



DELHI TRANSCO LIMITED
(A Govt. of NCT of Delhi Undertaking)
An ISO 9001:2008 certified company
Office of DGM(T) OS, Convener-OCC
1st Floor, 220 kV Sub-Stn Park Street, Opp. Talkatora Stadium,
Near R.M.L. Hospital, New Delhi-110001
Web:-www.dtl.gov.in, E-mail :- dgm.os@dtl.gov.in

No. F.DTL/831/F.4/2017-18/DGM (OS)/79

Date:18.12.2017

To,
All Members of Operation Co-ordination committee

DTL	General Manager (O&M)-I, Chairman OCC General Manager (O&M)-II General Manager (Protection, Metering & Disaster Mgmt.) General Manager (Planning) DGM (O&M)- North, East, West, South DGM (M/P) DGM(Plg.)	Fax no. 011-23366160 Fax No.011-23622707
SLDC	ED (SLDC) DGM (SO)	Fax no. 011-23221069 Fax no. 011-23221059/12,
TPDDL	HOD (PSC &AM) Sr. Manager (PSC)	Fax no. 011-66050602 Fax no. 011-66050602
BRPL	Vice President (SO)	Fax no. 011-39996549
BYPL	AVP (SO)	Fax no. 011-39996549
NDMC	Superintending Engineer	Fax no. 011-23235754
IPGCL	AGM (T) COS AGM (T) Opr. GTPS	Fax no. 011-23284797 Fax no. 011-23370884
PPCL	DGM (T) Opr. PPS-I DGM (T) Opr. PPS-III	Fax no. 011-23378947 Fax no. 011-27791175
MES	AEE/M.SLDC Officer	
BTPS	AGM (EEMG)	Fax no. 011-26944348
BBMB	Sr. Executive Engineer, O&M	Fax no. 011-28315542
DMRC	Addl. GM (Elect.)	Special Invitee
DMRC	General Manager (Elect.)	Special Invitee
GMR(DIAL)	GM(DIAL)	Special Invitee
N. Railways	Sr. DEE (TRD)	Special Invitee
EDWPCL	Director(EDWPCL)	Special Invitee
Delhi MSWSL	Station Incharge	Special Invitee

Sub: Agenda for next Delhi OCC Meeting (09/17-18) to be held on 22.12.2017 (Friday) at 2:30 P.M.

Dear sir/madam,

The next Delhi OCC meeting is scheduled to be held on dt.- 22.12.2017(Friday), 2:30 P.M. at the following venue:-

**O/o-GM(O&M)-I, Delhi Transco Ltd., 220 kV Sub-Stn Park Street,
Opp. Talkatora Stadium, Near R.M.L. Hospital, New Delhi-110001**

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

Thanking You.

Encl: Agenda for Delhi OCC meeting.

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

DELHI TRANSCO LIMITED

(Regd. Office: Shakti Sadan, Kotla Road, New Delhi-110002)

AGENDA FOR DELHI OCC MEETING NO. 09/17-18

Date : 22.12.2017 (Friday)
Time : 2:30 PM
Venue : O/o-GM(O&M)-I, Delhi Transco Ltd.,
220 kV Sub-Stn Park Street,
Opp. Talkatora Stadium, Near R.M.L. Hospital,
New Delhi-110001

1. Confirmation of minutes of Delhi OCC meeting held on dated 20.11.2017.

The previous Delhi OCC meeting was held on 20.11.2017 in accordance with the agenda circulated vide letter dt: 16.11.2017. Minutes of the aforesaid OCC meeting were issued vide letter dt.23.11.2017.

Members may like to confirm the same.

2. DTL/SLDC AGENDA POINTS:

2.1 Shutdown of 220kV BTPS-Okhla Ckts for 03 days

DMRC requested DTL for urgent shutdown of 220kV BTPS-Okhla Transmission line (Letter enclosed as Annexure-I).

Letter inferred the following:

1. DMRC is constructing lift & escalator at Sarita Vihar metro station. 220kV D/C BTPS-Okhla ckts is infringing the construction of lift and Escalator. To remove infringement DMRC is raising the height of the line by providing monopole tower in the land owned by Sarvodya School.
2. This matter was also discussed and agreed in the meeting in the office of MD, DTL on 13.01.17. The matter was also raised by DMRC officials in Delhi OCC meeting held on 20.11.17.

Since shutdown comprise of both ckts. of BTPS-Okhla for three days whereas Okhla S/Stn is radially fed from BTPS. All load of Okhla needs to be shifted by BRPL.

The backfeed arrangement as discussed with BRPL control room is as under :

Name of S/Stn.	Feeders / Bays	Remarks
220kV OKHLA S/Stn	66kV MALVIYA NAGAR CKT-I	Entire Load shall be shifted to 66kV Malviya Nagar I&II from 220kV Mehrauli S/Stn.
	66kV MALVIYA NAGAR CKT-II	
	66kV MALVIYA NAGAR CKT-III	
	66kV OKHLA PHASE-I CKT-I	Entire Load shall be shifted to 66kV Mathura Road I&II from 220kV Sarita Vihar S/Stn.
	66kV OKHLA PHASE-I CKT-II	

