



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)/82

Date:15.01.2018

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 (10/17-18) to be held on 22.01.2018 (Monday) at 2:30 P.M.

Dear sir/madam,

The next Delhi OCC meeting is scheduled to be held on dt.- 22.01.2018(Monday), 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. 10/17-18

Date : 22.01.2018 (Monday)
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 22.12.2017.

The previous Delhi OCC meeting was held on 22.12.2017 in accordance with the agenda circulated vide letter dt: 18.12.2017. Minutes of the aforesaid OCC meeting were issued vide letter dt.02.01.2018.

Members may like to confirm the same.

2. DTL AGENDA POINTS:

2.1 Status of Hot Reserve of transformers at all levels.

The latest updated hot reserve capacity along with the details as updated by DTL Planning deptt. is as under:

S. No.	Transformation Capacity	Population in no.	Hot Reserve (No.) Decided	Status as on present date
1.	400/220kV, 500MVA ICT	2	1x500MVA	One of the 315MVA transformers damaged at 400kV Bawana was to be treated as Hot Reserve after its repair. However, it has now been informed that the same may not be possible for repair.
2.	400/220kV, 315MVA ICT	14		In view of the above, the matter was deliberated in the Steering Committee Meeting wherein it was decided that in case of damage of 315 MVA transformer in future, the same would also be replaced with 500 MVA transformer as the future upcoming transformers are of 500MVA capacity. Thus, one transformer of 500MVA capacity would serve as Hot Reserve for both 500MVA and 315 MVA Power Transformers and the same would be placed at Bamnauli in 2019-20. By the time 2000MVA (4x500 MVA) Tughlakabad and 2000MVA (4x500 MVA) Dwarka sub-station would also be commissioned easing the loading condition of the existing 400kV sub-stations and creating further redundancy in the 400kV transmission system.

3.	220/66kV, 160MVA	22	2x160MVA +1x100 MVA	<p>1 No. 160 MVA Hot Reserve transformer is to be kept at Mundka as approved in last SCM held on 29.06.17.</p> <p>Considering the population and ageing of 100 MVA, 220/66kV Transformers, it was decided that 1 more 160 MVA, 220/66kV transformer is to be kept as Hot reserve which will serve as Hot reserve for both 220/66kV, 100 MVA and 160 MVA transformers. Thus, there will be 2 No. 220/66kV, 160 MVA transformers as Hot Reserve. The 2nd 160 MVA Hot Reserve transformer will be placed at 220kV Rohini-II. The hot reserve would be provided by the year 2019-20.</p> <p>The 100MVA, 220/66kV Transformer damaged at Pappankalan-I would also be placed as Hot Reserve at PPK-I after its repair.</p>																																													
4.	220/66kV, 100MVA	42																																															
5	220/33kV, 100MVA	37	2	<p>1 No. 220/33kV, 100MVA transformer as hot reserve has already been approved for 220kV Patparganj. Considering the population and ageing of 100 MVA, 220/33kV Transformers, it was decided in the SCM held on 30.10.17 that 1 more 100 MVA, 220/33kV transformer is to be kept as Hot reserve. Thus, there will be 2 No. 220/33kV, 100 MVA transformers as Hot Reserve. The second Hot reserve will be placed at 220kV Kashmiri Gate. The second hot reserve would be provided by 2019-20.</p>																																													
6	66/11kV 20MVA	24	NIL	<p>Steering Committee in its meeting held on 15.03.2017 has decided that in case of exigency, the Discoms may provide these transformer on returnable basis.</p> <p>As per the Business Plan 2017-22, the outlived transformers would be replaced in a phased manner as below:-</p> <table border="1"> <thead> <tr> <th>S. N</th> <th>Sub Station</th> <th>Details of existing Tx.</th> <th>Augmentation Plan</th> <th>Year as per Business Plan</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Lodhi Road</td> <td>2 no 33/11kV 16MVA</td> <td>2 no 33/11kV 25MVA</td> <td>2018-19</td> </tr> <tr> <td>2</td> <td>Najafgarh</td> <td>2 no 66/11kV 20MVA</td> <td>2 no 33/11kV 31.5MVA</td> <td>2019-20</td> </tr> <tr> <td>3</td> <td>Okhla</td> <td>2 no 66/11kV 20MVA</td> <td>2 no 66/11kV 31.5MVA</td> <td>2019-20</td> </tr> <tr> <td>4</td> <td>Sarita Vihar</td> <td>2 no 66/11kV 20MVA</td> <td>2 no 66/11kV 31.5MVA</td> <td>2019-20</td> </tr> <tr> <td>5</td> <td>Gopalpur</td> <td>2 no 33/11kV 16MVA</td> <td>2 no 33/11kV 25MVA</td> <td>2018-19</td> </tr> <tr> <td>6</td> <td>Subzi Mandi</td> <td>2 no 33/11kV 16MVA</td> <td>2 no 33/11kV 25MVA</td> <td>2019-20</td> </tr> <tr> <td>7</td> <td>Pappankalan-I</td> <td>2 no 66/11kV 20MVA</td> <td>2 no 66/11kV 31.5MVA</td> <td>2020-21</td> </tr> <tr> <td>8</td> <td>Mehrauli</td> <td>2 no 66/11kV 20MVA</td> <td>2 no 66/11kV 31.5MVA</td> <td>2021-22</td> </tr> </tbody> </table> <p>In the Steering Committee Meeting held on 30.10.17 it was decided that since the entire load of 11kV at 220kV Gopalpur has been shifted to Dheerpur sub-station by TPDDL, the 33/11 kV</p>	S. N	Sub Station	Details of existing Tx.	Augmentation Plan	Year as per Business Plan	1	Lodhi Road	2 no 33/11kV 16MVA	2 no 33/11kV 25MVA	2018-19	2	Najafgarh	2 no 66/11kV 20MVA	2 no 33/11kV 31.5MVA	2019-20	3	Okhla	2 no 66/11kV 20MVA	2 no 66/11kV 31.5MVA	2019-20	4	Sarita Vihar	2 no 66/11kV 20MVA	2 no 66/11kV 31.5MVA	2019-20	5	Gopalpur	2 no 33/11kV 16MVA	2 no 33/11kV 25MVA	2018-19	6	Subzi Mandi	2 no 33/11kV 16MVA	2 no 33/11kV 25MVA	2019-20	7	Pappankalan-I	2 no 66/11kV 20MVA	2 no 66/11kV 31.5MVA	2020-21	8	Mehrauli	2 no 66/11kV 20MVA	2 no 66/11kV 31.5MVA	2021-22
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			transformer will not be replaced at 220kV Gopalpur. It was also decided not to replace the 33/11kV transformers at 220kV Subzi Mandi also as TPDDL has plan to shift the entire load of 11kV system in near future.
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Note: Further, it was also noted that the O&M Department of DTL has proposed for replacement of outlived transformers at various locations as per the details given below:

1. Augmentation of 100MVA, 220/66kV Transformer with 160MVA, 220/66kV Transformer:

S. No.	Transformer Details	Qty.	Reason
1.	100MVA Transformer at 220kV S/Stn. Sarita Vihar	1 No.	Outlived
2.	100MVA Transformer at 220kV S/Stn. Narela	1 No.	Outlived
3.	100MVA Transformer at 220kV S/Stn. Najafgarh	2 No.	Outlived
4.	100MVA Transformer at 220kV S/Stn. Okhla	2 No.	Outlived
5.	100MVA Transformer at 220kV S/Stn. Mehrauli	1 No.	Outlived
6.	100MVA Transformer at 220kV S/Stn. Patparganj	2 No.	Outlived
7.	100MVA Transformer at 220kV S/Stn. Mehrauli commissioned in 1984	1 No.	Outlived
8.	100MVA Transformer at 220kV S/Stn. Rohini-I commissioned in 1993	1 No.	Approaching end of useful life of 25 years.
Total		11 Nos.	

2. Replacement of 100MVA, 220/33kV Transformers:

Sr. No.	Transformer Details	Qty.	Reason
1.	100MVA Transformer at 220kV S/Stn. Rajghat commissioned in 1986	1 No.	Outlived
2.	100MVA Transformer at 220kV S/Stn. Subzi Mandi commissioned in 1992	1 No.	Outlived
3.	100MVA Transformer at 220kV S/Stn. Lodhi Road commissioned in 1994	1 No.	Approaching end of useful life of 25 years (damaged)
4.	100MVA Transformer at 220kV S/Stn. Shalimar Bagh commissioned in 1989	1 No.	Outlived
Total		4 Nos.	

