



दिल्ली ट्रांस्को लिमिटेड DELHI TRANSCO LIMITED

पंजीकृत कार्यालय : शक्ति सदन, कोटला रोड, न्यू दिल्ली-110002

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

Office of Dy. General Manager (System Operation)

एस एन डी सी बिल्डिंग, मिंटो रोड, न्यू दिल्ली-110002

SLDC Building, Minto Road, New Delhi-110002

Ph: 23221175 FAX No.23221069

No. F./DTL/207/17-18/DGM(SO)/204

Dated :02.01.2018

Subject : Minutes of the 18th meeting of the Grid Coordination Committee (GCC) held on 22.09.2017 at 10.30hrs at Conference Hall, NRPC, Katwaria Sarai, New Delhi-110016

Dear Sir, / महोदय

The Minutes of the 18th meeting of the Grid Coordination Committee (GCC) held on 22.09.2017 at 10.30hrs at Conference Hall, NRPC, Katwaria Sarai, New Delhi-110016 are enclosed for ready reference and further necessary action please.

Thanking you,

Encl. as above

Yours faithfully

(S.K. SINHA)

Dy. G.M. (System Operation)
Convener, GCC

To

- 01 **Sh. Prem Prakash, Chairperson, GCC**
Director (Operations), Delhi Transco Ltd, 1st floor, Shakti Sadan Building, Kotla Road, New Delhi-110002, Office-Phone- 011-23232715, Fax : 23232721
- 02 **Sh. Harjiwan Vyas, Executive Director (T), SLDC, Delhi**
- 03 **Sh. V. Venugopal, G. M. (Planning)**
- 04 **Sh. Birendera Prasad, G.M. (O&M)-II, Delhi Transco Ltd.**
- 05 **Sh. Mukesh Kumar Sharma, G. M. (Corporate Monitoring & SEM), DTL**
- 06 **Sh. A.C.Aggarwal, G. M. (Project)-I, Delhi Transco Ltd.**
- 07 **Sh. Suresh Kumar Sharma, G. M. (O&M)-I, Delhi Transco Ltd,**
- 08 **Ms. Kiran Saini, G. M. (Project)-II, Delhi Transco Ltd.**
- 09 **Sh. Lovleen Singh, G. M. (P&M, Disaster Management & Safety), DTL**
- 10 **Sh. Suresh Nimwal, G.M. (C&MM), DTL**
- 11 **Sh. Rajeev Sharma, G.M. (Civil), DTL**
- 12 **Sh. P.K. Malik, General Manager (Finance), DTL**
- 13 **Sh. K.K. Verma, G.M. (C&RA), DTL**
- 14 **Sh. Ved Mitra Chief Engineer, DMRC, Inderlok Metro Station, Delhi, 9871165812**

- 15 **Executive Director, NRLDC**
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- 16 **General Manager (Electrical), DMRC**
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- 21 **Sh. Mukesh Dadhichi, G.M. (SO), BYPL, Shankar Road, New Delhi**
- 22 **Sh. Sunil Kakkar, Head (PMG), BYPL, Shakti Kiran Building, Karkardooma, Delhi**
- 23 **Chief Engineer (Transmission System), BBMB**
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- 25 **Sh. Sanjay Kumar Banga, Head (PEC, PM&BD), TPDDL**
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- 26 **Sh. P. Devanand, HoD, (PSC & Smart Grid), TPDDL**
- 27 **Sh. Satinder Sondhi, VP, (System Operation), BRPL**
- 28 **Sh. Sanjay Srivastava, AVP (PMG), BRPL**
- 29 **Sh. Chandan Chakarvarty,**
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- 30 **Sh. A.K. Joshi, Chief Engineer (Elect)-II, NDMC**
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- 31 **Sh. H.K. Chawla (Market Operation), NRLDC, 18-A, SJSS Marg, New Delhi-110016**
- 32 **Sh. Mahender Singh, Executive Director (Tariff), DERC**
DERC Viniyamak Bhawan, C-Block, Shivalik, New Delhi-17
- 33 **Sh. U.K. Tyagi, Executive Director (Engineering), DERC**
DERC Viniyamak Bhawan, C-Block, Shivalik, New Delhi-17
- 34 **General Manager (Commercial), NTPC, NCR Headquarters, R&D Building, A&A, Setor-24, Noida-201301. Fax no. 0120-2410192**
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- 36 **Sh. R.B. Meena, AGM(T), Operation Bawana CCGT, Ph. 9717694974,**
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- 39 **Sh. Neelesh Gupta**
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- 40 **General Manager, Indira Gandhi Super Thermal Power Station, Jharli, Jhajjar Distt. Haryana Pin-124141, Fax no. 01251-266202, Ph. 01251-266265**
- 41 **CWE (U), MES, MES Palam Road, Delhi Cantt, New Delhi-110010**

- 42 **GE (U), MES**, Electric Supply, Kotwali Road, Delhi Cantt, Delhi-110010
43 Dy. G. M. (Fin-II), DTL Rajghat Power House New Delhi -110002
44 **Sh. Pradeep Katiyar, Dy. G.M. (SCADA), SLDC**
45 Ms. Parul Kapadia, Manager (HW), SCADA, SLDC
46 Ms. Anjalee Das, Manager Software), SCADA, SLDC
47 **Sh. Naveen Goel**, Manager (T), System Operation, SLDC
48 **Ms. Sonali Garg**, Manager (Energy Accounting), Delhi SLDC
49 **Manager (SO)-Shift**, Delhi SLDC
50 Ms Mukesh Dagar, Dy. Manager (Finance), SLDC
51 Sh. I.P George, Project Head, DMSWL, Sector-5, Pocket N-1, Bawana Industrial Area, Behind Pragati Power Plant, Bawana, New Delhi-110039
52 Project-in-Charge, 12MW East Delhi Waste Processing Company Ltd, Near Veterinary Hospital, Gazipur, Delhi-110096, Ph.22782152

Copy for favour of kind information to :-

1. Secretary (Power), Govt. of NCT of Delhi,
2. Secretary, DERC, Viniyamak Bhawan, C-Block, Shivalik, New Delhi-110017
3. Chairman & Managing Director, DTL
4. Chairperson, NDMC, Palika Kendra, Sansad Marg, New Delhi-110001
5. Member Secretary, NRPC, Katwaria Sarai, New Delhi-110016
6. Director (Operations), NTPC, Scope Complex, 7 Institutional Area, Lodhi Road, New Delhi-110003
7. Managing Director, IPGCL / PPCL, Himadri, Rajghat Power House, New Delhi-02
8. Director (Operations), DMRC, Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi-110001.
9. Director (Finance) DTL
10. CEO, BSES Rajdhani Power Ltd, BSES Bhawan, Nehru Place, New Delhi-110019
11. CEO, BSES Yamuna Power Ltd, Shakti Kiran Building, Karkardooma, New Delhi-92
12. CEO, TPDDL, 33kV Grid S/Stn, Hudson Lane, Kingsway Camp, Delhi-110009
13. Chief Engineer, Delhi Zone,(CEDZ), MES Palam Road, Delhi Cantt, New Delhi-10
14. Addl. Secretary (Power), Govt. of NCT of Delhi, Delhi Secretariat, New Delhi.



DELHI TRANSCO LTD.

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

[Office of Dy General Manager (System Operation)]

SLDC Building, Minto Road, New Delhi – 110 002

Phone No.23221175, Fax 23221069

Subject : Summary Record of discussions held in the 18th meeting of the Grid Coordination Committee held on 22.09.2017 at 10.30hrs at Conference Hall, NRPC, Katwaria Sarai, New Delhi-110016

The list of participants is enclosed as **Annexure**.

WELCOME

Sh. Harjiwan Vyas, Executive Director (T), SLDC welcomed all the delegates of the 18th Grid Coordination Committee Meeting. Sh. Prem Prakash, Chairperson, GCC also welcomed all the delegates in the meeting and expressed sincere thanks to team of officers to host 18th GCC meeting. He expressed his great satisfaction over the power supply position of Delhi during summer season. He also expressed his great satisfaction over the augmentation plan carried out by DTL and Discoms to meet the all time high demand of 6526MW on 06.06.2017 without any load shedding due to shortage of power. He thanked all the Distribution Companies for arranging adequate power to meet the peak demand of summer months.

He further said that summer peak demand period has already been passed. In coming days, power demand would be comparatively low. Transmission and Distribution Agencies should use this opportunity to augment their system as it would be difficult to allow major shut-downs during winter peak period.

He further stated that during coming winter months, there would be huge surplus with Discoms especially during night hours. Discoms should make efforts to dispose off the surplus power available with them.

Concluding the remarks, he requested all the Stake Holders to actively participate in the proceedings of meeting for fruitful discussions and arrive at a considered decision to ensure secure and economic operation of the power system of Delhi. He advised Dy. G.M. (SO) to take up agenda for discussion.

Accordingly, the Agenda was taken up for discussion.

The gist of discussions and decisions are as under:-

1 CONFIRMATION OF THE MINUTES OF 17TH MEETING OF GCC HELD ON 26.04.2017.

The minutes of the 17th meeting of GCC held on 26.04.2017 have been circulated vide letter no. No. F./DTL/207/17-18/GM(SLDC)/F.35/31 dated 07.06.2017. No comments have been received so far.

GCC confirmed the minutes of the 17th meeting of GCC held on 26.04.2017.

2 FOLLOWUP ACTION ON THE DECISIONS TAKEN IN THE PREVIOUS GCC MEETINGS

2.1. PROVISIONS OF HOT RESERVE OF TRANSFORMERS.

The updated status is as under:-

S. No.	Transformation Capacity	Present population in nos.	Status as on present date
1.	400/220kV Tx 500MVA ICT	2	<p>In the last meeting, GCC advised the Steering Committee to consider if any existing Tx / ICT in DTL system goes out at 315MVA level, should be replaced with 500MVA considering not vast variations in prices of 500 and 315MVA TxS. It may also consider 500MVA spare ICT.</p> <p>In the meeting, the representative of Planning Department informed that 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 repaired.</p> <p>In view of the above, the matter was deliberated in the Steering Committee Meeting held on 30.10.17 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 considering the less incremental cost of the transformer comparison to the MVA capacity addition.</p> <p>Therefore, 1 No. 500MVA Transformer is proposed as Hot Reserve for both 500MVA and 315 MVA Pr. Tr.s and would be placed at Bamnauli in 2019-20.</p> <p>By the time 2000MVA Tughlakabad and 2000MVA 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</p>
2.	400/220kV Tx 315MVA ICT	14	

S. No.	Transformation Capacity	Present population in nos.	Status as on present date
3	220/66kV Tx 160MVA	22	<p>Initially, Hot reserve 220/66kV 160MVA Tx was placed at Kanjhawala. This Tx was shifted to Pappankalan-I and installed against damaged 220/66kV 100MVA Tx-III.</p> <p>In the last meeting, GCC advised Planning Department to process the procurement of 160MVA Tx. as hot reserve after discussion in Steering Committee meeting.</p> <p>In the meeting, representative of Planning Department informed that 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 in the SCM held on 30.10.17 that 1 more 160 MVA, 220/66kV transformer is to be kept as Hot reserve which will serve as Hot reserve for both 220/66, kV 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 where the space is available.</p> <p>The 100MVA, 220/66kV Tx. damaged at Pappankalan-I would also be placed as Hot Reserve at PPK-I after its repair.</p>
4	220/66kV Tx 100MVA	42	
5	220/33kV Tx 100MVA	38	<p>One 220/33kV 100MVA Tx. meant for Karampur S/Stn would be kept as a hot reserve at Patparganj.</p> <p>In the last meeting, GCC advised the Steering Committee to consider the number of Txs required as spare considering the frequency of damage of Txs.</p> <p>The representative of Planning Department informed that one 220/33kV, 100MVA Tx. meant for Karampura S/Stn would be kept as a hot reserve at Patparganj.</p> <p>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 where the space is available.</p>
6	66/11kV 20MVA Tx.	24	<p>Steering Committee in its meeting held on 15.03.2017 has decided that in case of exigency, the Discoms having spare capacity may provide these transformers depending upon the exigency as there is a regulatory embargo for creating 11kV assets in DTL. However, as per the Business Plan of DTL, there is plan to replace the transformers with 25/31.5MVA capacity based on the recommendations of the Transformer Committee of DTL.</p> <p>Steering Committee in its meeting held on 15.03.2017 has decided that in case of exigency, the Discoms having spare capacity may provide these transformers.</p>
7	33/11kV 16MVA Tx.	16	

S. No.	Transformation Capacity	Present population in nos.	Status as on present date																																													
			<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></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-1</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>Note : For. Sr. No.1 & 2, The cases are in progress.</p> <p>Discoms were of the view that they do not have any Tx to spare in case of exigency of outage of 66/11kV or 33/11kV Txs at DTL system. It would be appropriate that DTL should have one 66/11kV 31.5MVA capacity and one 33/11kV 25MVA capacity as spare to take care of the eventuality. GCC advised Planning Department to consider the suggestion of Discoms in the Steering Committee meeting.</p>		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-1	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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During the meeting, representative of BYPL and TPDDL requested GCC that DTL should make a policy for hot reserve of transformers.

GCC advised DTL to finalize the policy for hot reserve transformers in Steering Committee meeting.

Subsequently, the Steering Committee in its meeting held on 30.10.2017 decided the following in respect of Hot reserve.

S. No.	Transformation Capacity	Present population in no.	Hot Reserve (No.)	Status as on present date
1.	400/220kV Tx 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 repaired.
2.	400/220kV Tx 315MVA ICT	14		In view of the above, the matter was deliberated in the Steering Committee Meeting held on 30.10.17 wherein it was decided that in case of damage of 315MVA transformers in future, the same would also be replaced with 500MVA transformer

S. No.	Transformation Capacity	Present population in no.	Hot Reserve (No.)	Status as on present date
				<p>considering the less incremental cost comparison to the MVA capacity enhancement.</p> <p>Therefore, 1 No. 500MVA Transformer is proposed as Hot Reserve for both 500MVA and 315MVA Power Transformers and would be placed at Bamnauli in 2019-20.</p> <p>By the time 2000MVA Tuglakabad and 2000MVA Dwarka sub-station would also be commissioned easing the loading condition of the existing 400kV sub-station and creating further redundancy in the 400kV transmission system.</p>
3	220/66kV Tx 160MVA	22	2x160MVA +1x100 MVA	1 No. 160 MVA Hot Reserve transformer is to be kept at Mundka as approved in last SCM held on 29.06.17.
4	220/66kV Tx 100MVA	42		<p>Considering the population and ageing of 100MVA, 220/66kV Transformers, it was decided in the SCM held on 30.10.17 that one more 160 MVA, 220/66kV transformer is to be kept as Hot Reserve which will serve as Hot Reserve for both 100MVA, 220/66kV and 160MVA transformers. Thus there will be 2 No. 220/66kV, 160MVA transformers as Hot Reserve. The 2nd 160MVA Hot Reserve transformer will be placed where the space is available.</p> <p>The 100MVA, 220/66kV Tx. damaged at Pappankalan-I would be placed as Hot Reserve at PPK-I after its repair.</p>
5	220/33kV Tx 100MVA	37	2	<p>1 No. 220/33kV, 100MVA Tx. meant for Karampur S/Stn would be kept as a Hot Reserve at Patparganj. Considering the population and ageing of 100MVA, 220/33kV Transformer, it was decided in the SCM held on 30.10.17 that 1 more 100MVA, 220/33kV transformer is to be kept as Hot Reserve.</p> <p>Thus, there will be 2 No. 220/33kV, 100MVA Transformers as Hot Reserve. The second Hot reserve will be placed where the space is available.</p>
6	66/11kV 20MVA Tx.	24	NIL	<p>Steering Committee in its meeting held on 15.03.2017 has decided that in case of exigency, the Discoms having spare capacity may provide these transformers depending upon the exigency.</p> <p>As per the Business Plan 2017-22, the outlived transformers would be replaced in a phased manner as below :-</p>
7	33/11kV 16MVA Tx.	16		

S. No.	Transformation Capacity	Present population in no.	Hot Reserve (No.)	Status as on present date																																													
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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																																													

Steering Committee has also decided that in case of the Tr. results of any of the outlived Trs go beyond the permissible limits, the same shall be replaced/augmented with the Hot Reserve Trs. in respect of 220/66kV, 160/100 MVA and 220/33kV, 100MVA Trs.

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 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 of augmentation of 33/11kV, 16MVA transformers with 25MVA 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, 20MVA with 25MVA 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.

2.2 IMPLEMENTATION OF AUTOMATIC DEMAND MANAGEMENT SCHEME BY DISCOMS

The implementation of ADMS is being monitored by CERC and in suo moto petition no. 5/2014 in the matter of “non compliance of Regulation 5.4.2(d) of the Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulation 2010” the following has been directed:

.....however, considering the request of the respondents to grant time to implement ADMS, we grant time till 30.06.2016 to the respondent to implement ADMS failing which they will be liable for action under Section 142 of the Act for non compliance of the Regulation 5.4.2(d) of the Grid Code and order of the Commission. RLDCs are directed to submit the report in this regard by 31.08.2016”.

The position updated by the utilities in the 18th GCC meeting was as under:-

TPDDL : SCADA has already been upgraded. This has the facility of ADMS. The same is likely to be implemented by December 2017.

BYPL : Already in place. As soon as activated when Delhi as a whole over draws and BYPL also over draws would be picked up from SLDC website. The data accuracy needs to be ensured to avoid unwanted load curtailment.

BRPL : SCADA has already been up-graded. This has the facility of ADSM.
NDMC: The software is has been upgraded and under testing.

MES : Exempted due to very small utility and considering strategic important load to be catered.

GCC advised that all utilities should adhere to the Grid Discipline and ensure the compliance of the Indian Electricity Grid Code. It was also decided to hold a meeting of all Discoms after completion of the ADMS.

2.3 OUTSTANDING DUES

2.3.1 OUSTANDING DUES - DTL

A Non payment of outstanding dues of DTL by BRPL and BYPL and TPDDL

Representative of DTL informed that BSES utilities are not paying dues to DTL since October, 2010 due to which DTL is facing acute financial crisis. Due to financial crunch, DTL is not able to expand its network as per plans. Even, maintenance activities are also suffering badly. The outstanding dues owed to BSES utilities are increasing month by month. Hon’ble Supreme Court vide its orders dated 26.03.2014, 12.05.2016 has directed BSES Discoms to clear the current dues of DTL i.e. dues w.e.f. 01.01.2014 but BSES utilities are not even complying the directions of Hon’ble Supreme Court.

The details of outstanding dues on BSES utilities are as under :-

i) **BRPL**

SUMMARY OF TOTAL OUTSTANDING DUES (INCLUDING LPSC) PAYABLE BY BRPL TO DTL FOR THE BILLING PERIOD 01.10.2010 TO 31.07.2017]

figures in Rs. Crores

Billed amount	TDS	STOA Adjustment	Net Payable (B-C-D)	LPSC	Total Payable including LPSC (E+F)	Payment Received			Total Outstanding (Principal +LPSC) (100%) (G-J)
						Payment Received from BRPL	Subsidy Received from GNCTD	Total received (H+I)	
B	C	D	E	F	G	H	I	J	K
2391.71	187.52	183.49	2020.7	602.98	2623.68	640.89	394.40	1035.29	1588.39

SUMMARY OF CURRENT DUES PAYABLE (WITHOUT LPSC) BY BRPL TO DTL FOR THE BILLING PERIOD 01.01.2014 TO 31.07.2017

figures in Rs. Crores

Billing period	Total Bill amount	TDS amount deducted	Net Payable	Minimum payable amount (as per direction of Hon'ble Supreme Court Orders)	Total minimum payable amount (as per direction of Hon'ble Supreme Court Orders)	Payment received (in Rs.) till 31.08.2017	Balance minimum amount of current dues payable as per direction of Hon'ble Supreme Court
01.01.14 To 30.04.16	752.51	75.25	677.26	677.26	992.69	253.84	738.85
01.05.16 to 31.07.17	459.82	9.20	450.62	315.43			

ii) **BYPL**

SUMMARY OF TOTAL OUTSTANDING DUES (INCLUDING LPSC) PAYABLE BY BYPL TO DTL FOR THE BILLING PERIOD 01.10.2010 TO 31.07.2017]

figures in Rs. Crores

Billed amount	TDS	STOA Adjustment	Net Payable (B-C-D)	LPSC	Total Payable including LPSC (E+F)	Payment Received			Total Outstanding (Principal +LPSC) (100%) (G-J)
						Payment Received from BYPL	Subsidy Received from GNCTD	Total received (H+I)	
B	C	D	E	F	G	H	I	J	K
1455.86	117.75	112.20	1225.91	397.45	1623.36	243.33	358.49	601.82	1021.54

SUMMARY OF CURRENT DUES PAYABLE (WITHOUT LPSC) BY BYPL TO DTL FOR THE BILLING PERIOD 01.01.2014 TO 31.07.2017

figures in Rs. Crores

Billing period	Total Bill amount	TDS amount deducted	Net Payable	Minimum payable amount (as per direction of Hon'ble Supreme Court Orders)	Total minimum payable amount (as per direction of Hon'ble Supreme Court Orders)	Payment received (in Rs Cr.) till 31.08.2017	Balance minimum amount of current dues payable as per direction of Hon'ble Supreme Court
01.01.14 To 30.04.16	473.37	47.37	426.30	426.30			
01.05.16 to 31.07.2017	241.48	4.83	236.65	165.66	591.96	107.21	484.75

Representative of C&RA Department of DTL informed that no payment is being done by BRPL and BYPL and Hon'ble Supreme Court order dated 12.05.2016 was not being complied.

