



दिल्ली ट्रांसको लिमिटेड DELHI TRANSCO LIMITED

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

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

Office of General Manager (SLDC)

एस एल डी सी बिल्डिंग, मंटो रोड, न्यू दिल्ली-110002

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No. F./DTL/207/16-17/GM(SLDC)/F.3/160

Dated : 08.03.2017

Subject : Minutes of meeting held on 10.02.2017 at SLDC, Conference Hall regarding System Studies carried out in coordination with Distribution Licensees and Generating Stations within Delhi

Sir,

The Minutes of meeting held on 10.02.2017 at Conference Hall, SLDC regarding System Studies carried out in coordination with Distribution Licensees and Generating Stations within Delhi are enclosed for ready reference and further necessary action please.

Thanking you,

Yours faithfully

Encl : As above

(V. VENUGOPAL)
General Manager (SLDC)

To

As per list of the participants through email.

Copy for favour of kind information to :-

1. Secretary (Power), Govt. of NCT of Delhi,
2. Chairperson, NDMC, Palika Kendra, Sansad Marg, New Delhi-110001
3. Secretary, DERC, Viniyamak Bhawan, C-Block, Shivalik, New Delhi-110017
4. Managing Director, DTL
5. Member Secretary, NRPC, Katwaria Sarai, New Delhi-110016
6. M.D., IPGCL / PPCL, Himadri, Rajghat Power House, New Delhi-110002
7. Director (Tech), IPGCL / PPCL
8. Executive Director (T), DTL, Planning Department, DTL, Jhandewalan, Delhi.
9. Executive Director (Engg), DERC, Viniyamak Bhawan, Malviya Nagar, New Delhi.
10. General Manager, NRLDC
11. General Manager, Badarpur Thermal Power Station, NTPC, Badarpur, New Delhi.
12. General Manager (C&RA), DTL
13. CEO, BRPL, BSES Bhawan, Nehru Place, New Delhi-110019
14. CEO, BYPL, Shakti Kiran Building, Karkardooma, New Delhi-110092
15. CEO, TPDDL, 33kV Grid S/Stn, Hudson Lane, Kingsway Camp, Delhi-110009

16. Chief Engineer (Electrical)-I, NDMC
17. Director (Power), NDMC, Room No. 5016, 5th Floor, Palika Kendra, Sansad Marg, New Delhi.
18. Chief Engineer, Delhi Zone,(CEDZ), MES, Delhi Cantt, New Delhi-110010
19. Addl. Secretary (Power), Govt. of NCT of Delhi, Delhi Secretariat, New Delhi.
20. Dy.G.M.(System Operation), SLDC
21. Dy. G.M. (SCADA), SLDC
22. Manager (System Operation)-Shift, SLDC
23. Manager (System Operation), SLDC
24. Manager (Energy Accounting), SLDC



DELHI TRANSCO LTD.

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[Office of General Manager (SLDC)]

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Subject : Summary of record of discussions in the meetings held in SLDC on 10.02.17 at SLDC, Conference Hall regarding System Studies carried out in coordination with Distribution Licensees and Generating Stations within Delhi

Secretary (Power) has taken meetings with regard to transmission constraints at various Distribution Licensees areas on 12.01.2017, 16.01.2017 & 17.01.2017 for BRPL, BYPL and TPDDL respectively.

During the meetings it was informed that following transmission elements are likely to be commissioned/already been commissioned since last summer :

- (i) 220KV Harsh Vihar- Preet Vihar 6 Patparganj 1200 mm² D/C cable line 6 Already commissioned on 23.12.2016
 - (ii) LILO of 220KV one circuit between 220KV Sarita Vihar and Pragati at 400KV Maharani Bagh likely to be commissioned by 15th March, 2017.
 - (iii) One additional -220/33Kv Power Transformer at Peeragarhi - likely to be commissioned on 30th June, 2017.
 - (iv) One additional 100MVA Transformer at Masjid Modh 6 Likely to be commissioned by 30.06.2017.
 - (v) One additional Transformer alongwith 220KV GIS at Lodhi Road 6 Likely to be commissioned by 31.05.2017.
 - (vi) 220KV LILO of one circuit between Naraina and Bamnauli at Pappankala-I 6 Likely to be commissioned by 30.06.2017.
- 3 It was emphasized in the meeting that a System Study be carried out considering the augmentation work already carried out / being carried out before Summer 2017 and taking the inputs from Distribution Licensees and Generating Stations operating in Delhi.
 - 4 Accordingly, a meeting was convened in SLDC to carry out the study on 10.02.2017 at 03.00PM.
 - 5 Executive Director (Planning) chaired the Meeting. The List of participants is enclosed as Annexure.

6 Facts considered

a) Generation within Delhi.

Name of the station	Generation at the time of 6261MW on 01.07.2016	Generation assumed for 6600MW	Variable charges in Rs./Unit during last year summer period
GT	163	78	3.83
Pragati	292	275	3.36
BTPS	356	320	3.56
Bawana	304	300	2.67
TOWMCL	16	16	2.69 composite
Bawana WTE	--	18	7.03 composite (commissioned on 28.02.17)
Total	1131	1007	

b) Load duration profile during April 2016 to September 2016.

