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|  |   **पंजीकृत कार्यालय :शक्ति सदन, कोटला रोड़, न्यू दिल्ली-110002**(Regd. Office Shakti Sadan, Kotla Road, New Delhi-110002) **Office of Dy. General Manager (System Operation)**Shakti Sadan, Kotla Roadn New Delhi-110002Ph: 23221149, FAX No.23221012,23221059 |
| **No. F/DTL/207/DGM(SO)/2013-14/37** | **Date: 31.05.2013** |

1. Executive Director (Engineering), DERC, Shivalik, New Delhi-110017
2. G. M. (SLDC), SLDC Building, Minto Road, New Delhi-110002
3. General Manager (Planning), DTL, Shakti Deep Bldg. Jhandewallan, New Delhi-55
4. General Manager (O&M)-I, DTL, Parkstreet, 220kV S/Stn.,New Delhi
5. General Manager (O&M)-II, DTL, Jhandewalan, Delhi-110055
6. General Manager (Project)-I, DTL, Jhandewalan, Delhi-110055
7. General Manager (Project)-II, DTL, Jhandewalan, Delhi-110055
8. General Manager (C&RA), DTL, IP Estate, Vikas Marg, New Delhi-110002
9. General Manager, (C&MM),DTL, RPH, New Delhi-110002
10. General Manager (Civil), 220kV S/stn Bldg, Lodhi Road, New Delhi-110003
11. Chief Engineer (Elect.), NDMC, Palika Kendra, New Delhi-110001
12. Sh. Chaman Lal, SE(E-II&IV), 17th Floor, Palika Kendra, New Delhi-110001
13. Chief Engineer (Utilities), CWE,MES, Kotwali Road, Delhi Cantt New Delhi-110010
14. Sh. A. K. Sharma, Head (O&M), BYPL, Shakti Kiran Bldg., Karkadooma, Delhi-
15. Sh. Mukesh Dadhich, DGM(SO), BYPL, Balaji Estate, Kalkaji, New Delhi-19
16. Sh. Chandra Mohan, Sr. Consultant, BRPL, BSES Bhawan, Nehru Place, New Delhi-19
17. Sh. Arvind Gujral, Sr. VP (Head-O&M), BRPL, BSES Bhawan, Nehru Place, New Delhi-19
18. Sh. Ajay Kumar, VP (PMG/Const/Plg), BRPL, BSES Bhawan, Nehru Place, New Delhi-19
19. Sh. S. S. Sondhi, AVP(SO), BRPL, Balaji Estate, Kalkaji, New Delhi-19
20. Sh. H.C. Sharma, HoD(Engg), TPDDL, 33kV Hudson Lane S/stn Bldg, Kingsway Camp, Delhi-110009
21. Sh. Sanjay Banga, Sr. GM (Operations), TPDDL, 33kV Hudson Lane S/stn Bldg, Kingsway Camp, Delhi-110009
22. Sh. P. Devanand (HOG-SO), TPDDL, Adjacent to 66/11kV Pitampura-3 Grid Building, Near PP Jewellers, Pitampura, Delhi-110034
23. EO to CMD, DTL
24. DGM(SCADA), SLDC Delhi
25. Sh. Darshan Singh, Manager (SO), SLDC Delhi

**MEETING NOTICE**

**Date : 05.06.2013 Time : 11:00 Hrs.**

**Venue : Conference Hall, Delhi SLDC Building, Minto Road**

**To be chaired by Director (Operations), DTL**

Dear sir,

Director (Operation), DTL shall hold a meeting on 05.06.2013 at 11.00hrs. at SLDC Conference Hall, Minto Road to review the Transmission and Distribution Constraints as decided in the meeting held on the same subject on 05.02.2013.

The brief note on the subject based on the discussions held on 05.02.2013 and 8th Grid Coordination Meeting held on 08.03.2013 is given hereunder:-

**1 The interstate transmission capacity of Delhi for summer 2013 is as under :-**

**Interstate Transmission Capacity**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sr. No. | Name of the Inter connection point | Transmission Element | Capacity in MVA / MW | Transfer Capacity in MW | Available Transfer Capacity in MW | Remarks |
| 1 | Mandola | 400/220kV 315MVA Tx-I | 315MVA | 280 | 250 |   |
|   |   | 400/220kV 315MVA Tx-II | 315MVA | 280 | 250 |   |
|   |   | 400/220kV 315MVA Tx-III | 315MVA | 280 | 250 |   |
|   |   | 400/220kV 315MVA Tx-IV | 315MVA | 280 | 250 |   |
|   |   | **Total** | **1260** | **1120** | **1000** |   |
| 2 | Bawana | 400/220kV 315MVA Tx-I | 315MVA | 280 | 250 |   |
|   |   | 400/220kV 315MVA Tx-II | 315MVA | 280 | 250 |   |
|   |   | 400/220kV 315MVA Tx-III | 315MVA | 280 | 250 |   |
|   |   | 400/220kV 315MVA Tx-IV | 315MVA | 280 | 250 |   |
|   |   | 400/220kV 315MVA Tx-V | 315MVA | 280 | 250 |   |
|   |   | 400/220kV 315MVA Tx-VI | 315MVA | 280 | 250 |   |
|   |   | **Total** | **1890MVA** | **1680** | **1500** |   |
| 3 | Bamnauli | 400/220kV 315MVA Tx-I | 315MVA | 280 | 250 |   |
|   |   | 400/220kV 315MVA Tx-II | 315MVA | 280 | 250 |   |
|   |   | 400/220kV 315MVA Tx-III | 315MVA | 280 | 250 |   |
|   |   | 400/220kV 315MVA Tx-IV | 315MVA | 280 | 250 |   |
|   |   | **Total** | **1260** | **1120** | **1000** |   |
| 4 | Maharani Bagh | 400/220kV 315MVA Tx-I | 315MVA | 280 | 225 |   |
|   |   | 400/220kV 315MVA Tx-II | 315MVA | 280 | 225 |
|   |   | 400/220kV 500MVA Tx-I | 500MVA | 400 | 225 |
|   |   | 400/220kV 500MVA Tx-II | 500MVA | 400 | 225 |
|   |   | **Total** | **1630** | **1360** | **900** |
| 5 | Mundka | 400/220kV 315MVA Tx-I | 315MVA | 280 | 100 |   |
|   |   | 400/220kV 315MVA Tx-II | 315MVA | 280 | 100 |   |
|   |   | **Total** | **630MVA** | **560** | **200** |   |