DTL requested the above beneficiaries may be impressed upon to liquidate the outstanding dues of DTL at the earliest. It was also presented the financial crisis engulfed DTL and if payments are not forthcoming, the network expansion would be severely hampered. Even day to day requirement cannot be able to fulfil without fund availability.

After deliberations, GCC advised C&RA Department of DTL to conduct a meeting with BRPL & BYPL Finance Department for reconciliation of accounts.

Further, GCC advised that BRPL & BYPL should pay the dues to the Transmission and Generating utilities to carry out their day to day operations and establishment of their new projects to ensure quality and reliable power supply to the consumers of Delhi. The Transmission and Generating Utilities were also advised to take all possible steps to recover the dues for smooth operation of the system.

iii) TPDDL

TPDDL is also not remitting the payment of Wheeling charges bills to DTL. Due to non receipt of monthly dues from TPDDL regularly, there is crisis of funds in DTL which is resulting in delay in completion of critical projects including Tughlakabad, which is to be commissioned by March, 2018.

SUMMARY OF DUES PAYABLE (WITHOUT LPSC) BY TPDDL ON ACCOUNT OF WHEELING CHARGES TO DTL FOR THE BILLING PERIOD 01.04.2017 TO 31.07.2017

figures in Rs. Crores

Billing period	Total Bill amount	TDS amount deducted by Discom	Net Payable by Discom	Payment received till 31.08.2017	Outstanding amount payable by TPDDL
01.04.17 To 31.07.2017	94.69	9.47	85.22	0	85.22

In view of above, the above beneficiaries may kindly be impressed upon to liquidate the outstanding dues of DTL at the earliest.

In the last meeting, GCC advised that all the utilities should pay the dues to the Transmission and Generating utilities to carry out their day to day operations and establishment of their new projects to ensure quality and reliable power supply to the consumers of Delhi. The Transmission and Generating Utilities were also advised to take all possible steps to recover the dues for smooth operation of the system.

TPDDL representative informed GCC that the subsidy amount receivable from Delhi Govt. is pending. They will release payment as soon as they receive the subsidy amount from Delhi Government.

GCC advised TPDDL to clear the dues without further delays and also advised to honour the bills raised by Transmission and Generating utilities and clear the same within stipulated time.

B) Non furnishing of LCs by BRPL &BYPL

BRPL and BYPL have not furnished LCs to DTL. Letters were issued to both the Distribution Licensees for providing LCs for FY 2017-18 for amount of Rs. 35,79,18,037/- and Rs. 18,62,10,288/- respectively w.e.f. October, 2017 but no LCs have been provided by both the Discoms so far.

The representatives of BRPL and BYPL informed that they are facing acute financial crunch. Even they are not paying regular bills to Transmission and Generating Licensees. As such, LC would be established when financial position of both utilities improves.

GCC advised to settle the issue mutually. Even generating utilities may approach to DERC for redressal for their grievance.

2.3.2 Outstanding dues of IPGCL / PPCL.

i) Non-payment of Energy Bills by BRPL and BYPL since October, 2010.

Since the re-assignment of the PPA signed with DTL, energy is being billed by IPGCL and PPCL to all the Distribution Companies as per the Energy Account issued by the State Load Dispatch Centre, Delhi (SLDC) and the payments for the bills raised were being realized within the stipulated period in the past, as per the PPA/ Regulations issued by the DERC.

However, payments are not being released by BRPL and BYPL from the month of October, 2010. The details of which are as under:

(Amount Rs. in Crores)

Company	BRPL	BYPL	Total
IPGCL	1683.15	1014.50	2697.65
PPCL	3047.80	2221.04	5268.83
Total	4730.94	3235.54	7966.48

Further, in total disregard to Hon'ble Supreme Court of India order dated 12.05.2016, BYPL and BYPL are not paying even 70 % of Current outstanding. The balance current unpaid dues as on date are as under:

(Amount Rs. in Crores)

Company	BRPL	BYPL	Total
IPGCL	388.66	208.88	597.54
PPCL	1264.49	919.87	2184.36
Total	1653.14	1128.75	2781.89

In the meeting, GCC advised all the defaulting utilities to pay the dues to the Transmission and Generating utilities to carry out their day to day operations and establishment of their new projects to ensure quality and reliable power supply to the consumers of Delhi. The Transmission and Generating Utilities were also advised to take all possible steps to recover the dues for smooth operation of the system.

ii). Opening of LC for Bulk Power Supply to BRPL and BYPL by IPGCL and PPCL Power Stations.

Various correspondences have been made by IPGCL and PPCL in respect of opening of LC for securing Bulk Power Supply. However, BRPL and BYPL in spite of number of reminders have not established LC in respect of IPGCL and PPCL since April, 2011.

In the last meeting, it was informed that the issue was discussed in the 20th Commercial Sub-Committee meeting held on 19.04.2017 wherein BRPL and BYPL representatives informed that as the financial condition of their companies are not good, therefore, the nationalised / scheduled banks are not opening the LCs of BRPL and BYPL. Further DTL requested Discoms to provide documents of correspondence made with banks and the same has been agreed to by BRPL and BYPL.

In the said meeting, IPGCL / PPCL representative requested BRPL and BYPL to provide them the documents of correspondence made with banks for which discoms have agreed.

GCC advised the utilities to take necessary action to establish the LC as per provisions of PPA.

iii). Opening of LC for Bulk Power Supply from IPGCL and PPCL Power stations to TPDDL.

The LC for power supply from power stations of IPGCL & PPCL established by TPDDL expired on 31.03.2014. Various correspondences have been made by IPGCL & PPCL in respect of renewing of LC for securing Bulk Power Supply. A petition was also filed by IPGCL & PPCL with DERC for suitable directions to TPDDL in this matter. DERC had various hearings on the matters and in final order dt. 18.12.2015 DERC directed TPDDL to establish LC in favour of IPGCL & PPCL to secure bulk power supply from its power stations. However, TPDDL in spite of number of reminders did not establish LC in respect of IPGCL & PPCL and had chosen to file review petition nos. 18/2016 before state commission. Hon'ble Commission heard the matter on 31.05.2016 and issued final order on dt. 01.08.2016 dismissing the said review petition of TPDDL. Accordingly, IPGCL & PPCL requested to TPDDL to establish LC without further delay. However, TPDDL have not established LC.

In the meeting, it was informed that a meeting was held in the office of Secretary (Power), GNCTD on 18.04.2017 along with senior officers of IPGCL / PPCL and TPDDL. As per the decisions taken, the payments are being settled. After the reconciliation of the payment, the matter of establishment of LC would be resolved.

GCC noted.

iv) Non-payment of Energy Bills by TPDDL since October, 2015.

TPDDL is defaulting in making the payment of IPGCL & PPCL energy bills since October, 2015. In this regard, IPGCL/PPCL vide letter dt.09.10.2015 objected the unilateral decision of recovery of regulatory asset from energy bills of IPGCL & PPCL. IPGCL/PPCL in its letter have requested TPDDL not to indulge in such illegal

activity by unilaterally finding alternate source of recovery of regulatory assets from IPGCL / PPCL rather than approaching to DERC. Even while exercising such illegal option of recovering un allowed portion of energy charges TPDDL has arbitrarily chosen to stop the payment of bills of IPGCL & PPCL only and not other generators and transmission companies.

Further, TPDDL is continuing to default in payment of current energy bills. Therefore, IPGCL/PPCL filed petition 91 & 92 of 2015 with DERC. There were number of hearings on the matter and state commission issued final order on dt. 15.07.2016 with remarks

“6. It is to be noted that the energy bills of the generators are to be paid as per rates determined in the tariff order of the generators and not as per the rates reflected in the tariff order for Discom, which are governed by respective MYT Regulations for Generation and Distribution Tariff. As per MYT Regulations, 2011 for generation tariff, variable energy charge of Generation Company shall be billed on the basis of actual fuel cost. It must be kept in mind that rates given in the tariff order for the Discom or for generators are only the projections and cannot be treated as final or actual. The Commission has specified the formula for recovery of Power Purchase Cost Adjustment Charges (PPAC) in the Tariff Order of the Discom to take care of any variation in the projected power purchase cost and actual power purchase cost. The Discom may not have different approach for making payment to different generating stations e.g. Central Generating Stations and State Generating Stations.

7. Moreover, as per the terms of PPA the Discom has to pay 95% of the bill even if it is disputed and there is no scope to deny payment of bills. Further, the Discoms have to honour the terms of PPA like opening of Letter of Credit etc. In the instant case, if the Respondent had any dispute in respect of energy bills raised by the petitioner, they would have paid 95% of the bill and made a reference of the dispute to the Petitioner to get it resolved as per the provisions of the PPA. The difference, if any, in projected Power Purchase Cost and actual Power Purchase Cost along with carrying cost is to be considered at the time of truing up of ARR for respective financial year.

8. Considering the above facts, the Respondent Discom is directed to make payments of energy bills raised as per the rate determined in the tariff order for the Petitioner and also to open Letter of Credit as per the terms of PPA.

9. With the above directions the matter is disposed off.

10. Order accordingly. “

In view of order of state commission, TPDDL is to pay all energy bills including surcharge for delay payment. However, TPDDL had not made payment and established LC. The total outstanding accumulated outstanding dues are as under:

Figures in Rs. Crores	
Company	TPDDL
IPGCL	64.83
PPCL	36.03
Total	100.86

Further, in a meeting taken by Secretary (Power) GNCTD on 18.4.2017 regarding outstanding dues of IPGCL/PPCL on TPDDL; TPDDL promised to Release Outstanding dues by 30.4.2017 and further pay the current month energy bill which becomes due by 7th of every month on regular basis. However after paying Rs 35.88 Crores to IPGCL and Rs 270.96 Crores to PPCL, TPDDL has stopped the payment. Further a total Outstanding of Rs 103.29 Crores and Rs 250.40 Crores respectively was pending (before diversion of subsidy on 08-09-2017). Thus Rs 100.86 Crores of IPGCL and PPCL are pending with TPDDL.

GCC advised TPDDL to make the payment as per provisions of PPA in line with CERC / DERC Regulations.

v) Reconciliation of DSM Charges bills with SLDC

The Reconciliation of Deviation Settlement Mechanism charges bills for FY 2015-16 are pending due to non signing of SLDC Finance. IPGCL/PPCL Finance have already worked out the reconciliation statement and visited SLDC finance several times on issue. However, there is no progress in signing of reconciliation statement by SLDC Finance.

SLDC Finance informed that the matter will be settled by next GCC meeting.

GCC advised SLDC and IPGCL/PPCL to reconcile the statement in time bound manner without further delay.

vi) Sale of URS Power from power stations of PPS-1 & PPS-III.

It was informed that IPGCL & PPCL has long-term power purchase agreement for sale of power from GTPS, PPS-1 & PPS-III power stations to the beneficiaries i.e. BYPL, BRPL, TPDDL, NDMC, MES, Haryana Power Purchase centre & Punjab State Power Corporation etc. During the past, there have been less power generation due to less scheduling than declared generation capability of the station.

The quantum of back down in the Northern Grid from Central, Inter-state and State Generating Stations was very high during the past. This has resulted in payment of significant capacity charges / fixed charges by the beneficiaries of the station for which there was no scheduled generation.

The DISCOMs of various states have raised the issues at various forums and have also cited reason for higher purchase cost of electricity.

Therefore, while addressing the grievances of the distribution companies the CERC and Ministry of Power, GOI, have taken various steps to get scheduled / diverted URS power to other beneficiaries in the country. This resulted in utilization of natural resources and availability of power to power starved regions and resulted in reduced overall cost of power purchase of the beneficiaries having long-term power purchase agreements with such power stations. MoP, GOI, have issued new Tariff

Policy on 28th January, 2016, wherein various guidelines for procurement of power under para 6.1 of the new tariff policy have been provided. As regards to generation of power in full capacity from long-term PPA power stations, reduction of overall cost of purchase of power in cases of under scheduling, the Ministry of Power, GOI, have further elaborated Clause 6.2(i) of the policy and accordingly has reminded all states regulatory commissions, CPSUs to act fast for utilization of URS power of the power stations whose tariff is determined as per Clause 62 & 63 of Electricity Act, 2003.

In continuation of the above development, IPGCL & PPCL are in receipt of letter from TPDDL regarding approval of State Commission for sale of URS power in reference to recent tariff policy of Ministry of Power GOI and subsequent letter of Ministry of Power, GOI dated 09.05.2016 on the matter. Further, TPDDL has mentioned details along with certain contents of the MoP GOI letter. After reviewing scope of action to be taken by IPGCL & PPCL in reference to the content of above approval of DERC, MoP, GOI, letter and letter of TPDDL, (being only one out of the many beneficiaries of the IPGCL & PPCL power stations) a letter No.Comml./DERC/F.10/38 Dt.02.06.2016 was sent to DERC for addressing above issues as identified by IPGCL & PPCL before implementation of above provision of current tariff policy of GoI, with copies to beneficiaries. Matter was also taken up in 15th & 16th GCC Meeting of Delhi state on 21.09.2016. After deliberations in 15th GCC Meeting held at NRPC Katwaria Sarai, the Committee has decided as under: *“SLDC informed that in normal course, beneficiary has every right to recall the unscheduled power as fixed charges are paid by beneficiaries. For specific directions, the affected parties may approach the State Regulatory Commission. GCC advised to take up the matter with state regulatory.”*

Accordingly, IPGCL & PPCL have written another letter No. Comml./DERC/F.10/174 dt.20.12.2016 (copy enclosed) again requesting for appropriate action and suitable direction by the State Commission. IPGCL & PPCL have already deposited client membership fee to NVVNL for appointing NVVNL as broker for trading URS power and eagerly waiting necessary inputs from beneficiaries i.e. BRPL, BYPL, NDMC and MES and suitable directions from DERC to enter into final agreement with NVVNL for trade of URS Power. DERC have written a letter No. F.3(459)/Tariff-Engg./DERC/2016-17/Pt. File/5330/1233 dt. 12.08.2016 to MoP, GOI regarding sale of power under URS from the cheaper gas allocated. The clarification is still awaited. The matter was also discussed in 20th Commercial Sub-Meeting of Delhi State, where beneficiaries requested for all document related various correspondences made by IPGCL/PPCL so that they may able to communicate the input from their sides. The information have been emailed to representative officer of BRPL and BYPL on 20.04.2017.

GCC noted the update of IPGCL/PPCL and advised the utilities to wait for sale of URS power till clarification of DERC is received.

2.3.3 Regulation of Power to BYPL.

As on date, the following power regulations are going on to BYPL

Sr. No.	Name of the station	Installed Capacity in MW	Share of BYPL		Regulation w.e.f.
			In %age	In MW	
1	Aravali Jhajjar	1500	5.281	79	05.09.2016
2	SJVNL	1500	2.40	36	28.03.2015
	Total	3000	--	115	

BYPL representative informed the forum that all efforts are going on to lift the regulation of power from both the utilities. They also assured that there would not be any shortage of power due to above regulations.

GCC advised BYPL to make all out efforts to lift the regulation of power from Aravali and SJVN.

2.4 STATUS OF IMPLEMENTATION OF RECOMMENDATIONS OF EXPERT COMMITTEE ON GRID DISTURBANCES OCCURRED ON 30.07.2012 AND 31.07.2012 IN THE GRID.

The updated position is as under:

Clause	RECOMMENDATIONS	STATUS AS ON DATE								
9.1.1	Periodical 3 RD Party Protection Audit – Time frame – within one year	<p>The Protection Audit was completed before CWG-2010. The deficiencies pointed out and the latest status on the issue of removal of deficiencies is as under :-</p> <table border="1"> <thead> <tr> <th>S/N</th> <th>Description of Issue</th> <th>Sub-Stn</th> <th>Action taken/proposed</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>DR and Event Logger to be provided or to be kept in order</td> <td>Bamnauli</td> <td>The EL at 400kV S/Stns is in place. EL for 220kV under procurement and installation expected to be completed by December 2016. DR already available with 400kV system. DR for 220kV system is the inbuilt feature of Numerical Relays which have already been installed.</td> </tr> </tbody> </table> <p>(Basic Protection Audit carried out on 400kV S/Stn Bamnauli before CWG)</p> <p>It was also advised by NRPC that DTL should go for fresh third party protection audit of entire DTL system. In 95th OCC meeting held on 21.01.2014 at NRPC, DTL submitted the list of 25 numbers of 220kV Grids S/Stns identified for third party audit. Out of these, TPA of 400kV Mundka, 220kV Shalimar Bagh, 220kV Rohini-I and 220kV Mehrauli S/Stn were completed by 25.05.2014. The main observation was regarding replacement of static relays by Numerical relays.</p> <p>DTL representative informed that tender for replacement of old Static relays has been opened and under Technical evaluation. Price bid opened for Bus Bar Protection schemes and under process of PO awarding. PO awarded for Line differential relays.</p>	S/N	Description of Issue	Sub-Stn	Action taken/proposed	1	DR and Event Logger to be provided or to be kept in order	Bamnauli	The EL at 400kV S/Stns is in place. EL for 220kV under procurement and installation expected to be completed by December 2016. DR already available with 400kV system. DR for 220kV system is the inbuilt feature of Numerical Relays which have already been installed.
S/N	Description of Issue	Sub-Stn	Action taken/proposed							
1	DR and Event Logger to be provided or to be kept in order	Bamnauli	The EL at 400kV S/Stns is in place. EL for 220kV under procurement and installation expected to be completed by December 2016. DR already available with 400kV system. DR for 220kV system is the inbuilt feature of Numerical Relays which have already been installed.							