33kV NEHRU PLACE CKT-I	Entire Load shall be shifted to 33kV Nehru Place Ckt. from 220kV Masjid Moth S/Stn.
33kV NEHRU PLACE CKT-II	
33kV NEHRU PLACE CKT-IV	
33kV BALAJI CKT-I	
33kV BALAJI CKT-II	Entire Load shall be shifted to 33kV Masjid Moth Ckt. from 220kV Masjid Moth S/Stn.
33kV EAST OF KAILASH CKT	
33kV ALAKNANDA CKT-I	Entire Load shall be shifted to 33kV Alakhnanda Ckt. from 220kV Masjid Moth S/Stn.
33kV ALAKNANDA CKT-II	
33kV OKHLA Ph-II CKT-I	No direct source to the Okhla Ph-II grid and back feed arrangement required.
33kV OKHLA Ph-II CKT-II	
33kV TUGLAKABAD CKT	Part load shall be shifted to 66kV Malviya Nagar I&II from 220kV Mehrauli S/Stn & part load requires back feed arrangement.
33kV MASJID MOTH CKT	Entire Load shall be shifted to 33kV Masjid Moth Ckt. from 220kV Masjid Moth S/Stn.
66/11kV, 20MVA Tx-I	11kV Part load may be back feeded & part load requires back feed arrangement through 33kV (BRPL) via 33kV Okhla Stn.
66/11kV, 20MVA Tx-II	

In addition to above, there is a T-Off arrangement between 220kV BTPS-Mehrauli Ckt.-I and 220kV BTPS-Okhla Ckt.-II which can be used during the outage of 220kV 220kV BTPS-Okhla Ckt.-I&II to meet load of Okhla S/stn.

Members may please deliberate.

2.2 Shutdown of 400kV BUS-I & BUS-II at 400kV Maharani Bagh from 09.01.2018 to 18.01.2018 (NRPC 142nd OCC Meeting Agenda).

PGCIL requested Shutdown of 400kV BUS-I & BUS-II at 400kV Maharani Bagh from 09.01.2018 to 18.01.2018 in 142nd NRPC OCC meeting held on 14.12.2017 to carry out the following works.

- (i) Rectification of Y and B Phase, B3 Module at 400 kV GIS of 315 MVA ICT 2 bay (Bay no 404)
- (ii) For above rectification work, SF₆ gas shall be evacuated from 400 kV Bus I & II adjoining to Y & B phase B -3 module. So, 400 kV BUS I & II shall remain out of service till reassembling.
- (iii) During shutdown, power evacuation from 400kV Bus-I & II from Maharani Bagh S/Stn shall be fully interrupted

The Shutdown of 400kV BUS-I & BUS-II at 400kV Maharani Bagh was taken earlier also during 24.11.2017 to 30.11.2017 as approved in Delhi OCC Meeting held on 20.11.017.

In view of India-Asean Special Commemorative Summit, scheduled to be held on 25-26 January 2018 in New Delhi and due to anticipation of fog in January month, SLDC Delhi requested NRPC to postpone the aforesaid shutdown for February-2018.

2.3 Shutdown of 220kV Double ckt. Maharani Bagh – Gazipur T/L for the construction of Barapullah Phase-III Project.

SLDC received a letter vide refer no 23(54)/CPM(Flyover)/PWD/2017/664(H) from Chief Project Manager (Flyover). (Letter enclosed as Annexure-II).

PWD have requested for shutdown of Single ckt. of 220kV Maharani Bagh – Gazipur to start the work.

Members may please deliberate

2.4 Reactive power compensation at 400kV & 220kV Level

Standing Committee of CEA has approved Bus Reactors during its 39th Meeting held on 29-30th May 2017. Delhi has to install Bus Reactors at 19 locations at 220kV Levels and 1 at 400kV Level. Sub station wise details are as under :

Sr. No.	Bus Name	Reactor proposed (in MVAR)
1	400kV Mundka	125
2	220kV Narela	25
3	220kV R.K.Puram	25
4	220kV Patparganj	2 x 25
5	220kV Maharani Bagh	2 x 25
6	220kV Bamnauli	25
7	220kV Subzi Mandi	2 x 25
8	220kV Gopalpur	2 x 25
9	220kV I.P.Stn.	2 x 25
10	220kV Geeta Colony	2 x 25
11	220kV Harsh Vihar	2 x 25
12	220kV Wazirabad	2 x 25
13	220kV Electric Lane	2 x 25
14	220kV Mandola	25
15	220kV AIIMS Trauma Centre	2 x 25
16	220kV Sarita Vihar	25
17	220Kv Bawana	25
18	220kV Preet Vihar	25
19	220kV Mundka	25
20	220kV Masjid Moth	25

During 142nd OCC Meeting of NRPC, Delhi SLDC was asked to update the action taken by DTL.

Planning Deptt may update the status.

2.5 Revision of the document “system restoration procedure for Northern Region”.

NRLDC has requested all stake holders to update / comments on the system restoration procedure documents as detailed hereunder:

1. DG set capacity at IPGCL (GT) at the power station having Black start facility.
2. Traction (Indian railways / Delhi metro) supply details.
3. Start up power requirement details and start power path for generating stations.

4. Bus reactor details.
5. Synchronizing facilities in DTL system / Genco system.
6. List of captive power plants in delhi control area.
7. Discom Wise critical load.
8. Contact details (mobile/landline no./ email-Id) of the nodal officers identified for crisis management during Grid disturbance.
9. Any other relevant information for further improving the ‘system restoration Procedure.