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| --- | --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Name of the Inter connection point** | **Transmission Element** | **Capacity in MVA / MW** | **Transfer Capacity in MW** | **Available Transfer Capacity in MW** | **Remarks** |
| 6 | Harsh Vihar | 400/220kV 315MVA Tx-I | 315MVA | 280 | 0 | Due to delay in commissioning of 400kV Dadri - Harsh Vihar D/C line by PGCIL |
|   | 400/220kV 315MVA Tx-II | 315MVA | 280 | 0 |
|   | **Total** | **630MVA** | **560** | **0** |
| 7 | BTPS | 220kV Ballabhgarh Ckt-I | 132MW | 132 | 100 |   |
|  |   | 220kV Ballabhgarh Ckt-II | 132MW | 132 | 100 |   |
|   |   | 220kV Alwar Ckt. | 132MW | -132 | -100 |   |
|   |   | 220kV Noida Ckt. (Sec 20) | 132MW | -132 | -132 |   |
|   |   | **Total** | **528MW** | **0** | **-32** |   |
| 8 | Narela | 220kV Panipat Ckt-I | 100MW | 100 | 75 |   |
|   |   | 220kV Panipat Ckt-II | 100MW | 100 | 75 |   |
|   |   | 220kV Panipat Ckt-III | 100MW | 100 | 75 |   |
|   |   | **Total** | **300MW** | **300** | **225** |   |
| 9 | Rohtak Road(BBMB) | 66kV Gurgaon Ckt-I | 20MW | -20 | -10 |   |
|   | 66kV Gurgaon Ckt-II | 20MW | -20 | -10 |   |
|   | 33kV Gurgaon Ckt. | 20MW | -20 | -10 |   |
|   | 33kV Bahadurgarh Ckt. | 20MW | -20 | -10 |   |
|   | Total | 80MW | -80 | -40 |   |
| 10 | Patparganj | 220kV Sahibabad ckt. | 132MW | 132 | 0 |   |
| 11  | Gazipur  | 220k Noida Sec-62 Ckt. | 132MW | 132 | 0 |   |
| 220k Noida Sec-20 Ckt. | 132MW | 132 | 132 |   |
|   |   | Total Capacity |   | **6456** | **5085** |   |
|  |  |  |  |  |  |  |
|  | **Generation** |   |   |   |   |  |
|  | Generation Capacity injected at 220kV or below level |  |   |  |
|  | Station | Capacity in MW |   | Capacity in MW | Ex-bus Capacity |  |
|  | BTPS | 705 |   |   | 600 |  |
|  | RPH | 130 |   |   | 100 |  |
|  | GT | 270 |   |   | 150 |  |
|  | Pragati | 330 |   |   | 300 |  |
|  | Rithala | 75 |   |   | 50 |  |
|  | TOWMCL | 16 |   |   | 12 |  |
|  | Total Capacity  | 1526 |   |   | 1212 |  |
|  | Total Demand handling capacity |   | 7668 | 6297 |  |

Note : If any reduction in generation / outage of interstate element, the transmission capacity gets reduced.

**a) Transmission Constraints and suggestions to remove the same**

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| --- | --- | --- | --- | --- |
| **Sr. No.**  | **Details of transmission constraints**  | **Suggestions drawn out as per discussions held on 05.02.13 and 8th GCC meeting held on 08.03.13** | **Target fixed**  | **Present status** |
| **To meet Summer 2013 Demand** |
| 1 | Outage of 220/66kV 100MVA Tx-II at Okhla since 14.28hrs. on 16.10.2012 due to damage of the Tx. | The Tx should be revived before onset of summer  | 30.04.2013 | Tx. Commissioned on 10.05.2013 at 12.32hrs. |
| 2 | Augmentation of 220/33kV 50MVA Tx to 220/33kV 100MVA Tx at Okhla - out since 19.36hrs. on 05.06.2010 | The Tx should be augmented before onset of summer  | 31.05.2013 | O&M Deptt to confirm the status |
| 3 | Outage of 220/33kV 100MVA Tx-III at IP 220kV since 06.25hrs on 24.07.12 due to damage of the Tx. | The Tx should be revived before onset of summer  | 30.04.2013 | Tx has not yet been revived.O&M Deptt to confirm the status |
| 4 | Outage of 220/33kV 100MVA Tx-II at Electric Lane – out since 20.09.2012 | Even though the present load is only 50MW. To have redundancy, the Tx. should be energized during the summer season | 31.07.2013 | Project Deptt. to update the status. |
| 5 | 220kV Naraina – Ridge Valley Ckt.- out since 15.45hrs. on 17.09.2012  | To be energized before summer | 31.03.2013 | Cable energized on 12.04.2013 at 17.11hrs. |
| 6 | Delay in commissioning of 220kV AIIMs – Ridge Valley D/C line | For ensuring maximum evacuation from Maharani Bagh S/Stn and to give relief to 400/220kV ICTs at Bamnauli, the link should be established to meet the summer load demand. | 31.05.2013 | One of the cables (Ckt-II) energized on 15.04.2013 at 18.38hrs. Project Department to indicate the programme for other circuit. |
| 7 | To ensure maximum evacuation from Mundka 400kV S/Stn. | 220kV Najafgarh – Kanjhawala Ckt. to be LILO at Mundka | Tower cast completion by 30.06.2013 and 15 days shut-down for LILO after that | Concerned Project Department may update the status. |
| 8 | The transmission constraints in North Delhi areas  | Commissioning of 220kV Wazirpur-II S/Stn. | 31.05.2013 | Project Department may update the status |

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| **Sr. No.**  | **Details of transmission constraints**  | **Suggestions drawn out as per discussions held on 05.02.13 and 8th GCC meeting held on 08.03.13** | **Target fixed**  | **Present status** |
| 9 | The transmission constraints in West and North Delhi areas  | Commissioning of 220kV Peera Garhi S/tn. | Though it was expected to be commissioned by 30.06.2013, due to delay in getting RBI approval for opening Project Account for Rupees payment to the successful Chinese Bidder, now the project is expected to be commissioned by 31.12.2013  | Project Department may update the status |
| 10 | The over loading of Mandola ICTs and 220kV Wazirabad – Geeta Colony – Patparganj – IP D/C line. | Commissioning of 220kV Maharani Bagh – Gazipur D/C line | UP Irrigation Deptt has not given the clearance sofar to erect five towers on the route in their territory. In the 84th OCC meeting of NRPC held on 19.02.13, UPPCL requested 100MW power from Gazipur during the shut-down period of one of the 315MVA ICT at Greater Noida S/Stn. DTL agreed to provide the power to Noida after the completion of Gazipur – Maharani Bagh D/C line. The 87th meeting held 17.05.2013, the matter was again raised by DTL’s representatives in the meeting wherein UPPCL authorities assured their help in getting the clearance of erecting towers provided DTL giving 150MW power to UP. |  |
| 11 | Over loading at Mandola and transmission line between Mandola and IP, the commissioning of the S/Stn to be expedited before summer 2013 | Commissioning of 400kV Harsh Vihar S/Stn. | Due to delay in commissioning of 400kV Dadri – Harsh Vihar D/C line by PGCIL, the target could not be fixed. | Project Deptt may confirm. |
| 12 | Overloading of 220/66kV 100MVA Txs at Mehrauli during peak hours | 160MVA Tx available at site to be energized before summer 2013. | 31.03.2013.  | The Tx has not yet been energized. The concerned deptt to confirm the status.  |
| 13 | Overloading of 220/66kV 100MVA Txs at Wazirabad | 160MVA Tx available at site to be energized before summer 2013. | 31.05.2013.  | Project Deptt to update the status |
| 14 | Overloading of 220/66kV 100MVA Txs at Pappankalan-II | 160MVA Tx available at site to be energized before summer 2013. | 31.05.2013.  | Project Deptt to update the status |

