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|  | <p style="text-align: center;"><b>DELHI TRANSCO LIMITED</b><br/>(A Govt. of NCT of Delhi Undertaking)<br/>An ISO 9001:2008 certified company<br/>Office of DGM(T) OS, Convener-OCC<br/>1<sup>st</sup> Floor, 220 kV Sub-Stn Park Street, Opp. Talkatora Stadium,<br/>Near R.M.L. Hospital, New Delhi-110001<br/>Web:-www.dtl.gov.in, E-mail :- dgm.os@dtl.gov.in</p> |
|---|--|

No. F.DTL/831/F.4/2017-18/DGM (OS)/87

Date:-02.02.2018

To,  
**All Members of Operation Co-ordination committee**

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

**Sub :- MOM of Delhi OCC Meeting (10/17-18) held on 22.01.2018 at DTL, 220kV Sub-stn Park Street Building.**

Dear sir/madam,

Delhi OCC meeting (No.-10/17-18) for Jan-2018 was held on **22.01.2018 at O/o :- GM(O&M)-I, Delhi Transco Ltd., 220kV Sub-stn Park Street Building, Opp. Talkatora Stadium, Near R.M.L. Hospital, New Delhi-110001.**

The minutes of meeting is enclosed herewith for your kind perusal and further necessary action please. The same has also been uploaded on DTL website, www.dtl.gov.in under the Tab "News and Information – OCC Meeting".

Thanking You.

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

**Copy for favour of kind information to:**

1. Member Secretary, NRPC, 18-A, SJS Marg, Katwaria Sarai, New Delhi-110016.
2. Secretary, DERC, Viniyamak Bhawan, C-Block, Shivalik, New Delhi-17.
3. Chairperson & Managing Director, DTL.
4. Director (Operations), DTL
5. General Manager (Project)-I, DTL
6. General Manager (Project)-II, DTL

**DGM(OS),DTL  
Convener-OCC**

## DELHI TRANSCO LIMITED

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

### MOM OF DELHI OCC MEETING HELD ON 22.01.2018

GM (O&M)-I, DTL, Chairman-OCC welcomed the members of OCC. List of participants are enclosed herewith as Annexure-1. The meeting was started with the presentation on review of grid operation for Dec 2017. It was informed that Delhi peak demand of 4008 MW for Dec-2017 was met on 29.12.2017 at 09:56:53 hrs. Discom wise load as well as generation within Delhi during the peak and load curve for all the Discoms during the Dec month was depicted. Planning of Grid operation for Feb 2018 was also discussed, wherein it was explained that the anticipated peak demand for Feb 2018 would be around 3950 MW.

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

#### **1. Confirmation of minutes of previous 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. The same was also uploaded on DTL website.

**No comments have been received from any of the OCC participating members regarding the contents of MOM. As such the minutes of Delhi OCC meeting held on dated 22.12.2017 were confirmed. Members confirmed the receipt of MOM on their respective e-mail ids.**

#### **2. DTL AGENDA POINTS:**

##### **2.1 Status of Hot Reserve of transformers at all levels.**

The latest updated hot reserve of transformers as finalized in the last Steering Committee meeting held on 30.10.17 were as under:-

| S.No. | Transformation Capacity  | Population in no. | Hot Reserve (No.) Decided | Present Status   |
|-------|--------------------------|-------------------|---------------------------|--|
| 1.    | 400/220kV,<br>500MVA ICT | 2                 | 1x500MVA                  | One 400/220kV 500MVA transformer would be installed as hot reserve by the year 2019-20 and would be placed at Bamnauli. In case of damage of 315MVA in future, the same would be replaced with 500MVA.       |
| 2.    | 400/220kV,<br>315MVA ICT | 14                |                           |  |
| 3.    | 220/66kV,<br>160MVA      | 22                | 2x160MVA<br>+1x100 MVA    | One 160MVA transformer would be kept as hot reserve and placed at Mundka and the 2nd 160MVA Hot reserve 220/66kV transformer would be kept at Rohini-2. Both the transformers should be provided by 2019-20. |
| 4.    | 220/66kV,<br>100MVA      | 42                |                           | The 220/66kV, 100MVA transformer damaged at Papankalan-I after its repair would also be treated as hot reserve and would be kept at Papankalan-I.  |

