

DELHI TRANSCO LIMITED
(Regd. Office: Shakti Sadan, Kotla Road, New Delhi-110002)
Office of Dy. Gen. Mgr. (OS)

AGENDA OF THE OCC MEETING DT. 13.08.2015

Date : **13.08.2015 (Thursday)**
Time : **03:00 PM**
Venue : **Conference Room, SLDC Building, Minto Road.**

1.0 Confirmation of minutes of OCC meeting dtd. 07.07.2015

Last OCC meeting was held on 07.07.15 in accordance with the agenda circulated vide letter dt.03.07.15. Minutes of the aforesaid OCC meeting were issued vide letter dated 10.07.2015.

Members may like to confirm the same.

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

DTL had entrusted CPRI to study the installation of shunt capacitors in Delhi system on the advice of OCC. Accordingly CPRI carried out the study for reactive power compensation in Delhi. Final report was submitted by CPRI and for its implementation; a copy of report had been emailed to all DISCOMs and GENCOs. SLDC convened a meeting with DISCOMs on dt. 18.02.15 to discuss on the Reactive Power Study report submitted by CPRI.

Planning department, DTL informed that comments from BRPL, TPDDL and BYPL have been received. Comments from NDMC have not yet been received even after repetitive reminders.

DTL and NDMC to update.

2.2 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 07.07.15
1.	220/66kV, 160MVA Tx	18	DTL informed the work has been awarded to M/s Kanohar. Completion period is 5 months from date of award of work i.e. by the end of September, 2015.
2.	220/66kV, 100MVA Tx	41	DTL informed that indent has been sent for 220/66/33kV 100MVA Tx as hot reserve at 220kV Patparganj Substation.
3.	220/33kV, 100MVA Tx,	36	

2.3 Long/Recent outage of Elements in Delhi power system as on 11.08.2015 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 11.08.2015
1	33kV BAY -3 (IP – Kilokri)	BRPL	22.02.11	Clearance from Railways for laying of Underground cables near Bhairon Road is pending.
2	66kV Vasant Kunj – Ridge Valley Ckt.-II ('Y' Ph. Cable)	BRPL	13.01.14	BRPL informed that contract is to be awarded for laying new cable.
3	33kV Kilokri – Jamia CKT. ('R' & 'B' Ph. Cable)	BRPL	15.03.14	Expected by 30.08.15
4.	33kV RIDGE VALLEY - KHEBAR LINE CKT.-I	BRPL	08.02.15	Y-PH. Cable and breaker faulty (Single Cable). Expected by 30.08.15
5.	33kV ½ BUS BAR AT IIT	BRPL	17.07.15	Under Breakdown
6.	33kV IIT - MASJID MOTH - T-OFF ADCHINI CKT.	BRPL	18.07.15	Breaker faulty
7.	33kV I/C FRONT BUS BAR AT 66kV RIDGE VALLEY	BRPL	01.08.15	FLASHED ON 33kV I/C OF FRONT BUS BAR
8.	66kV PPG INDL. AREA - KHICHRIPUR CKT.-II	BYPL	03.05.15	R phase Cable faulty. Expected by 08.08.15
9.	66kV HARSH VIHAR(400kV)-GONDA CKT.-II	BYPL	07.08.15	'B'PH. CABLE FAULTY
10.	66kV GOPALPUR(220kV)-JAHANGIRPURI CKT.-II	TPDDL	05.08.15	'B'PH. CABLE FAULTY
11.	33kV VIDYUT BHAWAN - SCHOOL LANE CKT.	NDMC	14.05.15	Y-Phase faulty. Expected by 20.07.15
12.	220kV MAHARANI BAGH - ELECTRIC LANE CKT.-II	DTL	17.04.15	Cable faulty during digging by MTNL. Expected by the end of July, 2015
13.	400kV BAMNAULI - JHATIKARA CKT.-I	DTL	27.05.15	Joint Box burnt. Expected by 15 th August, 2015

2.4 Phasing out of 66/33kV, 30MVA Power Transformer at 220kV Narela Substation.

DTL informed that the said transformer is currently being utilized for feeding only 01 No. 33kV Circuit i.e. Khampur of TPDDL since 2010. 2nd feeder namely Haiderpur is under B/D since long time. Due to shortage of space in 66KV yard, the transformer is on single bus selection and the same needs to be switched 'OFF' during bus maintenance activities. Further, the transformer is placed adjacent to 20MVAR capacitor bank and thereby always remains in risk of fire during failure of any capacitor unit / cell. Further, the transformer has already lived its useful life period of 25 years successfully as per DERC guidelines and is now under *outlived* condition.