However, the Steering Committee has noted the proposals incorporated in Business Plan of DTL for the period 2017-22 as under:

Augmentation of 100MVA, 220/66kV Transformer with 160MVA as per Business Plan

Sr. No.	Name of the Sub Station	Qty. (No.)	Year	Scheme status as on date
1.	Sarita Vihar	1	2018-19	Under tendering stage
2.	Narela	1	2018-19	Under Preparation
3.	Najafgarh	2	2018-19	Under tendering stage
4.	Okhla	1	2018-19	Under Preparation
5.	Mehrauli	1	2019-20	To be prepared
6.	Patparganj	2	2019-20	To be prepared
	Total	8		

From the above, it was observed that most of the transformers proposed for replacement on account of outlived transformers have already been covered in the Business Plan. Further, the No. of hot reserve transformers for 220/66kV, 160/100MVA and 220/33kV, 100MVA has been increased from 3 to 5. In case the transformer results of any of the out lived transformer go beyond the permissible limit, the same shall be replaced/ augmented with the Hot Reserve transformers.

The Steering Committee was also of the view that ageing of the transformer should not be the only criterion for replacement but other health assessment factors should also be considered before taking the decision of replacement to optimize the Asset utilization.

Similarly, it was observed that most of the transformers proposed for replacement at 66/11kV and 33/11kV level on account of outlived transformers have also been covered in the Business Plan. Further, it was decided that the 33/11kV transformers at 220kV Gopalpur and Subzi Mandi will not be replaced since the entire load of 11kV at 220kV Gopalpur has been shifted to Dheerpur sub-station by TPDDL and the entire load of 11kV at 220kV Subzi Mandi is planned to be shifted in near future. Thereafter, these 33/11kV transformers of 220kV Gopalpur and Subzi Mandi may be utilized in future for replacement of the 33/11kV transformers whose results go beyond the permissible limit.

Further, the scheme for augmentation of 33/11kV, 16 MVA transformers with 25 MVA at Gopalpur shall now be utilized to replace the 2 No. 16 MVA transformers at Lodhi Road. The scheme for augmentation of other 2 No. 33/11kV, 20 MVA with 25 MVA transformers at Lodhi Road has already been approved earlier in the Steering Committee. Thus all the 4 No. 33/11kV transformers at Lodhi Road will be augmented.

During the last meeting, OCC directed that the details of augmentation/replacement/hot reserve of each type of Tr. and status of preparation of their scheme / procurement be put up by Plg. Deptt. in the next OCC meeting for appraisal.

DTL Planning deptt. may update the status.

2.2 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. Status of supply as updated during the last OCC meeting was as under:-

- (i) The first transformer is expected to reach at site by 22nd Jan 2018.
- (ii) Second transformer is expected by 29th Jan 2018.
- (iii) The third transformer is expected by 13th Feb 2018.

DTL Plg. Deptt. may update the status.

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

The following was deliberated in the last OCC meeting:-

1. Representative of DTL C&MM deptt. informed that w.r.t procurement of hot reserve transformer, one such request has been received in the C&MM department on 21.12.2017 for transformer package including one no. hot reserve 160 MVA transformer for Kanjhawala. The order is expected to be placed in the month of May 2018 and its procurement will be in the month of Oct/Nov 2018 (i.e after 06 month after date of order)
2. Representative of DTL C&MM deptt. further informed that PR w.r.t availability of minimum inventory in Material Management Department is pending with finance department.
3. The status of PSDF was updated. OCC directed that the procurement/execution against PSDF scheme is time bound activity. As such, every effort be made to complete the PSDF scheme in time bound manner.
4. OCC directed that the hot reserve Tr. is essentially required for maintaining summer season loading in case of failure of any Tr. Therefore hot reserve of each category of transformer be procured immediately.
5. Min. inventory as discussed and finalized between O&M and C&MM deptt. be procured immediately.
6. DTL C&MM deptt. to update the month wise progress in every DELHI OCC meeting.

DTL C&MM deptt. may update the status.

2.4 Status of replacement of Porcelain disc Insulators with long road Polymer Insulators in various 220kV lines.

During the last OCC meeting, DTL had proposed planned Shut-down of various 220 KV Lines for work of "Replacement of Porcelain disc Insulators with long road Polymer Insulators".

After deliberation, the shutdowns for insulator replacement were approved. The progress of work be updated by Sh. Subhash Chandra Jha, Mgr.(S-V), DTL, Nodal officer.

2.5 Shutdown of 220kV Double ckt. Maharani Bagh – Gazipur T/L for the construction of Barapullah Phase-III Project by M/s PWD.

M/s PWD have requested for shutdown of Single ckt. of 220kV Maharani Bagh – Gazipur in connection with construction of Barapullah Phase-III Project.

The matter was deliberated in the previous OCC meeting as per following:-

(i)OCC took serious note about the delay in project for which shutdown of 220kV Double ckt. Maharani Bagh – Gazipur T/L at multiple occasions have been granted to PWD.