| 5     | 220/33kV,<br>100MVA | 37                      | 2                    | One 220/33kV, 100MVA transformer which has already been decided as hot reserve and proposed at Patparganj. Eventually, the transformer is required to be shifted to Naraina due to the failure of 100MVA at 220kV Naraina. Therefore, the new hot reserve is required at 220kV Patparganj. The other Hot Reserve Transformer would be placed at Kashmere Gate. These transformers would be provided by 2019-20.   |                   |             |                         |                   |      |   |            |                    |                    |         |            |                    |                    |         |   |           |                    |                      |         |   |       |                    |                      |         |   |              |                    |                      |         |   |                |                    |                      |         |   |          |                    |                      |         |
|-------|---------------------|-------------------------|----------------------|---|-------------------|-------------|-------------------------|-------------------|------|---|------------|--------------------|--------------------|---------|------------|--------------------|--------------------|---------|---|-----------|--------------------|----------------------|---------|---|-------|--------------------|----------------------|---------|---|--------------|--------------------|----------------------|---------|---|----------------|--------------------|----------------------|---------|---|----------|--------------------|----------------------|---------|
| 6     | 66/11kV<br>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 decision taken in the Steering Committee Meeting held on 30.10.17 the transformer augmentation has been planned as under:</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</th> </tr> </thead> <tbody> <tr> <td rowspan="2">1</td> <td>Lodhi Road</td> <td>2 no 33/11kV 20MVA</td> <td>2 no 33/11kV 25MVA</td> <td>2018-19</td> </tr> <tr> <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>Pappan kalan-I</td> <td>2 no 66/11kV 20MVA</td> <td>2 no 66/11kV 31.5MVA</td> <td>2020-21</td> </tr> <tr> <td>6</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> | S . N             | Sub Station | Details of existing Tx. | Augmentation Plan | Year | 1 | Lodhi Road | 2 no 33/11kV 20MVA | 2 no 33/11kV 25MVA | 2018-19 | 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 | Pappan kalan-I | 2 no 66/11kV 20MVA | 2 no 66/11kV 31.5MVA | 2020-21 | 6 | Mehrauli | 2 no 66/11kV 20MVA | 2 no 66/11kV 31.5MVA | 2021-22 |
| S . N | Sub Station         | Details of existing Tx. |                      |   | Augmentation Plan | Year        |                         |                   |      |   |            |                    |                    |         |            |                    |                    |         |   |           |                    |                      |         |   |       |                    |                      |         |   |              |                    |                      |         |   |                |                    |                      |         |   |          |                    |                      |         |
| 1     | Lodhi Road          | 2 no 33/11kV 20MVA      | 2 no 33/11kV 25MVA   | 2018-19   |                   |             |                         |                   |      |   |            |                    |                    |         |            |                    |                    |         |   |           |                    |                      |         |   |       |                    |                      |         |   |              |                    |                      |         |   |                |                    |                      |         |   |          |                    |                      |         |
|       | 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     | Pappan kalan-I      | 2 no 66/11kV 20MVA      | 2 no 66/11kV 31.5MVA | 2020-21   |                   |             |                         |                   |      |   |            |                    |                    |         |            |                    |                    |         |   |           |                    |                      |         |   |       |                    |                      |         |   |              |                    |                      |         |   |                |                    |                      |         |   |          |                    |                      |         |
| 6     | Mehrauli            | 2 no 66/11kV 20MVA      | 2 no 66/11kV 31.5MVA | 2021-22   |                   |             |                         |                   |      |   |            |                    |                    |         |            |                    |                    |         |   |           |                    |                      |         |   |       |                    |                      |         |   |              |                    |                      |         |   |                |                    |                      |         |   |          |                    |                      |         |
| 7     | 33/11kV<br>16MVA    | 16                      |                      |   |                   |             |                         |                   |      |   |            |                    |                    |         |            |                    |                    |         |   |           |                    |                      |         |   |       |                    |                      |         |   |              |                    |                      |         |   |                |                    |                      |         |   |          |                    |                      |         |

**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          |         |                          |

**However, OCC advised C&MM should expedite for procurement process keeping in mind summer peak demand and hot reserve requirement.**

**(Action by Planning Deptt., & CMM, DTL)**

## **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 by DTL Planning deptt. was as under:-**

**(i)The first transformer is under testing stage.**

**(ii)Second and third transformer will follow up.**

**OCC advised that DTL Plg. Deptt. should follow up for the earliest delivery of transformers and to apprise OCC regarding latest status of supply and erection of these transformers in next OCC meeting.**

**(Action by DTL Planning deptt.)**

## **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 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.

**(Action by DTL C&MM deptt.)**

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

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 was updated by Sh. Subhash Chandra Jha, Mgr.(S-V), DTL, Nodal officer. Linewise status be submitted in each OCC meeting.**