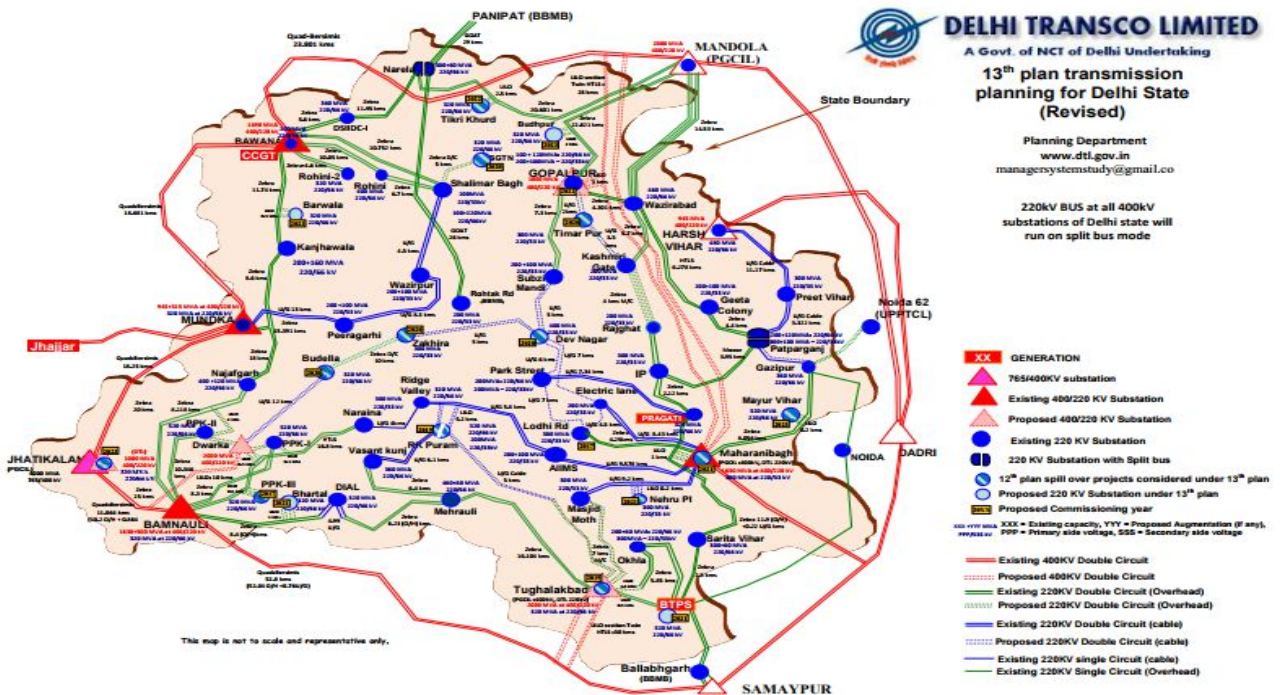
Accordingly, Delhi SLDC has compiled the point wise reply are as under :

1.Details of Black start capability of Gas power stations in Delhi

S. no	Name of G.stn	Fuel type	Whether station has black start capability (yes/no)	Whether Generating station is expected to self start as per the system Restoration procedure of Norhtern region	Installed capacity (in MW)	Black start source	Capacity of DG set /small Generator /Battery	Compliance to 5.8 (b) of IEGC for mock trial runs(last date mock drill carried out)	Whether self started on 30/07/12	Whether self starts on 31/07/12
1	I.P.Gas turbine (IPGCL G.T)	Gas	Yes	Yes	270	DG set	500KVA	No	Yes

The other Generating stations in Delhi do not have Black start facilities.

2. Power map of Delhi state is as under:



3. Network changes since December 2016.

- (a) 220kV Harsh Vihar- Preet vihar (double UG cables)and Preet Vihar –Patparganj (double UG cables) added in Delhi system in Dec-2016.
- The same changes done in power map .

4. Existing Recovery procedure for the respective states being published by SLDCs.

The updation work is in process, the draft of recovery procedure will be submitted in Delhi OCC meeting of Dec-17 and finalized accordingly.

5. Traction supply details (As per formats enclosed)

DMRC-

S. No.	Name of RSS	NAME OF DMRC FEEDER	FEEDING 220kV SUB STATION
1	Kashmiri gate	220 kV DMRC ckt-I	Kashmiri Gate
2	Kashmiri gate	220 kV DMRC ckt-II	Kashmiri gate
3	Rithala	66kV DMRC-I	Rohini-I
4	Rithala	66kV DMRC-II	Rohini-I
5	Jahangirpuri	220kV DMRC-I	Shalimar bagh
6	New delhi	66kV DMRC-I	Gtps. Gen.station
7	New delhi	66kV DMRC-II	Gtps. Gen.station
8	Chattarpur	66kV DMRC-I	Mehrauli
9	Chattarpur	66kV DMRC-II	Mehrauli
10	Subash nagar	66kV DMRC-I	Papankalan-I
11	Subash nagar	66kV DMRC-II	Papankalan-I
12	Dwarka	66kV DMRC-I	Papankalan-II
13	Dwarka	66kV DMRC-II	Papankalan-II
14	Airport	66kV DMRC-I	Dial
15	Airport	66kV DMRC-II	Dial
16	Sarita vihar	66kV DMRC-I	Sarita Vihar
17	Sarita vihar	66kV DMRC-II	Sarita Vihar
18	Airport	66kV DAMPEL	Parkstreet
19	Airport	66kV DMRC-II	Parkstreet
20	R.k.puram	220kV R.K.Puram ckt-I (Charged at 66kV)	Vasantkunj
21	R.k.puram	220kV R.K.Puram ckt-II (Charged at 66kV)	Vasantkunj

Indian Railways-

S.No.	Feeding Source	Remarks
1	220kV Narela	66kV A-7 Ckt-I & II
2	220kV DSIDC Bawana	66kV DSIDC Ckt. I&II
3	220kV Ridge Valley	66kV Ckts.