April 2016

LOAD REMAINED ABOVE IN MW	DURATION IN HOURS	(%) OF TIME	LOAD REMAINED ABOVE IN MW	DURATION IN HOURS	(%) OF TIME
4700	1.00	0.14	3400	466.25	64.76
4600	7.00	0.97	3300	510.75	70.94
4500	13.75	1.91	3200	551.25	76.56
4400	28.00	3.89	3100	593.50	82.43
4300	45.50	6.32	3000	628.75	87.33
4200	82.75	11.49	2900	661.25	91.84
4100	122.25	16.98	2800	682.25	94.76
4000	159.00	22.08	2700	704.25	97.81
3900	201.25	27.95	2600	708.00	98.33
3800	251.50	34.93	2500	712.50	98.96
3700	307.75	42.74	2400	716.25	99.48
3600	362.50	50.35	2300	718.25	99.76
3500	416.00	57.78	2200	720.00	100.00

May 2016

LOAD REMAINED ABOVE IN MW	DURATION IN HOURS	(%) OF TIME	LOAD REMAINED ABOVE IN MW	DURATION IN HOURS	(%) OF TIME
6000	2.25	0.30	4500	328.50	44.15
5900	5.00	0.67	4400	375.50	50.47
5800	8.25	1.11	4300	417.00	56.05
5700	12.00	1.61	4200	457.00	61.42
5600	19.50	2.62	4100	497.25	66.83
5500	30.25	4.07	4000	534.00	71.77
5400	44.50	5.98	3900	565.00	75.94
5300	63.25	8.50	3800	599.50	80.58
5200	86.75	11.66	3700	631.00	84.81
5100	110.50	14.85	3600	660.25	88.74
5000	135.50	18.21	3500	680.50	91.47
4900	166.75	22.41	3400	698.75	93.92
4800	199.75	26.85	3300	714.00	95.97
4700	243.25	32.69	3200	733.00	98.52
4600	285.50	38.37	3100	739.75	99.43
			3000	744.00	100.00

June 2016

LOAD REMAINED ABOVE IN MW	DURATION IN HOURS	(%) OF TIME	LOAD REMAINED ABOVE IN MW	DURATION IN HOURS	(%) OF TIME
Above 3300	720.00	100%	Above 2900	720.00	100%
Above 3800	688.75	95.66%	Above 3500	673.56	93.55%
Above 4300	579.24	80.45%	Above 4100	485.35	67.41%
Above 4800	397.22	55.17%	Above 4700	245.81	34.14%
Above 5300	167.76	23.30%	Above 5300	52.49	7.29%
Above 5800	20.02	2.78%	Above 5800	4.61	0.64%
Above 6000	4.54	0.63%	Above 6000	1.73	0.24%
Above 6200	0.50	0.07%			

August 2016

LOAD REMAINED ABOVE IN MW	DURATION IN HOURS	(%) OF TIME	LOAD REMAINED ABOVE IN MW	DURATION IN HOURS	(%) OF TIME
5600	1.00	0.13	4200	437.25	58.77
5500	2.25	0.30	4100	471.00	63.31
5400	6.00	0.81	4000	509.25	68.45
5300	12.25	1.65	3900	545.25	73.29
5200	22.50	3.02	3800	580.00	77.96
5100	41.00	5.51	3700	614.25	82.56
5000	62.50	8.40	3600	656.00	88.17
4900	87.75	11.79	3500	686.50	92.27
4800	118.25	15.89	3400	710.00	95.43
4700	167.50	22.51	3300	727.50	97.78
4600	218.00	29.30	3200	735.75	98.89
4500	274.50	36.90	3100	741.00	99.60
4400	331.50	44.56	3000	742.50	99.80
4300	388.50	52.22	2900	744.00	100.00

Sept 2016

LOAD REMAINED ABOVE IN MW	DURATION IN HOURS	(%) OF TIME	LOAD REMAINED ABOVE IN MW	DURATION IN HOURS	(%) OF TIME
5200	2.50	0.35	4100	469.75	65.24
5100	8.00	1.11	4000	501.00	69.58
5000	21.25	2.95	3900	534.75	74.27
4900	56.25	7.81	3800	569.75	79.13
4800	101.00	14.03	3700	610.75	84.83
4700	157.25	21.84	3600	640.50	88.96
4600	229.25	31.84	3500	673.25	93.51
4500	295.00	40.97	3400	696.75	96.77
4400	351.25	48.78	3300	707.75	98.30
4300	393.75	54.69	3200	717.00	99.58
4200	436.00	60.56	3100	720.00	100.00

Gist of Discussions and decisions:-

Study carried out in different configuration of system

Case No.1:

220KV supplies received from 400KV S/Stn. namely Maharani Bagh, Bamnauli, Mandola and Harsh Vihar are made parallel.

This was achieved by closing the 220KV Bus Coupler at Patparganj, Pragati, Mehrauli and Ghazipur. The result of the study shows the over loading of following significant transmission links:

- a) 220KV D/C Ballabgarh - BTPS carrying the load of 212MW each, whose safe limit is 150MW each without considering any margin to meet any contingency. It was also explained that conductor is having sufficient margin, but the transmission link between 220KV Ballabgarh and Samaypur has the problem. In the last summer also there was two incidents (on 09.06.2016 at 14:27hrs and 01.10.2016 at 15:12hrs) at 400kV Samaypur S/Stn. resulting into the power crisis in South Delhi areas.
- b) 220KV Wazirabad- Mandola Circuit No.1, 2, 3 & 4 are found carrying 171MW each against the normal capacity of 160MW each. It was also explained that generation scenario assumed in the study for GT Generation ó 78MW (one module), Pragati- 275MW, BTPS- 320MW (both units of 210MW). The Generation variation can ease the loading of these Circuits, but cost of generation of Pragati and GT Station would be more as generation available of APM is not more than one modular GT and about 265MW generation at Pragati.
- c) 220KV Bamnauli-Pappankala I Circuit I & II ó The load is 194MW each circuit against the normal capacity of 150MW each. Pappankala I S/Stn. is readily fed from 220KV Bamnauli and S/Stn. is fully loaded. It was suggested one circuit of 220kV Bamnauli- Naraina Ckt (HTLS) would be LILOed at Pappankalan-I by July 2017 and can be made parallel with the existing two circuits till the peak exists for shorter duration to ease the load of Bamnauli ó Pappankala-I Ckts.
- d) 220kV Mandola ó Gopalpur Ckts, 220kV BTPS ó Okhla Ckts. are also found overloaded basically due to radial feeds.
- e) However, it was revealed that 220KV Harsh Vihar- Preet Vihar, Patparganj link has CTs at Patparganj (600Amps), Preet Vihar (1600Amps) be enhanced to 800amp., from the existing of 600amp. So that maximum capability of 1200 sq.mm cable can be utilized. It may also be noted that the CT at Harsh Vihar is 800 amp. And Preet Vihar it is 1600amp. With regard to reliability issue is concerned in this configuration 13 pairs of 220KV transmission lines are not meeting n-1 reliability criteria. For Zebra Conductor, the capacity for computing the reliability criteria is 132MW which is the surge impedance loading of such capacity circuits.