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| **Sr. No.**  | **Details of transmission constraints**  | **Suggestions drawn out as per discussions held on 05.02.13 and 8th GCC meeting held on 08.03.13** | **Target fixed**  | **Present status** |
| 15 | 220kV Maharani Bagh – Masjid Moth Ckt-I is out since 22.50hrs. on 26.04.13 due to excavation process of Delhi Metro | To meet the ongoing summer peak, the cable must be energized as quick as possible. |  | Line Mtc Deptt of DTL to update the revival status |
| **16** | **Revival of Long outage capacitors**  |

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| --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Name of S/stn** | **Capacity down in MVAR** | **Date of outage** | **Reason** | **Target** |
| 1 | 220kV Patparganj | 10 | 09.07.08 | Damage of Reactor and NCT | Tender under process. Expected by 30.06.2013. The latest position may be updated. |
| 2 | 220kV Gazipur | 5.04 | 20.05.12 | Damage of cells |
| 3 | 220kV Mehrauli | 20 | 10.09.09 | Non availability of bay |
| 4 | 220kV Narela | 20 | 26.05.12 | Damage of cells |
| 5 | 220kV Shalimarbagh | 10 | 05.01.10 | Damage of cells |
| 6 | 220kV Pappankalan-I | 20 | 08.10.10 | Damage of cells |
| 7 | 220kV Naraina | 10 | 29.06.12 | Damage of cells & Reactor |
| 8 | **220kV IP** | **20** | 04.03.13 | Due to theft of metal strip |
|  | **Total** | **115.04** |  |  |

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| **Sr. No.**  | **Details of transmission constraints**  | **Suggestions drawn out** | **Target fixed**  | **Present status** |
| **Summer 2014 and onwards** |
| 1 | Overloading of 220kV Ckts. from Mandola to BTPS namely 220kV Mandola – Wazirabad (4 Ckts), 220kV Wazirabad – Geeta Colony (Two Ckts), 220kV Geeta Colony – Patparganj (2 Ckts), 220kV Patparganj – IP (2Ckts), 220kV IP – Pragati Ckt (2 Ckts), 220kV Pragati – Sarita Vihar (2 Ckts.) after removal of present LILO, 220kV Sarita Vihar Ckt (2 Ckts) | Capacity enhancement of transmission lines should be carried out in phased manner**In 1st phase** 220kV Wazirabad – Geeta colony D/C line, 220kV Geeta colony – Patparganj D/C line220kV Patparganj – IP D/C line, **Second Phase**220kV Mandola–Wazira Bad Ckt-I, II, III & IV220kV Pragati – Sarita Vihar Ckt-I & II220kV Sarita Vihar – BTPS Ckt-I & II**Third phase**Enhancement of the capacity of switchgears at Wazirabad, Geeta Colony, Patparganj, IP and Sarita Vihar S/Stns. | Planning Deptt to prepare the scheme so that the augmentation can be done before summer 2014To be augmented by summer 2015Subsequently | Planning Department to update the status of scheme preparation. |

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| **Sr. No.**  | **Details of transmission constraints**  | **Suggestions drawn out** | **Target fixed**  | **Present status** |
| 2 | Overloading of Transformers at Pappankalan-I and 220kV Line between Bamnauli and Pappankalan-I | Two transformers to be augmented to 160MVA Txs along with 66kV bus bars at Pappankalan-I. Lines capacity at Bamnauli and Pappankalan-I should also be augmented to handle the enhanced transmission line capacity. | Planning Department to prepare the scheme so that that the system to be in placed before summer 2014 | Planning Department to update the status. |
| 3 | Over-loading of 400/220kV 315MVA transformers at Mandola. | 31st Standing Committee Meeting of Power System Planning held on 02.01.2013 at CEA, has approved the augmentation of all four 315MVA Txs to 500MVA capacity. | To be implemented by PGCIL. It is understood that two Txs would be augmented before summer 2014 and others before summer 2015. |  |
| 4 | Over-loading of 400/220kV 315MVA ICTs at Ballabhgarh  | 31st Standing Committee meeting of Power System Planning held on 02.01.2013 at CEA has approved the augmentation of all three 315MVA Txs to 500MVA | To be implemented by PGCIL. It is understood that all Txs would be augmented before summer 2015. |  |
| 5 | Alternate source to RPH | The establishment of link between 220kV Kashmiri Gate to RPH to be established so that parallel link between 220kV Harsh Vihar – Wazirabad – Kashmiri Gate – RPH could be established for ensuring reliability of power supply of Central and East Delhi areas. | Planning Department to update the status of preparation of the scheme. |
| 6 | Reliability of supply of East Delhi areas | DTL should plan and implement the sub-station being established in East Delhi for which land has recently been taken over by DTL as quick as possible and alternate link should be established namely 220kV Harsh Vihar – Wazirabad – Anand Vihar (New S/Stn) - Patparganj | Planning Department to update the status of preparation of the scheme. |