**(Action by DTL O&M deptt.)**

## **2.5 Extension of 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.

**During the last OCC meeting, the shutdown of single ckt. of Maharani Bagh – Gazipur T/L were tentatively approved w.e.f. 26.12.2017 to 23.01.2018 subject to revival of ckt. within two hrs. of intimation.**

**No shutdown will be given on 25-26 Jan 2018 in view of India-Asean Special Commemorative Summit-2018 to be held in New Delhi.**

**The shutdown of single ckt. was extended further, however the shutdown should not be availed during the Shutdown of 400kV BUS-I & BUS-II at 400kV Maharani Bagh from 12.02.2018 to 23.02.2018 due to load constraints as detailed on Agenda No.3.1.**

**(Action by PWD)**

## **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.

**After deliberation, the shutdowns were approved subject to real time loading conditions. SLDC insisted that prior intimation (1-2 days in advance) regarding the shutdown to be availed by O&M Deptt on SLDC e-mail id [dtldata@gmail.com](mailto:dtldata@gmail.com) & [dtldata@yahoo.com](mailto:dtldata@yahoo.com) and also inform on telephone to SLDC Control Room even if the shutdowns are approved in OCC meeting.**

## **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 143<sup>rd</sup> 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, SF<sub>6</sub> 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.

**After deliberations, the shutdown was tentatively approved w.e.f. 12.02.2018 to 23.02.2018. However, Confirmation regarding availing of shutdown be sent by Powergrid Maharani Bagh Sub-stn at least two days in advance to SLDC and GM(O&M)-II for necessary action.**

**(Action by Powergrid Maharani Bagh Sub-stn)**

### 3.2 Reactive power compensation at 400kV & 220kV Level

Standing Committee of CEA has approved Bus Reactors during its 39<sup>th</sup> Meeting held 29-30<sup>th</sup> 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 142<sup>nd</sup> OCC Meeting of NRPC, Delhi SLDC was asked to update the action taken by DTL.

#### Planning Deptt updated the following status:-

As per the availability of space in 400/220kV S/stn premises, following locations are finalised for installation of reactors in first phase of respective capacity as per the recommendations of 39<sup>th</sup> Standing -committee report.

| S.No. | Proposed location for installation of Shunt Reactor | Capacity (MVAR)                              | Present status of Schemes   |
|-------|---|--|---|
| 1     | 400kV & 220kV Mundka                                | 125 MVAR at 400kV and 25 MVAR at 220kV level | The schemes for these locations are under process in the sequential manner, Planning department will make out all out effort to finalise these schemes in coming 03 months. |
| 2     | 220kV Electric Lane                                 | 2x25MVAR                                     |   |
| 3     | 220kV Patparganj                                    | 25MVAR                                       |   |
| 4     | 220kV Maharani Bagh                                 | 2 X 25 MVAR                                  |   |
| 5     | 220kV Bamnauli                                      | 25 MVAR                                      |   |
| 6     | 220kV Harsh Vihar                                   | 2 X 25 MVAR                                  |   |

Action plan for installation of reactors has to be intimated by DTL to NRPC.

(Action by DTL Planning Deptt.)



### **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.

**DTL Planning deptt. informed that the DTL map has already been updated. DMRC updated their power network and is attached as Annexure. All the Discoms were requested to update their power network and send the same to SLDC as well as DTL OS deptt. on their respective e-mail ids. SLDC to follow up for the same.**

**(Action by all Discoms)**

### **3.4 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 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 India-Asean summit. However no information received from NDMC till date.

**OCC advised that NDMC & Discoms to send the desired details to SLDC.**

**(Action By NDMC & other Discoms)**

### **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.

The matter was deliberated and all stake holders including DMRC were requested to submit the details to SLDC as desired. Discoms were agreed for the same. SLDC to follow up for submission of data from the respective utilities.

(Action by BRPL,NDMC,MES)

**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.

The matter was deliberated and it was mutually agreed upon that mock trial of black start exercise of GT (IPGCL) be done on 9<sup>th</sup> Feb 2018.