Case No.2

At Pragati 220KV S/Stn. the Bus Coupler is kept open i.e. supply from 400kV Mandola, Harsh Vihar, Maharani Bagh and BTPS would run parallel. At Pragati, ½ of generation would be running with BTPS and Maharani Bagh supply.

With same generation, scenario were observed almost same as Case No.1

Case No.3

220kV supply from 400kV Mandola, Harsh Vihar closed loop operation, 220kV supply from Bamnauli along with 220kV BTPS – Ballabgarh in closed loop operation and 220kV Bus coupler opened at Pragati.

Operation at 220KV supply independently i.e. Mandola and Harsh Vihar together, BTPS- Bamnauli-Ballabgarh together and Maharani Bagh supply with 2 units of Pragati. In this case, it was found that almost all circuits are running at normal loading conditions except the circuits at 220kV Bamnauli-Pappankala-I, Gopalpur-Mandola, 220kV BTPS ó Okhla Ckts circuits which are basically due to feeding of radial loads as mentioned above. Improvement is significant at 220KV Wazirabad- Mandola circuit loading & it is seen as running on normal condition.

Case No.4

BTPS generation is kept zero with case Case-3

Generation at BTPS is Nil with case 3 conditions. It was found that apart from radial fed circuits namely, 220kV Bamnauli ó Pappankalan-I CKts, 220kV Mandola ó Gopalpur Ckts, 220kV BTPS ó Okhla Ckts, the load of 220KV Ballabgarh ó BTPS Circuit, the load is 202MW against the normal capacity of 150MW. Similarly on 220KV Bamnauli DIAL circuits are also carrying 171MW load against normal limit of 150MW.

Load on 220KV Wazirabad-Mandola circuits are also more than 186MW each against the normal capacity of 160MW each.

Summarising the above it was concluded that case No.3 is best suited to meet the Summer demand of 6600 MW. It was also emphasized that critically loaded lines such as 220KV Mandola-Gopalpur circuits, 220KV Bamnauli- Pappankala–I circuits, 220KV BTPS - Okhla Circuits, BTPS-Mehrauli Circuits special protection schemes be activated to take care of tripping of any one of the circuits to avoid the trippings of other circuits due to overloading.

8 Results of the Study i.e. line loadings are enclosed as Annexure-2. However, sub-station wise loadings and analysis emerged out from the system study (based on case-3) is appended hereunder:-

a) 400KV Sub-Stations

S. NO.	SUB-STATION NAME	TRANSFORMER RATING	MVA capacity	Capacity in MW at 0.85PF	MW Loading at the time of last year peak	MW Anticipated loading at the time of 6600MW	MW Anticipated loading at the time of 6600MW, when BTPS = 0	GIST OF DISCUSSION
1	MANDOLA	400/220kV 500MVA ICT-1 400/220kV 500MVA ICT-2 400/220kV 500MVA ICT-3 400/220kV 500MVA ICT-4 Total	500 500 500 500 2000	425 425 425 425 1700	364 232 358 362 1316	350 350 350 350 1400	340 340 340 340 1360	(N-1) Criteria meets
2	BAWANA	400/220kV 315MVA ICT-1 400/220kV 315MVA ICT-2 400/220kV 315MVA ICT-3 400/220kV 315MVA ICT-4 400/220kV 315MVA ICT-5 400/220kV 315MVA ICT-6 Total	315 315 315 315 315 315 1890	268 268 268 268 268 268 1607	169 143 170 141 168 136 927	150 150 150 150 150 150 900	150 150 150 150 150 150 900	(N-1) Criteria meets
3	BAMNAULI	400/220kV 315MVA ICT-1 400/220kV 500MVA ICT-2 400/220kV 500MVA ICT-3 400/220kV 315MVA ICT-4 Total	315 500 500 315 1630	268 425 425 268 1386	217 345 345 218 1125	225 345 345 225 1140	285 455 455 285 1480	(N-1) Criteria does not meet in case of outage of 500MVA ICT
4	MAHARANIBAGH	400/220kV 315MVA ICT-1 400/220kV 315MVA ICT-2 400/220kV 500MVA ICT-3 400/220kV 500MVA ICT-4 Total	315 315 500 500 1630	268 268 425 425 1386	180 180 270 270 900	195 195 310 310 1010	160 160 250 250 820	(N-1) Criteria does not meet in case of outage of 500MVA ICT
5	MUNDKA	400/220kV 315MVA ICT-2 400/220kV 315MVA ICT-3 400/220kV 315MVA ICT-4 Total	315 315 315 945	268 268 268 803	175 180 172 527	235 235 235 705	235 235 235 705	(N-1) does not meet, though additional 315MVA ICT is to be installed by _____
6	HARSH VIHAR	400/220KV 315MVA TX-1 400/220KV 315MVA TX-2 400/220KV 315MVA TX-3 Total	315 315 315 945	268 268 268 803	83 83 0 166	165 165 165 495	185 185 185 555	(N-1) Criteria meets

a. 220KV Sub stations.