(ii) The shutdown of single ckt. of Maharani Bagh – Gazipur T/L have been tentatively approved w.e.f. 26.12.2017 to 23.01.2018 subject to revival of ckt. within two hrs. of intimation. Further shutdown will be reviewed in the next OCC meeting.

(iii) PWD will apply for shutdown and necessary coordination in this regard be done with Sh.M.P. Singh, Mgr.(T)O&M, Mob.No.-9999533800.

(iv) All the safety precautions and mandatory electrical clearances have to be maintained by PWD while executing the work as per the statutory guidelines/safety rules.

(v) PWD needs to complete the project in time bound manner, as repeated shutdown of 220kV Double ckt. Maharani Bagh – Gazipur T/L is not possible as this ckt. is very important link for catering the load of East Delhi areas.

OCC may deliberate regarding the extension of shutdown.

2.6. Proposed planned shutdowns of O&M, DTL

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

OCC may deliberate.

3. SLDC Agenda points.

3.1 Shutdown of 400kV BUS-I & BUS-II at 400kV Maharani Bagh from 12.02.2018 to 23.02.2018 (NRPC 143rd OCC Meeting Agenda).

PGCIL has requested Shutdown of 400kV BUS-I & BUS-II at 400kV Maharani Bagh from 12.02.2018 to 23.02.2018 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 issue was also discussed in the last Delhi OCC held on 22.12.2017 and it was decided that the date of shutdown will be finalized in next OCC meeting of Jan-2018. **GM(O&M)-II and SLDC should submit the action plan.**

Members may please deliberate

3.2 Reactive power compensation at 400kV & 220kV Level

Standing Committee of CEA has approved Bus Reactors during its 39th Meeting held 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.

3.3 Revision of the document system restoration procedure for Northern Region.

In the last two Delhi OCC meetings Revision of the document system restoration procedure for Northern Region has been discussed and the following was decided.

- (i) *DTL will provide the updated transmission network of Delhi. However, the map provided by the DTL is not updated.*
- (ii) *Discoms as well as DMRC will update the list of feeders for DMRC however no details has been provided by Discoms as well as DMRC.*

Due to delay in submission of data by DTL, Discoms and DMRC the revision is pending. NRPC is regularly raising this issue in the OCC. It is requested that the details shall be provided by respective entities else the details available with SLDC shall be shared with NRPC.

All stake holders are requested to give their details

3.4 Uninterrupted power supply at all venues during Indo-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 Indo-Asean

Special Commemorative Summit-2018 in New Delhi 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.

In the last OCC meeting NDMC informed that they will share the list of the venue of Indo-Asean summit. However no information received from NDMC till date.

NDMC & Discoms to update the OCC.

3.5 System restoration Procedure for Delhi state :

A presentation was given by SLDC in the last OCC meeting on the System restoration Procedure for Delhi state as per the direction of OCC. The same has been circulated among all the stake holders for their comments. However, no comments has been received from any of the stake holder.

SLDC requested BRPL, BYPL & NDMC to give their essential/critical load in the sequence of priority as provided by TPDDL but no details have been provided by any of the utility till date.

The details of the feeders of DMRC also need to updated by Discoms and DMRC but no details have been received till date. Further, the contacts details of officials /officers to be contacted in the case of crisis are also to be provided by all the stake holders. No details have been received from stake holders except BYPL.

All stake holders including DMRC are requested to give their details.

A) 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.

Members may please deliberate

3.6 (a) 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 -I. 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			
	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 Jan 2018 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.

(b) SCADA mapping of RGMO/FGMO signal by the respective utilities of Northern Region.

The matter was discussed and decided in 138th NRPC- OCC Meetings 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.

During the last OCC Meeting, it was deliberated that the SCADA mapping of RGMO/FGMO signal will be done after implementation of RGMO/FGMO scheme by PPCL.

(Information to OCC)

3.7 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. This matter is in continuous discussion from Oct-17 onwards. OCC take serious view on this and decided to all necessary actions to curb reactive injections in grid.

- 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
- 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 /66kV/33kV Level by SLDC .

The following 220kV feeders have been identified and being opened during the period 22.00hrs. to 06.00hrs on 15.01.2018.