6. Start-up path for major Generating stations in respective control area.

S.No.	Name of Generating station	Start-up path details
1	BTPS	<p>In case of survival of Delhi inner ring, The supply shall immediately extend start-up power to Badarpur. In order to strengthen the survived network, it shall be synchronized, at the earliest, with the supply from Faridabad (Gas) on 220 kV Ballabgarh-BTPS Ckt. at BTPS.</p> <p>In case of collapse / non-survival of Delhi inner ring, IPGCL GT station having 30MW capacity units shall self start and supply to be extended for meeting the emergency loads, to Badarpur as start-up power and to Park Street for railway traction. The built-up system would be synchronized with the supply available from Faridabad (gas) at the first opportunity</p>
2	GTPS	<p>(i) In case of survival of Delhi inner ring, The supply shall immediately extend start-up power to GTPS From (Maharanibagh/mandola/harsh viahr).</p> <p>(ii) In case of collapse / non-survival of Delhi inner ring, IPGCL GT station having 30MW capacity units shall self start .</p>
3	PPCL-I	<p>(i) In case of survival of Delhi inner ring, The supply shall immediately extend start-up power to PPCL-I from (Maharanibagh/mandola/harsh viahr).</p> <p>(ii) In case of collapse / non-survival of Delhi inner ring, IPGCL GT station having 30MW capacity units shall self start and supply to be extended for meeting the emergency loads, to PPCL-I as start-up power and to Park Street for railway traction.</p>
4	PPCL-III (Bawana)	In case of survival of Delhi inner ring, The supply shall immediately extend start-up power to PPCL-III (Bawana) in coordination with NRLDC .

7. Shunt reactive resources (Line reactors /Bus reactors):

Line Reactors:

S.No.	Utility	Name of Line	Ckt.	Rating of Reactor (MVAR)	Installed at Station	Switchable	Provision to use as reactor	Healthiness
--		Nil	--	--	--	--	--	--

Bus Reactors:

S.No.	Utility	Name of Substation	Rating MVar	Configuration	Remarks
--		Nil	--	--	--

8. Synchronizing facilities at 132 kV /220kV /400kV & 765kV sub stations.

Yes synchronizing facilities is available in DTL system.

9. List of captive power plants in delhi control area.

Nil

10. Contact details (Mobile /landline number /email ID) of the nodal officers identified for crisis management during grid disturbance.

S.No.	Name	Designation	Phone No.	Email-ID
1	Shri H.Vyas	ED (T)	9999533631	harjiwan.vyas@gmail.com
2	Shri S.K.Sinha	DGM(SO)	9999533673	sinha.surendra@yahoo.com
3	Shri Pradeep katiyar	DGM(SLDC)	9999533676	pradeepkatiyar03@yahoo.co.in
4	SLDC Control Room	Shift Incharge	011-23221046 23221098/99	dtldata@gmail.com dtldata@yahoo.co.in

11. Any other relevant information for further improving the 'system restoration Procedure.
NIL

All stake holders are requested to give their comments if any

2.6 Uninterrupted power supply at all venues during India-Asean Special Commemorative Summit-2018 in New Delhi

SLDC have received a copy of letter from Department of Power, Government of NCT of Delhi to ensure uninterrupted power supply at all venues during India-Asean Special Commemorative Summit-2018 in New Delhi (Annex-III) during the period 25-26 January 2018. NDMC & Discoms are requested to share the action plan for the power supply arrangement as well as contingency plan for the summit.

NDMC & Discoms to update the OCC.

2.7 Agriculture Load of Delhi (Format – 29)

SLDC is submitting Format 29 to NRPC on monthly basis. One of the point of Format 29 is Agriculture load. SLDC is submitting the agriculture load data as nil in its report. During 142nd OCC Meeting of NRPC, Delhi SLDC was specifically told to provide the details regarding the agriculture load of Delhi.

Discoms to update the OCC

2.8 System restoration Procedure for Delhi state

A) Recovery procedure for restoration of grid

Reform in power sector was carried out in July 2002 and power demand of Delhi has grown. To cater the growing demand new power system elements have added. After the grid incidence of 30-31 July 2012 Islanding scheme was implemented in Delhi. Indian Electricity

Grid Code also state that each state has to maintain their own system restoration procedure to deal with contingencies. Relevant portion of IEGC is reproduced hereunder:

As per IEGC Clause 5.8

- a. Detailed plans and procedures for restoration of the regional grid under partial/total blackout shall be developed by RLDC in consultation with NLDC, all Users, STU, SLDC, CTU and RPC Secretariat and shall be reviewed / updated annually.
- b. Detailed plans and procedures for restoration after partial/total blackout of each User's/STU/CTU system within a Region will be finalized by the concerned User's/STU/CTU in coordination with the RLDC. The procedure will be reviewed, confirmed and/or revised once every subsequent year. Mock trial runs of the procedure for different subsystems shall be carried out by the Users/CTU/STU at least once every six months under intimation to the RLDC. Diesel Generator sets for black start would be tested on weekly basis and test report shall be sent to RLDC on quarterly basis.

SLDC has prepared a draft system restoration procedure for Delhi and it is requested to all the utilities to give their valuable comments to finalize the draft procedure (enclosed separately).