Main S. No.	Anticipated load during summer 2017						Anticipated % usage	Gist of Discussion
	Sub S. No.	NAME OF THE GRID	INSTALLED CAPACITY OF 220/66 & 220/33 KV TRANSFORMERS IN		6261 MW ON 01.07.2016 AT 15.10.32 HRS.	ANTICIPATED PEAK LOAD FOR SUMMER 2017 6600 MW		
			(MVA)	(MW) at 0.85pf				
NORTH DELHI								
1	1	Narela	300	255	211	230	90.2	TPDDL to shift the load to DSIDC Bawana once 220/66kV Tikri Khurd S/Stn is commissioned, the load would be shifted from Narela. The target date of commissioning of Tikri Khurd is Dec.2018
2	2	Gopalpur	300	255	183	195	76.5	The issue is with regard to only one available 220/66kV transformer. The ultimate solution is establishment of 66kV GIS along with 160MVA Tx. in place of existing 220/66kV Tx.. It is under retendering stage and expected completion is two years from date of award of work. However the target date of commissioning of system is December 2018. At present, a temporary 66kV system is established at Shalimar Bagh to meet the exigency which would be readied by 31.05.2017.
3	3	Rohini	400	340	304	327	96.2	It is informed that about 50MVA load would be shifted to Kanjhawala before peak summer season by TPDDL. During the meeting, TPDDL representative informed that they have planned to shift 50MVA load to 220kV Khanjawala grid considering the installed capacity of 360MVA but only 200MVA installed capacity is considered at 220kV Khanjawala s/stn. It may create over loading and (N-1) Constraint at 220kV Khanjawala Grid.
4	4	Rohini-II	320	272	46	50	18.4	About 50MVA load would be added to the system to give relief at Narela, Rohini etc by June 2017
5	5	Shalimarbagh	300	255	105	114	44.7	TPDDL representative informed that a temporary arrangement is being made to provide load relief to 220 Gopalpur and 220 Narela s/stn, 01 no of 100 MVA Trf at 220 Shalimarbagh to be converted from 220/33kV to 220/66kV. Approx 90 MVA load at 66kV level to be added from Narela, Gopalpur and Rohini. Therefore only 200 MVA installed capacity would be available at 33kV level at 220 Shalimarbagh Grid.
6	6	Wazirpur	200	170	143	156	91.8	The load is interchangeable with Shalimar Bagh TPDDL representative informed that total 33kV load of 220 Wazirpur and 220 SMB would be approx. 280 MVA. After converting 01 no of 100 MVA Trf from 33kV to 66kV level, only 200 MVA capacity would be available at 33kV level at 220 kV Shalimar Bagh Grid. One 220/33kV 100 MVA Trf at 220kV Wazirpur Grid is faulty since 19.10.2016. Earlier it was to be revived by Mar07 but now it is expected to be revived by 31.07.2017. In that case it will create severe capacity constraints at 220 Wazirpur Grid and may lead to load shedding even in normal operating condition. Therefore restoration of 100 MVA Trf is critically required at 220 kV Wazirpur Grid.

Main S. No.	Anticipated load during summer 2017						Anticipated % usage	Gist of Discussion
	Sub S. No.	NAME OF THE GRID	INSTALLED CAPACITY OF 220/66 & 220/33 KV TRANSFORMER S IN		6261 MW ON 01.07.20 16 AT 15.10.32 HRS.	ANTICIPATED PEAK LOAD FOR SUMMER 2017 6600 MW		
			(MVA)	(MW) at 0.85pf				
7	7	Bawana	100	85	57	62	72.9	Load is interchangeable.
8	8	Kanjhawala	200	170	121	132	77.6	160MVA Tr. under procurement, which was shifted to Papankalan-I TPDDL representative informed that to provide the load relief to 220kV Rohini s/stn, they planned to shift the 50 MVA load to 220 kV Kanjhawala Grid considering the installed capacity of 360 MVA. But only 200 MVA installed capacity is shown at 220 kV Kanjhawala Grid. It may create overloading and N-1 constraints at 220kV Kanjhawala Grid. Therefore restoration of 160 MVA Trf is critically required at 220 Kanjhawala before summer17.
9	9	DSIIDC Bawana	360	306	161	160	52.3	
10	10	Through Rohtak Road grid of BBMB	300	255	165	179	70.2	
		TOTAL	2780	2363	1496	1605	67.9	
WEST DELHI								
11	1	Najafgarh	400	340	272	297	87.4	
12	2	Papankalan-1	520	442	355	382	86.4	About 50MVA can be shifted to Peera Garhi through newly created 33kV Mukherjee Park Ckt-I & II from Peera Garhi
13	3	Papankalan-2	520	442	304	325	73.5	About 50MVA load can be shifted to Pappankalan-III as when Pappankalan-III S/Stn is commissioned the substation Pappankalan-III is expected by August 2017.
14	4	Naraina	300	255	184	201	78.8	
15	5	Mundka	320	272	129	140	51.5	
16	6	Peeragarhi	300	255	112	120	47.1	Additional Tr. expected by May 2017.
		TOTAL	2360	2006	1356	1465	73.0	
SOUTH DELHI & NDMC								
17	1	Mehrauli	460	391	236	245	62.7	
18	2	Okhla	500	425	308	321	75.5	Part load could be shifted to Masjid Moth after commissioning of 3 rd Tx at Masjid Moth.
19	3	Masjid Moth	300	255	151	164	64.3	Additional Tr. expected by May 2017.
20	4	Sarita Vihar	300	255	179	178	69.8	
21	5	Lodhi Road	300	255	166	181	71.0	Additional Tr. expected by May 2017.
22	6	Vasant Kunj	360	306	155	160	52.3	
23	7	DIAL	320	272	44	48	17.6	
24	8	Ridge Valley	320	272	105	114	41.9	
		TOTAL	2860	2431	1344	1411	58.0	
EAST DELHI								
25	1	Wazirabad	460	391	223	243	62.1	
26	2	Patparganj	500	425	295	218	51.3	
27	3	Geeta colony	200	170	106	116	68.2	Load is interchangeable with Patparganj.
28	4	Gazipur	360	306	137	146	47.7	
29	5	Harsh Vihar	480	408	157	170	41.7	
30	6	Preet Vihar	200	170	0	60	35.3	
		TOTAL	2200	1760	918	953	54.1	

