in the different 33kV Grid substations, especially in South East Delhi area and all these grids are being fed from 220kV Patparganj Substation of DTL with 33kV Bus.

On analysis, it is found that the voltage dip was 20% (from 10.8kV to 8.29kV) and the current variation also recorded above 20% at that instant and feeders were energized within

prescribed time. All these trippings were without any fault on DISCOMs side. BYPL wants to collaborate these trippings with 220kV System so as to reach at a logical end in order to avoid such trippings in future. There is an upstream system constraint during the peak hours due to the overloading of power transformer at 220kV Patparganj, Wazirabad and at 220kV line from Geeta Colony to Wazirabad. Because of this, there is a rotational load shedding in peak hours and public is suffering badly for no fault of DISCOM.

BYPL suggested to re-consider the augmentation of 100MVA 220/66kV power transformer to 160MVA at 220kV Patparganj Substation. This issue be flagged of in the meeting to be conveyed by Ministry of Power, Govt. of India with officers of CEA as well, as an exceptional case even though the CEA guidelines put a bench mark of 500MVA Capacity at one Substation.

In view of the above, BYPL requested DTL to take up the issue and also share the reasons for no. of trippings on 11kV feeders of DISCOM having in-feed from 33kV PPG bus at different grids on dt.08.07.14

DTL and BYPL to deliberate.

7.0 Frequent Failure of 220kV System at Pragati Power Station (PPCL Agenda)

PPCL informed that at Pragati 220kV system, there are frequent outages resulting in to loss of grid connectivity to 330MW Pragati Power Station (PPS I) either from Patparganj and Sarita Vihar side causing tripping of generators at PPS-I.

Since 1st April, 2014 there had been following eight incidents of outages:

S. No.	Unit No	Date and time of failure	Time of restoration	Affected Bus 2/ Bus1/Both	Outage time (Hrs)
1	GT#2 & STG	25.05.14 00:58Hrs	25.05.14 03:53Hrs	Both	2.92
2	STG	30.05.14 16:56Hrs	30.05.14 18:12Hrs	Bus-II	1.27
3	STG	09.06.14 13:12Hrs	09.06.14 13:57Hrs	Bus-II	0.75
4	STG	13.06.14 02:36Hrs	13.06.14 03:41Hrs	Bus-II	1.08
5	STG	21.06.14 17:55Hrs	21.06.14 18:40Hrs	Bus-II	0.75
6	GT#1 & STG	25.06.14 05:01Hrs	25.06.14 06:58Hrs	Bus-II	1.95
7	GT#1 & STG	02.07.14 14:05Hrs	02.07.14 15:34Hrs	Bus-II	1.48
8.	GT#2 & STG	06.07.14 17:14Hrs	06.07.14 18:29Hrs	Bus-I	1.25

Such outages causing the partial grid failure of Geeta Colony-Patparganj-Pragati-Maharani Bagh/Sarita Vihar section are frequent over the years. Year-wise number of incidents of failure at Pragati is as follows:

S. No.	Financial Year	No. of incidents	No. of unit tripped
1	2013-14	9	20
2	2012-13	16	37
3	2011-12	10	19
4	2010-11	15	25
5	2009-10	37	62

In view of the above, apart from outage of power supply to consumers in the area, it adversely stresses the generators and their turbines due to frequent start and stops. Further, it also affects the efficiency of units.

PPCL requested DTL to take all necessary measures to avoid such failures. Long term actions be planned to strengthen the system considering future scenario to provide reliable grid connectivity to power stations in the area at least from two sides with N-1 redundancy.

DTL and PPCL to deliberate.

8.0 Proposed Shutdowns

8.1 Proposed shutdown at 220kV Najafgarh Substation.

DTL proposed the following shutdown at 220kV Najafgarh Substation to attend various hotspots observed during the Thermo scanning of 220kV NJF switchyard on 22.07.2014:

S. No.	Proposed Date & time of S/D	Name of the feeder / equipment	Work to be carried out	Remarks/ Areas affected
1.	01.08.2014(08:00 Hrs To 17:00Hrs)	100MVA Trsf. No.1 with 66KV I/C No.1& 66KV Bus -2	To attend the hot spot of Y-phase Line isolator clamp LA side, Y-phase isolator clamp CT side and R-phase line isolator clamp LA side. On 220KV side. R--phase Bus-II isolator clamp Bus-II side, Y-phase Bus-II isolator jaw contact Bus-II side, R-phase Bus-II isolator lamp common side, Y-phase breaker top clamp, Y-phase line isolator jaw contact CT side on 66KV side.	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	02.08.2014(08:00 Hrs To 17:00Hrs)	100MVA Trsf. No.2 with 66KV I/C No.2, 66KV Bus bar-I and 66KV Jaffarpur Ckt.-I	To attend the hot spot on R-phase 66KV Bushing clamp and B-phase 66KV bushing clamp on 220KV side. B-phase Bus-I isolator jaw contact side, B-phase Bus-I isolator jaw contact Bus-I side, R-phase Breaker top clamp, R-phase CT clamp breaker side, B-phase breaker bottom clamp, CT clamp line isolator side, B-phase line isolator jaw contact LA side, Y-phase line isolator clamp LA side. On 66KV	Load Transferred on 100MVA Trsf. No. 1,3 & 4.