Following information may please be updated:

1. DG set capacity at IPGCL (GT) at the power station having Black start facility.
2. Traction (Indian railways / Delhi metro) supply details.
3. Start up power requirement details and start power path for generating stations.
4. Bus reactor details.
5. Synchronizing facilities in DTL system / Genco system.
6. List of captive power plants in delhi control area.
7. Discom Wise critical load.
8. Contact details (mobile/landline no./ email-Id) of the nodal officers identified for crisis management during Grid disturbance.
9. Any other relevant information for further improving the 'system restoration Procedure.

The information has been received from GTPS and PPCL Bawana. It is requested to other utilities to furnish the details before finalization of draft on system restoration procedure.

B) Mock trial of Black-start Exercise of GT (IPGCL):

IPGCL (GT) may please give schedule to SLDC and OS Department of DTL so that a mock start exercise can be done accordingly.

A presentation shall be given by IPGCL (G.T.) representatives on Black-start Exercise of GT and finalize a tentative date for Mock Trial.

Members may please deliberate

2.9 RGMO/FGMO compliance by generators in the region (Agenda based on letter by CERC).

CERC (IEGC) 5th amendment of IEGC dated 12.04.2017 provides that all Coal/lignite based thermal generating units of 200 MW and above, Open Cycle Gas Turbine/Combined Cycle generating stations having gas turbines of capacity more than 50 MW each and all hydro units of 25 MW and above should provide RGMO/FGMO response. Further, it has been provided at Regulation 5.2(h) that ‘RLDCs/SLDCs should not schedule the generating station or unit(s) thereof beyond ex-bus generation corresponding to 100% of the installed capacity of the generating station or unit(s) thereof and that the generating station shall not resort to Valve Wide Open operation of units” so that primary response is ensured. CERC in its letter dated 05.06.2017 has directed to obtain the status of availability of RGMO/FGMO response from the generators (ISGS as well as intra-state generators) in the region.

The latest status of RGMO/FGMO available with NRPC is given below in Table -1. All the Utilities are requested to check and update this status.

Table -1

S.No.	Power Station	Unit size	No of units	Installed Capacity	Status of RGMO/FGMO						Reason for seeking exemption/ extension	Status not available	Remarks
					Units required to operate under RGMO/ FGMO as per IEGC	Units operating under RGMO	Units operating under FGMO with manual control to achieve RGMO	Units operating with inoperative governor /locked governor	Units exempted from RGMO/ FGMO by CERC	Units applied to CERC for exemption/ extension			
CENTRAL SECTOR													
NTPC (Thermal)													
1	Badarpur TPS	3x95 + 2x210	5	705	2	0	0	2	0	2	Mechanical governors		
Delhi													
4	Indira Prastha Gas station	6x30+3x34	9	282.00	0	0	0	0	0				
5	Pragati Gas Turbines	2x104+1x122	3	330	3	0	0	0	0				
6	Bawana	4x216+2x253	6	1370	6	0	0	0	0				
7	Rajghat TPS	2x67.5	2	135	0	0	0	0	0				
8	Rithala GPS	3x36	3	108	0								

BTPS representative intimated that as per CERC order, Nashik scheme has been implemented in Unit#4 & Unit#5 in Feb’17 & Dec’16 respectively for RGMO. But As Units were not in service till 31.3.2017, as per DPCC order, RGMO couldn’t put into service in Unit#4&5. Subsequently when it was tried in Unit#4, severe load hunting was observed with very little change in frequency. So, Units were kept in “FGMO with Manual Intervention”. As both Unit no#4&5 are taken under shutdown from 17.10.2017 as per DPCC order this problem is being sorted out.

PPCL representative intimated that they are pursuing the matter with their OEM regarding details of RGMO / FGMO of PPCL-I & PPCL –III. The same is likely to be implemented by Dec 2017 end.

Representative of GTPS informed that RGMO/FGMO is not applicable for their plant as each of the gas turbine unit is of 30 MW capacity.

PPCL may please update the latest information.

2.10 SCADA mapping of RGMO/FGMO signal by the respective utilities of Northern Region .

The matter was discussed and decided in 138th NRPC- OCC Meeting for SCADA Mapping of RGMO/FGMO signals in respective control area.

The matter was deliberated and OCC advised PPCL (Pragati and Bawana) to provide the relevant signal in coordination with DTL SCADA Deptt.

PPCL-Pragati, Bawana may update the status

2.11 High Voltage in the Grid:

High Voltage in the Grid is continuously prevailing for the major part of the day and further escalates during night hours due to light load condition. The matter was also discussed in the OCC meeting held on 30.10.17. OCC took serious view on this and decided to take all necessary actions to curb reactive injections in grid including the following:-

A . Switching off the capacitors at all the Substations of Delhi, but during winter season proper monitoring of the same is yet to be put in place.

B. Transformer taps optimization by DTL and DISCOM. DTL has changed Taps positions of most of the transformers at 220kV S/Stns. (list of Tx. taps details of DTL as on 15.12.17 is enclosed in Annexure-IV).

C. Monitoring of all 400/220 kV ICTs and taking actions wherein VAR flows are observed from 220 kV to 400 kV side. In this respect reactive energy accounts could also be monitored.

D. Opening of lightly loaded transmission cables/ transmission lines keeping reliability in focus.

E. Absorption of reactive power by generating units.

As decided in the last OCC Meeting no. of steps have been taken by SLDC, Delhi and Discoms to control the high voltage conditions and reactive power injection by Delhi system to the grid particularly during off peak time.

