



DELHI TRANSCO LIMITED

(A Govt of NCT of Delhi Undertaking)

No.F.DTL/202/Opr (Plg.)/2017-18/Mgr (CE&STU)/G-32/ 64

Dt. 28.06.2019

Subject: Minutes of the 2nd Planning Steering Committee Meeting of 2019-20 held on 27.06.2019.

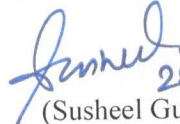
Sir,

The minutes of the 2nd Planning Steering Committee Meeting of 2019-20 held on 27.06.2019 at 10:30AM in the office of General Manager (T) Planning, Shakti Deep Bldg., Jhandewalan Extn., New Delhi are enclosed herewith for information and further necessary action please.

Thanking You.

Encl.: As above

Yours Faithfully,


28/06/19
(Susheel Gupta)

Manager (T), CE&STU

To

1. Jt. Director (Engg), DERC
2. Chairman, Planning Steering Committee, Delhi.
3. Chief Engineer (E-I), NDMC
4. Chief Engineer (E-II), NDMC
5. CWE(Utility), MES
6. Chief Executive Officer, TPDDL
7. Chief Executive Officer, BRPL
8. Chief Executive Officer, BYPL
9. Director, TWEPL

Copy for favour of kind information to:-

1. CMD,DTL
2. Director(Oprs),DTL
3. ED (SLDC)
4. GM(CM & SEM)/GM(T) O&M-I&II/GM(Project)-I & II/GM (C&MM)/GM(planning),DTL
5. Addl. Secy(Power), GNCTD
6. DGM (Planning),DTL



Office of Manager (Planning-CE&STU)
Room No – 98, Shakti Deep Building, , Jhandewalan Extn., New Delhi – 110055
Ph. No. 011-23532773
Corporate Identification No. (CIN)-U40103DL2001SGC111529
Regd office : Shakti Sadan, Kotla Road, New Delhi – 110 002
Visit us at www.delhitransco.gov.in

Minutes of the 2nd Planning Steering Committee Meeting of 2019-20 held on 27.06.2019 at 10:30 AM in the office of General Manager (Planning) DTL

On the outset, General Manager (Planning) DTL welcomed the representatives of all the utilities in the meeting. The list of participants is enclosed as Annexure-I.

A. Confirmation of Minutes of 1st Planning Steering Committee Meeting of 2019-20 held on 06.05.2019.

The minutes of the 1st Steering Committee Meeting of 2019-20 held on 06.05.2019 were circulated vide letter No. F.DTL/202/Opr(Plg.)/2019-20/Mgr(CE&STU)/G-32/37 dated 30.05.2019. No comments have been received so far.

The Steering Committee confirmed the minutes of the 1st Steering Committee Meeting held on 06.05.2019.

B. Follow-up action of decision taken in previous Steering Committee meetings:

1. Load balancing at various 220kV Grid sub-stations in West Delhi by BRPL

a) In the Steering Committee Meeting held on 06.05.2019, BRPL informed that 66kV D/C link from 220kV PPK-III to G-2 grid shall come by June 2019. However, vide their letter dt. 07.06.2019, BRPL requested for amendment of bay allocation from 220 kV PPK-III citing the reason that 02 new 66 kV bays could not be constructed at G-2 Dwarka grid due to space constraint and non-availability of tree cutting permission.

Keeping in view of the above, the revised allocation of 02 no. 66 kV feeder bays was made as an interim arrangement subject to the condition that BRPL shall ensure direct connectivity of 66 kV G-2 Grid from 220 kV PPK-III in long term.

Steering Committee agreed for the above arrangement by BRPL but as and when tree cutting permission at G-2 Grid is obtained, BRPL shall ensure direct connectivity of 66 kV G-2 Grid from 220 kV PPK-III as already approved by steering committee in its meeting held on 04.07.18. Further, Steering Committee took serious note on the issue that BRPL had not raised this issue of amendment of bay allocation in the meeting held on 06.05.2019.

b) In the last SCM, BRPL had informed that Vasant Kunj B Block Ckt-I & II shall come around 30th May, 2019. The Steering Committee had advised BRPL to expedite the work.

BRPL informed that the above feeds have been commissioned on 25.06.2019. Further, steering committee advised BRPL to explore feasibility of more power evacuation at 66 kV level from 220 kV Substation R K Puram as the capacity at 66 kV level is only partially utilized.

c) In the last SCM, DTL informed that to address the issue of space constraint at Bharthal, the layout for both 220/66kV and 66/11kV substations needs to be finalized before preparation of the scheme. Accordingly, a layout was shared with BRPL. In response, a squeezed layout was received from BRPL. However, the space available after squeezing is

less than the space required for 220/66kV substation. BRPL may be requested to further optimize their layout to facilitate the 220/66kV substation.