			Jaffarpur circuit hot spot attending on B-phase CT clamp breaker side, Y-phase CT clamp line isolator side, Y-phase CT clamp Breaker side and R-phase CT clamp line isolator side.	
3	04.08.2014(08:00 HrsTo 17:00Hrs)	100MVA Trsf. No.3 and 66KV I/C No.3	To attend the hot spot on B-phase CT clamp both side, Y-phase breaker top clamp and Bus-I isolator clamp common side, Y-phase breaker top clamp, B-phase line isolator jaw contact LA side, Y-phase line isolator jaw contact LA side and R-phase line isolator jaw contact CT side on 66KV side.	Load Transferred on 100MVA Trsf. No. 1,2 & 4.
4	05.08.2014(08:00 HrsTo 17:00Hrs)	100MVA Trsf. No.4 with 66KV I/C No.4	To attend the hot spot on B-phase CT clamp breaker side, B-phase line isolator clamp CT side, Y-phase CT clamp breaker side, Y-phase Line isolator clamp LA side, R-phase breaker top clamp, R-phase 220KV bushing clamp and Y-phase 66KV bushing clamp. Also, attend the hot spot on B-phase breaker top PG clamp, R-phase line isolator jaw contact LA side, Y-phase line isolator jaw contact CT side and B-phase line isolator jaw contact LA side.	Load Transferred on 100MVA Trsf. No. 1,2 & 3.
5	06.08.2014(08:00 HrsTo 10:00Hrs)	20MVA Trsf. NO.II	To attend the hot spot on B-phase, 11KV bushing clamp and Y-phase cable and box joint.	Load transfer on 20MVA Trsf. No.1 and backfeded by BSES.
6	07.08.2014(08:00 HrsTo 10:00Hrs)	20MVA Trsf. NO.1	To attend the hot spot on Y-phase 11KV bushing clamp	Load transfer on 20MVA Trsf. No.2 and backfeded by BSES.
7	08.08.2014(08:00 HrsTo 10:00Hrs)	66KV Nangloi W/W	To attend the hot spot on B-phase line isolator jaw contact LA side	Load transfer by BSES.
8	08.08.2014(11:00 HrsTo 13:00Hrs)	66KV Nangloi	To attend the hot spot on B-phase CT clamp line isolator side	Load transfer by BSES
9	09.08.2014(08:00 HrsTo 12:00Hrs)	66KV Budela-II Ckt.I	To attend the hot spot on R-phase CT clamp both side, Y-phase Bus-I isolator clamp common side and Y-phase Bus-I isolator jaw contact common side.	Load transfer by BSES
10	09.08.2014(14:00 HrsTo 17:00Hrs)	66KV Budela-II Ckt-II	To attend the hot spot on B-phase CT clamp breaker side, Y-phase line isolator jaw contact CT side and R-phase line isolator jaw contact LA side.	Load transfer by BSES

Members may deliberate.

8.2 Proposed shutdown by Protection department at 220kV Gazipur Substation.

DTL Protection department proposed the following shutdowns at 220kV Gazipur Substations for retrofitting, installation, testing and commissioning of ABB Numerical Protection relays:

S. No.	Proposed Date & time of S/D	Name of the feeder / equipment	Work to be carried out	Remarks/ Areas affected
1.	05.08.14(10:00Hrs) to 06.08.14(19:00Hrs)	220kV Maharani Bagh Ckt.-1	Dismantle, installation, wiring, testing and commissioning of Main-I, Main-II	ETC Work to be carried out

2	07.08.14(10:00Hrs) to 08.08.14(19:00Hrs)	220kV Maharani Bagh Ckt.- 2	Protection Scheme	by M/s ABB/M/s Tirupati Industrial Agencies
3	11.08.14(10:00Hrs) to 12.08.14(19:00Hrs)	220kV BTPS Ckt.		
4	13.08.14(10:00Hrs) to 14.08.14(19:00Hrs)	220/66kV 100MVA Tx-I	Dismantle, installation, wiring, testing and commissioning of Transformer Differential Protection Scheme	
5	18.08.14(10:00Hrs) to 19.08.14(19:00Hrs)	220/66kV 100MVA Tx-II		
6		220kV Bus Coupler/ Bus bar Panel	Dismantle, installation, wiring, testing and commissioning of Bus-bar Protection Scheme	

Members may deliberate.