Opening of feeders at 220kV Level by SLDC .

The following feeders have been identified and being opened during the period 22.00hrs. to 06.00hrs.

Sr. No.	Name of Stn.	Name of Ckt.	Elements to be opened
1	Maharani Bagh	Trauma Centre	Single Ckt. at both ends
2	Trauma Centre	Ridge Valley	Single ckt. at both ends
3	Mundka	Peeragarhi	Single Ckt. at both ends
4	Peeragarhi	Wazirpur	Single ckt. at both ends
5	Shalimarbagh	Wazirpur	Both ckt. at both ends
6	Pragati	Park street	Single ckt. at both ends
7	Maharani Bagh	Masjid moth	Single Ckt. at both ends
8		Electric Lane	Both Ckt. at both ends

9	Harsh Vihar	Preet Vihar	Single Ckt. at both ends
10	Preet Vihar	Patparganj	Single Ckt. at both ends
11	Patparganj	Gazipur	Single Ckt. at both ends
12	Bawana	Khanjawala	Single Ckt. at both ends
13		Shalimarbagh	Single Ckt. at both ends
14	Rohini - I	Shalimarbagh	Both Ckt. at both ends

Following 66kV /33kV feeders are also being opened during night hours on request of BYPL

Sr. No.	Name of Stn.	Name of Ckt.	Elements to be opened
1	Parkstreet	33kV Faiz Rd	Single Ckt. at both ends
2		33kV Motia khan	Single ckt. at both ends
3	IP	33kV Bay-18 ,DDU	Single Ckt. at both ends
4		33kV G.B.Pant	Single ckt. at both ends
5		33kV Delhi gate	Single ckt. at both ends
6		33kV Minto Road	Single ckt. at both ends
7	Rajghat	33kV Jama masjid	Single Ckt. at both ends
8		33kV Town hall	Single Ckt. at both ends
9	Patparganj	66kV GH-I	Single Ckt. at both ends
10		66kV Khichripur	Single Ckt. at both ends
11		33kV Guru-Angad Nagar	Single Ckt. at both ends
12	Gazipur	66kV PPG-Industrial Area	Single Ckt. at both ends
14	Wazirabad	66kV Yamuna vihar	Single Ckt. at both ends
15		66kV Shastri park	Single Ckt. at both ends
16	Geeta colony	33kV Shakarpur	Single Ckt. at both ends
17		33kV Geeta colony	Single Ckt. at both ends

In spite of taking all the above action, situation has not improved. There were multiple tripping on 12.11.2017 at 400kV Maharani Bagh S/stn. due to high voltage. Delhi is injecting reactive power to grid during high voltage condition.

Reactive power flow in the grid for 18.12.2017 at 02.59.59 hrs. is as under :

REACTIVE POWER FLOW

18 12 17 2 :59:59

SL NO	DRAWAL POINTS	MW	MVAR	VOLTAGE	
				400 KV	220 KV
1	BTPS BBMB	-38	-8		239
2	NARELA BBMB	23	-2		243
3	NARELA DTL-PANIPAT CKTS	61	-42		242
4	ROHTAK ROAD BBMB	38	-10		243
5	BAMNAULI	246	-204	423	
6	BAWANA	322	-130	428	
7	MAHARANIBAGH	R 188	S -174	431	
8	MANDAULA	236	S 279	S 416	
9	MUNDKA	61	-31	422	
10	HARSH VIHAR	30	-3	430	
TOTAL MVAR INJECTION AT HIGH VOLTAGE(PENALTY)		S -604	MVAR		
TOTAL MVAR DRAWAL AT LOW VOLTAGE(PENALTY)			MVAR		

[BACK TO SUMMARY](#)

Discom system were also injecting reactive power in Delhi system.Details as on 18.12.2017 at 02.59.59hrs. are given below :

Name of S/Stn.	Load in MW	MVAR
GOPALPUR	33.21	-9.68
Rohini-2	17	-9
DSIDC	73.87	-27.11
Mundka	21	-16
Through Rohtak Road grid of BBMB	38.2	-10.5
Papankalan-2	60.31	-36.34
Okhla	49.92	-15.23
Sarita Vihar	22.78	-40.2
Vasant Kunj	31.72	-27.85
Parkstreet	53.3	-19.36
PRAGATI	-8.94	-19.88
IPStation	51	-9.28

Financially also Delhi is payable to NRPC reactive pool account. Penalty amount has increased with the progress of winter. The details of NRPC reactive account bill for last seven weeks i.e. from 16.10.17 to 03.12.17 is as under:

Sr. No.	Weeks	Delhi payable (in Lakhs)	Delhi receivable (in Lakhs)
1	16.10.17 to 22.10.17	--	0.76038
2	23.10.17to 29.10.17	2.21401	--
3	30.10.10 to 05.11.17	7.36426	--
4	06.11.17 to 12.11.17	19.35212	--
5	13.11.17 to 19.11.17	21.28275	--
6	20.11.17 to 26.11.17	29.15394	--
7	27.11.17 to 03.12.17	29.81707	--

Members may please deliberate

3. Planned Shutdowns

3.1 Proposed planned shutdowns of O&M, DTL

DTL O&M deptt. has proposed the planned shutdowns for the month of Jan-2018 as per enclosed Annexure.

OCC may deliberate.