Main S. No.	Anticipated load during summer 2017						Anticipated % usage	Gist of Discussion
	Sub S. No.	NAME OF THE GRID	INSTALLED CAPACITY OF 220/66 & 220/33 KV TRANSFORMERS IN		6261 MW ON 01.07.2016 AT 15.10.32 HRS.	ANTICIPATED PEAK LOAD FOR SUMMER 2017 6600 MW		
			(MVA)	(MW) at 0.85pf				
CENTRAL DELHI & NDMC								
31	1	Park Street	400	340	251	273	80.3	NDMC should shift maximum load to Electric Lane. At present NDMC feeder wise load 33kV Braid Road Ckt. I&II (160Amp), 33kV Hanuman Road (160Amp), 33kV Nirman Bhawan (130Amp), 66kV B.D.Marg Ckt. I&II (205Amp), 66kV DMRC Ckt. I & II (190Amp), 66kV State Guest House Ckt. (40Amp), 66kV School Lane ckt. (145Amp), 66kV Ridge Vally Ckt. I & II (Off), Shastri Park Ckt. I & II (870Amp).
32	2	IPExtension (GT)	320	272	107	117	43.0	
33	3	Subzimandi	200	170	161	176	103.5	Ht ultimate solution is Chandrawal S/Stn. The sub-station is expected by Summer 2019.
34	4	Kashmerigate	200	170	99	108	63.5	
35	5	IP Station	300	255	232	250	98.0	Load would ease after commissioning of 3rd Tr. at Lodhi Road.
36	6	Rajghat	200	170	71	77	45.3	
37	7	Trauma Center	200	170	90	98	57.6	
38	8	Electric Lane	200	170	61	67	39.4	
		TOTAL	2020	1717	1072	1166	67.9	
		GRAND TOTAL	12220	10277	6186	6600	64.2	

9 In above conditions, the details of the transmission lines not meeting the reliability index of (n-1) are as under:-

S. No.	Name of the Element	Loading at the time of 6261MW last year Summer peak on 01.07.2016		CASE-3 (System running in Radial mode)	Remedies
		MW	MVAR	Anticipated Loading at the time of 6600MW	
				MW	
1	220 KV BAMNAULI-PAPANKALAN-I CKT-I	187	24	194	PPK-I & PPK-II are radially fed substations. To control the loading of PPK-I ckt LILO of One ckt between Bamnauli-Nariana(HTLS) is proposed. 400kV Dwarka Grid is also envisaged and both PPK-I & PPK-II would be fed through 400KV Dwarka Grid which would be the permanent solution. The Target date of commissioning of Dwarka before Summer 2019. The conductors are proposed with HTLS conductors and completion target is Mar-18.
2	220 KV BAMNAULI-PAPANKALAN-I CKT-II	162	3	194	
3	220 KV BAMNAULI-PAPANKALAN-II CKT.-I	154	28	166	
4	220 KV BAMNAULI-PAPANKALAN-II CKT.-II	150	26	166	
5	220 KV BAWANA-ROHINI CKT.-I	160	6	166	
6	220 KV BAWANA-ROHINI CKT.-II	137	3	166	

S. No.	Name of the Element	Loading at the time of 6261MW last year Summer peak on 01.07.2016		CASE-3 (System running in Radial mode)	Remedies
		MW	MVAR	Anticipated Loading at the time of 6600MW	
				MW	
7	220 KV BTPS - BALLABGARH CKT. -I	-131	-11	-149	Loading conditions would be resolved by commissioning of 400kv Tughalkabad. The Target date of commissioning is before summer-19 and Reconductoring of ckts is also under consideration of CEA.
8	220 KV BTPS - BALLABGARH CKT. -II	-128	-9	-149	
9	220 KV GOPALPUR-MANDAULA CKT.-I	-176	-22	-188	
10	220 KV GOPALPUR-MANDAULA CKT.-II	-179	-25	-188	
11	220 KV MEHRAULI-BTPS CKT.-I	-80	-15	-140	The conductors are proposed to be augmented with HTLS conductors and the completion target is before Summer-19.
12	220 KV MEHRAULI-BTPS CKT.-II	-81	-15	-140	
13	220 KV OKHLA-BTPS CKT.-I	-161	0	-168	Okhla is proposed to be connected to 400kv Tuglakabad S/stn after that loading will be reduce. The Sub-station is expected by Summer 2019.
14	220 KV OKHLA-BTPS CKT.-II	-162	-4	-168	
15	220 KV PRAGATI-PARK STREET CKT.-I	113	-10	137	Establishment of 400kv Maharani Bagh (New) would resolve the loading conditions and interconnection with new stations.
16	220 KV PRAGATI-PARK STREET CKT.-II	141	-2	137	
17	220 KV WAZIRABAD-MANDAULA CKT.-I	-186	-25	-152	Establishment of 400kv Maharani Bagh(New) would resolve the loading conditions.
18	220 KV WAZIRABAD-MANDAULA CKT.-II	-171	3	-152	
19	220 KV WAZIRABAD-MANDAULA CKT.-III	-184	-31	-152	
20	220 KV WAZIRABAD-MANDAULA CKT.-IV	-191	-28	-152	
21	220 KV HARSH VIHAR - PREET VIHAR CKT. -I	0	0	228	Establishment of 400kv Mahrani Bagh(New) would resolve the loading conditions.
22	220 KV HARSH VIHAR - PREET VIHAR CKT. -II	0	0	228	
23	220 KV PREET VIHAR - PATPARGANJ CKT. -I	0	0	198	Establishment of 400kv Mahrani Bagh(New) would resolve the loading conditions. The Sub-station is expected by Summer 2019.
24	220 KV PREET VIHAR - PATPARGANJ CKT. -II	0	0	198	

10 Other general decisions.

- a) All the transformers should be allowed to load upto the full rated capacity. To avoid trippings of other transformers due to the tripping of any of the transformer, critically loaded S/Stn. like Pappankala-I, Park Street, Najafgarh, Rohini, Wazirpur, Narela, Sabzi Mandi etc. should be provided with special protection scheme and load to be identified by Protection Department in co-ordination with DISCOMs.
- b) The following long outage Transmission System elements be put on service as targeted without any further slippage. In the event of forced outages/break down of transmission element available generation at the load centres namely IPGCL's GT and Pragati and BTPS would be enhanced to control the line loadings.