In view of all above, DTL proposed for phasing out of 30MVA, 66/33KV power transformer along with 33KV yard equipments has been initiated in the year 2010. The case has been examined / approved by the Planning Deptt. and put up in OCC accordingly. OCC recommended for consideration of the matter in Steering Committee, in which approval has also been provided for shifting of 33KV load from Narela end by TPDDL.

The subjected transformer has developing acetylene gas during DGA testing, the concentration of which is increasing day by day which indicates some internal high temperature fault. The overhauling / internal inspection of transformer at this stage is not economically feasible (being outlived) and the same may be required to be taken out of service at any time.

During the meeting dt. 08.06.15, OCC advised DTL to carry out internal inspection and dehydration of the transformer and outage for the same shall be provided by TPDDL.

During OCC meeting dt. 07.07.15, DTL informed that the internal inspection by BHEL i.e. OEM is being planned during the end of August, 2015. OCC advised TPDDL to witness the internal inspection.

DTL to update the status.

2.5 Back feed & RMU provision for 11 kV feeders by TPDDL at 220 kV Substation Kanjhawala

220 kV Substation Kanjhawla has 9 Nos. of 11 kV feeders feeding to TPDDL. Out of these 9 feeders, 04 No. feeders i.e Ghewara, SOS Bawana, JJ cluster, ABC Kanjhawala does not have back feed by any other TPDDL grid. These feeders feed to the area nearby Kanjhawala S/Stn and outage of these lines for any reason result in gathering of miscreants /local public at the substation demanding for total black out.

Further, several areas of TPDDL are fed without RMU through auto reclose system i.e. directly from DTL which results in numerous tripping at Kanjhawala sub-station. One such feeder is 11kV Ghewara.

In this regard, DTL requested TPDDL to make arrangement in line with DERC guidelines for back-feeding of the said 4 feeders to avoid any unwanted situation and to safeguard DTL system for any fault at TPDDL end

The issue got deliberated and OCC advised TPDDL and DTL to have joint inspection visiting TPDDL's first switching substations to check protection system and back-feeding provision.

DTL and TPDDL to update the status of joint inspection.

2.6 Non-Reliable Supply from Dedicated Connection at DTL, 220KV GIS Sub-Station Maharani Bagh under MLHT category.

DTL informed that due to frequent failure of supply from O/H feeder at 220kV S/Stn. Maharani Bagh and to resolve the power Supply problem at this station, it was decided to get uninterrupted power supply through dedicated connection from BSES. Accordingly, payment of Rs. 15089353/- was made by SSC-II Division DTL to BSES Rajdhani Power Ltd. in April 2009 for providing 11 KV double connection under MLHT category at 220KV GIS S/Stn. Maharani Bagh, i.e. one supply from the available O/H 11KV line and other one dedicated supply direct from Kilokari Grid.

Dedicated supply connection from Kilokari Grid via CNG filling station Sarai Kale Khan was completed by BRPL in 2013, but un-interrupted power supply from this dedicated feeder (U/g cable) could not be achieved as supply failed 118 times (78Hrs.) during the period from April 2013 – March 2014, 87 times (505 Hrs.) during the period April 2014- March 2015 and 22 times (14 Hrs.) from April 2015-till date. A lot of jerks & voltage Fluctuations were also been observed and it is not good for smooth functioning of auxiliary system of the substation and very importantly the S/Stn. data which needs to be send to SLDC, Minto Road for real time data monitoring also gets effected.

DTL further informed the selection of HT switchgear of 11KV feeder and back feeding of O/H feeder / underground cable feeder from 11KV HT switchgear at Maharani Bagh S/Stn. are being frequently made by BSES staff as per their requirement.

DTL requested that the intent of 11KV dedicated supply connection may be completed by providing the supply direct from Kilokari Grid to Maharani Bagh Substation without tapping/termination from this dedicated feeder to avoid any disturbances due to frequent failure of LT supply.

BRPL informed that they shall look into the issue and revert back in next OCC meeting. However, a formal request for dedicated supply is required from DTL.

2.7 Intimation regarding tripping of 220kV Transmission Lines at BTPS end.

DTL informed that as and when tripping of 220kV Transmission lines occurs from BTPS end, the same information is not being available with DTL Substation In-charge.