Clause	RECOMMENDATIONS	STATUS AS ON DATE																					
9.1.4	Complete independent audit of time synchronization of DRs, EL and PMs should be carried out - Time frame – within one month	<p>As far as IPGCL and PPCL systems are concerned, they informed that DR is available at CCGT Bawana and Pragati. EL is not required at generating stations as generators have inbuilt features of EL. PPCL / IPGCL informed the following:</p> <table border="1"> <thead> <tr> <th>Name of Utility</th> <th colspan="3">Time synchronization</th> </tr> <tr> <th></th> <th>DR</th> <th>EL</th> <th>PMU</th> </tr> </thead> <tbody> <tr> <td>DTL</td> <td>Implemented</td> <td>Implemented</td> <td rowspan="4">Not installed in DTL system</td> </tr> <tr> <td>RPH</td> <td>Not required on 33kV feeders</td> <td>Two Nos of 33 kV bays i.e. Bay No. 1 and 2 are already having Numerical relays installed. The switchyard maintenance is now being taken care of by DTL.</td> </tr> <tr> <td>PPCL</td> <td>DRs are installed at all the three units of PPS-I. The DRs are time synchronized.</td> <td>Latest numerical relays are installed on GT-1 & 2 and the process of installing Numerical relays on GRPs of STG is being done in phased manner. The same is expected to be completed in 05-06 months. Complete independent audit of time synchronization shall be carried out within one month of installation completion.</td> </tr> <tr> <td>GT</td> <td>The process of installing of DRs on the units of GTPS is being taken up on priority in phased manner. Further, 06 nos units out of nine are having numerical relays installed and the process of installing of latest numerical relays on the rest of the units is under progress in phased manner. The representative of GT informed that the work will be completed in three months</td> <td>One of the STGs relay retrofitting is planned during next overhauling. Numerical relays have been installed in almost all 66kV feeders / bays and rest are being envisaged. The same is expected to be completed in 5-6 months. Complete independent audit of time synchronization shall be carried out within one month of installation completion. The representative of GT informed that the work will be completed in three months</td> </tr> </tbody> </table>	Name of Utility	Time synchronization				DR	EL	PMU	DTL	Implemented	Implemented	Not installed in DTL system	RPH	Not required on 33kV feeders	Two Nos of 33 kV bays i.e. Bay No. 1 and 2 are already having Numerical relays installed. The switchyard maintenance is now being taken care of by DTL.	PPCL	DRs are installed at all the three units of PPS-I. The DRs are time synchronized.	Latest numerical relays are installed on GT-1 & 2 and the process of installing Numerical relays on GRPs of STG is being done in phased manner. The same is expected to be completed in 05-06 months. Complete independent audit of time synchronization shall be carried out within one month of installation completion.	GT	The process of installing of DRs on the units of GTPS is being taken up on priority in phased manner. Further, 06 nos units out of nine are having numerical relays installed and the process of installing of latest numerical relays on the rest of the units is under progress in phased manner. The representative of GT informed that the work will be completed in three months	One of the STGs relay retrofitting is planned during next overhauling. Numerical relays have been installed in almost all 66kV feeders / bays and rest are being envisaged. The same is expected to be completed in 5-6 months. Complete independent audit of time synchronization shall be carried out within one month of installation completion. The representative of GT informed that the work will be completed in three months
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RPH	Not required on 33kV feeders	Two Nos of 33 kV bays i.e. Bay No. 1 and 2 are already having Numerical relays installed. The switchyard maintenance is now being taken care of by DTL.																					
PPCL	DRs are installed at all the three units of PPS-I. The DRs are time synchronized.	Latest numerical relays are installed on GT-1 & 2 and the process of installing Numerical relays on GRPs of STG is being done in phased manner. The same is expected to be completed in 05-06 months. Complete independent audit of time synchronization shall be carried out within one month of installation completion.																					
GT	The process of installing of DRs on the units of GTPS is being taken up on priority in phased manner. Further, 06 nos units out of nine are having numerical relays installed and the process of installing of latest numerical relays on the rest of the units is under progress in phased manner. The representative of GT informed that the work will be completed in three months	One of the STGs relay retrofitting is planned during next overhauling. Numerical relays have been installed in almost all 66kV feeders / bays and rest are being envisaged. The same is expected to be completed in 5-6 months. Complete independent audit of time synchronization shall be carried out within one month of installation completion. The representative of GT informed that the work will be completed in three months																					
9.2.1	Tightening of Frequency band and be brought very close to 50Hz.	<p>CERC has already issued the amended Grid Code to be implemented from 17.02.2014 in which the allowable frequency band is 49.90Hz to 50.05Hz. The Deviation Settlement Mechanism has also been introduced according to the tightening to the frequency band. The main thrust of the amended Grid Code is the utilities should always strict to its scheduled drawal. Further, the following are the main issues:-</p> <ol style="list-style-type: none"> No over drawal by Delhi if frequency is below 49.90Hz. No under drawal by Delhi if the frequency is more than 50.05Hz. Every (12) time blocks the polarity of drawal should change. <p>In the regular OCC meetings of NRPC, the adherence of the above provisions is monitored. As far as Delhi is concerned, the main violation is occurring in respect of non change of polarity in 12 time blocks.</p> <p>The details of the violations of Delhi for last one year are as under:-</p> <table border="1"> <thead> <tr> <th>Duration</th> <th>01.09.16 to 25.09.16</th> <th>Oct.16</th> <th>Nov. 16</th> <th>Dec. 16</th> <th>01.01.17- 29.01.17</th> <th>Feb. 17</th> </tr> </thead> <tbody> <tr> <td>Violation of drawal limit 150MW if freq \geq49.7Hz and above</td> <td>OD-0 UD-2</td> <td>OD-5 UD-4</td> <td>OD-11 UD-1</td> <td>OD-11 UD-3</td> <td>OD- 14 UD-2</td> <td>OD-2 UD-1</td> </tr> <tr> <td>Violation of non polarity change of drawal</td> <td>95</td> <td>120</td> <td>144</td> <td>147</td> <td>152</td> <td>87</td> </tr> </tbody> </table>	Duration	01.09.16 to 25.09.16	Oct.16	Nov. 16	Dec. 16	01.01.17- 29.01.17	Feb. 17	Violation of drawal limit 150MW if freq \geq 49.7Hz and above	OD-0 UD-2	OD-5 UD-4	OD-11 UD-1	OD-11 UD-3	OD- 14 UD-2	OD-2 UD-1	Violation of non polarity change of drawal	95	120	144	147	152	87
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Clause	RECOM MENDATIONS	STATUS AS ON DATE						
		Duration	Mar.17	Apr.17	May-17	Jun-17	01.07.17 to 23.07.17	01.08.17 to 27.08.17
		Violation of drawal limit 150MW if freq \geq 49.7Hz and above	OD-3 UD-1	OD-10 UD-3	OD-2 UD-11	OD-5 UD-11	OD-7 UD-6	OD-3 UD-10
		Violation of non polarity change of drawal	116	125	94	86	68	96
GCC advised all utilities to ensure Grid discipline and compliance of Grid Code Regulations.								
9.4	All out efforts should be made to implement the provisions of IEGC with regard to Governor Action - POSOCO to take up the matter with Central Commission - Time frame – 3 months	<p>CERC in its order dated 31.12.2012 reiterated the need for compliance by generators and directed as to why they may not be held responsible for non-implementation of RGMO / FGMO mode of operation. A task force has been constituted by CEA under Member (Thermal), CEA to develop a procedure for testing of primary response of Generating units.</p> <p>CERC has revised the Clause regarding FGMO / RGMO as under:-</p> <p><i>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.</i></p> <p>PPCL representative intimated that they are pursuing the matter with their OEM department regarding details of RGMO / FGMO of PPCL-I & PPCL – III and expected by December 2017.</p> <p>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.</p> <p>PPCL representative intimated that they are pursuing the matter with their OEM regarding details of RGMO / FGMO of PPCL-I & PPCL –III. The same is likely to be implemented by Dec 2017 end.</p> <p>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. GCC noted the position</p>						

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9.7	<p>In order to avoid frequent outages / opening of lines under over voltages and also providing voltage support under steady state and dynamic conditions, installation of adequate reactive power compensators should be planned. Action : CTU/STUs and CEA – Time frame 6 months</p>	<p>NRPC has already concluded the study done through CPRI. During the study, it was concluded that 125MVAR reactor is required to be installed at Mandola 400kV side by Power Grid. NRPC OCC has already cleared the study and put the same for approval for NRPC meeting. NRPC has also cleared the scheme PGCIL was further advised to finalize the reactor requirement considering 1400MW minimum load instead of 2500MW considered in the study.</p> <p>As far as Capacitor requirement of Delhi is concerned, CPRI has already conducted the revised study, it is revealed from study that no additional capacitor is required to be installed in Delhi for 2017-18.</p> <p>In the last meeting, it was informed that for conducting the fresh study for requirement of Reactors, the matter was being pursued with PGCIL.</p> <p>DTL Planning Department informed that as per decision taken in 39th meeting of Standing Committee of CEA held on 29&30 May 2017, reactors at following sub-stations of DTL have been proposed:-</p> <table border="1"> <thead> <tr> <th>Sr. No</th> <th>Name of the Grid</th> <th>Reactors proposed in MVAR</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>220kV</td> <td></td> </tr> <tr> <td>1</td> <td>Narela</td> <td>25</td> </tr> <tr> <td>2</td> <td>R.K. Puram-I</td> <td>25</td> </tr> <tr> <td>3</td> <td>Patparganj-II</td> <td>2X25</td> </tr> <tr> <td>4</td> <td>Maharani Bagh (PG)</td> <td>2X25</td> </tr> <tr> <td>5</td> <td>Bamnauli</td> <td>25</td> </tr> <tr> <td>6</td> <td>Subzi Mandi</td> <td>2X25</td> </tr> <tr> <td>7</td> <td>Gopalpur</td> <td>2X25</td> </tr> <tr> <td>8</td> <td>Indraprastha</td> <td>2X25</td> </tr> <tr> <td>9</td> <td>Geeta Colony</td> <td>2X25</td> </tr> <tr> <td>10</td> <td>Harsh Vihar</td> <td>2X25</td> </tr> <tr> <td>11</td> <td>Wazirabad</td> <td>2X25</td> </tr> <tr> <td>12</td> <td>Electric Lane</td> <td>2X25</td> </tr> <tr> <td>13</td> <td>Mandola</td> <td>25</td> </tr> <tr> <td>14</td> <td>AIIMS</td> <td>2X25</td> </tr> <tr> <td>15</td> <td>Sarita Vihar</td> <td>25</td> </tr> <tr> <td>16</td> <td>Bawana</td> <td>25</td> </tr> <tr> <td>17</td> <td>Preet Vihar</td> <td>25</td> </tr> <tr> <td>18</td> <td>Mundka</td> <td>25</td> </tr> <tr> <td>19</td> <td>Masjid Moth</td> <td>25</td> </tr> <tr> <td>B</td> <td>400kV</td> <td></td> </tr> <tr> <td>1</td> <td>Maharani Bagh (PG)</td> <td>125</td> </tr> <tr> <td>2</td> <td>Mundka</td> <td>125</td> </tr> <tr> <td>3</td> <td>Mandola (PG)</td> <td>125</td> </tr> </tbody> </table> <p>Planning Department of DTL further informed that the issue will be taken up in next Steering Committee meeting of Delhi for finalization of installation.</p> <p>GCC noted.</p>	Sr. No	Name of the Grid	Reactors proposed in MVAR	A	220kV		1	Narela	25	2	R.K. Puram-I	25	3	Patparganj-II	2X25	4	Maharani Bagh (PG)	2X25	5	Bamnauli	25	6	Subzi Mandi	2X25	7	Gopalpur	2X25	8	Indraprastha	2X25	9	Geeta Colony	2X25	10	Harsh Vihar	2X25	11	Wazirabad	2X25	12	Electric Lane	2X25	13	Mandola	25	14	AIIMS	2X25	15	Sarita Vihar	25	16	Bawana	25	17	Preet Vihar	25	18	Mundka	25	19	Masjid Moth	25	B	400kV		1	Maharani Bagh (PG)	125	2	Mundka	125	3	Mandola (PG)	125
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Clause	RECOMMENDATIONS	STATUS AS ON DATE
9.12	<p>Efforts should be made to design islanding scheme based on frequency sensing relays so that in case of imminent Grid failure, electrical island can be formed. These electrical islands not only help in maintaining essential services but would also help in faster restoration of Grid.</p> <p>Action : CEA, RPCs, CTU, STUs, SLDCs and generators Time Frame : six months</p>	<p>As per CPRI Study, it was concluded that due to variation of generation in the Delhi Island envisaged earlier, the chances of survival of single island including the generation of Dadri generating complex, Jhajjar, Bawana, BTPS and Pragati generating stations would be more.</p> <p>In the last meeting, it was informed that the Islanding Scheme has been reviewed after getting approval of NRPC's Protection Committee meeting held on 30.11.2016. The scheme needs to be approved in next NRPC / TCC meeting.</p> <p>DTL representative informed that the revised Islanding Scheme approved in TCC meeting and revised settings are implemented at sites.</p> <p>However, the SAS at Minto Road needs to be upgraded as per the scheme through OEM and offer is awaited from OEM</p>
9.13 .1	<p>System Operation needs to be entrusted to independent system operator. In addition, SLDCs should be reinforced for ring fences for ensuring function autonomy.</p> <p>Action : Govt. of India, time frame : one year</p>	<p>Though Delhi SLDC is operated by DTL it has full autonomy with regard to grid operation. Further it has separate ARR approved by DERC for financial autonomy. Further a committee constituted for creation for SLDC as a separate company has already given its report to State Government. Decision is likely in line with the decision of Govt. of India on Independent System Operator (ISO).</p> <p>GCC advised SLDC to take up the matter with State Government.</p>
9.15 .2	<p>The communication network should be strengthened by putting fiber optic communication system. Further, the communication network should be maintained properly to ensure reliability of data at Load Despatch Centers.</p>	<p>Laying of 286Kms of OPGW for strengthening of communication system across Delhi is under progress.</p> <p>It was informed that work 95% of the OPGW laying work has been completed. It was also informed that the work remains only for 400kV Bamnauli - Jhatikara Double circuit line and 400kV Bamnauli- Ballabhgarh Double Ckt line. The terminal equipments have also been received. The entire would be completed after arranging proper shut-downs.</p> <p>SCADA / Communication Department of SLDC informed that the remaining work would be completed by end of November 2017.</p>

Clause	RECOMMENDATIONS	STATUS AS ON DATE
9.20	<p>For smooth operation of Grid system, it is absolutely important that all the power generating and distribution stations are connected on a very reliable telecom network.</p> <p>) A proper network may be built up preferably using MPLS (Multi Protocol Label Switching) which is simple, cost effective and reliable. In remote place where connectivity is a problem, the stations can use dedicated fiber cable from the nearest node.</p> <p>Since POWER GRID has its own fiber optic cables, practically covering all major nodes and power stations, a proper communication / IT network may be built using dedicated fibres to avoid any cyber attack on the power system.</p>	<p>CTU have informed that they already have a dedicated independent communication network in place. Further, they are in the process of developing a Grid Security Expert System (GSES) at an estimated cost of about Rs.1300 Crore which involves laying of optical fiber network costing about Rs.1100 Crore for reliable communication and control of under-frequency & df/dt relay based load shedding, etc. System will include substations of 132kV level and above.</p> <p>It was informed that the work of Delhi NCR, 95% of the OPGW laying work has been completed. It was also informed that the work remains only for 400kV Bamnauli – Jhatikara Double circuit line and 400kV Bamnauli – Ballabgarh double ckt line The terminal equipments have been also received. The entire would be completed after arranging proper shut-downs.</p> <p>SCADA / Communication Department of SLDC informed that the remaining work would be completed by end of November 2017.</p>

3 OPERATIONAL ISSUES

3.1 POWER SUPPLY POSITION

A) The power supply position for Winter 2017-18 (October 2017 to March 2018) is anticipated as under:-

DELHI AS A WHOLE										
MONTH	1st fortnight					2nd fortnight				
	00-10	10-18	18-22	22-24		00-10	10-18	18-22	22-24	
OCTOBER 2017										
DEMAND	4800	5200	5200	5000		3550	4000	4100	3500	
AVAILABILITY	5322	5445	5539	5385		4862	4985	5179	5025	
SURPLUS (+) / SHORTAGE (-)	522	245	339	385		1312	985	1079	1525	
NOVEMBER 2017										
DEMAND	2600	3400	3300	3600	2700	2400	3300	3000	3000	3050
AVAILABILITY	3917	4314	4037	4464	3917	3917	4319	4042	4469	3917
SURPLUS (+) / SHORTAGE (-)	1317	914	737	864	1217	1517	1019	1042	1469	867

MONTH	1st Fortnight					2nd fortnight				
	00-10	10-18	18-22	22-24		00-10	10-18	18-22	22-24	
DECEMBER 2017	00-06	06-12	12-18	18-22	22-24	00-06	06-12	12-18	18-22	22-24
DEMAND	2400	3500	3200	3200	2300	2500	4000	3600	3400	2400
AVAILABILITY	4034	4603	4284	4646	4062	4042	4634	4327	4689	4042
SURPLUS (+) / SHORTAGE (-)	1634	1103	1084	1446	1762	1542	634	727	1289	1642
JANUARY 2018	00-06	06-12	12-18	18-22	22-24	00-06	06-12	12-18	18-22	22-24
DEMAND	2000	4050	3900	3500	2750	2250	4250	3800	3600	2800
AVAILABILITY	3999	4667	4274	4551	3974	3974	4582	4269	4631	3974
SURPLUS (+) / SHORTAGE (-)	1999	617	374	1051	1224	1724	332	469	1031	1174
FEBRUARY 2018	00-06	06-12	12-18	18-22	22-24	00-06	06-12	12-18	18-22	22-24
DEMAND	2600	3950	3550	3350	2650	2600	3750	3550	3250	2500
AVAILABILITY	4154	4561	4254	4736	4154	4254	4656	4379	4786	4254
SURPLUS (+) / SHORTAGE (-)	1554	611	704	1386	1504	1654	906	829	1536	1754
MARCH 2018	00-10	10-18	18-22	22-24		00-10	10-18	18-22	22-24	
DEMAND	3450	3600	3350	2550		3700	3800	3900	3400	
AVAILABILITY	4191	4469	4753	4539		4472	4744	4954	4711	
SURPLUS (+) / SHORTAGE (-)	741	869	1403	1989		772	944	1054	1311	

BRPL										
MONTH	1st Fortnight					2nd fortnight				
	00-10	10-18	18-22	22-24		00-10	10-18	18-22	22-24	
OCTOBER 2017										
DEMAND	1987	2139	2172	2099		1443	1625	1689	1454	
AVAILABILITY	2200	2293	2410	2293		1980	2073	2289	2173	
SURPLUS (+) / SHORTAGE (-)	213	154	238	194		537	448	601	719	
NOVEMBER 2017	00-06	06-12	12-18	18-22	22-24	00-06	06-12	12-18	18-22	22-24
DEMAND	1085	1390	1344	1487	1116	997	1351	1217	1223	1269
AVAILABILITY	1442	1726	1517	1876	1442	1442	1731	1522	1881	1442
SURPLUS (+) / SHORTAGE (-)	357	336	173	390	327	445	381	305	658	173
DECEMBER 2017	00-06	06-12	12-18	18-22	22-24	00-06	06-12	12-18	18-22	22-24
DEMAND	995	1432	1309	1313	942	1034	1638	1467	1397	982
AVAILABILITY	1537	1944	1692	1986	1565	1545	1944	1735	2029	1545
SURPLUS (+) / SHORTAGE (-)	542	512	383	673	623	511	306	268	633	564
JANUARY 2018	00-06	06-12	12-18	18-22	22-24	00-06	06-12	12-18	18-22	22-24
DEMAND	802	1682	1586	1423	1113	911	1741	1553	1476	1140
AVAILABILITY	1510	1979	1690	1899	1485	1485	1894	1685	1979	1485
SURPLUS (+) / SHORTAGE (-)	709	297	104	476	372	574	153	132	504	345
FEBRUARY 2018	00-06	06-12	12-18	18-22	22-24	00-06	06-12	12-18	18-22	22-24
DEMAND	1076	1627	1454	1377	1080	1076	1553	1463	1337	1019
AVAILABILITY	1540	1804	1595	2009	1540	1640	1929	1720	2059	1640
SURPLUS (+) / SHORTAGE (-)	464	177	141	632	460	564	377	257	722	621
MARCH 2018	00-10	10-18	18-22	22-24		00-10	10-18	18-22	22-24	
DEMAND	1421	1458	1370	1032		1522	1537	1610	1397	
AVAILABILITY	1525	1773	2020	1843		1763	2005	2178	1972	
SURPLUS (+) / SHORTAGE (-)	104	315	649	811		241	468	568	575	

BYPL										
MONTH	1st fortnight					2nd fortnight				
	00-10	10-18	18-22	22-24		00-10	10-18	18-22	22-24	
OCTOBER 2017										
DEMAND	1149	1237	1256	1214		834	940	977	841	
AVAILABILITY	1234	1241	1250	1241		1166	1173	1181	1173	
SURPLUS (+) / SHORTAGE (-)	85	4	-6	27		331	233	205	332	
NOVEMBER 2017	00-06	06-12	12-18	18-22	22-24	00-06	06-12	12-18	18-22	22-24
DEMAND	627	804	777	860	645	577	781	704	707	734
AVAILABILITY	894	919	904	919	894	894	919	904	919	894
SURPLUS (+) / SHORTAGE (-)	266	115	127	59	248	317	138	200	212	160
DECEMBER 2017	00-06	06-12	12-18	18-22	22-24	00-06	06-12	12-18	18-22	22-24
DEMAND	575	828	757	759	545	598	947	848	808	568
AVAILABILITY	908	983	968	983	908	908	1014	968	983	908
SURPLUS (+) / SHORTAGE (-)	332	155	211	224	363	309	66	120	176	340
JANUARY 2018	00-06	06-12	12-18	18-22	22-24	00-06	06-12	12-18	18-22	22-24
DEMAND	464	973	917	823	644	527	1007	898	853	659
AVAILABILITY	925	1036	985	1000	925	925	1036	985	1000	925
SURPLUS (+) / SHORTAGE (-)	461	63	68	177	281	398	29	87	147	265
FEBRUARY 2018	00-06	06-12	12-18	18-22	22-24	00-06	06-12	12-18	18-22	22-24
DEMAND	622	941	841	796	625	622	898	846	773	589
AVAILABILITY	975	1031	985	1000	975	975	1000	985	1000	975
SURPLUS (+) / SHORTAGE (-)	352	90	144	204	350	352	102	139	227	385
MARCH 2018	00-10	10-18	18-22	22-24		00-10	10-18	18-22	22-24	
DEMAND	822	843	792	597		880	889	931	808	
AVAILABILITY	969	976	984	976		985	992	1000	992	
SURPLUS (+) / SHORTAGE (-)	147	133	192	379		105	103	69	184	