Sr. No	NAME OF THE ELEMENT	DATE & TIME OF OUTAGE		REMARKS
1	400kV Bamnauli ó Jhatikara Ckt-I	22.05.2016	20:30	Dead end tower-169 along with gantry collapsed at Bamnauli end on 22.05.2016. Ckt-II charged on ERS. The tower is expected to be revived by end of April 2017
2	315MVA ICT-I at 400kV Bawana	11.12.2016	08:37	Tx. damaged. Tx available at Mundka will be installed in its place. Expected by 31.03.2017. No load constraints at Bawana as there are five 315MVA ICTs are there
3	220/66kV 100MVA Pr Tr.-III AT 220kV Pappankalan-I	04.09.2016	06:35	HV side Y' phase winding damaged. The Tx. is being replaced with 160MVA Tx. available at 220kV Kanjhawala S/Stn. Expected by 10.04.2017
4	220/33kV 100MVA PR.TR.-I AT 220kV Wazirpur	19.10.2016	16:48	Problem in Tx winding. To be attended by OEM ó EMCO at their site. Expected by 31.07.2017. During the discussion, TPDDL representative informed that they had discussion with MD,DTL on this issue and it was decided that 100MVA Transformer for Preet Vihar would be diverted to Wazirpur and Commissioned before 1 st of May 2017.
5	220/33kV 100MVA Pr. Tx.-II at Geeta Colony	01.12.2016	08:38	D.G.A. results of Tr. Oil are not within permissible limits. The Tx is being replaced. Expected by end of April 2017
6	220/33kV 100MVA Pr. Tr.-II at 220kV Park Street	11.09.2016	20:43	Tx to be replaced. Expected by second week of April 2017.
7	220kV Maharani Bagh ó Gazipur Ckt-I & II	08.12.2016	13:30	Shut-down availed by PWD till March 2017 for construction of extended portion of Barapulla flyover.

- c) In the Grid Coordination Meeting held on 18.01.2017, Distribution Licensees have intimated that following elements would be added to enhance the reliability of supply for Summer 2017.

BYPL

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 17	Two additional bays are required to be established at Park Street. Steering Committee meeting (SCM) approved the scheme in its meeting held on 30.06.2016. Scheme under preparation.
2	Providing In-feed to the Tibia College Grid from 220 KV Park Street Grid	March 17	-do-
3	GH-II 25 MVA	March 17	-
4	Dallupura 25 MVA	June 17	-
5	Ghonda 25 MVA	July 17	-
6	Dwarkapuri 25 MVA	Apr 17	-
7	15 to 25 MVA BG Road	March 17	-
8			
9	Conversion of O/H portion into U/G cable from 33 KV Narayna Grid to DMS Grid.	March 17	-

S. No.	Details of augmentation	Scheduled completion date	DTL's integration requirement & updated status
10	Replacement of 33 KV MOCB with VCB	March 17	-
11	Replacement of 66 KV MOCB with SF6 Circuit Breakers	March 17	-
12	Replacement of Old CRP	March 17	-
13	Modification In DMS Grid	March 17	-
14	220kV Preet Vihar to Preet Vihar and CBD-I		<p>Allocation of two Bays at 220 KV Preet Vihar Grid. 33kV feeder alignments has been discussed in the SCM held on 10.07.2015, 20.10.2015 and 10.03.2016 wherein following feeder arrangements have been finalized.</p> <ul style="list-style-type: none"> • Preet Vihar Grid 6 Feb 2017 • CBD-1 Grid 6 Feb 2017 • Guruangad Nagar 6Apr-2017 • Shakar Pur 6Apr-2017 • CBD-2 -2017-18 • Dwarka puri 2017-18 • Jhilmil Indl. Area 2017-18 • GT Road -2017-18 • Karkardooma-2017-18 • Kanti Nagar-2017-18 <p>Steering Committee had also stressed to ensure more evacuation from the S/Stn., so that existing S/Stns./Systems are not over stressed and to ensure maximum evacuation from 945MVA, 400kV Harsh Vihar S/Stn. The Preet Vihar S/Stn. is being established by PGCIL on behalf of DTL and is in the advance stage of commissioning.</p>
15	220kV Preet Vihar to Guru Angad Nagar and ShakarPur By LILO	June 17	-do-
16	Addition 25 MVA at Vivek Vihar	May 17	-
17	Providing 33KV Infeed for New Grid, C-Block Krishna Nagar	Apr 2017	Installation of equipments in 2 Nos Bays (already allocated to BYPL) at 220 KV Geeta Colony. The work has been awarded. Expected by April 2017. In the meantime, 33kV Geeta Colony Ckrs is proposed to be LILOed at Krishna Nagar.
18	Shifting of EHV network at NH-24 due to widening of Road by NHAI	May 17	-

BRPL

S. No.	Details of augmentation proposed	Scheduled completion date	DTL's integration requirement and updated status
1	Additional Power Transformer at Jaffarpur	Oct-16	Commissioned
2	Additional Power Transformer at Jamia	Apr 17	<p>Commissioning of 220/33 kV S/Stn. at Maharani Bagh.</p> <p>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 Powergrid in MoU Route on behalf of DTL. 400kV ISTS at Maharani Bagh (instead of Rajghat) is being established. 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.</p>