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	Both Ckts. at both ends
4	Peeragarhi	Wazirpur	Single ckt. at both ends
5	Shalimarbagh	Wazirpur	single 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	Both Ckt. at both ends
10	Preet Vihar	Patparganj	Both Ckt. at both ends
11	Patparganj	Gazipur	Single Ckt. at both ends

- ## (I) Switching OFF lines to be initiated by 20.00hrs positively.
 (II) While charging the lines during normalization, it should be ensured that line be charged from low voltage end.

Following 66kV /33kV BYPL feeders also opened during night hours 22.00hrs. to 06.00hrs on 15.01.2018.

Sr. No.	Name of Stn.	Name of Ckt.	Elements to be opened
1	Parkstreet	33kV Faiz Rd	Single Ckt. at both ends
2	Rajghat	33kV Jama masjid	Single Ckt. at both ends
3		33kV Town hall	Single Ckt. at both ends
4		33kV Lahori Gate	Single Ckt. at both ends
5		33kV Motia Khan	Single Ckt. at both ends
6		33kV Kamla Market	Single Ckt. at both ends
7		33kV Mintor Road	Single Ckt. at both ends
8		33kV DDU Marg	Single Ckt. at both ends
9		Patparganj	66kV GH-I
10	33kV Karkardooma -I		Single Ckt. at both ends
11	33kV Guru-angad Nagar-II		Single Ckt. at both ends
12	Wazirabad	66kV Yamuna vihar	Single Ckt. at both ends
13		66kV Shastri Park -I	Single Ckt. at both ends
14		66kV Shastri park-III	Single Ckt. at both ends
15		66kV Shastri park-IV	Single Ckt. at both ends
16	Geeta colony	33kV Shakarpur	Single Ckt. at both ends
17		33kV Geeta colony-II	Single Ckt. at both ends
18	Subzi Mandi	33kV B.G.Road -II	Single Ckt. at both ends
19	Preet Vihar	33kV Preet Vihar	Single Ckt. at both ends

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 from 16 Oct-17 onwards are 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	--
8	04.12.17 to 10.12.17	22.52029	--
9	11.12.17 to 17.12.17	23.21933	--
10	18.12.17 to 24.12.17	35.94213	--
11	25.12.17 to 31.12.17	43.03881	

In the last OCC Meeting TPDDL, BRPL, DMRC and NDMC were asked to submit the details of under-loaded U/G cables to SLDC for switching off during night hours .

SLDC has not received details of under loaded U/G cables from discoms /DMRC except BYPL for switching off during night hours.

Members may please deliberate

4. 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 15.01.2018:

S.N	Element's Name	Discom/ DTL	Date and Time of outage	Status of outage as on 15.01.2018
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.	50MVA PR.TR.-I AT RIDGE VALLEY	BRPL	30.12.2017	UNDER SHUTDOWN.
5.	66kV MUNDKA - NANGLOI CKT.	BRPL	08.05.2017	B & Y-PH CABLE FAULTY.
6.	20MVA PR.TR.-I AT JAFFARPUR	BRPL	02.01.2018	UNDER SHUTDOWN.
7.	33kV ROHTAK ROAD - DLF CKT.	BRPL	04.01.2018	CABLE FAULTY.
8.	20MVA PR.TR.-II AT HARI NAGAR	BRPL	12.01.2018	UNDER SHUTDOWN.
9.	66kV PPG - AKSHARDHAM CKT	BYPL	06.08.2017	CABLE FAULTY.
10.	33kV I.G. STADIUM - MCD CIVIC CENTRE CKT.	BYPL	14.01.2018	B & Y-PH SINGLE CABLE FAULTY.
11.	66kV PATPARGANJ - VIVEK VIHAR CKT.-I	BYPL	15.01.2018	B-PH CABLE FAULTY.
12.	66kV WAZIRABAD - GONDA CKT.-II	BYPL	15.01.2018	R-PH CABLE FAULTY.
13.	66kV WAZIRABAD - GONDA CKT.-I	BYPL	15.01.2018	B & Y-PH CABLE FAULTY.
14.	33kV SUBZI MANDI - SHAHZADA BAGH CKT-II	TPDDL		CABLE FAULTY.
15.	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.

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16.	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. Under process for repair works.
17.	220/33kV 100MVA PR.TR.-I AT 220kV NARAINA	DTL	26.07.2017	Transformer damaged due to fire.
18.	220kV M. Bagh – Gazipur CKT-I	DTL	26.12.2017	Shutdown availed for PWD works.
19.	220kV OKHLA – BTPS CKT-I & II	DTL	12.01.2018	Shutdown availed for DMRC works.
20.	STG-2 at PPCL Bawana	PPCL	01.10.2017 00:05 hrs.	Problem in generator transformer