TPDDL										
MONTH	1st Fortnight					2nd fortnight				
	00-10	10-18	18-22	22-24		00-10	10-18	18-22	22-24	
OCTOBER 2017										
DEMAND	1388	1494	1517	1467		1008	1135	1180	1016	
AVAILABILITY	1552	1575	1544	1515		1470	1493	1462	1433	
SURPLUS (+) / SHORTAGE (-)	163	81	27	48		462	358	282	417	
NOVEMBER 2017	00-06	06-12	12-18	18-22	22-24	00-06	06-12	12-18	18-22	22-24
DEMAND	758	971	939	1039	779	696	943	850	854	887
AVAILABILITY	1335	1422	1370	1422	1335	1335	1422	1370	1422	1335
SURPLUS (+) / SHORTAGE (-)	577	451	431	383	556	638	479	520	568	448
DECEMBER 2017	00-06	06-12	12-18	18-22	22-24	00-06	06-12	12-18	18-22	22-24
DEMAND	695	1000	914	917	658	723	1144	1025	976	686
AVAILABILITY	1343	1430	1378	1430	1343	1343	1430	1378	1430	1343
SURPLUS (+) / SHORTAGE (-)	648	430	463	513	685	620	286	353	454	657
JANUARY 2018	00-06	06-12	12-18	18-22	22-24	00-06	06-12	12-18	18-22	22-24
DEMAND	560	1175	1108	994	778	637	1216	1085	1031	796
AVAILABILITY	1318	1405	1353	1405	1318	1318	1405	1353	1405	1318
SURPLUS (+) / SHORTAGE (-)	758	230	245	411	540	681	189	268	374	522
FEBRUARY 2018	00-06	06-12	12-18	18-22	22-24	00-06	06-12	12-18	18-22	22-24
DEMAND	752	1137	1016	962	755	752	1085	1022	934	712
AVAILABILITY	1393	1480	1428	1480	1393	1393	1480	1428	1480	1393
SURPLUS (+) / SHORTAGE (-)	641	343	412	518	638	641	395	406	546	681
MARCH 2018	00-10	10-18	18-22	22-24		00-10	10-18	18-22	22-24	
DEMAND	992	1019	957	721		1063	1074	1124	976	
AVAILABILITY	1478	1501	1530	1501		1478	1501	1530	1501	
SURPLUS (+) / SHORTAGE (-)	485	482	573	780		415	427	406	525	

NDMC										
MONTH	1st fortnight					2nd fortnight				
	00-10	10-18	18-22	22-24		00-10	10-18	18-22	22-24	
OCTOBER 2017										
DEMAND	240	290	215	180		230	260	220	150	
AVAILABILITY	292	292	292	292		228	228	228	228	
SURPLUS (+) / SHORTAGE (-)	52	2	77	112		-2	-32	8	78	
NOVEMBER 2017	00-06	06-12	12-18	18-22	22-24	00-06	06-12	12-18	18-22	22-24
DEMAND	100	200	200	180	120	100	190	190	180	120
AVAILABILITY	228	228	228	228	228	228	228	228	228	228
SURPLUS (+) / SHORTAGE (-)	128	28	28	48	108	128	38	38	48	108
DECEMBER 2017	00-06	06-12	12-18	18-22	22-24	00-06	06-12	12-18	18-22	22-24
DEMAND	100	200	180	170	120	110	230	220	180	130
AVAILABILITY	228	228	228	228	228	228	228	228	228	228
SURPLUS (+) / SHORTAGE (-)	128	28	48	58	108	118	-2	8	48	98
JANUARY 2018	00-06	06-12	12-18	18-22	22-24	00-06	06-12	12-18	18-22	22-24
DEMAND	140	180	250	220	180	140	240	230	200	170
AVAILABILITY	228	228	228	228	228	228	228	228	228	228
SURPLUS (+) / SHORTAGE (-)	88	48	-22	8	48	88	-12	-2	28	58
FEBRUARY 2018	00-06	06-12	12-18	18-22	22-24	00-06	06-12	12-18	18-22	22-24
DEMAND	120	210	200	180	150	120	180	180	170	140
AVAILABILITY	228	228	228	228	228	228	228	228	228	228
SURPLUS (+) / SHORTAGE (-)	108	18	28	48	78	108	48	48	58	88
MARCH 2018	00-10	10-18	18-22	22-24		00-10	10-18	18-22	22-24	
DEMAND	180	240	190	160		200	260	200	180	
AVAILABILITY	201	201	201	201		228	228	228	228	
SURPLUS (+) / SHORTAGE (-)	21	-39	11	41		28	-32	28	48	

MES										
MONTH	1st fortnight					2nd fortnight				
	00-10	10-18	18-22	22-24		00-10	10-18	18-22	22-24	
OCTOBER 2017										
DEMAND	35	40	40	40		35	40	35	40	
AVAILABILITY	44	44	44	44		18	18	18	18	
SURPLUS (+) / SHORTAGE (-)	9	4	4	4		-17	-22	-17	-22	
NOVEMBER 2017	00-06	06-12	12-18	18-22	22-24	00-06	06-12	12-18	18-22	22-24
DEMAND	30	35	40	35	40	30	35	40	35	40
AVAILABILITY	18	18	18	18	18	18	18	18	18	18
SURPLUS (+) / SHORTAGE (-)	-12	-17	-22	-17	-22	-12	-17	-22	-17	-22
DECEMBER 2017	00-06	06-12	12-18	18-22	22-24	00-06	06-12	12-18	18-22	22-24
DEMAND	35	40	40	40	35	35	40	40	40	35
AVAILABILITY	18	18	18	18	18	18	18	18	18	18
SURPLUS (+) / SHORTAGE (-)	-17	-22	-22	-22	-17	-17	-22	-22	-22	-17
JANUARY 2018	00-06	06-12	12-18	18-22	22-24	00-06	06-12	12-18	18-22	22-24
DEMAND	35	40	40	40	35	35	45	35	40	35
AVAILABILITY	18	18	18	18	18	18	18	18	18	18
SURPLUS (+) / SHORTAGE (-)	-17	-22	-22	-22	-17	-17	-27	-17	-22	-17
FEBRUARY 2018	00-06	06-12	12-18	18-22	22-24	00-06	06-12	12-18	18-22	22-24
DEMAND	30	35	40	35	40	30	35	40	35	40
AVAILABILITY	18	18	18	18	18	18	18	18	18	18
SURPLUS (+) / SHORTAGE (-)	-12	-17	-22	-17	-22	-12	-17	-22	-17	-22
MARCH 2018	00-10	10-18	18-22	22-24		00-10	10-18	18-22	22-24	
DEMAND	35	40	40	40		35	40	35	40	
AVAILABILITY	18	18	18	18		18	18	18	18	
SURPLUS (+) / SHORTAGE (-)	-17	-22	-22	-22		-17	-22	-17	-22	

While finalizing the power supply position, the following aspects have been considered:-

- i) Allocation of Discoms has been revised as per DERC order dated 31.08.2017 implemented from 03.09.2017.

- ii) Availability from Bawana CCGT has been considered as 400MW.
- iii) Availability from BTPS has been considered as NIL after 15.10.17 as per DPCC order.
- iv) Availability from GT has been considered as 75MW, BTPS - NIL (from 15.10.2017) and Pragati 150 MW during winter months (Oct to March)
- v) Availability from Jhajjar is considered as 693MW (622MW at Delhi periphery).

From the above, it is evident that Discoms except NDMC and MES are having huge surplus especially during winter nights.

GCC advised Discoms to make necessary arrangements to dispose off surplus power during off peak hours especially during night hours.

B) High Voltage Operation of the Grid during Winter nights.

SLDC informed that winter season is going to start. It has been observed that generally Delhi injects reactive power to the Grid especially during winter nights. The details of reactive drawal in MVARH by Delhi during the months November 2016 to March 2017 are as under:-

Import Points	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17
BTPS	1380	-18996	-18047	-8285	24869
NARELA BBMB	-1405	-2539	-2460	-2743	-2715
NARELA DTL	12	-1637	-982	594	24.2
ROHTAK ROAD	76	189	307	-744	318.9
BAMNAULI	-41416	-44910	-24030	-38270	-59409.7
BAWANA	-5514	-10332	-6603	-5352	-5533.8
MAHARANIBAGH	-12986	-6949	-792	-6117	-12375
MANDOLA	4496	-31272	-11335	6578	4853.1
MUNDKA	-34053	-15006	-7934	-7458	-3285.6
MVARH EXPORT	-89410	-131451	-71876	-61795	-53253.9
Payment to NRLDC Pool by Delhi in Rs. Lacs	116.21	170.86	93.42	80.32	73.78

In case of energy, (-)ve indicates injection and in case of amount (-)ve indicates receivable.

From the above, it is seen that Delhi injecting reactive power to the Grid during high voltage conditions in winter months which has resulted to the payment to reactive pool accounts inspite of various steps taken by Delhi SLDC, Generators and Discoms.

Last year, to control high voltages, various steps like opening of 33 nos. of 220kV lines apart from opening of 26 nos. of 66kV lines & 26 nos. of 33 kV lines by respective Discoms and optimization of transformer tap at various 400/220kV sub stations were taken. Delhi generators also contributed by absorbing reactive power during high voltage conditions to the extent possible.

In view of the above, this year also, Delhi generators and Grid S/Stns of DTL and Discoms have to take corrective measures to curb reactive injection to the Grid during high voltage conditions as the voltage profile of Grid is likely to be same as previous years. To avoid high voltage conditions and payment to NRPC pool account, stakeholders of Delhi needs to take corrective measures on real time basis such as

- i) Monitoring of capacitors bank according to voltage profile of Grid.
- ii) During high voltage conditions, Delhi generators should absorb reactive power or minimize generation of reactive power.
- iii) Tap position of transformers at DTL's Grid to be monitored.
- iv) Grid S/Stns staff should be trained for operation of capacitor banks and Pr. Tr. Tap position as per voltage conditions of Grid.
- v) Distribution licensees should also monitor capacitor banks operation round the clock and avoid injection during high voltage conditions.
- vi) Lightly loaded lines, especially cables circuits should kept open from the grids during high voltage conditions.

After deliberation, all Stakeholders assured GCC that all efforts would be taken by them to minimize the injection of reactive power to the Grid especially during high voltage conditions. To control the high voltage issue, GCC advised the following

- i)Generators to absorb reactive power during high voltage regime as per their capability curve.**
- ii)DTL to form a Committee to look into high voltage issue including payment of Weekly Reactive Energy Charges bill to NRPC as Discom wise Weekly Reactive Accounts are managed by C&RA Department of DTL and Reactive Energy Charges at Regional level is paid by SLDC.**
- iii)DTL for early commissioning of Reactors at various locations.**

3.2 SYSTEM IMPROVEMENT WORKS PLANNED FOR ENSURING RELIABLE SUPPLY IN DELHI.

A) TRANSMISSION SYSTEM

Based on the series of meetings taken by Secretary (Power), GNTD, the transmission system improvement works planned to ensure reliable power supply in the areas of TPDDL, BRPL and BYPL are as under:-

TPDDL Area

Sr. No	Details of transmission bottleneck	Remedial measures	Target for commissioning	Status as updated in 18 th GCC meeting.
1	Only one 220/66kV 100MVA Tx. is available at Gopalpur. System reliability issue due to non availability of contingency in the event of outage of this transformer. No 66kV bay at Gopalpur to feed TPDDL's 66kV DJB.	Augmentation of transformation capacity with 2 nos. 220/66kV 160MMVA Txs along with 66kV GIS	Feb. 2019	The tender shall be opened on 21.11.17. The target for completion period is 15 months from the date of award of tender.

Sr. No	Details of transmission bottleneck	Remedial measures	Target for commissioning	Status as updated in 18 th GCC meeting.
2	Commissioning of 220kV SGTN- TPDDL already laid 4 circuits to get feed from this S/Stn	--	Feb. 2019	The tender shall be opened on 21.11.17. The target for completion period is 18 months from the date of award of tender.
3	Commissioning of 220/66kV Tikri Khurd S/Stn.	Due to non picking up of load envisaged to be fed from the sub-station, the plan has been deferred to 2021-22.		
4	220kV Subzi Mandi – Radial feeder. No plan for contingency available	220kV Chandrawal S/Stn and 220kV Dev Nagar S/Stn	Timapur : Feb. 19 Dev Nagar: Feb 19	For Timapur: Due to space constraints and infeed issues, the site of the Chandrawal has been shifted to Timapur. For Dev Nagar : The Board of Directors of DTL has approved the Scheme for Dev Nagar Sub-station in its meeting held on 26.09.17.
5	220kV Narela – Rohtak road double circuit owned by BBMB – no redundancy – frequent trippings of 220kV Narela – Rohtak Road Ckts	Commissioning of 220kV Punjabi Bagh S/Stn.	2019-20	Land is to be identified
6	Commissioning of 400kV ISTS Maharani Bagh	Due to outlet constraints, site shifted to Gopalpur	2020-21	In the 39 th Standing Committee Meeting of Power System Planning for Northern Region (CEA) held on 29 th & 30 th May, 2017, it was decided to establish 400kV S/Stn. at Gopalpur at Intra State Level by DTL.

BRPL Areas

Sr. No	Details of transmission bottleneck	Remedial measures	Target for commissioning	Remarks
1	BTPS Island Any one 210MW unit trips or 220kV BTPS – Ballabhgarh Ckt trips, load shedding in South Delhi for longer duration in summer	Commissioning of 400kV ISTS at Tuglakabad. Augmentation of 220kV Samaypur – Ballabhgarh – BTPS circuits	March 2018 (on best efforts basis) The matter is with CEA. To be pursued	The matter of augmentation of 220kV Samaypur – Ballabhgarh- BTPS link capacity was discussed in the summer preparedness meeting held on 31.03.2017 chaired by Secretary (Power), Govt. of India. The Chairman CEA was advised to resolve the issue at the earliest. However, the commissioning of Tughlakabad ISTS with outlets would ease the loading. The HTLS re-conductoring of the 220kV BTPS – Ballabhgarh D/C line would require long shutdowns which are not possible due to less generation of BTPS during Summer months and no generation during winter months due to pollution stipulations.
2	220kV BTPS – Okhla double circuit line - Radial feeder Fully loaded S/Stn Okhla - no contingency in case of failure of supply from BTPS and load shedding occurs in case of tripping of one of the circuit.	- Commissioning of 400kV ISTS Tuglakabad. - Augmentation of transformation capacity from 200MVA to 300MVA at Masjid Moth	March 2018 (on best efforts basis) -Already augmented -	
3	Over loading of 220kV Bamnauli – Mehrauli – BTPS link	Commissioning of 400kV Tuglakabad by PGCIL -Augmentation of circuits with HTLS conductors	March 2018 (on best efforts basis) Target of 220kV Bamnauli – Mehrauli Ckt – Dec-2017 (on best efforts basis) Mehrauli – BTPS by March 2018(on best efforts basis)	Tender under awarding stage

Sr. No	Details of transmission bottleneck	Remedial measures	Target for commissioning	Remarks
4	Augmentation of 66/11kV 20MVA Txs at Pappankalan-I & Najafgarh	BRPL to provide 31.5MVA Tx to DTL on loan basis.	March 2017	In the OCC meeting held on 28.03.2017, BRPL intimated that they do not have any spare capacity to share. Even out of six 31.5MVA transformers ordered, only 4 transformers are under dispatch to be erected in their own system. However, OCC advised DTL to place the requisition to BRPL to that this can be procured and made available at least by next summer. SLDC records also show that no urgency in this matter considering the load conditions.
5	Over loading of 220kV Bamnauli – Pappankalan -I Ckt-I &II No redundancy in case of failure of supply from 400kV Bamnauli. Even tripping one ckt. would be resulting to load shedding in the areas fed from Pappankalan-I	Establishment of LILO of one of the Ckt between Naraina and Bamnauli at Pappankalan-I as a temporary measure till the commissioning of 400kV ISTS at Dwarka	LILO by 31.07.2017 and 400kV ISTS Dwarka by March 2019	At present 220kV Pappankalan-I is having 2 nos. of 220/66kV 160MVA Txs and 2 nos. of 220/66kV 100MVA Txs. As such transformation ratio is not an issue. LILO of 220kV Bamnauli – Naraina Ckt has been done a Pappankalan-I on 08.11.2017 at 19.40hrs.
6	Augmentation of transformation capacity at Lodhi Road from present level of 200MVA to 300MVA with the commissioning of 220kV GIS at Lodhi Road as at present no redundancy in case of outage of any transformer or 220kV Maharani Bagh – Lodhi Road Ckts	Commissioning of 220kV GIS with additional 220/33kV 100MVA Tx.	commissioned	At present, 200 MVA capacity is available at Lodhi Road. Additional 100 MVA would be available after replacement of damaged transformer by next summer.

Sr. No	Details of transmission bottleneck	Remedial measures	Target for commissioning	Remarks
7	Augmentation of transformation capacity at AIIMS from present level of 200MVA to 300MVA to have (n-1) contingency. 33kV additional 4 bays are also required to accommodate BRPL's 33kV AIMS-II S/Stn(2 bays), 33kV Hudco and 33kV NDSE-II feeder	33kV bays extension has been finalized in the Steering Committee meeting held on 06.10.2016. The additional Tx is proposed in 2019-20.		
8	Provision of 66kV feed in Jhatikara area	Proposal to be dropped in view of the revised requirement and site feasibility conditions.		
9	11kV feed to Fatehpur Beri S/Stn of BRPL	The permission for provisional arrangement for creation of RMU at Mehrauli S/Stn has been given to BRPL		

Other works				
S.No.	Scheme Details	Agency	Previous Target	Status as updated in 18 th GCC meeting
A	Schemes need Immediate attention			
1	220 kV Grid Substation at Ghummanhera / Jhatikalan	DTL	Immediate	Creation of 66kV level at 400kV Bamnauli S/Stn DTL. BRPL and DTL would carry the load requirement and draw out further course of action.
2	Allocation of 2 Nos. 11 kV Panels at 220 kV Mehrauli for temporary supply to Fatehpur Beri Area to meet the load of Summer 2017	DTL	Immediate	Immediate. RMU to be installed at Mehrauli sub-station of DTL after joint site visit. 66kV regular feed from Mehrauli to Fatehpur Beri is also being expedited.
B	Schemes for meeting Summer 2017 & 2018			
3	220/66KV S/Stn at Papankalan-III	DTL	Nov.-2017	
4	S/C LILO Bamnauli-Naraina at Papankalan-I	DTL	Nov. 2017	
5	Additional Pr. Tr. at Peeragarhi	DTL	Mar-17	Already done
6	HTLS conductor D/C Bamnauli-Mehrauli-BTPS	DTL	Mar-17	Tender under award stage
7	400/220KV GIS at Tuglakabad	PGCIL	Mar-18	

8	LILO of 400kV D/C Bamnauli – Samaypur O/H line at Tughlakabad	PGCIL	Mar-18	
9	220/66KV GIS at Tughlakabad	DTL	Mar-18	
10	LILO 220kV Mehrauli BTPS at Tughlakabad	DTL	Mar-18	
11	220 kV Tughlakabad - Masjid Moth	DTL	Mar-18	
12	220 kV Tughlakabad - Okhla	DTL	Mar-18	
13	400/220KV GIS at Dwarka	PGCIL	2018-19	
14	400KV S/C LILO Bamauli-Jhatikalan at Dwarka	PGCIL	2018-19	
15	220/66KV GIS at Budella	DTL	2019-20	
16	LILO of Najafgarh-Bamnauli S/C O/H at Budella	DTL	2020-21	
17	Dwarka - Bodella U/G Cables	DTL	2019-20	
18	S/C LILO Bamnauli-Najafgarh at Papankalan-II	DTL	-	Scheme under revision
C	Schemes for meeting demand of Summer 2018 & 2019			
1	LILO of D/C U/G Ridge Valley-AIIMS at RKPuram	DTL	2018-19	
2	220/66KV and 220/33KV GIS at R K Puram	DTL	2018-19	
3	220kV D/C Tughlakabad – Masjid Moth U/H line from 400 kV Tughlakabad	DTL	2018-19	Due to EPCA stipulations, the entire portion is now planned as under ground cables.
4	220kV D/C Masjid Moth – Okhla U/G line	DTL		Separate source from Tughlakabad to Masjid and Okhla is envisaged
5	220/33KV GIS at Punjabi Bagh (Jakhira)	DTL	2019-20	Land yet to be identified
6	220/33KV GIS at Janakpuri	DTL		Dropped
7	220/33KV GIS at Jasola	DTL		Dropped due to establishment of 220IV S/Stn at BTPS.
8	220/33KV GIS at Maharani Bagh	DTL	2019-20	Under tendering
9	LILO of Second S/C Pragati - Sarita Vihar at 400 KV Maharani Bagh	DTL	2018-19	To be taken up with the commissioning of 220/33kV GIS at Maharani Bagh
10	220/33KV GIS at Nehru Place	DTL	2020-21	
11	LILO of 220kV D/C Masjid Moth – Maharani Bagh at Nehru Place	DTL	2020-21	

12	Establishment of 220kV Bharthal S/Stn and associated feed	DTL	2020-21	
13	Establishment of 220kV S/Stn at Nehru Place and associated in feed	DTL	2020-21	
14	Taking over of BTPS 220kV yard	DTL	Oct-2017	Planning Department to complete the paper work for taking over. The mater is being regularly pursued with BTPS.