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| **Sr. No.**  | **Details of transmission constraints**  | **Suggestions drawn out** | **Target fixed**  | **Present status** |
| 7 | Overloading of Najafgrh and Pappankalan-I Grids | To ensure maximum evacuation from Mundka and to reduce loading on transformers at 220kV Najafgarh, BRPL be allowed to connect the Paschim Vihar feeder from Nangloi to utilize maximum capacity of Nangloi cables emanating from Mundka. TPDDL is of the view that the T-off portion of Mangolpuri - Nangloi Ckt-I & II is required to be disconnected at Nangloi Grid so that TPDDL could directly feed Mangol Puri Grid from Mundka. The disconnection issue was to be resolved in the Planning Steering Committee meeting to be held on 11.03.2013.  | Planning Department to indicate the status |
| 8 | Overloading of 66/11kV and 33/11kV Txs at Najafgarh, Pappankalan-I, Shalimar Bagh and Wazirabad 220kV Sub-Stations | Due to problem of getting space near 220kV S/Stns. Distribution Licensees requested DTL to enhance the capacities of the 66/11kV and 33/11kV transformers at critically loaded sub-stations namely Najafgarh, Pappankalan-I, Shalimar Bagh and Wazirabad before summer 2014. GCC approved the request and advised Planning Department of DTL get the DERC approval for enhancement of transformation capacity of 66/11kV and 33/11kV so that the transformers are placed before summer 2014. | Planning Department to indicate the status |
| 9 | In adequate transmission capacity at Masjid Moth |  | Planning Department to prepare scheme so that additional 220/33kV Tx in placed at Masjid Moth before summer 2014. |
|  |  |  |  |

**3) Frequent outage of 66kV Mundka – Nangloi Ckt. and 66kV Mundka – Nangloi Water Works Ckt.**

Due to frequent fault of 66kV Mundka – Nangloi Ckt and 66kV Mundka – Nangloi Water works ckt, the evacuation capacity of 400kV Mundka S/Stn gets reduced. It further aggravates already overloaded 220/66kV 100MVA Txs at Najafgarh. In various meetings, BRPL assured that the cables would be rectified and would continuously be made available. However, there is not improvement of healthiness of the cables. The frequent outage of the cable is causing load shedding in Najafgarh S/Stn due to over-loading of its Txs.

**66kV Mundka - Nangloi Ckt (Energized on 01.08.2011 at 16:35Hrs.)**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. No. | Tripping date | Tripping Time | Restoration date | Restoration time | Relay indication | Remarks  | Nos of days outage |
| 1 | 01.08.11 | 16:36 | 11.08.11 | 19:02 | Dist. Prot. B-phase, 51A, 86A&B along with 220/66kV 160MVA Tx. which tripped on 86A&B, supervision faulty, CPR signal, visual audio alarm, signal A&B | Cable faulty | 10 |
| 2 | 29.08.11 | 04:00 | 29.08.11 | 13:59 | 86, 67N | Transient fault | 1 |
| 3 | 27.12.11 | 18:18 | 09.01.12 | 16:06 | General trip, O/C, 86 | Cable faulty | 13 |
| 4 | 13.02.12 | 05:57 | 17.02.12 | 18:17 | 86, Zone-2&3, dist. Prot. 67N, DT, O/C | Cable faulty | 4 |
| 5 | 12.03.12 | 0:33 | 31.03.12 | 13:48 | E/F | Cable faulty | 19 |
| 6 | 10.04.12 | 08:13 | 14.05.12 | 14:58 | Dist. Prot. Zone-2&3, Direct O/C, general trip | Cable faulty | 35 |
| 7 | 26.05.12 | 17.51 | 29.05.12 | 15.17 | General trip 86 Master | Cable faulty | 3 |
| 8 | 10.06.12 | 06.11 | 21.06.12 | 19.05 | General trip 86 Master | Cable faulty | 11 |
| 9 | 04.07.12 | 11.57 | 19.07.12 | 13.39 | General trip 86 Master | Cable faulty | 15 |
| 10 | 27.07.12 | 15.11 | 30.07.12 | 16.07 | General trip 86 Master | Cable faulty | 3 |
| 11 | 06.08.12 | 19.10 | 27.08.12 | 19.28 | General trip 86 Master | Cable faulty | 21 |
| 12 | 29.08.12 | 12.47 | 31.08.12 | 19.52 | General trip 86 Master | Cable faulty | 2 |
| 13 | 31.08.12 | 20.37 | 05.09.12 | 17.04 | General trip 86 Master | Cable faulty | 5 |
| 14 | 12.09.12 | 15.32 | 18.09.12 | 13.08 | General trip 86 Master | Cable faulty | 6 |
| 15 | 04.10.12 | 13.06 | 08.10.12 | 15.33 | General trip 86 Master | Cable faulty | 4 |
| 16 | 18.10.12 | 15.10 | 09.11.12 | 17.14 | General trip 86 Master | Cable faulty | 22 |
| 17 | 09.11.12 | 17.33 | 16.11.12 | 15.12 | Dist. Prot E/F | Cable Faulty | 7 |
| 18 | 31.12.12 | 16.17 | 06.01.13 | 08.17 | O/C, General Trip, Master | Cable faulty | 6 |
| 19 | 09.01.13 | 10.16 | 16.02.13 | 15.12 | General trip 86 Master | Cable faulty | 38 |
| 20 | 19.02.13 | 12.40 | 07.03.13 | 14.15 | General trip 86 Master | Cable faulty | 19 |
| 21 | 15.03.13 | 20.19 | 29.03.13 | 20.08 | General trip 86 Master | Cable faulty | 14 |
| 22 | 05.05.13 | 06.40 | 13.05.13 | 14.40 | Dist Prot zone-II | Cable faulty | 8 |
| 23 | 13.05.13 | 17.31 | 24.05.13 | 16.08 | General trip 86 Master | Cable faulty | 11 |
|  |  |  |  |  |  | **Total days**  | **277 out of 669 days of service upto 31.05.2013** |