TPDDL informed in the meeting that they have established 66/11 kV grid with 3x31.5 MVA capacity in approx area of 1250 sq. m. The layout has also been shared by TPDDL with BRPL. BRPL agreed for providing the optimized layout.

2. Allocation of 2 Nos. 33 kV Bays at AIIMS Trauma Centre

In the last Steering Committee, DTL informed that they are facing certain issues in similar type of ongoing brown-field projects related with GIS bay addition. In view of similar type of project and acute space constraints it may not be feasible for DTL to provide additional 33 kV bays at 220kV S/stn AIIMS. Further DTL informed that keeping in view of n-1 planning criteria it may not be advisable to add new additional 33kV feeder bays at 220kV AIIMS.

In the last steering committee held on 06.05.19, BRPL was advised for exploring alternate arrangement in their own network to provide in feed to 33kV AIIMS from other nearby 220kV S/stns especially from 220kV R. K. Puram. BRPL agreed for the same.

Afterwards, a letter dt. 16.05.2019 was received from CEO, BRPL citing the difficulties in the alternate arrangement suggested during last SCM and requested to again look into the matter. The matter was again discussed with BRPL in detail. After detailed deliberations, BRPL agreed that they would provide alternate in-feed arrangement to 33 kV AIIMS-2 grid by making LILO of 33 kV cable from 220 kV S/stn. AIIMS to IIT Grid.

BRPL informed that they are making the above arrangement of LILO of 33 kV cable from 220 kV S/stn. AIIMS to IIT Grid at their 33 kV AIIMS-2. Further, BRPL agreed to explore the alternate arrangement for earlier planned 02 no. additional 33 kV feeders from 220 kV AIIMS for their NDSE and HUDCO grid thereby requirement of additional 33 kV bays at 220 kV substation AIIMS is dropped.

3. Augmentation of 33/11kV & 66/11kV 16/20 MVA Transformers by 25/31.5 MVA Transformers along with upgradation of 11kV System at various S/stns of DTL

In the last Steering Committee meeting held on 06.05.19, the Steering Committee advised all the Discoms to provide the details of shifting of 11kV Systems from existing DTL grids at earliest.

Steering committee advised DISCOMs to comply the above at the earliest.

4. Submission of updated network and single line diagram of each 66kV & 33kV grid station of DISCOMs

Earlier DISCOMs were requested to provide the updated details of (a) All 66kV & 33kV Grids with transformation capacity, (b) Interconnections between their grids and with DTL S/stns and (c) Capacity of U/G & O/H link between grids and DTL S/stns.

The Steering committee in its last meeting advised all the Discoms to provide the above details at the earliest.

Steering committee advised DISCOMs to comply the above by 15th July 2019.

5. Status of all schemes of DISCOMs which are approved in various SCMs from 2010 onwards along with bay allocation and utilization detail

It is observed that some of the schemes are approved in SCMs and are not got executed till date. The reasons for not executing these schemes timely have also not been apprised to SCM. Hence the status of all schemes of DISCOMs which are approved in various SCMs from 2010 onward is required. In addition the bay allocated viz a viz utilized at various sub stations of DTL are also required to be provided for optimum utilization of assets.

The Steering Committee in its last meeting advised all the Discoms to provide the above details at the earliest.

Steering committee advised DISCOMs to comply the above by 15th July 2019.

6. Utilization of 01 no. 66kV Bay at 220kV S/stn Sarita Vihar

In the Steering Committee Meeting held on 30.06.2016, the Steering Committee had approved for utilization of 04 no. 66kV Bays at 220kV S/stn Sarita vihar for DMRC (01 No. Bay), BRPL (02 No. Bay) & TOWMCL (01 No. Bay). At present out of 04 Bays, 03 bays are energized and 01 bay allocated to TOWMCL is still underutilized.

The matter was discussed in the last Steering Committee wherein M/s TOWMCL informed that they shall put up the details in the next SCM.

Further, the Steering Committee had advised M/s TOWMCL to submit a status on the connectivity/ utilization of the 66kV feeder in the next SCM in the absence of which the bay may be utilized by other utilities.