BYPL Areas

Transmission System works related to BYPL area

S. No.	Scheme	Implementing Agency (DTL/PGCIL)	Previous Target Date	Target dates as per Secretary (Power) meeting on 16.01.2017 / Latest status																																							
1	220/33 kV GIS at Preet Vihar	PGCIL / DTL	Dec-16	<p>One Tx. commissioned on 09.03.2017. The 2nd 100 MVA Tx has also been commissioned on 20.07.2017 (HV side). BYPL has given the evacuation plan as under:</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Name of the 33kV feeder</th> <th>Status/Target Year of commissioning</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CBD-I Grid</td> <td>Energised</td> </tr> <tr> <td>2</td> <td>Preet Vihar Grid</td> <td>Energised</td> </tr> <tr> <td>3</td> <td>Guru Anand Nagar Grid</td> <td>17-18</td> </tr> <tr> <td>4</td> <td>Shakar Pur Grid</td> <td>17-18</td> </tr> <tr> <td>5</td> <td>Dwarkapuri Grid</td> <td>18-19</td> </tr> <tr> <td>6</td> <td>CBD-II Grid</td> <td>18-19</td> </tr> <tr> <td>7</td> <td>DSIDC Jhilmil Grid</td> <td>19-20</td> </tr> <tr> <td>8</td> <td>GT Road Grid</td> <td>19-20</td> </tr> <tr> <td>9</td> <td>Karkardooma Grid</td> <td>18-19</td> </tr> <tr> <td>10</td> <td>Kanti Nagar Grid</td> <td>20-21</td> </tr> <tr> <td>11</td> <td>Laxmi Nagar District Centre Ckt-I</td> <td>19-20</td> </tr> <tr> <td>12</td> <td>Laxmi Nagar District Centre Ckt-II</td> <td>19-20</td> </tr> </tbody> </table> <p>BYPL informed that the 4 no. remaining 33kV feeders shall be utilised in future for meeting the requirement of huge complex infrastructure coming in Karkardooma.</p>	S. No.	Name of the 33kV feeder	Status/Target Year of commissioning	1	CBD-I Grid	Energised	2	Preet Vihar Grid	Energised	3	Guru Anand Nagar Grid	17-18	4	Shakar Pur Grid	17-18	5	Dwarkapuri Grid	18-19	6	CBD-II Grid	18-19	7	DSIDC Jhilmil Grid	19-20	8	GT Road Grid	19-20	9	Karkardooma Grid	18-19	10	Kanti Nagar Grid	20-21	11	Laxmi Nagar District Centre Ckt-I	19-20	12	Laxmi Nagar District Centre Ckt-II	19-20
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6	CBD-II Grid	18-19																																									
7	DSIDC Jhilmil Grid	19-20																																									
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S. No.	Scheme	Implementing Agency (DTL/PGCIL)	Previous Target Date	Target dates as per Secretary (Power) meeting on 16.01.2017 / Latest status
2	2 No. 33kV bay Addition at 220/33kV Geeta Colony substation	DTL	Mar-17	Both bays are ready for energization. Cables yet to be connected by BYPL.
3	Addition of Four Bays at 220 KV Park Street Grid	DTL	Mar-17	DTL expressed inability to arrange 04 numbers Bays before March 2017. It was decided that DTL will commissioned 2 nos. of additional bays by 25th March 2017 and BYPL will ensure laying of additional cable for Shankar Road and Prasad Nagar simultaneously so that power is evacuated immediately after commissioning of 2 nos. bays. However, DTL has already completed 2 bays. The other two bays would be completed by December 2017.
4	Replacement of the existing conductor with the HTLS conductor in the 220 KV Mandola-Wazirabad circuit	DTL	-	Considering the commissioning of 220kV Harsh Vihar – Patparganj D/C link and the proposed 400kV substation at Gopalpur, the augmentation of conductors is not considered necessary at present.
5	In feed constraint at the following places Shankar Road, Prasad Nagar, DMS, Delhi Gate, GT Road Dwarkapuri, Kondli	DTL	DTL to start the work at Dev Nagar	The scheme for 220kV Dev Nagar has been approved by the Board of Directors of DTL on 26.09.17. Further, additional bays are being created at 220kV Gazipur and Patparganj.

B) DISTRIBUTION SYSTEM AUGMENTATION.

BYPL (2016-17)

S. No.	Details of augmentation	Scheduled completion date	DTL's integration requirement & updated status
1	Establishment of 33/11 KV I/D GIS Grid Sub-Stn with 2X25MVA, Power Transf. at Tibia College	March' 18	Two Nos. 33kV bays are to be made ready by DTL at Park Street 220 KV Grid by March 2018.
2	Providing In-feed to the Tibia College from 220 KV Park Street	March' 18	----same as above----
3	GH-II 25 MVA	November' 17	
4	Dallupura 25 MVA	November' 17	-
5	Ghonda 25 MVA	Feb.' 18	-
6	Dwarkapuri 25 MVA	June' 17	Already energised
7	15 to 25 MVA BG Road	Dec' 17	-
8	Conversion of O/H portion into U/G cable from 33kV Narayna to DMS	November' 17	-

S. No.	Details of augmentation	Scheduled completion date	DTL's integration requirement & updated status
9	Replacement of Old CRP	March 18	-
10	220kV Preet Vihar to Preet Vihar and CBD-I	1)June'2017 2)June'2017 S. No. 3) to 8) will be proposed in coming financial years	1. Preet Vihar – energized in June 2017 2. CBD-1 – energized in June 2017 3. CBD-2 -2017-18 4. Dwarka puri 2017-18 5. Jhilmil Indl. Area2017-18 6. GT Road -2017-18 7. Karkardooma-2017-18 8. Kanti Nagar-2017-18
11	220kV Preet Vihar to Guru Angad Nagar and ShakarPur By LILO	Dec' 17	-do-
12	Addition 25 MVA at Vivek Vihar	July' 17	Energised in Aug 17
13	Shifting of EHV network at NH-24 due to widening of Road by NHAI	WIP	60 % work completed. Rest as per providing duct/ROW by NHAI

BYPL(2017-18)

S. No.	Details of priority work for FY 2017-18	Scheduled completion date	DTL's integration requirement and updated status
1	Establishment of 33/11 KV I/D GIS with 2X25MVA, Pr. Tr. at Laxmi Nagar District Centre	Shall be taken up in 2018-19	Allocation of two bays at Preet Vihar 220 KV Grid
2	Providing In-feed to the Proposed Laxmi Nagar grid from 220kV Preet Vihar Grid	Shall be taken up in 2018-19	----same as above----
3	Add. 25 MVA at DSIDC Jhilmil	Shall be taken up in 2018-19	-
4	Additional 25 MVA at Mayur Vihar-1	Feb' 18	-
5	16 to 25 MVA BG Road	Dec' 17	-
6	16 to 25 MVA Kailash Nagar	Shall be taken up in 2018-19	-
7	16 to 25 MVA Fountain	Shall be taken up in 2018-19	-
8	16 to 25 MVA CBD-1	Shall be taken up in 2018-19	-
9	16 to 25 MVA Jama Masjid	Shall be taken up in 2018-19	-
10	Preet Vihar To Kanti Nagar and Dwarkapuri with Additional Bay	Shall be taken up in 2018-19	
11	Laying of new 33 KV feeder from Park Street to Shankar Road	March' 18	One no. 33kV bay is to be made ready by DTL at Park Street. BYPL is laying OFC for protection, so provision of Line Differential Relay is to be done by DTL in the C&R Panel of this bay.
12	Laying of new 33 KV feeder from Park Street to Prasad Nagar	March' 18	

BRPL (2016-17)

S. No.	Details of augmentation proposed	Schedule d completed	DTL's integration requirement and updated status
1	Additional Pr. Tr. at Jamia	Completed	Commissioning of 220/33 kV S/Stn. at Maharani Bagh. Board of Directors of DTL has approved the scheme in its meeting held on 26.12.2015. 220/33kV GIS is also envisaged to be established by Power grid in MoU Route on behalf of DTL. All possible efforts are taken for commissioning of S/Stn. by Dec 2018 as minimum time line for completion of such type of GIS is 2 years.
2	ETC of 4th additional 66/11 kV 25MVA Power Tx at G-3 Bindapur Grid S/Stn.	Completed	-
3	Augmentation of PTR-1 & 3 at 33/11 kV Mukherjee park Grid Substation from 2x16 MVA to 2x25MVA	Scheme modified 1x25 MVA . 2 nd Tx has been augmented on 20.02.17.	Commissioning of 220 kV Budella. The DTL Board has already approved the scheme in its meeting held on 04.11.2015. Presently, the scheme is under tendering stage. However, the in-feed is earmarked from the upcoming 400kV ISTS Dwarka to be established by PGCIL. The land has been handed over to PGCIL. As such the S/Stn. is expected by 2018-19. By the time, the 220/66kV S/Stn. Budella would also be commissioned. However, all possible efforts are taken to commissioning of S/Stn. by 2018- 19 as minimum time line for completion of such type of GIS is 2 years. Further, BRPL should ensured full utilisation of available sources at PPK-III, Mundka etc. to reduce burden on the already available sources.
4	Additional Pr. Tr. at Chaukhandi	Exp.Dec-2017	Commissioning of 220 kV Budella. Already explained at S No. 3 above.
5	Augmentation of PTR-1 & 3 at 66/11 kV Batra Grid S/Stn. from 2x20MVA to 2x31.5MVA	1 st Tx has charged on 04.04.17. & PTR -3 Augmentation work will start on Nov-17 onwards	Commissioning of 220/66kV S/Stn. The establishment of 220/66kV substation at Tuglakabad is required to be carried out by PGCIL as per the provisions of MoU executed with DTL and PGCIL on 28.11.2014 as deposit work. After completion of all formalities, the land of Tuglakabad was handed over to PGCIL last week of July, 2016. As per PGCIL report, all works under MoUs have already been awarded. The establishment of 400kV substations and associated wok may at least take two years. As such, completion of 400kV substation Tuglakabad and associated evacuation system may be completed by Dec 2018. As such, 220/66kV, 160MVA Tx with 66kV GIS would be established along with 400kV GIS at Tuglakabad.

S. No.	Details of augmentation proposed	Schedule completion	DTL's integration requirement and updated status
6	Augmentation of PTR-2 & 3 at 66/11 kV G-5 Matiyala Grid S/Stn. from 2x20 MVA to 2x31.5 MVA	2 nd Tx charged on 01.04.17 and 3 rd Tx charged on 28.04.17 Completed	Commissioning of 220 kV Pappankalan-III. The work of establishment of Pappankalan-III S/Stn. is entrusted to PGCIL as deposit mode. Due to contractual issues the award was delayed.. Normally, the completion period of the S/Stn. being AIS is one year and is expected by August 2017.
7	ETC of 4th additional 66/11 kV 25 MVA Power Tx at G-2 PPK Grid S/Stn.	Completed	-
8	ETC of 4th additional 66/11 kV 25 MVA Power Tx at Paschim Vihar Grid S/Stn.	Completed	Commissioning of 220 kV Budella. Already explained at S No. 3 above.
9	New Grid at Fatehpur Beri	Exp .Jan 18	-
10	New Grid at G-7 Dwarka	Commissioned	Commissioning of 220 kV Pappankalan-III. Already explained at S No.6 above.
11	New Grid at Mithapur	Commissioned	Commissioning of 220 kV Tughlakabad Already explained at S No.5 above.

TPDDL (2016-17)

S. No.	Details of priority work	DERC Approval	Expected completion date	DTL's integration requirement	Remarks of TPDDL and updated status of DTL's integration
1	Installation of 66/33 kV 50 MVA PTR at A-7 Narela Grid	Yes	30 th Jun,2017	33kV Supply from 220 kV Narela to AIR Khampur Grid through 66/33kV 30 MVA PTR.	50MVA Pr. Tr.at A-7, Narela charged on 26.09.2017.
2	Installation of additional 33/11kV, 25 MVA 3 rd Pr. Tr. at Gulabi Bagh Grid along with conversion of 33kV Shahzada Bagh-Gulabi Bagh circuit from single cable to twin cable circuit	Yes	3 rd PTR – 20 th May, 2017 33kV Cable- 30 th Jun,2017	1) Commissioning of 220kV Chandrawal S/Stn. 2) Commissioning	To achieve N-1 of 33kV infeed circuits at Gulabi Bagh Grid, one additional 33kV direct circuit from 220kV Karol Bagh (or Dev Nagar) is required. Besides that 161 MW is already captured at the time of Delhi Peak(01.07.2016) against the 200 MVA transformation capacity at 220kV Subzi Mandi Grid. Both 100 MVA PTR-1&2 have already loose N-1 and may also got overloaded during Summer'17. Therefore to achieve N-1 of 100 MVA PTRs at 220kV Subzi Mandi Grid, early commissioning of 220/33kV Chandrawal Grid is required. The 3rd Tx. has been charged and 33kV Gulabi Bagh-Shahzada Bagh twin cable will be charged in Dec. 2017. The installation of 220/33kV Chandrawal S/Stn. was approved by Board of Directors of DTL in its meeting held on

S. No.	Details of priority work	DERC Approval	Expected completion date	DTL's integration requirement	Remarks of TPDDL and updated status of DTL's integration
				of 220 kV Dev Nagar S/Stn.	<p>26.12.2015. The scheme is presently under tendering stage. The main in feed of the S/Stn. is envisaged from 400kV Rajghat. The same was delayed due to shifting of location from Rajghat due to NGT stipulations. Due to this, the commissioning of Chandrawal S/Stn. is also delayed. However, all possible efforts are taken to commissioning of S/Stn. by 2018-19 as minimum time line for completion of such type of GIS is 2 years.</p> <p>It may be noted that the scheme is mainly meant for enhancement of reliability of area. The area proposed to be fed from this S/Stn. is at present being met through 220kV Subzi Mandi and Kashmiri Gate S/Stns. of DTL. At normal course of operation there are no constraints to meet the entire load demand of the area.</p> <p>As far commissioning of 220/33kV Dev Nagar is concerned, L&DO, Ministry of Urban Development, Govt. of India has allocated land for establishment of 220kV S/Stn. by DTL and 33kV S/Stn. by BYPL to Govt. of Delhi. Further the main source to feed the S/Stn. was from the proposed 400kV S/Stn. at Rajghat. Due to NGT stipulations, the site has been shifted to 400kV Maharani Bagh and feed to Dev Nagar is proposed from this sub station. As such, in feed may not be available before 2018-19. As soon as land for Dev Nagar is allocated to DTL, the scheme for establishment of 220kV S/Stn. at Dev Nagar would be prepared. Till the time BYPL and TPDDL are required to manage with the available sources.</p>
3	Establishment of 33kV ESI Hospital Grid feeding from 220kV Peeragrahi Grid & interconnection with 33kV Sudershan park grid	Yes	<p>a)Grid part: 31st-Mar-18</p> <p>b)Line part: Peeragarhi - Sudarshan park 15th-May-17</p> <p>c) LILO at ESI Grid - 31st Mar' 18</p>	Commissioning of 220/33 kV 100 MVA 3 rd PTR at Peeragarhi Grid.	<p>Work completed.</p> <p>This circuit shall help to evacuate power from 220 Peeragarhi to Sudarshan Park Grid and dependency on Vishal Grid(BRPL) shall be reduced during N-1. To achieve N-1 of 100 MVA PTRs at 220kV Peeragarhi Grid, additional 220/33kV 100MVA is required at 220kV Peeragarhi Grid.</p> <p>The bay for Sudershan Park feeder is ready at Peeragarhi since 20.04.2015 but due to non commissioning of S/Stn. by TPDDL, the bay could not be utilised. As far as reliability of the S/Stn. is concerned the 3rd 100MVA Tx. energized on 20.07.2017.</p>
4	Erection of 66/11KV Dheerpur Grid	Yes	Energized.	<ul style="list-style-type: none"> Commissioning of additional 220/66 kV 160 MVA PTR along with 66kV GIS Bays at Gopalpur Grid. Commissioning of 220kV SGTN Grid 	Dheerpur Grid commissioned.

S. No.	Details of priority work	DERC Approval	Expected completion date	DTL's integration requirement	Remarks of TPDDL and updated status of DTL's integration
5	Erection of 66/11kV DJB Burari Grid	Yes	30 th Jun,2017	1) Commissioning of additional 220/66 kV 160 MVA PTR along with 66kV GIS Bays at Gopalpur 2) Commissioning of 220kV SGTN Grid	DJB Burari Grid charged.
6	33kV RWL- Payal single cable to twin cable circuit between Payal & Rewari Line Grid.	Yes	Cable laying execution job is put on hold due to ongoing work being done by DMRC	--	Work completed.

TPDDL (2017-18)

S. No.	Details of priority work	DERC Approval	Expected completion date	DTL's integration requirement	Remarks of TPDDL and updated status of DTL's integration
1	Convert 33KV single cable of 220kV Shalimar bagh to Rani BaghCkt- 1 & 2 to twin 3X400mm ² XLPE cable	Yes	25 th May, 2017	Clubbing of both single cable circuit of Rani Bagh Ckt-1&2 to make one twin cable circuit at 220 kV Shalimar Bagh Grid.	Work completed.
2	Erection of 33/11 kV Swiss Apartment Grid (Ludlow Castle, Civil Lines)	Yes	31 st Jan, 2018	Commissioning of 220 kV Chandawal Grid	Expected by December 2017. This Grid is planned to shift the complete 11kV load from 220kV Subzi Mandi Grid. There is no 33kV spare Bays available at nearby 220 KV DTL Grids. Therefore this Grid shall be energised through LILO of 33kV Subzi Mandi-Shakti Nagar circuit. There would be N-1 constraints on 33kV interconnected circuits. Therefore to achieve N-1 of 33kV interconnected network, LILO of 33kV interconnected network at 220kV Chandawal Grid are planned and shared with DTL & Steering committee. Besides that 161 MW is already captured at the time of Delhi Peak(01.07.2016) against the 200 MVA transformation capacity at 220kV Subzi Mandi Grid. Both 100 MVA PTR-1&2 have already loose N-1 and may also got overloaded during Summer'17. Therefore to achieve N-1 of 100 MVA PTRs at 220kV Subzi Mandi Grid as well as to achieve N-1 of 33kV interconnected network, early commissioning of 220/33kV Chandawal Grid is critically required.

S. No.	Details of priority work	DER C Approval	Expected completion date	DTL's integration requirement	Remarks of TPDDL and updated status of DTL's integration
					With regard to Chandrawal, the details have already been explained above.
3	33 kV twin cable circuit between Saraswati Garden & Sudarshan Park Grid along with clubbing of both single 33kV Rewari Line-Saraswati Garden Ckt-1&2	Yes	15th-May-17	1) Commissioning of 220/33 kV 100 MVA 3rd PTR at Peeragarhi Grid. 2) Spare 33kV Bays at 220kV Peeragarhi	During N-1, this circuit shall help to move power flow from 220kV Naraina to 220kV Peeragarhi Grid through 33kV Peeragarhi-ESI-Sudarshan park-Saraswati garden Ckt. However there would be very less margin available on this circuit, therefore LILO of existing Saraswati Garden-Kirti Nagar ckt at 220kV Peeragarhi Grid has already proposed in the Steering committee held on 10.07.2015. Therefore additional 33kV Spare Bays alongwith additional 220/33 kV 100 MVA 3rd PTR(for N-1 mitigation) are required at 220kV Peeragarhi Grid. For reliability of the S/Stn. is concerned the 3rd 100MVA Tx. energized on 20.07.2017 by DTL at Peeragarhi. The request for spare bay was raised by TPDDL in the Steering Committee meeting held on 12.08.2016. BRPL has also requested additional bays. As such, the possibility of extension of 33kV GIS with four additional bays is being explored.
4	Erection of 66/11kV Karala GIS	Yes	30 th -Nov-17	--	This Grid is planned to shift the complete 11kV load from 220kV Kanjhawala Grid. Expected by March 2018.
5	Additional 3rd Zero Value Power Tx. (20 MVA) at Sudershan Park	Yes	30 th -May-17	Commissioning of 220/33 kV 100 MVA 3rd PTR at Peeragarhi Grid.	Tx. charged at Sudershan Park. For reliability of the S/Stn. is concerned the 3rd 100MVA Tx. energized on 20.07.2017 by DTL at Peeragarhi.
6	66 KV D/C connectivity between 220 kV Kanjhawala & Karala.	Yes	15 th Feb-2018	--	These circuit shall help to evacuate more power from 220kV Kanjhawala Grid and shift load from 220kV Rohini to Kanjhawala
7	Construction of a 66/11kV, 2 x 31.5MVA at RG-20 along with in feed arrangement RG-20 Grid 66 kV D/C connectivity from Karala Grid & 66 kV D/C connectivity from RG-22	Yes	15 th -Mar-18	--	This Grid shall help to shift approx 50 MW load from 220kV Rohini to 220kV Kanjhawala Grid. Expected by March 2018.