In this regard, DTL requested BTPS to provide the information on tripping of 220kV Lines feeding DTL substations.

3. Publication of implemented schedule by SLDC on its website.

Delhi SLDC in its capacity under section 32 of Electricity Act-2003 is keeping the account of the quantity of the electricity transmitted through the state grid. The roles and functions of the Delhi SLDC are defined in the CERC's Indian Electricity Grid Code (IEGC)-2010 and DERC's State Grid Code Regulation-2008.

Please refer to the clause 30 of the DERC’s State Grid Code Regulation-2008, which states that regional grid operation and state grid operations shall be conducted in accordance with the provisions of Indian Electricity Grid Code (IEGC).

Further, the CERC’s IEGC grid code 2010 clause 6.5(29) states that-

“After the operating day is over at 2400hours, the schedule finally implemented during the day (taking into account all before-the-fact changes in despatch schedule of generating stations and drawl schedule of the States) shall be issued by RLDC. These schedules shall be the datum for commercial accounting. The average ex-bus capability for each ISGS shall also be worked out based on all before-the-fact advice to RLDC”.

The commercial accounting is being done on the basis of the implemented schedules of the ISGS and SGS stations.

The NRLDC, in accordance to the IEGS, is issuing the provisional as well as implementing schedule of all the ISGS on daily basis whereas the Delhi SLDC is not issuing the implemented schedules on daily basis.

Accordingly, BYPL requested SLDC to issue the implemented schedules on daily basis on Delhi SLDC website to access by the Delhi DISCOMs as it will help DISCOMs for better power planning and commercial settlement.

BYPL and SLDC to deliberate.

4 Trippings of 220kV BTPS lines from DTL end.

During the last month, 4 nos. trippings occurred on 220kV Lines of BTPS during which high fault current & high voltage dip occurred causing tripping of U#3.

Accordingly, BTPS requested DTL that intensive patrolling of lines to be carried out for stability of station and detail analysis of tripping to be shared.

BTPS and DTL to deliberate.

5 Proposed Shutdowns

5.1 Proposed Shutdowns at 220kV Patparganj S/S.

During meeting dt. 07.07.15, OCC deferred the following shutdowns proposed by DTL at 220kV Patparganj S/Stn. To next OCC meeting:

S. No.	Proposed Date & time of S/D	Name of the feeder / equipment	Work to be carried out
1	11.07.15 09:00Hrs to 15.07.15 17:00Hrs	100MVA, 220/33KV TRANSFORMER NO-IV	Replacement of outlived 245kv circuit breaker
2	16.07.15 09:00Hrs to	100MVA, 220/33KV TRANSFORMER	Replacement of outlived 245kv circuit

	19.07.15 17:00Hrs	NO-III ALONGWITH BUS-I	breaker
3	20.07.15 09:00Hrs to 23.07.15 17:00Hrs	220KV GEETA COLONY CKT-I	Replacement of outlived 245kv circuit breaker
4	24.07.15 09:00Hrs to 27.07.15 17:00Hrs	220KV GEETA COLONY CKT-II	Replacement of outlived 245kv circuit breaker
5	28.07.15 09:00Hrs to 31.07.15 17:00Hrs	220KV I.P. CKT-I	Replacement of outlived 245kv circuit breaker
6	01.08.15 09:00Hrs to 04.08.15 17:00Hrs	220KV I.P. CKT-II	Replacement of outlived 245kv circuit breaker
7	05.08.15 09:00Hrs to 08.08.15 17:00Hrs	220KV BUS-COUPLER	Replacement of outlived 245kv circuit breaker
8	09.08.15 09:00Hrs to 12.08.15 17:00Hrs	220KV GAZIPUR	Replacement of outlived 245kv circuit breaker

5.2 Proposed Shutdowns at 220kV I.P. S/S.

During meeting dt. 07.07.15, OCC deferred the following shutdowns proposed by DTL at 220kV I.P. S/Stn. To next OCC meeting:

S. No.	Proposed Date & time of S/D	Name of the feeder / equipment	Work to be carried out	Remarks
1	10.07.15 09:4:00Hrs to 11.07.15 22:00Hrs	220kV Bus-I South Section	Bus bar replacement work	Load can be shifted on 220kV Bus-II South Section
2	12.07.15 09:4:00Hrs to 13.07.15 22:00Hrs	220kV Bus-II South Section		Load can be shifted on 220kV Bus-I South Section
3	14.07.15 09:4:00Hrs to 15.07.15 22:00Hrs	220kV Bus-I North Section		Load can be shifted on 220kV Bus-II North Section
4	18.07.15 09:4:00Hrs to 19.07.15 22:00Hrs	220kV Bus-II North Section		Load can be shifted on 220kV Bus-I North Section

5.3 Proposed Shutdowns at 220kV Narela S/S.

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

S. No.	Proposed Date & time of S/D	Name of the feeder / equipment	Work to be carried out	Remarks
1	19.08.15(07:00Hrs. to 14:00Hrs.)	220/66kV 100MVA Trf. No.- I	For replacement of B-phase CT with old serviceable ASEA make CT due to High Tan-Delta value (0.76)	Load will be shifted on 100MVA Trf. Nos.- II & III
2	22.08.15(07:00Hrs. to 14:00Hrs.)	66KV A-7 NRL Ckt. No.- I along with 66KV Bus- I	For replacement of damaged R-phase Bus-I Isolator dropper Jumpers	Load will be shifted by TPDDL. 30MVA Trf. will remain OFF due to single Bus selection.

5.4 Proposed Shutdowns at 220kV Okhla S/S.

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

S. No.	Proposed Date & time of S/D	Name of the feeder / equipment	Work to be carried out	Remarks
1	22.08.15(09:00Hrs. To 12:00Hrs.)	33 KV Okhla ph. II Ckt. II along with 33 KV Bus-II	Repairing of B ph. Bus-II isolator top jaw.	Load may be shifted on 33 KV Okhla Ph. II Ckt. I and 33 KV Bus-I.
2	22.08.15(14:00Hrs. To 17:00Hrs.)	66 KV Okhla Ph. I Ckt. I	General maintenance of bay equipments.	Load may be shifted on 66 KV Okhla ph. I Ckt.II
3	17.08.15(09:00Hrs. To 13:00Hrs.)	100 MVA Tx. V	Carrying out low voltage testing of Tx.	Load may be shifted on 100 MVA Tx. III & IV.
4	17.08.15(14:00Hrs. To 16:00Hrs.)	100 MVA Tx.III	Carrying out D.C logic test by prot. staff	Load may be shifted on 100 MVA Tx. IV & V.
5	19.08.15(09:00Hrs. To 13:00Hrs.)	33 KV Balaji Ckt. I along with 33 KV Bus-I	Repairing of B ph. Bus-I isolator top jaw.	Load may be shifted on 33 KV Balaji Ckt. II and 33 KV Bus-II
6	20.08.15(10:00Hrs. To 15:00Hrs.)	33 KV Alaknanda Ckt. II along with Bus-I	Earthing of line & Bus isolators by M/S Pawan Electrical works.	Load may be shifted on 33 KV Alaknanda Ckt. I and 33 KV Bus-II
7	23.08.15(07:00Hrs. To 10:00Hrs.)	66 KV Malviya Ngr. Ckt. I along with 66 KV Bus-II	Replacement of Y ph. Bus-II isolator blade.	Load may shifted to 66 KV Malviya Ngr. Ckt.II and Bus-I
8	23.08.15(11:00Hrs. To 14:00Hrs.)	66 KV Malviya Ngr. Ckt. II along with 66 KV Bus-II	Replacement of Y ph. Bus-II isolator blade.	Load may shifted to 66 KV Malviya Ngr. Ckt. I and Bus-I
9	24.08.15(07:00Hrs. To 18:00Hrs.)	33 KV Nehru Place Ckt. IV along with 33 KV Bus-I	Replacement of MOCB with Sf-6 breaker	Load may be Nehru Place Ckt. I & II
10	27.08.15(10:00Hrs. To 13:00Hrs.)	20 MVA Tx. I	Cap. & Tan delta testing of windings, bushings and D.C logic test.	Load may be shifted on 20 MVA Tx.II
11	27.08.15(13:30Hrs. To 17:00Hrs.)	20 MVA Tx. II	Cap. & Tan delta testing of windings, bushings and D.C logic test.	Load may be shifted on 20 MVA Tx.I
12	28.08.15(10:00Hrs. To 15:00Hrs.)	100 MVA Tx. I along with 66 KV I/C No. I	C & Tan delta testing of bushings and windings.	Load may be shifted to 100 MVA Tx. II
13	29.08.15(07:00Hrs. To 18:00Hrs.)	33 KV Balaji Ckt-II along with 33 KV Bus-I	Replacement of MOCB with Sf-6 breaker.	Load may be shifted to 33 KV Balaji Ckt-I.