**66kV Mundka - Nangloi W/W Ckt (Energized on 02.08.2011 at 17:40Hrs.)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. No. | Tripping date | Tripping Time | Restoration date | Restoration time | Relay indication | Remarks  | Total days of outage |
| 1 | 03.08.11 | 17:56 | 25.08.11 | 16:07 | 220/66kV 160MVA Tx. tripped on visual audio alarm, ERA trip, ERB trip, 86A&B, supervision, 86, 4WS2 link. B-phase of 66kV Nangloi W/W found faulty | Cable faulty | 22 |
| 2 | 03.11.11 | 12:00 | 09.11.11 | 20:13 | Dist. Prot. zone-I, 67NX along with 220/66kV 160MVA Tx. tripped on 86A&B. cable of 66kV feeder found faulty | Cable faulty | 6 |
| 3 | 14.11.11 | 8:17 | 19.11.11 | 15:41 | Tripping of 315MVA ICT and 160MVA Tx | Tx tripping | 5 |
| 4 | 11.12.11 | 21:30 | 20.12.11 | 10:03 | Tripping of 315MVA ICT and 160MVA Tx at 19:47hrs. and normalized at 21:39hrs. PTW issued to BSES at 23:18hrs. on the 66kV W/W feeder | Cable faulty | 9 |
| 5 | 22.12.11 | 01:19 | 26.12.11 | 14:50 | 86, General trip | Cable faulty | 4 |
| 6 | 26.12.11 | 14:51 | 08.01.12 | 18:23 | O/C, general trip, 86 | Cable faulty | 13 |
| 7 | 26.01.12 | 04:15 | 13.02.12 | 18:32 | O/C prot. trip, B-phase faulty | Cable faulty | 18 |
| 8 | 28.03.12 | 03:09 | 15.04.12 | 18:13 | 86, Dist. Prot. Zone-3, O/C, R-phase faulty | Cable faulty | 18 |
| 9 | 24.04.12 | 08:18 | 28.04.12 | 12:53 | O/C, 86 | Cable faulty | 4 |
| 10 | 10.06.12 | 06.09 | 10.06.12 | 08.31 | General Trip 86 Master | Transient fault | 1 |
| 11 | 18.06.12 | 17.03 | 23.06.12 | 19.50 | General Trip 86 Master | Cable faulty | 5 |
| 12 | 02.08.12 | 04.08 | 07.08.12 | 18.25 | General Trip 86 Master | Cable faulty | 5 |
| 13 | 28.08.12 | 09.30 | 31.08.12 | 13.16 | General Trip 86 Master | Cable faulty | 3 |
| 14 | 29.09.12 | 08.08 | 04.10.12 | 17.47 | Dist Prot | Cable faulty | 6 |
| 15 | 24.02.13 | 19.22 | 26.02.13 | 15.08 | General Trip 86 Master | Cable faulty | 4 |
|  |  |  |  |  |  | **Total**  | **123 days out of 668 days of service upto 31.05.13** |

BRPL may update the status for ensuring continuous operation of the feeders.

**4) Non utilization of Bays allotted to Distribution Utilities:-**

In the meeting held on 05.02.2013 and 8th GCC meeting held on 08.03.2013, it was decided to review the non utilization of bays allocated to different utilities for more than one year from the date of allocation. It was also decided that in case the allotted bays are not utilized, the same may be allocated to the needy utilities after due consideration by Planning Steering Committee. On review, it is seen that the following bays are not utilized from different 400kV and 220kV S/Stns

|  |  |  |
| --- | --- | --- |
| **S N.** | **Name of 400/220kV 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 of utilization**  | **Decision of Planning Steering Committee for reallocation**  |
| 1 | 220kV Trauma Center | 33kV | 1. Sanjay Camp, 2. Kidwai Ngar-II, 3 Jor Bagh**Total = 3 Bays** | NDMC | 19.11.09 | Not utilized sofar | May be given |
| 2 | 220kV Electric Lane | 33kV  | 1. Vidyut Bhawan2 Connaught Place3. Hanuman road4. Mandi House5 Janpath Lane6 Church Road7 Delhi High Court**Total = 7 Bays** | NDMC | 19.11.09 | Not utilized sofar | May be given |
| 3 | 220kV DSIDCBawana | 66kV | 1 Bawana-I2 Bawana-I3 Bawana-74 Bawana-7**Total = 4 Bays** | TPDDL | 19.11.09 | Not utilized sofar | May be given |
| 4 | 220kV Rohini-II | 66kV | 1 RG-30-I2 RG-30-II3 RG-6-I4 RG-6-II**Total = 4 Bays** | TPDDL | 31.05.12 | Not utilized sofar | May be given |
| 5 | 400kV Mundka | 66kV  | 1. 66kV Mundka ckt-I2. 66kV Mundka ckt-II3.66kV Bakarwala ckt-I4.66kV Bakarwala ckt-II5. 66kV Pashim Vihar | BRPL | 19.11.09 | Not utilized sofar | May be given |
| **TPDDL**1.66kV Mangol Puri-II 2.66kV Kirari Sultan Puri Ckt.-I3.66kV Kirari Sultan Puri Ckt.-II | TPDDL | 19.11.09 | Not utilized sofar | May be given |

It may be noted that due to the non utilization of bays by NDMC at Trauma Center, the existing system are getting oftenly congested resulting into load shedding in other utilities’ areas. For example the drawl by NDMC from IP Station is causing load shedding in BYPL areas particularly due to the break-down of one 100MVA

Tx at IP. The loading position of NDMC from IP Station is as under :-

|  |  |
| --- | --- |
| **Name of the feeder** | **Load in Amps at 11.30hrs. on 15.05.2013 (33kV side)** |
| 33kV Bay-2 (IP – Nirman Bhawan) | 195 |
| 33kV Bay-4 (IP – Electric Lane)  | 115 |
| 33kV Bay-6 (IP – Tilak Marg) | 220 |
| 33kV Bay-10 (IP – Electric Lane) | No Load |
| 33kV Bay-16 (IP – Nirman Bhawan) | 170 |
| 33kV Bay-28 (IP – Connaught Place) | 75 |
| 33kV Bay-38 (IP - Connaught Place) | 180 |
| 33kV Bay-42 (IP - Connaught Place) | 135 |

From the above, it is seen that if NDMC shift the entire load from IP, to the under loaded s/stations, the load shedding at IP can be avoided.

The matter was taken up with NDMC. They have intimated that being VVIP load, Bay-2 & 16 (IP – Nirman Bhawan), and 33kV Bay-6 (IP – Tilak Marg) can not be shifted. However, they assured that Bay-4 & 10 (IP- Electric Lane) feeder can be shifted to 220kV HC Mathur Lane. The Connaught Place feeder should be shifted to newly energized 33kV Connaught Place bay from 220kV HC Mathur Lane (Electric Lane) S/Stn.