S. No.	Details of priority work	DER C Approval	Expected completion date	DTL's integration requirement	Remarks of TPDDL and updated status of DTL's integration
8	Addition of 3rd 66/11 KV, 20 MVA PTR at A-7 Narela Grid.	Yes	31-Dec-17	Commissioning of 220 kV Tikrikhurd Grid	<p>This 3rd PTR shall put additional load on 220kV Narela. Due to unequal load sharing, 100 MVA PTR-1&2 at 220kV Narela Grid may get over loaded in next summer'17. To achieve N-1 of 100 MVA PTRs at 220 kV Narela Grid, timely commissioning of 220kV Tikrikhurd is required.</p> <p>Additional 3rd 66/11 KV, 20 MVA PTR at A-7 Narela Grid is expected by March 2018.</p> <p>The 220kV S/Stn. Tikrikhurd is mainly meant for reliability of power supply of the areas fed from Narela and DSIDC Bawana S/Stn. of DTL. At present, there are no transmission constraints in any way at these existing S/Stns. The Board of Director of DTL in its meeting held on 23.03.2015 approved the scheme.</p> <p>The scheme is under tendering and expected to be floated soon. However, all possible efforts are taken to commissioning of S/Stn. by 2018-19 as minimum time line for completion of such type of GIS is 2 years.</p>
9	33 kV U/G Twin Cable circuit between Tripolia & Shakti Nagar Grid .	Yes	31 st Dec,2017	Commissioning of 220 kV Chandrawal Grid	<p>33/11kV Swiss Apartment is planned to shift the complete 11kV load from 220kV Subzi Mandi Grid. Due to unavailability of spare 33kV Bays at nearby 220KV DTL Grids, this Grid shall be energised through LILO of 33kV Subzi Mandi-Shakti Nagar circuit. There would be N-1 constraints on 33kV interconnected circuits. 33kV Tripolia-Shakti Nagar circuit is proposed to mitigate the N-1 partially, however to achieve N-1 fully, LILO of 33kV Tripolia-Shakti Nagar ckt at 220kV Chandrawal Grid is already proposed and shared with DTL & Steering committee. Therefore to achieve N-1 of 33kV interconnected network, early commissioning of 220/33kV Chandrawal Grid is critically required.</p> <p>33 kV U/G Twin Cable circuit between Tripolia & Shakti Nagar is expected by March 2018.</p>
10	Strengthening of 33kV Gopalpur – Civil Lines Ckt, 33kV Gopalpur – DIFR Ckt, 33kV DIFR – CVL Ckt, 33kV Indira Vihar – DIFR Ckt.	Yes	28 th Feb 2018	--	Expected by March 2018.
11	Additional 66/11kV 31.5 MVA 3rd PTR at Bawana-1	Pending	Consumer consent awaited to submit the scheme to DERC –	--	<p>This shall help to reduce the loading on 20 MVA PTR-1&2 at 220kV DSIDC Bawana Grid.</p> <p>Expected by March 2018</p>

S. No.	Details of priority work	DER C Approval	Expected completion date	DTL's integration requirement	Remarks of TPDDL and updated status of DTL's integration
12	66kV Double circuit connectivity between SGTN-2 & Siraspur Grid	Pending	Consumer consent awaited to submit the scheme to DERC	Commissioning of 220 kV SGTN Grid	66/11kV SGTN-2 Grid was planned with feed through 220kV SGTN Grid. However due to delay in commissioning of 220kV SGTN Grid, this Grid has been energised through LILO of Jahangirpuri-PP1 Circuit-1&2. Jahangirpuri Grid is fed through 66kV Bhalswa circuit-1&2 and 66kV Gopalpur Circuit-1&2. Due to upcoming DJB Burari & Dherpur Grid, there would be N-1 constraints on 66kV Narela-Bhalswa Ckt-1&2 as well as 66kV Gopalpur-Jahngirpuri Circuit-1&2. 66 kV SGTN-Siraspur ckt is proposed to mitigate the N-1 partially, however to achieve N-1 fully, LILO of 66kV interconnected network at 220kV SGTN Grid are planned and approved by the Steering committee. Therefore early commissioning of 220 kV SGTN Grid is critically required. With regard to SGTN, the details have already been explained above.
13	Installation of 66/11kV 20 MVA 4th PTR at both DSIIDC-1 & DSIIDC-2 Grid	Yes	31 st Dec, 2017	Commissioning of 220 kV Tikrikhurd Grid	This shall put additional load on 220kV Narela Grid. Due to unequal load sharing, 100 MVA PTR-1&2 at 220kV Narela Grid may get overloaded in next summer'17. To achieve N-1 of 100MVA PTRs at 220 kV Narela Grid, timely commissioning of 220kV Tikrikhurd is required. With regard to Tikrikhurd, the details have already been explained above.

3.3 IMMEDIATE REVIVAL OF 400kV BAMNAULI – JHATIKARA CKT-I.

400kV Bamnauli – Jhatikara Ckt-I was out since 22.05.2016. Ckt charged on 16.10.2017 at 12.49hrs. Now both circuits are charged on normal towers.

GCC noted.

3.4 BAY EXTENSIONS OF GISs

It has been observed from the proceedings of Steering Committee that bays are required to be extended at certain sub stations for more evacuation of power as under:-

a) 33kV bays extension at 220kV GIS Trauma Centre

Sr. No	Name of the feeder	Name of the utility	Likely commissioning of the ckt.
1	33kV AHIMS-II Ckt-I	BRPL	2018-19
2	33kV AHIMS-II Ckt-II	BRPL	2018-19
3	33kV Hudco Ckt	BRPL	2018-19
4	33kV NDSE-II Ckt.	BRPL	2018-19
5	33kV Kidwai Nagar East-I Ckt	NDMC	2018-19
6	33kV I/C of 220/33kV 100MVA Tx-II	DTL	2019-20

b) 33kV 4 Nos. Bays at Peera Garhi

Sr. No	Name of the feeder	Name of the utility	Likely commissioning of the ckt.
1	33kV Peera Garhi Ckt-I	BRPL	2019-20
2	33kV Peera Garhi Ckt-II	BRPL	2019-20
3	33kV bay for TPDDL	TPDDL	2018-19
4	33kV bay for TPDDL	TPDDL	2018-19
5	33kV Udyog Nagar Ckt.	BRPL	2018-19
6	33kV A-4 Paschim Vihar Ckt.	BRPL	2018-19

c) 66kV 10 Nos. Bays at Harsh Vihar

Sr. No	Name of the feeder	Name of the utility	Likely commissioning of the ckt.
1	66kV Mandoli Jail Complex Ckt-I	BYPL	2019-20
2	66kV Mandoli Jail Complex Ckt-II	BYPL	2019-20
3	66kV Harsh Vihar Ckt-I	BYPL	2019-20
4	66kV Harsh Vihar Ckt-II	BYPL	2019-20
5	2 Bays for 66kV LILO of 66kV Dilshad Garden – Vivek Vihar Ckt (one circuit)	BYPL	2018-19
6	Four spare bays	To meet future requirement	

GCC reiterated its earlier decision and advised all utilities to do the needful of bay extensions in line with the downstream setups. The Steering Committee was also advised to look into the issue of establishment of additional bays at GISs to avoid frequent extensions considering the future requirements. It was also advised that the additional of 100MVA Tx. at AIIMS be considered along with 33kV Bays extension to ensure reliability.

3.5 CAPACITOR INSTALLATION PLAN

The updated position of capacitor banks is as under:-

As on 31.07.2017

Utility	Installed capacity in MVAR (HT)	Installed in capacity in MVAR (LT)	Total
BYPL	861.70	102	1025.19
TPDDL	813.38	119	966.78
NDMC	253.78	24.29	263.33
DTL	753.52	0.00	753.52
BRPL	1351.39	190.00	1485.10
RPH	20.00	0.00	20.00
MES	20.10	0.00	20.10
Total	4073.87	435.29	4534.02

Note: NDMC has dismantled 13.26MVAR(33kV level) Capacitor banks at 33kV AIIMS S/Stn considering the persistent high voltage following the commissioning of 220kV AIIMS.

TPDDL has dismantled 34.40MVAR Capacitor banks.

BYPL has dismantled 61.49MVAR Capacitor banks.

The capacitor addition plan provided by the utilities is as under:-

BYPL

S.No	NAME OF THE STATION	VOLTAGE LEVEL AT WHICH CAPACITOR IS PLAN	CAPACITY IN MVAR	TARGET DATE OF COMMISSIONING
1	Krishna Nagar	11 KV	2x7.2	31-05-17
2	Dwarkapuri	11 KV	1x7.2	31-08-17
3	Vivek Vihar	11 KV	1x7.2	31-08-17
4	Dallupura	11 KV	1x7.2	31-08-17
5	GH-II	11 KV	1x7.2	31-12-17
6	MVR-I	11 KV	1x7.2	31-08-17
7	Tibeia College	11 KV	2x7.2	31-03-18
8	Ghonda	11 KV	1x7.2	31-03-18

BRPL

S.No	NAME OF THE STATION	VOLTAGE LEVEL AT WHICH CAPACITOR IS PLAN	CAPACITY IN MVAR	TARGET DATE OF COMMISSIONING
1	Mithapur	11kV	14.4	Jun-17
2	G-7 Dwarka	11kV	21.6	12.06.17
3	Fathepur Beri	11kV	21.6	Oct-17
4	IGNOU	11kV	7.2	Commissioned in June-2017
5	MCIE	11kV	7.2	12.06.17
6	G-4	11kV	21.6	Commissioned in June-2017
7	VKJ Inst.Area	11kV	21.6	Commissioned in May-2017

NDMC and MES have no plan to install additional capacitors in near future.

It was informed that as per CPRI Study (Year 2013), Delhi need not to have install additional capacitors.

NRPC got the Capacitor requirement study for 2017-18 conducted through CPRI. As per Study, Delhi need not to installed any capacitor during 2017-18.

GCC noted.

3.6 NON USAGE OF BAYS ALLOTTED TO VARIOUS UTILITIES FROM DTL SUB-STATIONS.

In the last meeting, the position of unutilized bays at various newly commissioned DTL sub-stations was updated by the utilities as under:

S N.	Name of 400/20kV S/Stns.	Details of non utilization of bays				
		Voltage level	Name of bay	Name of the utility to whom the bay is allocated	Original allocation date	Present status
1	220kV Trauma Centre	33kV	Sarojini Nagar	NDMC	19.11.09	Sarojini Nagar S/stn. is under construction and expected by 2018-19. In the meantime, to utilize the bay, the bay is temporarily allocated to BRPL to accommodate NDSE-II as decided in the Steering Committee meeting held on 06.10.2016. 90% work has been completed. Work is held up due to non availability of cables which is being arranged on priority basis. Expected by Nov 2017. In the OCC meeting held on 28.03.2017, it was informed by NDMC that the feeder is being temporarily charged shortly to provide supply to newly built Safdarjung Hospital Complex. S/Stn is already in existence and is now been fed from Ridge Valley and Park Street. Due to load constraints at Park Street another feed from AIIMS 220kV S/Stn. is planned. The same can be made after cable link is established and load would be met from AIIMS. The cable link is expected by Nov 2017.
			Jor Bagh		19.11.09	
			Safdarjung Hospital		19.11.09	
			Race Course		17.06.11	
2	220kV Electric Lane	33kV	1. Vidyut Bhawan 2. Hanuman Road 3. Janpath Lane. 4 Church Road 5 Delhi High Court 6 IGNCA Total = 6 Bays	NDMC	19.11.09	All the ckts envisaged except Delhi High Court would be commissioned by March 2018. For Delhi High Court to provide space for establishment of the sub station in the court premises is being persuade with the High Court Authorities.

S N.	Name of 400/20kV S/Stns.	Details of non utilization of bays				
		Voltage level	Name of bay	Name of the utility to whom the bay is allocated	Original allocation date	Present status
3	220kV DSIDC Bawana	66kV	1.Bay 629 BWN-7 Ckt-I 2.Bay 630 BWN-7 Ckt-II Total = 2 Bays	TPDDL	11.06.14 11.06.14	3. By Dec, 2017 4. By Dec, 2017 All the bays earmarked for TPDDL were requisition based on the requirement of DSIIDC. DSIIDC has not yet remit the amount to TPDDL as all the schemes are envisaged as deposit work.
5	400kV Mundka	66kV	1.Bay 604 2.Bay 606 3.Bay 610 4.Bay 613 5.Bay 614 6.Bay 617 Total = 6 Bays	BRPL/TPDDL	31.05.2012	Two bays for TPDDL Kirari would be utilized by 2018-19. Four bays for BRPL i.e. Bakkarwala(2 Nos.) & Nilothi(2 Nos.) would be utilized by 18-19
6	400kV Harsh Vihar	66kV	2 bays - DMRC	DMRC	12.04.10	DMRC for Phase-III expansion.

GCC noted.

3.7 LONG OUTAGE OF ELEMENTS OF DELHI POWER SYSTEM

The status of long outage of elements was perused as under:-

S N	Name of the Element	outage		Utility	Remarks
		Date	Time		
1	400kV BAMNAULI - JHAKTIKARA CKT.-I	22.05.16	20:30	DTL	LINE CHARGED ON NORMAL TOWERS ON 16.10.2017 AT 12.49HRS.
2	400kV BAWANA - MUNDKA CKT.-I&II	14.05.17	09:03	DTL	CKT.-I&II ENERGISED UPTO TOWER NO. 115 FROM BAWANA END. JUMPER OPENED AT TOWER NO. 115. (TOWER BEND AND POLYMER INSULATORS DAMAGED DUE TO FIRE IN PLASTIC FACTORY NEAR TOWER LINE AT MUNDKA)
3	220/33kV 100MVA PR.TR.-II AT 220kV LODHI ROAD	22.03.17	22:30	DTL	TR. CHARGED.
4	220/33kV 100MVA PR.TR.-I AT 220kV NARAINA	26.07.17	23:50	DTL	BEING REPLACED..
7	33kV BAY -3 (IP - KILOKRI)	22.02.11	13:10	BRPL	CLEARNACE FROM RAILWAYS FOR LAYING UNDER GROUND CABLE NEAR BHAIRO ROAD IS PENDING.
8	33kV RIDGE VALLEY - KHEBAR LINE CKT.-II	31.01.16	00:47	BRPL	R'PH. SINGLE CABLE FAULTY

S. N	Name of the Element	outage		Utility	Remarks
		Date	Time		
9	66kV V.KUNJ INSTL.AREA-RIDGE VALLEY CKT.-I	26.03.17	10:45	BRPL	UNDER SHUT DOWN
10	33kV LODHI ROAD - EXHIBITION GROUND-II CKT.	04.06.17	15:25	BRPL	CKT. CHARGED BUT BECAME AGAIN FAULTY ON _____
11	33kV KILOKRI - SARAI JULIENA CKT.	18.08.17	12:35	BRPL	ENERGIZED ON 05.10.2017
12	33kV MALVIYA NAGAR - ADHCHINI CKT.	25.08.17	4:00	BRPL	ENERGIZED ON 18.09.2017
13	66kV SARITA VIHAR - JASOLA CKT.	09.09.17	23:10	BRPL	ENERGIZED ON 15.09.2017
14	33kV RIDGE VALLEY - NEHRU PARK CKT.	11.09.17	07:10	BRPL	ENERGIZED ON 04.10.2017
15	33kV JNU - VASANT VIHAR CKT.	13.09.17	04:29	BRPL	ENERGIZED ON 19.09.2017
16	66kV SAGARPUR - REWARI LINE CKT.	30.07.16	23:07	BRPL	B'PH. CABLE FAULTY. RE-ROUTING BEING DONE.
17	66kV MUNDKA - NANGLOI CKT.	08.05.17	13:50	BRPL	B' & Y'PH. CABLE FAULTY
18	66kV HASTAL - GGSH CKT.-I	13.09.17	20:15	BRPL	ENERGIZED ON 02.10.2017
19	66kV PATPARGANJ - AKSHARDHAM CKT.	06.08.17	8:55	BYPL	CABLE FAULTY
20	66kV KHICHRIPUR - PPG INDL. AREA CKT.- I	05.09.17	02:26	BYPL	R', Y' & B'PH. CABLE FAULTY
21	66kV KHICHRIPUR - PPG INDL. AREA CKT.- II	05.09.17	02:35	BYPL	R', Y' & B'PH. CABLE FAULTY
22	33kV GONDA -O/H SEELAMPUR CKT.	17.09.17	12:39	BYPL	CHARGED
23	33kV PANDAV NAGAR - DMS CKT.			TPDDL	CHARGED.
24	33kV BAY -28 (IP - CONNAUGHT PLACE)	20.08.2017		NDMC	CABLE FAULTY
25	33kV PARK STREET - BAIRD LANE CKT.	05.09.2017		NDMC	CHARGED.
26	216MW Unit-2 at Bawana	29.08.2017	12:30	PPCL	UNDER MAINTENANCE
27	216MW UNIT-3 AT BAWANA	06.02.2017	00:12	PPCL	UNDER MAINTENANCE
28	254MW STG-II AT BAWANA	06.09.2017	20:26	PPCL	PROBLEM IN MAIN TRANSFORMER

GCC noted.

4 COMMERCIAL ISSUES.

4.1 INTRASTATE UI ACCOUNT

The position of payment of Intrastate UI/ DSM accounts (upto Week-35/16-17) was as under:-

Amount in Rupees Crores

UTILITY	AMOUNT IN RUPEES CRORES RECEIVABLE BY UTILITIES	PAYABLE BY UTILITY
TPDDL	--	
BRPL	--	93.766
BYPL	--	98.464
NDMC	--	--
MES	--	--
IPGCL	--	--
PPCL	--	--
BTPS	--	--
TOTAL	--	192.230

The Interest Statement for Intrastate UI / DSM accounts (as on 31.03.2015) is as under:-

UI INTEREST STATEMENT AS ON 31.03.2015 in Rs. Lacs			
S.No.	UTILITY	Receivable by the Utility	Payable by the Utility
1	IPGCL	0.4651371	0
2	PPCL	1.3062076	0
3	BTPS	0	1.0411129
4	BYPL	19.9609236	0
5	BRPL	0	35.1101916
6	NDPL	1.1203549	0
7	NDMC	4.9652249	0
8	MES	1.2727743	0
	Total	29.0906224	36.1513045

SLDC discharges the payment liabilities to the utilities including that of NRPC (which is the priority payment as per the provisions of DSM Regulations) from the Pool.

It was informed that during the year 2016-17, SLDC has paid Rs.60.76 Crores to NRLDC to avoid legal issues arising out of non payment of dues and the dues of other utilities were also settled.

However, the interest portions with regard to Intrastate Utilities are to be settled. It was explained that upto 2013-14, the accounts have already been settled.

In the last meeting, GCC advised SLDC to immediately do the needful for recovery of dues from the defaulting utilities. As per the decision taken in the last GCC, SLDC has started the proceedings for filling the petition before DERC for recover of the dues from the defaulting utilities.

GCC noted.

5 New Agenda

5.1 Agenda by TPDDL

1.0 Provisional compensation bill raised by NTPC:

1.1 Compensation amount claimed by NTPC as per the CERC guidelines dated 5th May'2017 regarding *Approval of the detailed procedure for taking unit(s) under Reserve Shut Down and Mechanism for Compensation for Degradation of Heat Rate, Aux Compensation and Secondary Fuel Consumption, due to Part Load Operation and Multiple Start/Stop of Units. (Reference letter is attached as Annexure-1)*

NTPC have raised the compensation amount payable by the beneficiaries in the bills pertaining to month of June'2017 & July'2017. Accordingly, NTPC has raised bill of Rs 10.89 Crore upon TATA POWER-DDL on a cumulative basis from 15th May 2017.

A discussion was held with NTPC regarding above cited subject and NTPC stated that in absence of is raising provisional bills as NRPC has not yet provided the calculation for compensation amount chargeable by Station and also Delhi SLDC is not providing the beneficiary wise Energy Requisition Details from Stations on a slot wise basis.

It is requested to provide the compensation amount calculation by NRPC and certification of Delhi beneficiary wise bifurcation of the compensation amount by Delhi SLDC.

1.2 It has also been observed based on the calculations provided for APCPL (Aravali Power) compensation amount, TATA POWER-DDL has been unduly loaded with the compensation amount payable by BYPL on account of regulation of power from APCPL to BYPL. It is requested to revise the APCPL bill amount in line with the regulations and not burden us on account of regulation of power to other beneficiaries.

- 1.3** Tata Power–DDL had also requested NTPC (vide letter TATA POWER-DDL/PMG/NTPC/11072017) to provide information regarding reason of drastic increase in Eastern Region station namely Kahalgaon 1, 2 and Farakka in comparison to that of previous months in FY 2017-18. It is requested to provide reason for the same.
- 1.4** Tata Power – DDL also informed NTPC that they have not yet raised the revised invoice on account of Final ISGS Intra- State URS details pertaining to FY 2015-16. It is requested to raise the revision bills in line with the Intrastate URS account details,

NTPC representative was not present in the meeting. GCC advised TPDDL to take up this issue with NRPC

2.0 Arbitrary scheduling by Delhi SLDC

There were many instances in past regarding arbitrary or forced scheduling of power by NRLDC. We write to NRLDC regarding force scheduling time to time. Delhi SLDC is very reluctant to change the scheduling to TP-DDL when there is force scheduling by NRLDC. After taking up the matter with NRLDC many times, NRLDC has responded that they scheduled the forced power (RRAS, MTL etc.) to overdrawing entities under them i.e. Delhi, Further scheduling of this power to deviating DISCOM is the responsibility of Delhi SLDC. Delhi SLDC under current practice, schedule the power as per % of entitlement irrespective of OD or UD position.

With reference to above, Tata Power-DDL is requesting Delhi SLDC to adopt the scheduling guideline and align NRLDC. Force scheduled power by NRLDC will be scheduled to the DISCOM who is deviating from DSM regulation.