S. No.	Details of augmentation	Scheduled completion date	DTL's integration requirement & updated status
3	Additional Power Transformer at A-4 Paschim Vihar	MAr,17	Additional 1x100MVA Power Transformer at Peeragarhi. For reliability of the S/Stn. is concerned, the 3 rd 100MVA Tx. is likely to be commissioned by June 2017.
4	ETC of 3 rd additional 66/11 kV 25MVA Power Transformer at DJB Najafgarh Grid S/Stn.	Feb,17	-
5	ETC of 4th additional 66/11 kV 25MVA Power Transformer at G-3 Bindapur Grid S/Stn.	Apr,17	-
6	Augmentation of PTR-1 & 3 at 33/11 kV Mukherjee park Grid Substation from 2x16 MVA to 2x25MVA	Mar,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.
7	Additional Power Transformer at Chaukhandi	May,17	Commissioning of 220 kV Budella. Already explained at S No. 6 above.
8	Augmentation of PTR-1 & 3 at 66/11 kV Batra Grid S/Stn. from 2x20MVA to 2x31.5MVA	Apr,17	Commissioning of 220/66kV Tuglakabad 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 December 2018. As such, 220/66kV, 160MVA Transformers with 66kV GIS would be established along with 400kV GIS at Tuglakabad.
9	Augmentation of PTR-2 & 3 at 66/11 kV G-5 Matiyala Grid S/Stn. from 2x20 MVA to 2x31.5 MVA	May-17	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.
10	ETC of 4th additional 66/11 kV 25 MVA Power Tx at G-2 PPK Grid S/Stn.	May-17	-
11	ETC of 4th additional 66/11 kV 25 MVA Power Tx at Paschim Vihar Grid S/Stn.	May-17	Commissioning of 220 kV Budella. Already explained at S No. 9 above.
12	New Grid at Fatehpur Beri	Jan 18	-
13	New Grid at G-7 Dwarka	May,17	Commissioning of 220 kV Pappankalan-III. Already explained at S No.9 above.
14	New Grid at Mithapur	May,17	Commissioning of 220 kV Tughlakabad Already explained at S No.8above

TPDDL

S. No.	Details of priority work	DERC Approval	Expected completion date	DTL's integration requirement	DTL's integration requirement and Updated status
1	Installation of 66/33 kV 50 MVA PTR at A-7 Narela Grid	Yes	May 2017	33kV Supply from 220 kV Narela to AIR Khampur Grid through 66/33kV 30 MVA PTR.	To ensure reliable supply to AIR Khampur Grid, 33kV Supply from 220kV Narela Grid (66/33 kV 30 MVA PTR) to AIR Khampur Grid shall remain continue till the commissioning of 66/33kV 50 MVA PTR at A-7 Narela Grid.
2	Installation of additional 33/11kV, 25 MVA 3 rd Power Transformer at Gulabi Bagh Grid along with conversion of 33kV Shahzada Bagh-Gulabi Bagh circuit from single cable to twin cable circuit	Yes	30 th Apr,2017	1) Commissioning of 220kV Chandrawal S/Stn. 2) Commissioning of 220 kV Dev Nagar S/Stn.	<p>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.</p> <p>The installation 220/33kV Chandrawal S/Stn. was approved by Board of Directors of DTL in its meeting held on 26.12.2015. The scheme is presently under tendering stage. The main in feed of the S/Stn. is envisaged from 400kV Rajghat now being established at Maharani Bagh. 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>The scheme is mainly meant for enhancement of reliability of the 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. Normally 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.</p> <p>Further the main source to feed the S/Stn. was from the proposed 400kV S/Stn. at Rajghat. Due to NGT stipulations, the site is required to be shifted. Land identified at I.P. also found creating hurdles for the proposed Solar Project. Hence, the location now finalized for establishment of the S/Stn. at Maharani Bagh. The infeed to Dev Nagar is also proposed from 400kV Maharani Bagh Grid.</p> <p>As such, in feed may not be available before 2018-19. As soon as land for Dev Nagar is handed over 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>

S. No .	Details of priority work	DERC Approval	Expected completion date	DTL's integration requirement	DTL's integration requirement and Updated status
3	Establishment of 33kV ESI Hospital Grid feeding from 220kV Peeragrahi Grid & interconnection with 33kV Sudershan park grid	Yes	a)Grid part: 30-Sept-17 b)Line part: 30-Apr-17	Commissioning of 220/33 kV 100 MVA 3 rd PTR at Peeragarhi Grid.	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. 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 3 rd 100MVA Tx. is likely to be commissioned by January 2017.
4	Erection of 66/11KV Dheerpur Grid	Yes	30 th Nov,2016	<ul style="list-style-type: none"> Commissioning of additional 220/66 kV 160 MVA PTR along with 66kV GIS Bays at Gopalpur Grid. 	<p>Dheerpur Grid is planned to shift the partial 11kV load of 220kV Gopalpur & Indra Vihar Grid. This Grid shall be energised through LILO of existing 66kV Gopalpur-Jahangirpuri Ckt-1&2. There is a capacity constraints due to single 220/66kV, 100MVA PTR at Gopalpur Grid. Besides that due to delay in commissioning of 220 kV Sanjay Gandhi Transport Nagar (SGTN) Grid, there would be no adequate margin left at Jahangirpuri Grid and there would be a N-1 constraints on 66kV infeed circuits at Jahangirpuri Grid. Therefore early commissioning of additional 220/66 kV 160 MVA at 220 kV Gopalpur Grid and 220kV SGTN Grid are required.</p> <p>At present the system consists of one 220/66kV, 100MVA Power Tx. feeding 66kV Jahangir Puri D/C line & DMRC Ckt from Gopalpur. Jahangir puri load can be fed from 220kV Narela and Rohini S/Stns. of DTL. DMRC has established 66 kV supply from their 220kV Jahangir puri S/Stn. recently to feed Mukundpur RSS. Considering the requirement and to ensure reliability of the areas, a scheme was prepared by DTL for establishment of 02 nos. 220/66kV 160MVA transformer and 66kV GIS Grid S/Stn. at Gopal Pur S/Stn. of DTL. To avoid disruption of supply the scheme is drawn out as under:-</p> <ol style="list-style-type: none"> Establishment of one 220/66kV 160MVA transformer and 66kV GIS with 04 nos. of additional bays. Shift the entire 66kV feeder (Jahangir puri Ckt.1&2 & DMRC) to 66kV GIS. Dismantle the 220/66kV 100MVA Tx Erect 2nd 220/66kV 160MVA Transformer to ensure N-1 reliability. <p>To accomplish the entire work the completion period of project is fixed as 24 months.</p> <p>The Board of Directors of DTL approved the scheme in its meeting held on 23.03.2015. Three bidders participated in the tender process. However, only one bid (M/s. SIEMENS) was technically qualified and financial bid got opened considering the urgent requirement. The bidder has quoted the exorbitantly high cost. As such it was decided to drop the tender. Therefore this is required to be refloat again. As an interim arrangement 66kV level is being established at 220kV Shalimar Grid S/Stn. till the commissioning of 66kV GIS and 220/66kV</p>