M/s TOWMCL informed in the meeting that presently they do not require this bay, however, they may require it in next 2-3 years. Steering committee decided that since M/s. TOWMCL may require in future and there is no present requirement from BRPL for this bay, therefore, the said bay may remain allocated to M/s. TOWMCL.

7. Reliability criteria for DISCOMs network for important feeders

It was deliberated in last GCC meeting that there should exist two or more supplies from different sources to emergency loads and substations of DISCOMs.

In this regard SLDC has advised for further discussions in Steering Committee.

The Steering committee in its last meeting advised all the Discoms to provide the details of single fed loads / grids at the earliest.

Steering committee advised DISCOMs to comply the above by 15th July 2019.

C. New issues

1. Hot-reserve transformer at 220 kV substation PPK-I

Steering Committee in its meeting dated 04.04.18 agreed on DTL's proposal for a new 220/66/11 kV, 100 MVA hot reserve transformer at 220 kV PPK-I. Now, the procurement of 100 MVA trf at 220/66kV level has been discontinued in DTL. It was directed that either a dual ratio (220/66/33kV) transformer be considered in case 100MVA transformer is procured otherwise new 160 MVA transformer of 220/66kV rating be considered. The 220/66/33kV, 100MVA dual ratio transformer have also not been procured for long in DTL and the same if procured will require Short Circuit withstand test as per prevailing CEA regulations. On the other hand, a number of 220/66/11 kV, 160 MVA transformer are in the process of procurement in DTL.

Steering Committee deliberated the above proposal and agreed for 220/66/11 kV, 160 MVA transformer as hot reserve at 220 kV Substation PPK-I keeping in view the increase in number of 160 MVA power transformers in DTL system during recent years.

2. Additional 400/220/33 KV, 315 MVA or 500 MVA transformer at 400 kV substation Mundka

At present there are 3 no. 315 MVA transformers at 400 kV Mundka. Keeping in view of the load growth and to meet out N-1 criteria, Steering Committee in its meeting dt. 04.07.18 advised DTL for addition of 400/220/33 kV, 315 MVA transformer at 400 kV substation Mundka. Accordingly, the scheme for the same was prepared. However, the GCC in its meeting dt. 22.04.2019, has asked DTL to consider 500 MVA transformer instead of 315 MVA transformer at 400 kV Mundka. If 500MVA Trf is provided at 400kV Mundka, then parallel operation along with existing 3 No. 315 MVA Trfs may not be met and 500MVA transformer may have to run on separate bus (220kV side) compromising the reliability. Therefore, matter has been placed before Steering Committee for deliberation on whether 500 MVA transformer or 315 MVA transformer be considered at 400 kV substation Mundka.

Steering Committee deliberated the above proposal in the meeting. The Manager (T) OS, DTL explained in the meeting that there shall be no operational issues in parallel operation of 315 MVA and 500 MVA power transformers.

Keeping in view the above and future requirement, Steering Committee agreed for addition of 500 MVA transformer at 400 kV Substation Mundka.

3. Addition of 3rd 220/33/11 kV, 100 MVA transformer at 220 kV substation Shalimar Bagh

Earlier, an addition of 220/33/11 kV, 100 MVA transformer at 220 kV S/stn. Wazirpur was envisaged in the 13th business plan of DTL. However, due to space constraints and technical issues, it was decided that the said 100 MVA transformer may be installed at 220 kV S/stn. Shalimar bagh as the load of Wazirpur and Shalimar Bagh is interchangeable and there is adequate space available at 220 kV substation Shalimar Bagh for installation of third 220/33/11 kV, 100 MVA transformer.

Further, in the GCC meeting dt 28.11.18, it was decided that after augmentation of existing 100 MVA transformer with 160 MVA transformer at 220 kV S/stn. Gopalpur, the dismantled

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transformer shall be shifted from Gopalpur to 220 kV S/stn. Shalimar Bagh and corresponding 220 kV & 33 kV transformer bays shall be constructed under QVC of existing contract to meet out the requirement of additional 220/33/11 kV, 100 MVA transformer as mentioned above. Here, it is pertinent to mention that said 100 MVA transformer at Gopalpur is more than 30 year old and thus has outlived its useful life. Therefore, instead of considering an old outlived 100 MVA transformer(dismantled), a new 220 /33/11 kV 100 MVA transformer may be considered as 3rd 220/33/11, 100 MVA transformer at 220 kV S/stn. Shalimar Bagh.

Steering Committee deliberated the above proposal in the meeting. Since as informed the 100 MVA transformer at Gopalpur is outlived as such steering committee agreed for DTL’s proposal for procuring new 220/33/11 kV , 100 Power transformer for installation at 220 kV Substation Shalimar Bagh.