Action by GT (IPGCL)

**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 -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 |   |                      |         |
| <b>CENTRAL SECTOR</b> |                           |              |             |                    |  |                            |  |  |  |   |                      |         |
| <b>NTPC (Thermal)</b> |                           |              |             |                    |  |                            |  |  |  |   |                      |         |
| 1                     | Badarpur TPS              | 3x95 + 2x210 | 5           | 705                | 2  | 0                          | 0  | 2  | 0                                      | 2                                       | Mechanical governors |         |
| <b>Delhi</b>          |                           |              |             |                    |  |                            |  |  |  |   |                      |         |
| 4                     | Indra 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 updated that they will confirm the RGMO/FGMO compliance of their plant in march month for which matter has already been taken up with the OEM.  
(Action by PPCL)**

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

The matter was discussed and decided in 138<sup>th</sup> 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.

**It was deliberated that the SCADA mapping of RGMO/FGMO signal will be done after implementation of RGMO/FGMO scheme by PPCL.**

**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.

**The following was deliberated and mutually agreed upon by all:-**

**(i) BRPL should submit the details of under loaded cables within one week time.**

**(ii) Reactive power flow at all Sub-stn be given by DTL ICM deptt.**

**(iii) NDMC to examine for opening of cables after 8<sup>th</sup> Feb 2018.**

**SLDC to follow up for the above.**

#### **4. Long/Recent Outage/Breakdown of Elements in Delhi power system.**

Members updated the status of following Long/Recent Outage/Breakdowns of elements in Delhi Power system as under:

| S.N | Element's Name              | Discom/ DTL | Date and Time of outage | Updated Status  |
|-----|-----------------------------|-------------|-------------------------|---|
| 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. BRPL will update the status after every three months. |

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|     |   |       |                          |  |
|-----|---|-------|--------------------------|--|
| 2.  | 33kV RIDGE VALLEY - KHEBAR LINE CKT.-II         | BRPL  | 31.01.2016               | R-PHASE SINGLE CABLE FAULTY. Expected by 30.03.2018.   |
| 3.  | 66kV VASANT KUNJ INSTL.AREA-RIDGE VALLEY CKT.-I | BRPL  | 26.03.2017               | UNDER SHUTDOWN. Expected by 01.03.2018.  |
| 4.  | 50MVA PR.TR.-I AT RIDGE VALLEY                  | BRPL  | 30.12.2017               | UNDER SHUTDOWN. Expected by 28.02.2018.  |
| 5.  | 66kV MUNDKA - NANGLOI CKT.                      | BRPL  | 08.05.2017               | B & Y-PH CABLE FAULTY. Expected by 28.02.2018.   |
| 6.  | 20MVA PR.TR.-I AT JAFFARPUR                     | BRPL  | 02.01.2018               | UNDER SHUTDOWN. Ckt energized on 17.01.2018.   |
| 7.  | 33kV ROHTAK ROAD - DLF CKT.                     | BRPL  | 04.01.2018               | CABLE FAULTY. Expected by 28.02.2018.  |
| 8.  | 20MVA PR.TR.-II AT HARI NAGAR                   | BRPL  | 12.01.2018               | UNDER SHUTDOWN. Ckt energized on 18.01.2018.   |
| 9.  | 66kV PPG - AKSHARDHAM CKT                       | BYPL  | 06.08.2017               | CABLE FAULTY. Expected by 31.03.2018.  |
| 10. | 33kV I.G. STADIUM - MCD CIVIC CENTRE CKT.       | BYPL  | 14.01.2018               | B & Y-PH SINGLE CABLE FAULTY. Ckt energized on 15.01.2018.   |
| 11. | 66kV PATPARGANJ - VIVEK VIHAR CKT.-I            | BYPL  | 15.01.2018               | B-PH CABLE FAULTY. Ckt energized on 15.01.2018.  |
| 12. | 66kV WAZIRABAD - GONDA CKT.-II                  | BYPL  | 15.01.2018               | R-PH CABLE FAULTY. Ckt energized on 19.01.2018.  |
| 13. | 66kV WAZIRABAD - GONDA CKT.-I                   | BYPL  | 15.01.2018               | B & Y-PH CABLE FAULTY. Ckt energized on 19.01.2018.  |
| 14. | 33kV SUBZI MANDI - SHAHZADA BAGH CKT-II         | TPDDL |                          | CABLE FAULTY. Expected by 31.03.2018.  |
| 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. Expected by 15.03.18. |
| 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. Expected to be repaired within one month.                |
| 17. | 220/33kV 100MVA PR.TR.-I AT 220kV NARAINA       | DTL   | 26.07.2017               | Transformer damaged due to fire. Expected to reach at site by 15.02.2018.  |
| 18. | 220kV M. Bagh – Gazipur CKT-I                   | DTL   | 26.12.2017               | Shutdown availed for PWD works. Shutdown availed till end of Feb-2018.   |
| 19. | 220kV OKHLA – BTPS CKT-I & II                   | DTL   | 12.01.2018               | Shutdown availed for DMRC works. Circuits energized on 18.01.18 & 20.01.18 respectively  |
| 20. | STG-2 at PPCL Bawana                            | PPCL  | 01.10.2017<br>00:05 hrs. | Problem in Generator Transformer. Tentative date of energization will be updated to SLDC by Jan 2018 end.  |