**It is proposed that all 33kV feeders emanating from IP Station to NDMC would be kept opened at IP till the 3rd Transformers is energized. However, in case of emergency, the feeder would be energized from IP by SLDC. This measure is suggested to tide over the crisis due to the outage of one 100MVA Tx. At IP it is understood that the revival of Tx at IP would take another month. It may also be noted that one bay of Connaught Place feeder from HC Mathur Lane should immediately be restored by DTL so that Connaught Place load can be shifted from IP to HCM Lane.**

**5 Distribution Constraints and remedial measures suggested**

In the meeting held on 05.02.2013, the following constraints / suggestions to remove the constraints have been discussed:-

**BYPL**

|  |  |  |
| --- | --- | --- |
| **Sr. No.**  | **Over-loading of elements pertains to BYPL (Constraints)** | **Remedial measure under taken** |
| 1 | 15MVA Pr.Tr. at Shanker Road | Augmentation of Tx to 25MVA is proposed. Load rationalization has already been carried out to even out the loading on other two Txs.  |
| 2 | Pr Txs. At Prashad Nagar  | Augmentation of Tx to 25MVA is proposed. |
| 3 | Txs at Guru Angad Nagar  | No addition is possible at the S/stn. To transfer the load additional 16MVA Tx is being installed at Geeta Colony and Kanti Nagar S/stns before summer 2013. |
| 4 | Txs at Shastri Park (Central) | Augmentation is proposed before summer 2013. |
| 5 | Txs at East of Loni Road | Augmentation planned before summer 2013  |
| 6 | 33kV Park Street – Motia Khan Ckt-I & II | All the 3 infeeds of Motia khan S/stn is proposed to be reoriented to have independent feeding by putting isolators or loop cables before summer 2013.  |

 **BYPL to intimate the status.**

**BRPL**

|  |  |  |
| --- | --- | --- |
| **Sr. No.**  | **Over-loading of elements pertains to BRPL (Constraints)** | **Remedial measure under taken** |
| 1 | 33kV Malviya Nagar – Andheria Bagh Ckt. | Proposal for two 33kV infeeds from Vasantkunj B Blk S/stn to Andheria bagh has been devised and submitted to DERC for approval.  |
| 2 | Txs at C-Dot | Additional 3rd 25MVA Tx. is under execution and expected by 31.03.13. |
| 3 | Txs at G-V Matiala | Additional 4th 25MVA Tx. is under execution and expected by 31.03.13. |
| 4 | Txs at NDSE | Load swapping of Txs. being prepared as no space for additional Txs.  |
| 5 | 33kV Pankha Road –Mayapuri Ckt. | Scheme for additional 33kV feed from Pankha Rd. was devised and submitted to DERC for approval. |
| 6 | 66kV Najafgarh – Bodella-II Ckt-I & II | Hasthal S/stn is under commissioning and expected by 31.03.13. Part load of Bodella-II would be shared by Hasthal. Once the 220kV Bodella-2 S/stn is commissioned the problem would be completely eliminated. |
| 7 | Txs at Vishal  | New S/stn at GGSH is expected by the end of March 2013. Part load of Vishal would be shared by the S/stn |
| 8 | 66kV Najafgarh – Matiala Ckt-I & II | Additional Ckt from PPK-II is under execution and expected before 31.03.13 |
| 9 | Txs at Kilokari | Load swapping of Txs. being done. |
| 10 | Txs at Bindapur | Scheme for additional Tx. is under consideration by the Steering Committee. |
| 11 | Txs at Hari Nagar  | Load swapping of Txs. being done. |
| 12 | Txs at Nehru Place | Load swapping of Txs. being done. |
| 13 | 50MVA Txs at Ridge Valley | NDMC has to shift its load from Ridge Valley to newly commissioned S/stn Trauma Center (AIIMS) and Electric Lane. BRPL requested for additional 220/33kV 100MVA Tx. at Ridge Valley |
| 14 | Txs at East of Kailash | Load swapping of Txs. being prepared. |
| 15 | 33kV Okhla – Tuglakabad Ckt. | At present Tuglakabad is fed from Okhla 220kV and 66kV Malviya Nagar S/stns. On steady state conditions there is no constraints. However, in case of outage of 33kV Okhla-Tuglakabad Ckt the other Ckt from Malviya Nagar get overloaded causing load shedding. The loading of 33kV Malviya Nagar-Tuglakabad is restricted due to being overhead portions of the Ckt is of Wolf. The laying of additional cables from Malviya Nagar is being established. As a temporary measure the possibility of utilizing 33kV Masjid Moth Ckt from 220kV Okhla by laying the cable from the closing of the Ckt at Guru Rabidas Marg to Tuglakabad with approximate length of 2-2.5KM.  |
| 16 | Txs at Mayapuri | At present there are 3Txs of 20MVA each. Two Txs are loaded to 85% and 3rd one is 65%. Since DERC is not allowing the augmentation of 20MVA Tx to 25MVA Txs. the swapping of load being accomplished for meeting summer 2013 load. Another 33kV A43 S/stn at Mayapuri is under commissioning (expected before summer 2014) which would share the part load of this Txs. |

|  |  |  |
| --- | --- | --- |
| **Sr. No.**  | **Over-loading of elements pertains to BRPL (Constraints)** | **Remedial measure under taken** |
| 17 | 20MVA Txs at Bodella-I | Scheme for 4th 25MVA Tx has been taken up for execution. |
| 18 | Txs at Jamia | Load swapping of Txs. being done. |
| 19 | 20MVA Txs at G-2 Pappankalan | Scheme for additional 25MVA Tx has been put up to the Steering Committee. |
| 20 | 20MVA Txs at Sagarpur | Load swapping of Txs. being done. |
| 21 | Txs at Bodella-II | Load shall be shared by the upcoming Hasthal S/stn |
| 22 | Txs at Masjid Moth  | Load swapping of Txs. being done. |
| 23 | Txs at Sarai Julaina | Augmentation of Txs. with 25MVa Txs (2nos.) has been approved by DERC. |
| 24 | Txs at Shivalik | Additional 3rd Tx is expected by 31.03.13 |
| 25 |  33kV Nangloi – Udyog Nagar Ckt. | After the commissioning of 220kV Peeragarhi S/stn the additional Ckts are envisaged from it namely Udyog Nagar & A4 Paschim Vihar.  |
| 26 | Txs at Nangloi | Load swapping of Txs. being done. |
| 27 | 33kV Nangloi – Paschim Puri Ckt. | After the commissioning of 220kV Peera garhi S/stn the problem will be vanished. |
| 28 | Txs at R.K. Puram-I | Load swapping of Txs. being done |
| 29 | Txs at Udyog Nagar | One Tx. has been augmented from 16MVA to 25MVA |