S. No.	Details of priority work	DERC Approval	Expected completion date	DTL's integration requirement	DTL's integration requirement and Updated status
				Commissioning of 220kV SGTN Grid	160MVA Trs. at Gopalpur. The scheme is proposed to implemented by Summer 2017 to take care of reliability issue of Gopalpur. The establishment of SGTN S/Stn. along with in-feeds was envisaged under Tariff Based Competitive Bidding (TBCB) route. The schemes under TBCB route could not proceed due to lack of experience, as such Govt. of NCTD reviewed the matter and decided to execute these schemes by DTL vide MOM dt. 26.06.2015. As such DTL prepared the scheme and got approval from Board of Directors in its meeting held on 04.11.2015. At present, it is under tendering stage. 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. The scheme is mainly meant for enhancement of the power supply to area.. The areas proposed to be fed from this S/Stn. are at present being met through 220kV Narela and Gopalpur S/Stns. of DTL.
5	Erection of 66/11kV DJB Burari Grid	Yes	31 st Mar, 2017	1) Commissioning of additional 220/66 kV 160 MVA PTR along with 66kV GIS Bays at Gopalpur Grid. 2) Commissioning of 220kV SGTN Grid	DJB Burari Grid is planned to feed the load requirement of DJB as well as to shift the partial load from Bhalswa & 220 Gopalpur Grid. This Grid shall be energised through 66kV Double circuit connectivity from 220kV Gopalpur and 66kV D/C connectivity with Bhalswa Grid. There is no 66kV spare Bay available at Gopalpur Grid along with there is a capacity constraints due to single 220/66 kV 100 MVA PTR at Gopalpur Grid. Besides that there is no adequate margin left at Bhalswa Grid due to delay in commissioning of 220kV SGTN Grid. Therefore, availability of at least one 66 kV Spare Bay alongwith additional 220/66 kV 160 MVA is critically required at 220 kV Gopalpur Grid. Besides that early commissioning of 220kV SGTN Grid is also critically required. With regard to Gopalpur and SGTN, the details have already been explained above.
6	3 rd circuit of 33kV from Wazirpur GIS grid to Ashok Vihar Grid	Yes	30 th Sep, 2016	--	--
7	CAPEX 13-14, Convert 33KV single cable of 220kV Shalimar bagh to Rani BaghCkt- 1 & 2 to twin 3X400mm ² XLPE cable	Yes	15 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.	Existing single cable of both 33kV Shalimar Bagh-Rani Bagh Ckt-1&2 shall be clubbed to make one twin cable circuit at both ends i.e. 220kV Shalimar Bagh & Rani Bagh Grid. New twin cable circuit shall be laid between 220 Shalimar Bagh & Rani Bagh Grid. The suggestion of TPDDL can be implemented without any issues.

S No	Details of priority work	DERC Approval	Expected completion date	DTL's integration requirement	DTL's integration requirement and Updated status
8	Erection of 33/11 kV Swiss Apartment Grid (Ludlow Castle, Civil Lines)	Yes	30 th Nov, 2017	Commissioning of 220 kV Chandawal Grid	<p>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 Chandrawal 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 Chandrawal Grid is critically required.</p> <p>With regard to Chandrawal, the details have already been explained above.</p>
9	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	15-May-17	<p>1) Commissioning of 220/33 kV 100 MVA 3rd PTR at Peeragarhi Grid.</p> <p>2) Spare 33kV Bays at 220kV Peeragarhi Grid</p>	<p>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.</p> <p>For reliability of the S/Stn. is concerned the 3rd 100MVA Tx. is likely to be commissioned by 31.03.2017.</p> <p>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.</p>
10	33kV RWL-Payal single cable to twin cable circuit between Payal & Rewari Line	Yes	Feb. 17	--	--

S No	Details of priority work	DERC Approval	Expected completion date	DTL's integration requirement	DTL's integration requirement and Updated status
11	Additional 3rd Zero Value Power Transformer (20 MVA) at Sudershan Park Grid	Yes	Mar-17	Commissioning of 220/33 kV 100 MVA 3rd PTR at Peeragarhi Grid.	This Transformer shall be fed through 33kV Peeragarhi-ESI-Sudarshan Park circuit. To achieve N-1 of 100MVA PTRs at 220kV Peeragarhi Grid, additional 220/33 kV 100 MVA 3 rd PTR is required at 220kV Peeragarhi Grid. For reliability of the S/Stn. is concerned the 3rd 100MVA Tx. is likely to be commissioned by June 2017.
12	Replacement of sick 20 MVA 33/11 kV PTR 1 at WZP 1 Grid by new 25MVA PTR.	Yes	Mar-17	--	--

Meeting ended with thanks to Chair.

List of participants attended the meeting to discuss the load flow study of Delhi system on 10.02.2017 at 03.00PM at Delhi SLDC, New Delhi-110002

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