4. PPCL Agenda

4.1 Request for UI waiver due to change in Past SG data in Injection Schedules.

Regarding abrupt scheduling by SLDC & manipulation in past SG data since the starting of Web Based Scheduling (WBS) which are still unresolved. PPCL have raised their concerns which are as under:

1. **Abrupt scheduling** wherein the Injection Schedules (IS) are issued very frequently **defying the 4th time block rule** for SG implementation which creates confusion regarding the running schedule on real time basis.
2. **Past data of Schedule Generation (SG) gets changed** in the upcoming revisions and the scenario is totally changed in the final revision which makes the reconciliation of the SG very difficult. Whereas Generators gets only 4th block to punch its DC on the portal while SLDC has full rights to change the SG of past time slots as well, which is not justified. Some Instances with huge commercial implications are as tabulated below:

Date	Disputed Time Slot	Reference	Remarks	UI/DSM (MUs)
12/11/2017	11:45 – 13:15	Injection Schedule (IS) revisions 11,12 & 17.	In IS revision no. 17 issued at 12:57 SG on CCNG component is revised from 120 MW to 230 MW in back time wef 11:45 hrs.	- 0.165 MUs
15/11/2017	10:45 – 12:00	Injection Schedule (IS) revisions 13,14 & 20.	In IS revision no. 20 issued at 15:17 hrs. CCNG component is revised from 125 MW to 220MW in back time wef 10:45 hrs.	- 0.119 MUs
15/11/2017	14:00– 16:00	Injection Schedule (IS) revisions 19 & 20.	In IS revision no. 20 issued at 15:17 hrs CCNG component is revised from 230 MW to 290 MW in back time wef 14.00 Hrs	- 0.120 MUs

3. **Abnormal scheduling:** Injection Schedules (IS) are issued without considering the operating condition (**Ramp Up/ Ramp Down Rate/ Minimum Technical Limit**) of the running units.

09/12/2017	18:30– 24:00	Injection Schedule (IS) revision no. 18, 19, 20,21 & 23	<p>IS changed very abruptly on OCSPOT on this day as :</p> <ul style="list-style-type: none"> a) In IS 18 issued at 20:33 asking to increase generation by 80MW at 19:00 hrs. and 90 to 470 MW on OCSPOT at 21:00 hrs., in one time block. b) In IS 19 issued at 21:45, SG changed from 470 to 170 MW in one time block on OCSPOT wef 21:30 hrs. c) In IS 20 issued at 22:24, SG changed from 170 to 470 MW in one time block on OCSPOT wef 22:30 hrs. d) In IS 21 issued at 22:45, SG changed from 470 to 265 MW in one time block on OCSPOT wef 23:00 hrs. e) In IS 23 issued at 23:27, SG changed from 265 to 130 MW in one time block on OCSPOT wef 23:00 hrs. <p>While granting SG, proper Ramp rate must be considered to ensure smooth transition.</p>
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PPCL have requested that SLDC to waive off any UI/DSM arising out of this manipulation in past SG data and abnormal scheduling and take necessary action in this matter.

OCC may deliberate.

5. BRPL Agenda

5.1. BRPL have informed that at 220kV Sub-station, 11KV feeders voltage is still on higher side. They have requested for the desired corrective action.

5.2. BRPL have requested that ILBS being sensitive and critical hospital, the 66kV Vasant Kunj C-1, C-2 feeder from 220kV Mehrauli and Vasant Kunj should be on different 66kV Bus where outgoing feeder DMRC is charged.

5.3. At 220kV Masjid moth Sub-stn, due to frequent interruptions VIP consumers and HT consumers get agitated.

OCC may deliberate.

6. Long/Recent Outage/Breakdown of Elements in Delhi power system.

Members to update the status of following Long/Recent Outage/Breakdowns of elements in Delhi Power system as on 19.12.2017:

S.N	Element's Name	Discom/ DTL	Date and Time of outage	Status of outage as on 19.12.2017
1.	33kV BAY -3 (IP – KILOKARI)	BRPL	22.02.2011	Clearance from Railways for laying of Underground cables near Bhairon Road is pending. OCC advised BRPL to inform DTL after awarding of the said work. During the OCC meeting dt.-28.11.2016, It was deliberated that the above work shall be started after joint inspection with Railways.
2.	33kV RIDGE VALLEY - KHEBAR LINE CKT.-II	BRPL	31.01.2016	R-PHASE SINGLE CABLE FAULTY.
3.	66kV VASANT KUNJ INSTL.AREA-RIDGE VALLEY CKT.-I	BRPL	26.03.2017	UNDER SHUTDOWN.
4.	16MVA PR.TR.-IV AT D.C. SAKET	BRPL	14.12.2017	UNDER SHUTDOWN.
5.	5MVA PR.TR.-I AT BIJWASAN	BRPL	18.12.2017	UNDER SHUTDOWN.
6.	66kV MUNDKA - NANGLOI CKT.	BRPL	08.05.2017	B & Y-PH CABLE FAULTY.
7.	20MVA PR.TR.-II AT VISHAL	BRPL	05.12.2017	UNDER SHUTDOWN.
8.	50MVA PR.TR.-II AT PASCHIM VIHAR	BRPL	07.12.2017	UNDER SHUTDOWN.
9.	66kV BODELLA -II PASCHIM VIHAR CKT.-I & II	BRPL	14.12.2017	UNDER SHUTDOWN.
10.	66kV PPG - AKSHARDHAM CKT	BYPL	06.08.2017	CABLE FAULTY.
11.	66kV KHICHRIPUR - PPG INDL. AREA CKT.-I	BYPL	05.09.2017	R, Y & B-PHASE CABLE FAULTY.
12.	66kV KHICHRIPUR - PPG INDL. AREA CKT.-II	BYPL	05.09.2017	R, Y & B-PHASE CABLE FAULTY.
13.	66kV BHAGIRATHI - KARAWAL NAGAR CKT.-I	BYPL	18.12.2017	SINGLE CABLE FAULTY.