8.3 Proposed shutdown by Protection- Metering department at various Substation.

DTL proposed the following shutdowns at various Substations of DTL by Protection – Metering department for carrying Accuracy Testing of CT & PT & metering system to comply the metering regulations:

S. No.	Proposed Date & time of S/D	Name of the feeder / equipment	Remarks/ Areas affected
1.	01.08.2014 (07:00am to 01:00pm)	66kV I/C-I, PPK-I	Feeding to BRPL
2	02.08.2014 (07:00am to 01:00pm)	66kV I/C-II, PPK-I	Feeding to BRPL
3	04.08.2014 (07:00am to 01:00pm)	66kV I/C-III, PPK-I	Feeding to BRPL
4	05.08.2014 (07:00am to 01:00pm)	66kV I/C-IV, PPK-I	Feeding to BRPL
5	06.08.2014 (07:00am to 01:00pm)	11kV Local Trf., PPK-I	Feeding to DTL
6	07.08.2014 (07:00am to 01:00pm)	66kV I/C-I, NJF	Feeding to BRPL
7	08.08.2014 (07:00am to 01:00pm)	66kV I/C-II, NJF	Feeding to BRPL
8	11.08.2014 (07:00am to 01:00pm)	66kV I/C-III, NJF	Feeding to BRPL
9	12.08.2014 (07:00am to 01:00pm)	66kV I/C-IV, NJF	Feeding to BRPL
10	13.08.2014 (07:00am to 01:00pm)	11kV Local Trf.-I, NJF	Feeding to DTL
11	14.08.2014 (07:00am to 01:00pm)	11kV Local Trf.-II, NJF	Feeding to DTL
12	16.08.2014 (07:00am to 01:00pm)	66kV I/C-I, Rohini-I	Feeding to TPDDL
13	19.08.2014 (07:00am to 01:00pm)	66kV I/C-II, Rohini-I	Feeding to TPDDL
14	20.08.2014 (07:00am to 01:00pm)	66kV I/C-III, Rohini-I	Feeding to TPDDL
15	21.08.2014 (07:00am to 01:00pm)	66kV I/C-IV, Rohini-I	Feeding to TPDDL
16	22.08.2014 (07:00am to 01:00pm)	11kV Local Trf., Rohini	Feeding to DTL
17	23.08.2014 (07:00am to 01:00pm)	33kV I/C-I, Shalimar Bagh	Feeding to TPDDL
18	25.08.2014 (07:00am to 01:00pm)	33kV I/C-II, Shalimar Bagh	Feeding to TPDDL
19	26.08.2014 (07:00am to 01:00pm)	33kV I/C-III, Shalimar Bagh	Feeding to TPDDL
20	27.08.2014 (07:00am to 01:00pm)	11kV Local Trf., Shalimar Bagh	Feeding to DTL
21	28.08.2014 (07:00am to 01:00pm)	66kV I/C-I, DSIIDC Bawana	Feeding to TPDDL
22	29.08.2014 (07:00am to 01:00pm)	66kV I/C-II, DSIIDC Bawana	Feeding to TPDDL
23	30.08.2014 (07:00am to 01:00pm)	11kV Local Trf., DSIIDC Bawana	Feeding to DTL

Members may deliberate.

8.4 Proposed shutdown by DMRC

DMRC proposed the following shutdown for erection and termination of tower.

S. No.	Proposed Date & time of S/D	Name of the feeder / equipment	Work to be carried out
1	31.07.14 to 03.08.14 07:00 P.M.	220kV Sarita Vihar – IP Extension	Erection and termination of tower at Okhla Vihar

Members may deliberate.

8.5 Proposed shutdown at 400kV S/Stn. Bamnauli

DTL proposed the following shutdown at 400kV Bamnauli Substation to attend various hotspots observed during the Thermo scanning carried out on 28.07.14 and Preventive Maintenance activities.

S. No.	Proposed Date & time of S/D	Name of the feeder / equipment	Remarks
1	01.08.14	220kV Incomer-III along with Bus-A	Transformer may be made OFF. Temp observed are Y-ph CT 81°C, B-ph CT 70°C CB Side
2	02.08.14	220kV Pappankalan-I Ckt-I	Line may be earthed. Temp observed are as B-Ph CT Line side 70°C
3	04.08.14	220kV Incomer-IV	Transformer may be made OFF. Temp observed are Line isolator B-ph CB side 70°C, Y-ph CT Line side 88°C
4	05.08.14	220kV Pappankalan-II Ckt-I	Line may be earthed. Temp observed are as B-Ph CT Line side 90°C, B-Ph Line side dropper 60°C
5	06.08.14	220kV Incomer-II along with Bus-C	Incomer may be isolated Temp observed are R-ph C bus dropper clamp 82°C
6	07.08.14	220kV Incomer-I	Transformer may be made OFF. Temp observed are as B-Ph CT CB side 72°C, R-Ph CT Line side 86°C

Members may deliberate.

9.0 Any Additional agenda points with the permission of the Chair.

10.0 Date and time of next OCC meeting.