It is also observed that settlement value is added to TPDDL drawl. Settlement value is mis-leading during decision. Logic behind Settlement value need to be discussed with SLDC and Distribution of Settlement value should be as per suspected points. Example: - The value of 220kV MAHARANI BAGH was erroneous still settlement was given in Tata Power-DDL drawl about 70 MW.

GCC advised SLDC to take up a separate meeting with TPDDL to discuss and decide the issue.

3.0 Position of Reliable Power Supply in Delhi through DTL Grid Substations

Maintaining supply of electricity is joint responsibility of DISCOMs and TRANSCO. Considering the importance of an efficiently built and operated transmission network, Hon'ble Commission has enacted the Delhi Electricity Regulatory Commission (State Grid Code) Regulations, 2008, referred to as the

“DGC Regulations, 2008”, which provides the standard procedures as well as the benchmarks which need to be met by the State Transmission Utility, which is DTL, while constructing and operating the transmission network.

As per Regulation 9.2 of the Delhi Grid Code Regulations, 2008, Transmission planning criteria of State Transmission system is reproduced below:

“The State Transmission System, as a general rule, shall be capable of withstanding and be secured against the following contingency outages without necessitating load shedding or rescheduling of generation during Steady State Operation:

(a) Outage of a D/C line of voltage above 66 kV and below 400 kV or,

(b) Outage of a S/C line of voltage of 400kV and above or,

(c) Outage of a single Interconnecting Transformer.

Provided that the above contingencies shall be considered assuming a pre-contingency system depletion (planned outage) of another 220kV D/C line or 400kV S/C line in another corridor and not emanating from the same substation.”

Furthermore, the Regulation 9.6 of the **“DGC Regulations, 2008”**, Transmission planning criteria of State Transmission system states:

“In all extra high voltage substations, suitable number and capacity of transformers shall be provided to have adequate redundancy required to maintain firm capacity at the substation”.

Explanation - for the purpose of Regulation 9.6, the term firm capacity shall mean the minimum transformation capacity available at the substation in case of outage of any one transformer.

These specific regulations lay down the criterion which needs to be met by DTL while operating the transmission network. However, the existing transmission network does not meet these criterions, it is the responsibility of DTL to augment the network and increase its capacity, to be able to meet these benchmarks. The Substations not confirming the said criteria for both lines and transformers are given vide Table-1 and Table-2.

Table-1

S. No .	SUB-STATION NAME	Power Tx.	Total Installed Capacity MVA/ MW (at 0.85 pf)	Peak load (MW) at the time of Delhi peak (06.06.17 at 15:31 Hrs) Source - MoM OCC - 28.06.17	Constraints & Status of Reliability (n-1 criteria)	Impact	Response of DTL
1	220 kV Gopal Pur	220/66 KV 100MVA (Quantity - 01 No)	100 MVA / 85 MW	78 MW	There is a single 220/66 KV 100MVA Pr. Tr. at 220kV Gopalpur Grid. If this single 220/66kV Pr Tx gets failed, total 78MW load will get affected. 9.2c & 9.6 criteria not met as per Delhi Grid code regulations 2008.	It will create power supply reliability issue in Summer'18 . Area that will get adversely impacted are Burari, Jagatpur, Dheerpur, Dhakka, Mukherjee Nagar, Bhalswa, Sant Nagar, Swaroop Nagar, Libaspur, Jahangirpuri, Azadpur, Adarsh Nagar, Siraspur, Pitampura etc.	The alternate arrangement for providing 66kV in-feed to TPDDL has been made by creating 66kV level at Shalimar Bagh. Further, 1 No. 66kV bay at Gopalpur for DJB Burari Grid has also been made available to provide 66kV load to the TPDDL. The delay with regard to establishment of 220/66kV 160 MVA Tx and along with 66kV GIS at Gopalpur is not entirely attributable to DTL. This issue was explained in Steering Committee Meetings. DTL is taking all possible steps to implement the system by April '2019 for which tender is going to be opened on 21.11.17.
2	220 kV Gopal Pur	200/33KV 100MVA (Quantity - 02 Nos)	200 MVA/ 170 MW	104 MW	If one 220/33kV Pr. Tr gets failed, total 104 MW load cannot be met through rest 01 No of 220/33kV Pr Tr (Capacity of one Pr. Tr. is 85 MW). 19 MW load will get affected, during N-1 of any one 220/33kV PrTx. 9.2c & 9.6 criteria not met as per Delhi Grid code regulations 2008.	It will create power supply reliability issue in Summer'18 . Area that will get adversely impacted are ModelTown, Hudson Lane, Mukherjee Nagar, Delhi Jal Board installations line Wazirabad & Chandrawal, Installation of GoNCTD including the residence of higher officials of GoNCTD, Civil Line etc.	It is stated that as the 33kV feeders of the TPDDL are interconnected at both 220kV Gopalpur and Subzi Mandi, therefore TPDDL may shift the load as per requirement.
3	220kV Subzi Mandi	200/33KV 100MVA (Quantity - 02 Nos)	200 MVA/ 170 MW	142 MW	If one 220/33kV Power Tx gets failed, total 142 MW load cannot	It will create power supply reliability issue in Summer'18. Area that will	The remodelling of 220kV Subzi Mandi S/Stn is to be taken up after the completion of 220kV S/Stn Timarpur. As due to severe

S. No	SUB-STATION NAME	Power Tx.	Total Installed Capacity MVA/ MW (at 0.85 pf)	Peak load (MW) at the time of Delhi peak (06.06.17 at 15:31 Hrs) Source - MoM OCC - 28.06.17	Constraints & Status of Reliability (n-1 criteria)	Impact	Response of DTL
					<p>be met through rest 01 No of 220/33kV Pr. Tx (Capacity of one Pr. Tx is 85 MW).</p> <p>57 MW load will get affected, during N-1 of any 220/33kV Tx 9.2c & 9.6 criteria not met as per Delhi Grid code regulations 2008.</p>	<p>get adversely impacted are Kamla Nagar, Civil line, Vijay Nagar, Delhi University, BD Estate, Malka Ganj, Kingsway Camp, Gulabi Bagh, Shahzada Bagh, Shakti Nagar, Tripolia, Inderlok, Sarai Rohilla, Kishan Ganj, Shastri Nagar, Bara hindu Roa etc.</p>	<p>space constraints at Subzi Mandi without outage of entire S/Stn. remodelling cannot be possible and without remodelling provision of additional source is not possible. By the time TPDDL may shift the load as the 33kV feeders of the TPDDL are interconnected at both 220kV Gopalpur and SubziMandi</p>
4	220kV Peera Garhi	200/33KV V 100MVA (Quantity -02 Nos)	200 MVA/ 170 MW	174 MW	<p>If one 220/33kV Pr. Tx gets failed, total 174 MW load cannot be met through rest 01 No of 220/33 kV Pr. Tx (Capacity of one Pr. Tx is 85 MW).</p> <p>89 MW load will get affected, during N-1 of any 220 /33kV PTR.</p> <p>9.2c & 9.6 criteria not met as per Delhi Grid code regulations 2008.</p>	<p>It will create power supply reliability issue in Summer'18</p> <p>Area that will get adversely impacted are RaniBagh, Sudarshan Park, Bali Nagar, Basai Darapur, ESI Hospital, Saraswati Garden, Ramesh Nagar, Mansarover Garden etc.</p>	<p>It is stated that the additional 100 MVA Tx at 220 kV Peera Garhi commissioned on 20 July 2017 from HV side. As far as infeed is concerned, the Mundka –Peera Garhi Ckt-I &II is of 1000 sq mm each and is capable to meet the contingency of outage of one ckt. Further, the Peeragarhi S/Stn. can be fed through 220kV Shalimar Bagh – Wazirpur- Peeragarhi D/C cable link, in case of any supply issue from Mundka.</p>
5	400kV Bawana	220/66KV V 100MVA (Quantity -01 No)	100 MVA / 85 MW	55 MW	<p>There is a one 220/66 KV 100MVA Pr. Tx at Bawana. If this single 220/66kV Pr. Tx gets failed, total 55MW load will get affected. 9.2c & 9.6 criteria not met as per Delhi Grid code regulations 2008.</p>	<p>It will create power supply reliability issue in Summer'18.</p> <p>Area that will get adversely impacted are DSIIIDC Bawana, Pooth Village etc.</p>	<p>The 100MVA Tx at 400kV Bawana was installed as a temporary arrangement and TPDDL is required to shift the feeders so that the 100MVA may be dismantled as 220kV S/Stn at DSIDC has been established.</p>

S. No	SUB-STATION NAME	Power Tx.	Total Installed Capacity MVA/ MW (at 0.85 pf)	Peak load (MW) at the time of Delhi peak (06.06.17 at 15:31 Hrs) Source - MoM OCC - 28.06.17	Constraints & Status of Reliability (n-1 criteria)	Impact	Response of DTL
6	220 kV Wazir Pur	200/33KV 100MVA (Quantity - 02 Nos)	200 MVA/ 170 MW	141 MW	<p>If one 220/33kV Pr. Tx gets failed, total 141 MW load cannot be met through rest 01 No of 220/33 kV Pr. Tx (Capacity of one Pr.Tr. is 85 MW). 56 MW load may get affected, during N-1 of any 220/33kV PTR.</p> <p>9.2c & 9.6 criteria not met as per Delhi Grid code regulations 2008.</p>	<p>It will create power supply reliability issue in Summer'18.</p> <p>Area that will get adversely impacted are Wazirpur Industrial Area, Azadpur, Kewal Park, Ashok Vihar, Shalimar Bagh etc.</p>	<p>There is severe space constraint at Wazirpur 220kV S/Stn. The entire S/Stn would require to be remodelled if additional Tx is installed which would hinder the reliable power supply position to the area fed from 220kV Wazirpur. However, in the Steering Committee meeting held on 30.10.17, it was decided to carry out a joint site visit to explore the possibility of installation of additional Tx. without creating hindrance to the existing arrangements.</p>
7	220 kV Kanjhawala	220/66KV 100MVA (Quantity - 02 Nos)	200 MVA/ 170 MW	160 MW	<p>DTL has moved 220/66kV 160 MVA PTR from 220kV Kanjhawala to Pappankalan-1, thereby reducing the available installed capacity to 200MVA only at 220kV Wazirpur.</p> <p>If one 220/66kV PTR gets fail, total 160 MW load cannot be met through rest 01 No of 220/66kV PTR (Capacity of one PTR is 85 MW).</p> <p>Further 2 more bays stand allocated by DTL at this S/Stn for TPDDL's upcoming Grid at Karala. 75 MW load may get</p>	<p>To provide the load relief on 100 MVA PTRs at 220kV Rohini Grid, TPDDL has planned to shift approx 50 MVA load from 220kV Rohini to 220kV Kanjhawala by considering its installed capacity as 360 MVA. But now this load cannot be shifted to 220kV Kanjhawala until DTL restore back to the installed capacity as 360 MVA at 220 kV Kanjhawala.</p> <p>It will create power supply reliability issue in Summer'18.</p> <p>Area that will get adversely impacted are Kanjhawala, Bawana, PoothVillage, Ghoga Dairy, Delhi Jal Board installation like Bawana clear water works,</p>	<p>The additional 160 MVA Transformer is under procurement stage.</p>

S. No .	SUB-STATION NAME	Power Tx.	Total Installed Capacity MVA/ MW (at 0.85 pf)	Peak load (MW) at the time of Delhi peak (06.06.17 at 15:31 Hrs) Source - MoM OCC - 28.06.17	Constraints & Status of Reliability (n-1 criteria)	Impact	Response of DTL
					affected, during N-1 of any 220/66kV PTR. 9.2c & 9.6 criteria not met as per Delhi Grid code regulations 2008.	etc.	
8	220 kV Shalimar Bagh	220/66KV V 100MVA (Quantity - 01 Nos)	100 MVA/ 85 MW	76 MW	DTL has converted one 220/ 33kV PTR into 220/66 kV PTR If this single 220/66kV PTR gets failed, total 76MW load will get affected. 9.2c & 9.6 criteria not met as per Delhi Grid code regulations 2008.	It will create power supply reliability issue in Summer'18 . Area that will get adversely impacted are Pitampura, kadipur, part of shalimarbagh, part of badli, samaypur etc.	
9	220 kV Shalimar bagh	220/33KV V 100MVA (Quantity - 02 Nos)	200 MVA/ 170 MW	118 MW	DTL has converted one no 220 /33 kV PTR into 220/66 kV PTR. There are 2 no 220/33 kV(100 MVA PTR). If this single 220/33kV Pr. Tr. gets failed, 33 MW load may get affected, during N-1 of any 220/33kV PTR. 9.2c & 9.6 criteria not met as per Delhi Grid code regulations 2008.	It will create power supply reliability issue in Summer'18 . Area that will get adversely impacted are Ranibagh, Shallimarbagh, Tigipur, Bhktwarpur, Rennywell, Hiranki,	With the commissioning of Peera Garhi and Wazipur Grid, load of Shalimar Bagh can easily be shifted to these S/Stns. Rani Bagh is also from Peera Garhi. Tigipur is can be fed from 33kV Sanjay Gandhi Tr. Nagar, Rohini-V, Air Khampur etc.

Table-2

S. No	220 kV Transmission Line	Peak load (MW) at the time of Delhi peak (06.06.17 at 15:31 Hrs) Source - MoM of OCC-28.06.17	Constraints & Status of Reliability (n-2 criteria)	Impact	DTL response
1	220kV Narela – Rohtak Road Ckt-I & II	176 MW	<p>These are very old transmission lines and maximum load on each line is restricted to 100 MW.</p> <p>220 kV Rohtak Road (BBMB) is only connected with 220kV Narela through 220kV Double circuit lines. Both Lines are running through same towers. If any tower gets collapsed, there would be total supply failure to 220kV Rohtak Road Grid.</p> <p>Total 176 MW load will get affected during outage of both 220kV Double circuit line.</p> <p>9.2 a criteria not met as per Delhi Grid code regulations 2008</p>	<p>It will create power supply reliability issue in Summer'18.</p> <p>Around 1.18 Lacs Consumers may experience the power interruption on rotational basis. It is around 7.43% of total TPDDL consumer base. However Impact is more since BRPL load is also being fed from this network.</p>	<p>With regard to 220 kV Rohtak road CKT I and II, it is stated that the lines pertain to BBMB (a Govt. Of India Agency) and the matter has been discussed in various meetings even at CEA for augmentation/re-conductoring of the said lines by BBMB.</p>
2	220kV Mandola – Gopal Pur Ckt-I & II	345 MW	<p>Both 220 kV double circuit lines from Mandola to Gopalpur are running through same towers. If any tower gets collapsed, total 345 MW load of 220KV Gopalpur & 220KV Subzi Mandi cannot be restored fully during outage of both 220kV Double circuit line.</p> <p>Peak Loading on 220kV Mandola-GPL Ckts are 345 MW while loading on backup 220kV Mandola-SOW Ckts are 647 MW. Therefore no adequate margin is left on backup source during N-1.</p> <p>At the other end, there are a loading constraints on 220kV Mandola-Gopalpur Ckts due to sagging of conductor during high ambient temperature.</p> <p>9.2 a criteria not met as per Delhi Grid code regulations 2008</p>	<p>It may create power supply reliability issue in Summer'18.</p>	<p>With regard to Mandola- Gopal Pur CKT I and II, It is stated that the establishment of 400kV Rajghat was envisaged under ISTS by PGCIL as decided in the Standing Committee of Power System Planning of CEA in year 2014 which got delayed due to issues in location of land. The Gopalpur S/stn. was envisaged to connect with the ISTS 400kV Rajghat. However, as per the decision of 39th meeting of Power System Planning of Northern Region held on 29th & 30th May, 2017, the 400/220kV S/Stn would be established at Gopalpur by DTL, and accordingly DTL has planned for its establishment by the Year 2020-21.</p>

S. No	220 kV Transmission Line	Peak load (MW) at the time of Delhi peak (06.06.17 at 15:31 Hrs) Source - MoM of OCC-28.06.17	Constraints & Status of Reliability (n-2 criteria)	Impact	DTL response
3	220kV Gopal Pur – Subzi Mandi Ckt-I & II	153	220 kV Subzi Mandi Grid is only connected with 220kV Gopalpur through 220kV Double circuit lines. Both Lines are running through same towers. If any tower gets collapse, there would be total supply failure to 220kV Subzi Mandi Grid. Total 153 MW load will get affected during outage of both 220kV Double circuit line. 9.2 a criteria not met as per Delhi Grid code regulations 2008	It may create power supply reliability issue in Summer'18. Around 2.65 Lacs Consumers may experience the power interruption on rotational basis. It is around 16.63% of total TPDDL consumer base.	With regard to Gopalpur-Subzi Mandi Ckt-I &II, it is stated that the load of 220kV Subzi Mandi can be met by single circuit of Gopal Pur-Subzi Mandi 220kV T/L in case of outage of one circuit of the T/L. However, the duplicate source can be provided only after Remodelling of the Subzi Mandi S/stn.
4	220kV Wazirabad – Kashmiri Gate Ckt-I & II	115	220 kV Kashmere Gate Grid is only connected with 220kV South of Wazirabad through 220kV Double circuit lines. Both Lines are running through same towers. If any tower gets collapse, there would be total supply failure to 220kV Kashmere Gate Grid. Total 115 MW load will get affected during outage of both 220kV Double circuit line. 9.2 a criteria not met as per Delhi Grid code regulations 2008	It may create power supply reliability issue in Summer'18.	With regard to Wazirabad-Kashmiri Gate Ckt-I & II, it is stated that the alternate 220kV source was planned from 400kV ISTS RPH which got shifted due to issues in location of land. However, the load of the substation can be met by single circuit of Wazirabad-Kashmiri Gate 220kV in case of outage of one circuit of the T/L. It is also stated that the additional feed to Kashmiri Gate is envisaged from the upcoming 220kV GIS Rajghat by 2019-20.
5	220kV Mundka – Peera Garhi Ckt-I & II	316	If both 220kV circuits from Mundka to Peeragarhi gets failed due to damage of 220kV underground cables, then identification of fault and restoration time will get increased. Total 316 MW load cannot be restored fully during outage of both 220kV Double circuit line. Clause 9.2 a criteria not met.	It may create power supply reliability issue in Summer'18. Around 1.0 Lacs Consumers may experience the power interruption on rotational basis. It is around 6.66% of total TPDDL consumer base.	With regard to Mundka –Peera Garhi Ckt-I & II, it is stated that the cable is of 1000 sq mm and is capable to meet the contingency of outage of one ckt. Further, the Peeragarhi S/Stn. can be fed through 220kV Shalimar Bagh – Wazirpur- Peeragarhi D/C cable link, in case of any supply issue from Mundka.
6	220kV Bawana – Shalimar Bagh Ckt-I & II	196	Both 220 kV double circuit lines from Bawana to ShalimarBagh are running through same towers. If any tower gets collapsed, total 196 MW load of 220KV Shalimar Bagh cannot be restored fully during outage of both 220kV Double circuit line. Clause 9.2 a criteria not met	It may create power supply reliability issue in Summer'18. Around 1.3 Lacs Consumers may experience the power interruption on rotational basis. It is around 8.67% of total TPDDL consumer base.	With regard to Bawana - Shalimarbagh CKT I and II, it is stated that there is no issue of meeting the load of Shalimar Bagh. Further, Shalimar Bagh is connected through 220kV Mundka-Peeragarhi-Wazirpur-Shalimar

S. No	220 kV Transmission Line	Peak load (MW) at the time of Delhi peak (06.06.17 at 15:31 Hrs) Source - MoM of OCC-28.06.17	Constraints & Status of Reliability (n-2 criteria)	Impact	DTL response
					Bagh Link apart from 220 kV Bawana-Rohini-Shalimar Bagh D/C Transmission link.
7	220kV Bawana – Rohini Ckt-I & II	264	Both 220 kV double circuit lines from Bawana to Rohini are running through same towers. If any tower gets collapsed, total 264 MW load of 220KV Rohini cannot be restored fully during outage of both 220kV Double circuit line. Clause 9.2 a criteria not met	It may create power supply reliability issue in Summer'18. Around 2.5 Lacs Consumers may experience the power interruption on rotational basis. It is around 16.66% of total TPDDL consumer base.	With regard to Bawana – Rohini CKT I and II, it is stated that there is no issue of meeting the load of Rohini. Further, Rohini is connected through 220kV Bawana-Shalimar Bagh-Rohini D/C Transmission link also. The HTLS reconductoring work of Bawana – Rohini T/L is also being undertaken and is under tendering stage.