5.5 Proposed Shutdowns at 220kV Gopalpur S/S.

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

S. No.	Proposed Date & time of S/D	Name of the feeder / equipment	Work to be carried out	Remarks
1	08.08.15 (06:00Hrs to 09:00Hrs)	33kV Wazirabad ckt.-I	For attending B phase earth switch alignment	The load may please be transfer at 33kV Wazirabad ckt.-II

2	09.08.15 (06:00Hrs to 11:00Hrs)	33kV Indira Vihar ckt.-I	For Line isolator alignment	The load may please be transfer at 33kV Indira Vihar ckt.-II
3	16.08.2015 (06:00Hrs to 13:00Hrs)	220kV Mandola Ckt.-II	For replacement of outlived LA at R Y and B phase.	The load may please be transfer at 220kV Mandola ckt.-I.
4	19.08.2015 (06:00Hrs to 13:00Hrs)	220kV Bus-II	For replacement of outlived Bus-II CVT all phase	The load may please be transfer at 220kV Bus-I.
5	23.08.2015 (06:00Hrs to 13:00Hrs)	100 MVA Tx-I alongwith 33kV I/C-I	For replacement of 220kV outlived LA at R Y and B phase	The load may please be transfer at 100 MVA Tx-III and 33kV I/c-III
6	24.08.2015 (09:00Hrs to 12:00Hrs)	100 MVA Tx-III alongwith 33kV I/C-III	For doing general maintenance work & Tan delta testing of transformer and CTs.	The load may please be transfer at 100MVA TX-I and 33kV I/C-I
7	24.07.2015 (11:00Hrs to 12:00Hrs)	220kV Bus-I	For Tan delta testing of CVT.	The load may please be transfer at 220kV Bus-II.
8	24.07.2015 (12:00Hrs to 13:00Hrs)	220kV Bus coupler	For Tan delta Testing of CTs	No need of shifting of load.
9	25.08.2015 (06:00Hrs to 13:00Hrs)	220kV Mandola Ckt.-II	For Tan delta testing of CVT and CTs	The load may please be transfer at 220kV Mandola ckt.-I.
10	27.08.2015 (06:00Hrs to 13:00Hrs)	100 MVA Tx-2 along with 66kV I/C-I	For replacement of outlived 3 nos 220kV LA	The load may please be transfer at Narela 220kV

5.6 Proposed Shutdowns at 220kV DSIIDC Bawana S/S.

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

S. No.	Proposed Date & time of S/D	Name of the feeder / equipment	Work to be carried out	Remarks
1	19.08.15 (06:00Hrs. to 11:00Hrs.)	66 KV Bawna Sector-I Ckt-2 with 66 KV Bus-I	Alignment of Bus-I isolator	Load will be managed by system operation
2	22.08.15 (06:00Hrs. to 11:00Hrs.)	100 MVA Tr.-III and 66 kV I/C-III with 66 kV Bus-II	To attend hot spot and general mtc.	Load will be managed by system operation
3	22.08.15 (06:00Hrs. to 11:00Hrs.)	20 MVA Tr.-III with 66kV Bus-I	Alignment of Bus-I isolator	Load will be managed by system operation
4	28.08.15 (06:00Hrs. to 11:00Hrs.)	100 MVA -2 with 66 kV I/C-2 along with 220 KV Bus-II	To attend hot points	Load will be managed by system operation

5.7 Proposed Shutdowns at 220kV Kanjhawla S/S.

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

S. No.	Proposed Date & time of S/D	Name of the feeder / equipment	Work to be carried out	Remarks
1	18.08.15 (06:00Hrs. to 09:00Hrs.)	220kV Kanjhawla-Najafgarh Ckt-II	To attend hot point at R-phase Line Isolator Clamp	Load to be managed at 220kV Najafgarh end
2	20.08.15 (06:00Hrs. to 09:00Hrs.)	66kV Incomer-I	To attend hot point at R&B-phase Line Isolator Clamps	Load to be met by 66kV Incomer-II

6 Any additional agenda points with the permission of the Chair.

7 Date and time of next OCC meeting.