D.TPDDL Agenda:

The agenda of TPDDL was deliberated in detail and the comments of the Steering Committee are as below:

| S.no | Description of Proposal | SCM Remarks |
|-------------|---|--|
| 1 | New 66kV D/C from 220kV BWN to BWN-7 | <p>These proposals were earlier deliberated in steering committee on 06.05.2019 wherein it was advised to DTL & TPDDL for conducting joint site visit for assessing the availability of land in Bawana area for establishment of new 220/66kV substation. Further, in the meeting it was informed that for these upcoming TPDDL schemes, DTL shall have to add a 160 MVA power transformer along with 02 no. 66 kV feeder bays at existing 220 kV substation DSIIDC Bawana.</p> <p>DTL & TPDDL conducted the joint site visit on 25.06.2019 and have informed in the meeting that there is feasibility of establishment of new 220 kV Substation in the area and addition of 01 no. new 160 MVA transformer at existing 220 kV DSIIDC Bawana.</p> <p>In view of the above, Steering committee agreed in-principle for these TPDDL proposals subject to submission of last five year load growth data of the area. Further, Steering committee also advised TPDDL to</p> |
| 2 | Additional PTR 66/11KV 31.5 MVA at BWN-7 Grid | |
| 3 | <p>New 66/11kV Grid at Bawana-2(GIS):</p> <p>1. 2X31.5MVA</p> <p>2. LILO of 220 KV BAWANA TO 66 KV BAWANA-1 CKT-1 &2</p> | |

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| | | <p>submit detailed downstream proposal for anticipated new 220 kV substation in the area.</p> <p>Steering committee advised DTL to prepare scheme for new 160MVA TR along with 03 No. 66kV Bays (1 no. I/c & 2 no. feeders) at 220kV substation DSIIDC Bawana.</p> |
| 4 | New 66kV D/C from 220kV SMB to RG-01 | <p>Earlier, Steering Committee in its meeting dt. 04.07.18 agreed for 66kV feeders for RG-3 and Prashant Vihar from 220kV SMB substation to off load 220kV RHN-I substation.</p> <p>Steering Committee in its meeting dt. 06.05.19 further advised TPDDL to reassess the proposal for better load balancing in the network.</p> <p>TPDDL informed that at present 66 kV RG-3 and 66 kV Prasant vihar are normally fed from 220 kV substation Rohini-II and direct connectivity of RG-1 from 220 kV substation Shalimar Bagh shall reduce the load on 220 kV Substation Rohini-I and shall provide better load balancing in the area. Therefore, keeping in view the above steering committee agreed for the TPDDL's proposal.</p> |
| 5 | LILO of 33kV Kirtinagar – Saraswati Garden at 220kV Peeragarhi | <p>DTL informed that they are facing certain issues in similar type of ongoing brown-field projects involving GIS bay addition. In view of similar type of project and acute space constraints it may not be feasible for DTL to provide additional 33 kV bays at 220kV S/stn Peeragarhi. Further, DTL informed that keeping in view of n-1 planning criteria it may not be advisable to add new additional 33kV feeder bays at 220kV Peeragarhi S/stn.</p> <p>By considering this the Steering committee in its meeting dt.06.05.19 advised TPDDL for exploring alternate arrangement in their own network. TPDDL agreed for the same.</p> |

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| | | <p>The matter was again discussed in Steering committee meeting on dt. 27.06.19 wherein steering committee advised TPDDL & BRPL to utilize the available capacity at 400 kV Mundka for feeding the areas at Peeragarhi, Paschim Vihar, Nangloi etc. TPDDL and BRPL informed that distance of these areas from 400 kV substation Mundka are relatively far to draw power through cable. Steering committee suggested to explore the feasibility of establishing switching stations midway for evacuating more power from 400 kV Mundka and cater the load demand of the area.</p> <p>Further, steering committee advised DTL and TPDDL to conduct a joint site visit for exploring the feasibility of new 220 kV substation at Mangolpuri.</p> |
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E. BRPL Agenda:

The BRPL agenda items were deliberated in detail and the comments of the Steering Committee are as below:

| S.no. | Description of Proposal | SCM Remarks |
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| 1 | <p>Erection Testing & Commissioning of 33/11 kV Grid Substation at Okhla Phase-3</p> <p>a) Establishment of a new 33/11 kV Grid Substation at Okhla ph-3 with 2x31.5 MVA Power Transformers</p> <p>b) Infeed: LILO of 33 kV circuit from 220 KV M.Moth – Balaji at proposed grid Okhla ph-3</p> | <p>Approved ‘In-Principle’.</p> |
| 2 | <p>Establishment of 66/11 kV GIS at Rajapur Khurd (Nawada) grid along with 4 No. in-feed</p> | <p>Approved ‘In-Principle’ subject to load balancing at 220 kV Substation Najafgarh and more power evacuation from 400 kV</p> |