## **Additional Agenda**

### **1. BRPL Agenda**

BRPL have informed that their IT deptt. want to install IT rack to keep IT related devices in rack at all DTL 220kV Sub-stns. Rack specifications are as under:-

Rack height (U spaces) - 18 unit  
Dimensions (Feet) - 3X2X2 (HXLXB)  
Unit weight (Kg) - 45

**It was deliberated that BRPL should submit the details in the office of ED(SLDC). Copy of the letter be submitted to GM(O&M)-I/II.**

**(Action by BRPL)**

### **2. Termination at 220 kV Subji Mandi Sub-stn (TPDDL Agenda)**

TPDDL have informed that there was unbalanced loading at 220kV Subzi Mandi Grid to 33kV Shahzada Bagh ckt no. 2 and upon load testing, it was seen that R Phase lead of Cable end box of cable no. 2 at 220kV Subzi Mandi Grid end was damaged (Photos attached). Hence cable no. 2 of the same circuit was removed from both the ends, and circuit is presently charged on cable no. 1

After thorough inspection, it was found that cable termination have both the contacts of the breaker & termination are damaged.

TPDDL informed that a letter has been written to concerned Grid Manager for further action but work is yet to be done.



**As explained by Asstt. Mgr.(T)-Mtc., 220kV Subji Mandi Sub-stn, It was apprehended that cable end termination have been damaged by TPDDL.**

**It was deliberated that the required material including male-female contact/termination be arranged by TPDDL in coordination with DTL O&M deptt. for rectification of the fault.**

**(Action by TPDDL)**

### **3. Planned shutdown of units at Pragati-I in line with LGBR 2017-18.**

**PPCL have requested for planned shutdown of units at Pragati-I in line with LGBR 2017-18 as per following schedule:-**

- (i) GT#I from 15.02.2018 to 06.03.2018 for hot gas path inspection**
- (ii) STG from 15.02.2018 to 22.02.2018 for mtc. work**

**OCC advised that due to Shutdown of 400kV Bus-I & II at M.Bagh Sub-stn from 12.02.2018 to 23.02.2018, the shutdown during the proposed date are not feasible. As such PPCL should propose the shutdown in next OCC meeting to be held in the month of Feb 2018.**

**(Action by PPCL)**

**4. UD due to Delay in information of synchronization of CCGT Bawana. (TPDDL Agenda)**

TPPDDL informed that on dt.-06.01.2018, CCGT Bawana generation synchronised at 13:01 hrs. and power scheduled to TPDDL/DISCOMS from 13:30 hrs. as per SLDC Drawl schedule which is published on SLDC website at 13:41 hrs. and accordingly power back down in other generation plants from 4th time block by TPDDL to adjust power of CCGT Bawana in drawl schedule. Due to non-updation of drawl schedule of TPDDL/DISCOMS before synchronisation of CCGT Bawana, TPDDL as well as Delhi subjected to under drawl in the tune of 60-90 MW and 200-300 MW respectively from 13:15 to 14:00 hrs. As per IEGC and Delhi Grid code, generation plant must update injection schedule before at least 4 time block of synchronisation of unit. They have further informed that similar problem have been faced by them in past also during synchronisation of Delhi generation.

They have requested to take up this issue with Delhi GENCOS and make procedure to publish schedule of DISCOMS/GENCOS before at least 4th time block of synchronisation of unit.

**TPDDL submitted that as per IEGC para-6.5.18/19 (Screenshot of IEGC attached/link <http://www.cercind.gov.in/2016/regulation/9.pdf>), in case of outage/revival of unit, Buyers should get information of schedule in 4th time slots advance.**

**It was deliberated and discussed that all the Utilities shall follow the provisions of IEGC related to scheduling in true spirit.**

The meeting ended with vote of thanks to the Chair.

NOTE:-The MOM of OCC meeting can also be seen on DTL website (www.dtl.gov.in) under the Tab "News and Information – OCC Meeting".

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