14.	33kV SUBZI MANDI - SHAHZADA BAGH CKT-II	TPDDL		CABLE FAULTY.
15.	33kV TRAUMA CENTRE - RAJIV GANDHI BHAWAN CKT.	NDMC		R-PHASE CABLE FAULTY.
16.	400kV BAWANA - MUNDKA CKT.- I&II	DTL	14.05.2017	Legs of tower no.-116 twisted due to fire beneath the line. Ckt.- I & II energized upto tower no. 115 from Bawana end. Jumper opened at tower no. 115. Order placed and completion of work expected by 31.12.2017.
17.	315MVA ICT-II AT 400kV BAWANA	DTL	30.11.2017	400kV SIDE R-PH. BUSHING DAMAGED AND Y-PH. BUSHING ON 220kV SIDE (LV SIDE) DAMAGED.
18.	220/33kV 100MVA PR.TR.-I AT 220kV NARAINA	DTL	26.07.2017	Transformer damaged due to fire.
19.	220kV BAMNAULI - NARAINA CKT.-I	DTL	05.12.2017	SHUT DOWN FOR LILO WORK AT 220kV PAPANKALAN –III.
20.	220kV LODHI ROAD - MAHARANI BAGH CKT.-I	DTL	10.12.2017	SHUT DOWN FOR CONNECTING CABLE END TERMINATION BUSHING OF 100MVA PR.TR.-I FOR SAFETY PURPOSE.
21.	220kV PATPARGANJ - GAZIPUR CKT.	DTL	16.12.2017	SHUT DOWN FOR TK REPLACEMENT.

Additional Agenda for discussion in the OCC meeting

6. DTL Agenda

6.1 Status of Hot Reserve of transformers at all levels.

The status of hot reserve of transformers at all levels were discussed in the previous OCC meeting held on dt.-28.09.2017 and the updated status were as under:-

S. No.	Transformation Capacity	Present population in nos.	Updated status as on 28.09.2017
1.	400/220 kV 315 MVA ICT	14	315 MVA ICT EMCO make dismantled from Bawana Sub-stn which is being repaired will be considered as hot reserve and will be commissioned at Tikri Kalan. For 500MVA Tr, the matter would be considered in the Steering committee.
	400/220 kV 500 MVA ICT	2	
2.	220/66 kV 160 MVA Tr.	22	Steering Committee decided that 1 No. new 160 MVA, 220/66kV transformer as spare/hot reserve to be placed at 400kV Tikri Kalan (Mundka) substation as the earlier approved spare/ hot reserve 160MVA transformer at Kanjhawala Sub-stn has been included in the transmission capacity to meet the load of the downward distribution system.
3.	220/33 kV 100 MVA Tr.	41	It was informed that 1 No. 220/33kV transformer as hot reserve has already been approved for 220kV Patparganj.
4.	220/66 kV 100 MVA Tr.	41	The matter regarding provision of second spare 100MVA was discussed in the steering committee meeting and it was decided that the 220/66kV, 100MVA transformer damaged at PPK-I after repairing will be placed at PPK-I as second hot reserve 100 MVA transformer.

5.	66/11 kV 20 MVA Tr.	24	As per the Business plan of DTL, the outlived transformers would be replaced in phased manner (2 nos. in each FY). For the hot reserves, the matter has not yet been finalized in the steering committee meeting. Discom will provide transformer to DTL on loan basis as and when required in case of exigencies till such time.
6.	33/11 kV 20/16 MVA Tr.	16	

OCC had advise that the criteria/guidelines for hot reserve be discussed in the forthcoming steering committee meeting.

DTL Planning/C&MM deptt. to depute their representative to update the status.

DTL Planning/C&MM deptt. may deliberate.

6.2 Status of Supply of 3 nos. 100 MVA, 220/33kV BHEL make Transformers against MOU-II project.

Three nos. 220/33kV, 100 MVA BHEL make Transformers are to be supplied against MOU-II project. DTL to update the status of same.

6.3 Status of Procurement of O&M min. inventory/spares as well as equipments to be procured against PSDF schemes.

DTL C&MM deptt. to update the status of procurement of O&M min. inventory/spares as well as equipments to be procured against PSDF schemes. C&MM deptt. to depute their representative to update the status.

DTL C&MM deptt. may deliberate.

6.4 Proposed planned Shut-down of various 220 KV Lines for work of "Replacement of Porcelain disc Insulators with long road Polymer Insulators".

DTL has proposed planned Shut-down of various 220 KV Lines for work of "Replacement of Porcelain disc Insulators with long road Polymer Insulators". The shutdown list is enclosed as Annexure.

OCC may deliberate.

7. EDWPCL Agenda

7.1 M/s EDWPCL have informed that in reference to MOM of OCC meeting held on dt.28.08.2017, Point no. 4.2, Synchronizing relay and line CVT in three phases was to be installed by DTL in 66 kV feeders at Ghazipur substation for successful synchronization of two different sources at Ghazipur Sub-stn. They have requested to update the current status.