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| | arrangements by LILO of 220 KV Najafgarh – Bodella-2 grid | Substation Mundka. |
| 3 | <p>Establishment of 33/11 kV GIS Substation at Geetanjali, Malviya Nagar</p> <p>a) Establishment of 33/11 kV GIS Substation at Geetanjali with 2x31.5 MVA power transformer.</p> <p>b) Infeed: 2 Nos. Double circuit from 220 KV RK Puram, LILO of Malviya Nagar – Shivalik grid</p> | <p>DTL informed that there is no spare 33 kV bay available at 220 kV R K Puram and suggested BRPL to utilize the already allocated 33 kV bays to provide feed for proposed 33 kV Geetanjali Grid . BRPL agreed to DTL suggestion and informed to steering committee that they shall utilize the already allocated 02 no. 33 kV bays (Shivalik and Sirifort) at 220 kV R K Puram to feed direct supply to 33 kV Geetanjali. BRPL also informed that by this arrangement the feed for Shivalik and Sirifort shall be arranged from BRPL network.</p> <p>In View of the above, steering committee approved the BRPL proposal ‘In-Principle’. However, steering committee advised BRPL to submit the proposal of revised 33 kV bay allocations at 220 kV R K Puram in next steering committee.</p> |
| 4 | Addition of One no. 31.5 MVA 66/11kV PTR with allied equipment at 66kV s/stn. G-7, Dwarka | Steering Committee approved the proposal ‘In-Principle’. However, Steering committee advised BRPL to maintain the optimum load balancing to meet N-1 criteria. |
| 5 | Upgradation of 16 MVA PTR-1 into 31.5 MVA with allied equipment at 33/11 KV Kilokari grid S/Stn | Steering Committee approved the proposal ‘In-Principle’. However, Steering committee advised BRPL to maintain the optimum load balancing to meet N-1 criteria. |
| 6 | Upgradation of 2x20 MVA PTR into 2x31.5 MVA with allied equipment at 66/11 KV Bindapur grid S/Stn. | Steering Committee approved the proposal ‘In-Principle’. However, Steering committee advised BRPL to maintain the optimum load balancing to meet N-1 criteria. |
| 7 | <p>(I) Creation of 66/33 KV level voltage at 66 KV Bodella-1 grid.</p> <p>(II) 33 KV Power evacuation from above 33 KV level</p> | Steering Committee approved the proposal ‘In-Principle’. However, Steering committee advised BRPL to maintain the optimum load balancing to meet N-1 criteria. |

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| 8 | <p>Establishment of 66/11 kV GIS Substation at G-10, Sec-23 Dwarka</p> <p>a) Establishment of 66/11 kV GIS Substation at G-10 with 2x31.5 MVA power transformer , Sec-23 Dwarka</p> <p>b) Infeed: 2 Nos. double circuit in-feed arrangements from proposed 220 KV Bhartal grid.</p> | <p>Approved ‘In-Principle’.</p> |
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F. NDMC Agenda:

The NDMC agenda item was deliberated in detail and the comments of the Steering Committee are as below:

| S.no. | Description of Proposal | SCM Remarks |
|-------|---|---|
| 1 | <p>Deposit scheme to provide 33 kV supply to Delhi Police Head Quarter proposed at Jai Singh Road New Delhi from 220 KV DTL Grid Electric Sub-Station, Harish Chander Mathur Lane, New Delhi through one No 33 KV HT Feeder having 2 No. 33 KV 400 Sq. mm/3C HT XLPE Cable,</p> | <p>NDMC informed that they shall utilize already allocated 33KV bay at 220KV ESS HCM Lane to feed power supply to proposed Delhi Police Head Quarters at Jai Singh Road.</p> <p>DTL informed that proposal submitted by NDMC is incomplete and not in line with format approved in last SCM.</p> <p>The Steering Committee advised NDMC to submit five year load flow study alongwith other data, as per format approved in Steering Committee meeting dated 06.05.19. Steering committee also advised NDMC to submit the proposal of revised 33 kV bay allocations at 220kV substation HCML in the next steering committee meeting.</p> |

The meeting ended with thanks to the Chair.