**BRPL to intimate the present status.**

**TPDDL**

|  |  |  |
| --- | --- | --- |
| **Sr. No.**  | **Over-loading of elements pertains to TPDDL (Constraints)**  | **Remedial measure under taken** |
| 1 | 33kV Jahangirpuri – Azad pur ckt-I&II | Over-Load on this circuit would be reduced after commissioning of 220kV Wazirpur Grid. One power transformer of Ashok Vihar, Tri nagar and 2 transformers of Azadpur would run on 220kV Wazirpur grid.  |
| 2 | 33kV AIR Khampur-Jahangir puri Ckt | RG-5 to Air Khampur Ckt –WIP-Line expected by 31.05.13  |
| 3 | 33/11kV Tx. at SGT Nagar  | DERC Approval awaited for augmentation to 25 MVA |
| 4 | 33kV Naraina – Inderpuri Ckts | In normal condition there will be No Over-loading of these Circuits. However another A-21 grid is expected by 30.06.13. Part load of Inderpuri and Panadav nagar would be shifted which would ease the over loading. In case of outage of any one ckt, one PTR of Inderpuri Grid can be run through Pusa Ckt in addition to both PTRs of Pusa Grid via Parkstreet-Shastri Park Ckt-1&2. Pandav Nagar Grid can then be run through DMS Circuit. |
| 5 | Tx at Bawana-6 | Bawana-1 Grid- WIP-Expected by 30.06.13 |
| 6 | Tx. at Bawana-7 | 3rd PTR at Bawana-7 – DERC Approval received on 23- Jan-13. Expected by 30.06.13  |
| 7 | 33kV Jahangirpuri- SGT Nagar Ckt | In normal running there will be No Over-loading of this Circuit. During outage of Shalimar Bagh-SGTN Ckt there will be over-loading. DERC Approval received on 01.02.13 for augmentation of 33kV Jahangirpuri- SGT Nagar Ckt from Wolf (405Amp) to Goat (634Amp) conductor.  |

|  |  |  |
| --- | --- | --- |
| **Sr. No.**  | **Over-loading of elements pertains to TPDDL (Constraints)**  | **Remedial measure under taken** |
| 8 | 33kV SMB Khosla U/G Ckt from 220kV Shalimarbagh | 3 power transformers of WZP-2 and one of WZP-1 will be run on 220kV Wazirpur S/stn once it is commissioned. Till then over loading during summer months can not be ruled out. |
| 9 | 33kV Rewari Line Ckt from 220kV Naraina | In normal condition there is no over loading. However to reduce over loading DLF Kirti Nagar – Saraswati Garden Twin cable Ckt is expected by end of March 13 which would reduce the loading. |
| 10 | 33kV Shahzadawalabagh-Rohtak Rd Ckt | Subzi Mandi to SZ Bagh – conversion to twin cable – WIP-Expected date of completion is 30.06.13  |
| 11 | 33kV Shahazadabagh-Rampura Ckt | Wazirpur GIS Grid – WIP (This circuit will be delinked and connected to Wazirpur GIS Grid once it is commissioned). |
| 12 | Tx at Ashok Vihar | PTR Augmentation- DERC Approved-Expected by 30.06.13 |
| 13 | 33kV Ashok Vihar-Wazirpur Ckt-I | The loading would be eased after commissioning of 220kV Wazirpur grid and linking of 33kV Wazirpur-WIP Ckt. 2 power transformers of Ashok Vihar will run on 220kV Wazirpur  |
| 14 | 33kV Rohtak road – Rampura Ckt | Mitigation- 220kV Wazirpur Grid – WIP- once 220kV Wazirpur S/stn is commissioned. One power transformer of Rampura will run on 220kV Wazirpur grid.  |
| 15 | Tx. at DSIDC Narela-I | Load to be shifted to DSIDC-2 Grid through 11kV feeders- WIP- 5 MVA load to be shifted to DSIDC2 Grid and 3 MVA load to be shifted to A-7 NRL Grid.  |
| 16 | 33kV Ranibagh Ckt-I&II from 220kV Shalimarbagh | The commissioning of Rani Bagh CC Grid would ease the loading. DERC Approval received on 16-Jan-13 (Infeed from upcoming 220kV Peeragarhi Grid)  |

**TPDDL to intimate the status.**

**3 Capacitor installation programme**

In the transmission and distribution constraints meeting held on 05.02.2013, Distribution Licensees provided the details of capacitors installation programme as under :-

**NDMC**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Name of ESS** | **No. of APFC Bank to be installed** | **Capacity of each Capacitor Bank** | **Present status** | **Remarks** |
| 1. | B.D. Marg | 1 | 5.04 MVAR | Work awarded. | Work to be completed by December 2013. |
| 2. | Bapu Dham | 1 | 5.04 MVAR |
| 3. | Shahjahan Road | 2 | 5.04 MVAR |
| 4. | Mandi House | 2 | 5.04 MVAR |
| 5. | State Guest House | 1 | 5.04 MVAR |
| 6. | Hanuman Road | 1 | 5.04 MVAR |
| 7. | National Archives | 1 | 5.04 MVAR |
| 8. | Race Course | 1 | 5.04 MVAR |
| 9. | School Lane | 1 | 5.04 MVAR |
| 10. | Scindia House | 1 | 5.04 MVAR |
|  |  | **12 Nos.** | **60.48 MVAR** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Name of ESS** | **No. of APFC Bank to be installed** | **Capacity of each Capacitor Bank** | **Present status** | **Remarks** |
| 1. | Trauma Centre, AIIMS | 2 | 5.04 MVAR | Capacitor Bank installed. | Tripping circuit to be installed. |
| 2. | Keventor dairy | 2 | 5.04 MVAR | -Do- | -Do- |
| 3. | Sanjay camp | 2 | 5.04 MVAR | -Do- | -Do- |
| 4. | Netaji Nagar | 3 | 5.04 MVAR | -Do- | -Do- |
| 5. | Raja Bazar | 2 | 5.04 MVAR | -Do- | -Do- |
| 6. | Raisina Road | 2 | 5.04 MVAR | -Do- | -Do- |
| 7. | Ali Ganj Jor Bagh | 2 | 5.04 MVAR | S/S Building yet to be constructed. |  |
|  |  | **15 Nos.** | **75.6 MVAR** |  |  |
|  |  | **Total** | **136.08MVAR** |  |  |

**BYPL**

|  |
| --- |
| **Capacitor Bank Details for 2012-13 and 2013-14 in BYPL** |
| **Sr. No.** | **Location of Grid Sub-Station** | **MVAR** | **Status** | **DERC Approval Status** | **Remarks** |
| 1 | 33kV Fountain  | 5.4 | Yet to be installed | Approved. | BYPL may update the present status |
| 2 | 33kV Jama Masjid | 5.4 | Installed  |
| 3 | 33kV Faiz Road | 5.4 | Yet to be installed |
| 4 | 33kV G.T. Road Shahdra | 5.4 |
| 5 | 33kV Geeta Colony | 5.4 |
| 6 | 33kV Karawal Nagar-II | 5.4 |
| 7 | 66kV Gonda | 5.4 |
| 8 | 66kV Bhagirathi | 5.4 |
| 9 | 33kV DMS | 5.4 | Yet to be installed | Under approval | BYPL may intimate the present status |
| 10 | 33kV Anand Parvat | 5.4 |
| 11 | 33kV Jama Masjid  | 5.4 |
| 12 | 33kV Minto road | 5.4 |
| 13 | 33kV B.G Road | 5.4 |
| 14 | 33kV G.B. Pant | 5.4 |
| 15 | 66kV Shasri Park Central | 5.4 |
| 16 | 33kV Town Hall | 5.4 |
| 17 | 33kV Shankar Road | 5.4 |
| 18 | 33kV Dwarka Puri | 5.4 |
| 19 | 66kV Mayur Vihar phase-II | 5.4 |
| 20 | 33kV Preet Vihar | 5.4 |
|  | Total  | 108 |  |  |  |