5.2 BYPL Agenda

The following points pertain to transmission system of works related to BYPL area :-

S. N	Scheme Name	Implementation Agency	Remarks/Update required by BYPL
1	Establishment of 220/33KV grid at Dev Nagar	DTL	This grid is proposed to be commissioned in FY 18-19. But as per information gathered, the scheme for establishment of 220/33KV grid at Dev Nagar is yet to be approved by Board of DTL. In Central Circle about 7 nos. Grids have 33KV infeed constraints and establishment of this grid is very much important for reliability of supply. DTL may provide the current status. Already covered at 3.2A4
2	2 no. additional 66 KV bays at Patparganj 220 KV for i) Mayur Vihar-ckt.II ii) Khichripur Circuit-II	DTL	In the SCM held on 29.6.17 this matter was deliberated and Steering Committee advised DTL to make available 2 additional bays at PPG 220 KV. The target date for providing these bays be given. The bays would be created by 31.03.2018 by using one capacitor bay and one available bay (equipments to be installed)

S. N	Scheme Name	Implementation Agency	Remarks/Update required by BYPL
3	2 no. additional 66 KV bays at Gazipur 220 KV grid for i) PPG Industrial area ckt-II ii) Vivek Vihar ckt. II	DTL	In the Steering Committee meeting held on 12-08-2016 it was assured by DTL that scheme for these 2 additional bays will be prepared by DTL as space will be available after modification of PPG-Gazipur-Noida 220 KV ckt. The Target date for providing these two additional bays be given so that BYPL could plan accordingly. The Bays would be established before Summer 2019.
4	Providing additional 6 nos. Bays at Harsh Vihar 400/220/66KV Grid sub station	DTL	The issue was raised by Steering Committee Meeting held on 15.3.17 and again on 29.6.17, wherein it was deliberated that considering the technical difficulties for taking out 66KV feeder from Harsh Vihar, DTL is exploring the possibilities for establishment of 220/66KV grid near load centre in BYPL area itself for better network connectivity at 66KV voltage level. The further action taken in this regard is required from DTL. The Bays would be established by 31.03.2019.
5	Requirement of 4 nos. Bays at Park Street 220 KV grid sub station	DTL	At this grid sub station 4 nos. of 33KV bays are to be made available by DTL for i) Prasad Nagar Grid ii) Shankar Road Grid iii) Tibeia College Ckt-1 iv) Tibeia College Ckt-2 DTL may provide the current status of readiness of these 4 no. Of 33 KV bays at Park Street 220 KV Matter may be discussed in Steering Committee meeting.
6	Issue in new 220 KV GIS Grids i) Providing sufficient safe working area for DISCOMs(Example is Preet Vihar 220/33 KV Grid) ii) Cable mounting structures in GIS	DTL	In DTL GIS grids, i) 66/33 GIS switchboards are installed on ground floor and provision of T/O feeders from these 66/33 GIS switchboards is in basement cellar. These cellars are congested and also. ii) DTL makes no provision for mounting/fixing of O/G cables. Whenever a new feeder is laid, its mounting structure is to be fixed and equipments like drill m/c, welding set etc. are required which is not safe. The provision of this be taken in the initial stage i.e. DESIGN PART of the grid to avoid unnecessary wastage of manpower.
	iii) Isolation of 66 KV and 33 KV cables without opening their cable ends		iii) In the GIS 66/33 KV switchboards, ISOLATORS are not existing, and DISCOMs have to provide H-pole structures in the yard area/or outside for isolating the cables. This causes unnecessary extra expenditure and delay in attending breakdown

GCC noted.

5.3 Agenda by BTPS

A meeting was held on 25th May 2017 in Raj Niwas, chaired by Hon'ble LG Delhi, where secretary (Power) Delhi informed that in view of EPCA directions and Delhi Govt's own commitment to reduction of air pollution in Delhi, the Badarpur Thermal Power Station is planned to be closed as soon as the Tughlakabad Inter State 400 KV substation, presently under construction by PGCIL is commissioned.

PGCIL representative confirmed that the work on the Tughlakabad substation is proceeding smoothly and would be completed by June 2018.

Based on the discussion in that meeting Badarpur station has made a generation plan for FY 2018-19, considering that the plant will run from 1.4.2018 to 30.6.2018 in FY 17-18.

All Planning required to run the units like maintenance of units, manpower planning, availability of fuels like coal, LDO & HSD are being made based on that consideration only.

Any last minute requirement to run the plant beyond 30.6.2018, would be difficult to meet until unless it is informed well in advance.

GCC is requested to deliberate this issue and intimate NTPC, Badarpur whether units are required to run beyond 30.6.2018 or not. If required then the date till which requirement is there may please be mentioned.

After deliberation, GCC advised that information regarding closure of BTPS will be intimated as soon as the decision for closure of the same will be received from Government.

5.4 Agenda by SLDC

01. RRAS accounts for ER and WR:

For issuing the RRAS Accounts at intrastate level, SLDC requires the block wise, station wise Delhi surplus data which is used in RRAS up.

In this regard, the matter has been taken in the meeting held on the issue of review of DSM methodology dated 27.01.2017, in which it is decided that SLDC will issue the account based on the methodology adopted by different RPCs. Accordingly, request has been given to NRPC,WRPC and ERPC to provide the data in the required format.

NRPC is providing the data on regular basis, whereas ERPC has provided the data up to week 38 FY 2016-17. WRPC informed that they are issuing Sasan RRAS account on the basis of allocation, so they can't provide the required data.

Due to above, SLDC Delhi is not able to issue the ER and WR region RRAS accounts.

In this regard Delhi SLDC is of the view that for ER/WR, station wise RRAS Up data which is available on ERLDC/WRLDC website may be used for issuing the accounts, So that the RRAS amount of ER/WR stations can be disbursed amongst discoms.

BRPL requested that the matter may please be again taken up with WRPC and ERPC for providing the requisite data. SLDC informed that despite of several pursuance with ERPC and WRPC, no data has been provided by them.

GCC advised all the Stakeholders to deliberate the matter in Delhi Commercial Sub-Committee meeting and inform the GCC accordingly.

2. Delhi STU Losses:

This is for the information of all the stakeholders, that Delhi STU losses will be 0.98% w.e.f. 14.08.2017.

GCC noted.

3 Reallocation of Power:

This is for the information of all the stakeholders that DERC in its tariff order dated 31.08.2017 has reallocated the power to various discoms from Aravali Jhajjar, GT, Dadri (Th) Stage -I & II, Salal, Sasan and Rihand-III stations which has been implemented w.e.f. 03.09.2017.

GCC noted.

4. Implementation of DERC directions on EDWPCL:

As per the DERC letter no.F.9 (170)/DERC/DS/2016-17/5290/1091 dated 04.09.2017 regarding COD of EDWPCL Gazipur and adoption of Tariff, Point wise implementation strategy is proposed hereunder:

S.N	DERC	IMPLEMENTATION	Decision of GCC
1	COD may be declared on successful trial run of this Waste to Energy Plant at 90% PLF for 24 hours.	As per the minutes of meeting held between BYPL and EDWPCL dated 08.06.2017 the COD of EDWPCL is considered 28.04.2017 at 00.00 Hrs.	GCC observed that as per PPA, the performance for CoD was conducted on 25.04.2017 for a period of 72 hours. However, plant could achieve 90% of rated capacity (ex bus) for 24 hours. BYPL & EDWPCL in its meeting held on 08.06.2017 mutually agreed to consider the CoD of the plant w.e.f. 00.00hrs. of 28.04.2017 by considering the test achieved for 24 hours on 27.04.2017 for consideration of CoD instead of 72 hours as required under PPA subjected to the approval of DERC. DERC vide its letter dated

S.N	DERC	IMPLEMENTATION	Decision of GCC																				
			04.09.2017 intimated that CoD may be declared on successful trial run of EDWPCL at 90% PLF for 24 hours. Accordingly, GCC decided that the CoD of EDWPCL (10MW) be considered w.e.f. 00.00hrs. of 28.04.2017.																				
2	The rate of infirm power prior to COD shall be settled as per the provisions of CERC DSM Regulations.	Infirm power settlement methodology will be as per CERC DSM regulation from synchronization date 21.12.2015 to 27.04.2017 from UI pool account maintained by SLDC. EDWPCL shall submit the Bank guarantee/LC in favor of Delhi SLDC.	As per DERC directions dated 04.09.2017, Infirm power settlement methodology will be as per CERC DSM regulation from the date of synchronization i.e. 21.10.2015 (as decided in Delhi OCC meeting dated 28.11.2016 and also agreed in 16 th GCC meeting dated 18.01.2017) to 27.04.2017 from UI pool account maintained by SLDC. EDWPCL shall submit the Bank guarantee/LC in favor of Delhi SLDC.																				
3	Balance power available other than through competitive bidding with EDWPCL shall be allocated to DISCOMs in the ratio of procurement of power from all sources.	Balance power available with EDWPCL allocated to Discoms in the ratio of procurement of power from all sources. % Allocation of Discoms from EDWPCL: <table border="1"> <thead> <tr> <th>BR PL</th> <th>BY PL</th> <th>TPD DL</th> <th>NDM C</th> <th>MES</th> </tr> </thead> <tbody> <tr> <td>25.63</td> <td>49</td> <td>20.92</td> <td>3.77</td> <td>0.68</td> </tr> </tbody> </table> <p>Above Allocations based on weighted average capacity allocation of Discoms for FY 2016-2017.</p>	BR PL	BY PL	TPD DL	NDM C	MES	25.63	49	20.92	3.77	0.68	Balance power available with EDWPCL allocated to Discoms in the ratio of procurement of power from all sources % Allocation of Discoms from EDWPCL is as under:- <table border="1"> <thead> <tr> <th>BR PL</th> <th>BY PL</th> <th>TPD DL</th> <th>NDM C</th> <th>MES</th> </tr> </thead> <tbody> <tr> <td>25.63</td> <td>49</td> <td>20.92</td> <td>3.77</td> <td>0.68</td> </tr> </tbody> </table>	BR PL	BY PL	TPD DL	NDM C	MES	25.63	49	20.92	3.77	0.68
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4	The plant shall forecast its generation as per CERC / DERC Regulations. However, no commercial/financial implication shall be applicable for deviation from the scheduled power up to two (2) years from the date of COD.	No DSM will be applicable till 27.04.2019. It will be treated same as BAWANA waste management plant.	GCC noted.																				

GCC noted.

5.5 BRPL Agenda

i) Merit Order Dispatch (MOD)

Background:

As per DERC tariff order dated 31st August 2017 the Hon'ble Commission has held Discom responsible for optimum scheduling of power as per MOD in view of clause 5.4 of terms and conditions of the license agreement. The relevant clause has been reproduced below.

“The Licensee shall purchase the energy required by the Licensee for Distribution and Retail Supply in an economical manner and under a transparent power purchase or procurement process.....”

However as per clause 2,(a) of section 32 of electricity Act 2003 SLDC is responsible for scheduling of power. The relevant clause has been reproduced below.

“(2) The State Load Despatch Centre shall -

(a) be responsible for optimum scheduling and dispatch of electricity within a State....”

Concerns: In view of the contradictory views between Hon'ble DERC's tariff order and the electricity Act 2003, we would request for issuance of detailed operating procedure of scheduling of power clearly mentioning the role and responsibility of SLDC, Discom and the generating station. The said scheduling procedure shall be put to Hon'ble DERC for approval prior to implementation.

GCC directed BRPL that the issue raised by BRPL is not in the ambit of GCC. BRPL is directed to take up the matter with appropriate authority.

ii) Compensation Charges

Background:

As per fourth amendment of IEGC dated 6.4.2016 CERC had directed that technical minimum for all the units shall be considered as 55% and NLDC had been asked to prepare Detailed Operating Procedure (DOP).

“1. The technical minimum for operation in respect of a unit or units of a Central Generating Station of inter-State Generating Station shall be 55% of MCR loading or installed capacity of the unit of at generating station.”

DOP was approved by CERC vide order dated 05.05.2017. DOP has been made effective from 15.05.2017.

As per clause 6 of DOP, RLDCs have to issue details in the final REA.

“(i) RPC secretariat will issue the compensation statement along with final REA for the month.”

In view of 4th amendment to IEGC Regulations being operational from 15th May 2017, NTPC and APPCL have raised bills for compensation payments as per the said amendment.

Concern- In view of implementation of the fourth amendment of IEGC we would request that detailed procedure for scheduling of power for complying to MOD should also have the impact of 4th amendment of IEGC to be incorporated in the requested procedure.

After deliberation, GCC directed that as per the 4th amendment of IEGC, generators have to submit the details with respect to compensation charges to the RPCs. Accordingly the discoms are directed to take up the matter with NRPC.

iii) **RRAS**

Background:

As per Central Electricity Regulatory Commission (Ancillary Services Operations) Regulations, 2015 dated 13th August 2015, Nodal agency was directed to prepare a detailed operating procedure for implementation of the said regulation.

“14. Detailed Procedure

14.1. The Nodal Agency shall, after obtaining prior approval of the Commission, issue the Detailed Procedure within a period of 3 months of notification of these regulations.

14.2. The Detailed Procedure shall contain the guidelines regarding operational aspects of RRAS including scheduling and dispatch and any residual matter.”

As per clause 12.3 of the DOP which was published by POSCO in March 2016, RPC's have to prepare an energy account for RRAS.

“12.3. A statement of RRAS energy account shall be prepared by the respective RPC secretariat on weekly basis along with the DSM Account based on the data provided by the concerned RLDC.”

Subsequently As per the clause 13.1, (d) of the DOP the RRAS provider shall refund the fixed cost to the original beneficiary.

“d) Fixed charges to be reimbursed by RRAS providers to the original beneficiaries”

Based on the above mentioned information, BRPL has been receiving payment/credit for generating companies for its share of power being utilized under RRAS.

Concern- However we would request RPC & Delhi SLDC to publish the backup of the RRAS energy account to enable cross verification of the RRAS energy account by Discoms as well.

SLDC submitted that the data available with SLDC has been shared with all the Discoms as and when requested by them. Accordingly GCC directed Discoms to collect the data from SLDC as and when required by them.

iv) **Signing of Long Term Access Agreement (LTAA) for 31 MW allocated to BRPL from DVC Chandrapura 7&8 Unit Generation Project**

Background:

DTL has signed a PPA for 400 MW with DVC on 24.08.2006. Later the PPA was assigned to Delhi Discoms based on DERC order dated 31.03.2007.

Based on original PPA DTL vide application dated 28.08.2006, applied for LTA of 230 MW from DVC pool power. PGCIL granted the approval on 25.09.2007. Based on this LTA power was being supplied to Delhi and other than this Delhi Discoms were procuring power under short term arrangement from DVC plants.

In 2012 BRPL applied for LTA in its balance share in 170 MW (400 MW-230 MW). But it was communicated to us vide MOP letter dated 19.03.2009, 100 MW power from Mejia#6 was allocated to Delhi and hence no further LTA quantum is available on Mejia#6, CTPS 7&8.

Hence total power allocation to Delhi from DVC was 230 MW+100 MW and only 70 MW (400-230-100) was available for grant of LTA and 40 MW out of 70 MW was already been allocated to TPDDL.

Then this issue was discussed at various forums and vide PGCIL letter dated 23.09.2013, 70 MW quantum was then granted among three Discoms of Delhi i.e. BRPL 31 MW, BYPL 19 MW and TPDDL 20 MW

Recently DERC on 27.02.2014 has revised the share of Discoms from ISGS plants.

BRPL Concern:

Issue 1: PGCIL vide its letter dated 01.08.17 has asked BRPL to sign the Long Term Access Agreement for 31 MW. BRPL vide letter dated 25.08.17 requested PGCIL to rectify the long pending issue of these DVC plants (Consideration of Auxiliary Consumption for DVC power and auto updation of LTA quantum of Delhi Discoms based on the allocation order of Hon'ble DERC).

PGCIL vide its letter dated 07.09.2017 has responded and clarified that quantum of ISGS allocation being used for billing of transmission charges for Delhi Discoms is taken from Delhi SLDC website (Details of Transmission Capacity allocation of Distribution Licensees). Hence PGCIL advised us to take up the matter with SLDC Delhi.

Hence BRPL request SLDC to use the latest allocation order of Hon'ble DERC for calculating transmission capacity allocation from All ISGS power plants.

SLDC informed that the weighted average entitlement of each discom is calculated as per the latest DERC order dated 01.09.2017. GCC directed Discoms that If there is any dispute in the allocation, the same may be taken up with DERC.

v) **Consideration of Auxiliary Consumption into the LTA granted from DVC plants**

CERC's (*Sharing of Inter State Transmission Charges and Losses*) Regulations, 2010, has come into force w.e.f. July'2011 as per the Regulations, for billing of transmission charges, the Regional Transmission Account (RTA) is being issued **on the basis of the power evacuated at ex bus of the generator**. It means the Approved injection of the generators and Approved withdrawal of DICs, for calculation of the Long Term Access quantum and Transmission bills, is being considered at ex-bus periphery, means after consideration of auxiliary consumption of generators. The LTAs applied by DTL, and Delhi Discoms, were based on their share from the Installed capacity of the generators. Further ERPC is issuing the RTA after consideration of the auxiliary consumption of generators except for the DVC generators.

Hence we request SLDC Delhi to take up the matter revise the LTA quantum of Delhi and Delhi Discoms with consideration of Auxiliary consumption.

GCC directed Discoms that If there is any dispute in the allocation, the same may be taken up with DERC.

vi **Revision of DC by ISGS / RLDC without adequate timeline in contravention of IEGC provisions**

IEGC provisions

Regulation 6.4 (16) of IEGC Regulations 2010

16. The ISGS shall make an advance declaration of ex-power plant MW and MWh capabilities foreseen for the next day, i.e., from 0000 hrs to 2400 hrs. During fuel shortage condition, in case of thermal stations, they may specify minimum MW, maximum MW, MWh capability and declaration of fuel shortage. The generating stations shall also declare the possible ramping up / ramping down in a block. In case of a gas turbine generating station or a combined cycle generating station, the generating station shall declare the capacity for units and modules on APM gas, RLNG and liquid fuel separately, and these shall be scheduled separately.

Regulation 6.5 (18) of IEGC Regulations 2010

18.[Revision of declared capability by the ISGS(s) having two part tariff with capacity charge and energy charge []56 and requisition by beneficiary (ies) for the remaining period of the day shall also be permitted with advance notice. Revised schedules/declared capability in such cases shall become effective from the 4th time block, counting the time block in which the request for revision has been received in the RLDC to be the first one.]

18(a) Notwithstanding anything contained in Regulation 6.5.18, III case of forced outages of a unit, for those stations who have a two part tariff based on capacity charge and energy charge for long term and medium term contracts, the RLDC shall revise the schedule on the basis of revised declared capability. The revised declared capability and the revised schedules shall become effective from the fourth time block, counting the time block in which the revision is advised by the ISGS to be the first one.

20. If, at any point of time, the RLDC observes that there is need for revision of the schedules in the interest of better system operation, it may do so on its own, and in such cases, the revised schedules shall become effective from the 4th time block, counting the time block in which the revised schedule is issued by the RLDC to be the first one.

21. To discourage frivolous revisions, an RLDC may, at its sole discretion, refuse to accept schedule/capability changes of less than two (2) percent of previous schedule/capability. The schedule of thermal generating stations indicating fuel shortage while intimating the Declared Capacity to the RLDC shall not be revised except in case of forced outage of generating unit.

Emphasis supplied.

Incidence of 31.08.2017

On 31.08.2017, SLDC intimated BRPL telephonically around 10:50 AM that Dadri 1 and Dadri 2 have reduced their DC due to coal shortage from 11:00 AM. It was

followed by an email communication received at 13:45 hours.

NRLDC issued rev no. 40 at 10:40 AM reducing DC and injection for these two stations w.e.f. 11:00 AM (just 20 minutes, whereas, as per IEGC provisions 4 time blocks are required.)

The reduction in DC in both the plants was in effect from 11:00 am itself leading to overdrawl in real time by BRPL for few slots.

It is requested that SLDC take up the issue of last minute schedule revision (in this case coal shortage, which could have been planned and avoided in last minute) by Gencos with NRLDC, in order to limit over drawl from grids by beneficiaries.

SLDC informed that they had taken up the issue with NRLDC on several occasions. GCC advised discoms to raise the issue in NRPC.

vii) **Automatic meter reading for ABT meter**

There is need for installation of AMR at DTL. ABT meters installed at inter-exchange points to facilitate on-line data availability which shall be useful for Availability of real time actual power demand which helps in better scheduling
Slot wise energy accounting
Ensuring proper meter health
Least energy and demand assessment

DTL shall avail updated meter and CTPT master on monthly basis (covering all changes recorded in the month) for correct accounting of actual demand and energy

DTL metering deptt. informed that BOQ for implementation of AMR has been prepared and budgetary offer has been asked from different agencies for preparation of estimate.

DTL has informed that updated meter read list is made available to DISCOMS as and when asked for.

GCC advised discoms to take up the information from DTL Metering Department.

6 HOSTING OF NEXT MEETING OF GCC

Convener GCC requested NDMC to host next (19th) meeting of GCC which is likely to be held during January 2018. NDMC representative expressed their inability to host the next meeting. However, he informed that NDMC can host 20th meeting of GCC. Accordingly, GCC decided that next GCC meeting will be hosted by DTL.

Meeting ended with thanks to Chair.

Annexure-1
List of participants attended the 18th, meeting of GCC held on 22.09.2017 at 03.00PM at Conference Hall, NRPC, Katwaria Sarai, New Delhi-110016

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