**BRPL**

|  |
| --- |
| **Capacitors to be commissioned in FY 2012-13** |
| **S. No.** | **Year** | **Location** | **Capacitor planned in MVAR** | **Status** | **Remarks** |
| 1 | 2012-13 | Hastsal  | 21.6 | Installed | Commissioning expected by March 13. BRPL to intimate the status |
| 2 | 2012-13 | GGSH grid  | 10.8 | Installed |  |
|  |  | Total | **32.4** |  |  |

**Capacitors planned to be commissioned in FY2013-14**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Year** | **Location** | **Capacitor planned in MVAR** | **Status** | **Remarks** |
| 1 | 2013-14 | C-DOT grid substation | 7.2 | Planned | Commissioning expected in FY 2013-14 |
| 2 | 2013-14 | G-5 Matiyala | 7.2 | Planned |
| 3 | 2013-14 | Shivalik grid substation | 5.4 | Planned |
| 4 | 2013-14 | Okhla Phase -1 grid substation | 7.2 | Planned |
| 5 | 2013-14 | G-2 PappanKalan grid substation | 7.2 | Planned |
| 6 | 2013-14 | G-3 Bindapur grid substation | 7.2 | Planned |
| 7 | 2013-14 | Bijwasan grid substation | 7.2 | Planned |
| 8 | 2013-14 | Jasola Media Centre grid substation | 21.6 | Planned |
| 9 | 2013-14 | DJB Najafgarh grid substation | 21.6 | Planned |
| 10 | 2013-14 | G-4 Dwarka grid substation | 21.6 | Planned |
| 11 | 2013-14 | Mundka grid substation | 21.6 | Planned |
|  |  | **Total in MVAR** | **135** |  |  |
|  |  |  |  |  |  |
| **Capacitors planned to be commissioned in FY 2013-14 at LT level** |
| **S. No.** | **Year** | **Location** | **Capacitor planned in MVAR** | **Status** | **Remarks** |
| 1 | 2013-14 | 1058 nos. Distribution transformers | 256.4 | Planned | Commissioning expected in FY 2013-14 |
|  | **Note - The LT APFC's shall be located with the DT's identified.** |

**TPDDL**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.**  | **Location of Grid Sub-Station**  | **MVAR** | **Status**  | **Remarks**  |
| 1 | Bawana  | 4.8 | To be installed in 2013-14 | TPDDL to update the present status. |
| 2 | Rani Bagh CC | 9.6 |
| 3 | RG-23 | 4.8 |
| 4 | SMB FC | 4.8 |
| 5 | RG-28 | 10.8 | Installed but not charged |
| 6 | A-21 | 4.8 | To be installed in 2013-14 |
| 7 | Bawana-I | 10.8 |
| 8 | Model Town | 10.8 |
| 8 | Bawana Phase-II-I | 10.8 |
|  |  | 72.00 |  |  |

Summarizing the above, utility-wise program for installation of additional capacitors is as under :

|  |  |  |  |
| --- | --- | --- | --- |
| Utility | Planning for installation of additional capacity in MVAr | Total in MVAr | Remarks |
| 2012-13 | 2013-14 |
| TPDDL | 10.8 | 61.2 | 72.2 |  |
| BRPL | 32.4 | 135 | 167.4 | Additional 256.4MVAr capacity is planned to be added at LT level in 2013-14 |
| BYPL | 10.8 | 97.2 | 108 | Approval for 32.4MVAr has already been accorded by DERC.  |
| NDMC | 65.52 | 60.48 | 126 | 5.04MVAr capacitor is also planned for Ali Ganj, Jorbagh for which building is yet to be constructed. |
| MES | -- | -- | -- | The installed capacity 21.1MVAr is sufficient to meet the load of MES. However for voltage regulation they have planned additional capacity at LT level for 2013-14. |
| Total | 119.52 | 353.88 | **473.4** |  |

All stakeholders are requested to update the status of the above capacitor installation programme.

Further, it was also noticed that the Transmission / Distribution licensees the dismantled the capacitors in the following sub-stations without the approval of Steering Committee.

|  |  |  |  |
| --- | --- | --- | --- |
| Name of the sub-station  | Capacity in MVAR | Utility  | Remarks  |
| 66kV Rohini-IV  | 20 | TPDDL | Would be installed at 66kV Pooth khurd S/Stn. |
| Exhibition-I | 10.08 | BRPL |  |
| D.C. Saket  | 10.08 | BRPL |  |
| Vasant Kunj D block  | 20.16 | BRPL |  |
| Malviya Nagar  | 20.16 | BRPL |  |
| Mehrauli  | 20 | DTL | Out since 10.09.09 due to non availability of bay as the capacitor was spared for DMRC feeder. The capacitor banks got re-commissioned on 29.04.2013 |
| Total  | 80.48 |  |  |

Utilities are requested to update the status of revival relocation of the capacitors as it is essentially required before peak summer.

DTL’s Planning Department may update the status of Capacitor Study undertaken by CPRI

Thanking you

 Yours faithfully

 (V. VENUGOPAL)

Dy. G.M. (System Operation)

 Copy for favour of kind information to :-

* 1. Secretary, DERC
	2. CMD, DTL
	3. Chairperson, New Delhi Municipal Council, Palika Kendra, Sansad Marg, New Delhi
	4. CEO, BSES Rajdhani Power Ltd, BSES Bhawan, Nehru Place, New Delhi-110019
	5. CEO, BSES Yamuna Power Ltd, Shakti Kiran Building, Karkardooma, Delhi-92
	6. CEO, TPDDL, 33kV Grid S/Stn, Hudson Lane, Kingsway Camp, Delhi-9
	7. Managing Director, Indraprastha Power Generation Company Ltd (Genco) / Pragati Power Corporation Ltd (PPCL), Himadri, Rajghat Power House, New Delhi-110002
	8. Addl. Secretary (Power), GNCTD
	9. Director (Operations), DTL
	10. Director (Fin), DTL