# DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

## PROGRESS REPORT

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## JANUARY 2013

1 **SALIENT FEATURES OF DELHI POWER SYSTEM**

| Sr. No. | Features | JANUARY 2013 | JANUARY 2012 |
|---|---|---|---|
| 1 | **Effective Generation Capacity within Delhi in MW** | | |
| | Rajghat Power House | 135 | 135 |
| | Gas Turbine | 270 | 270 |
| | Pragati Power Corporation Ltd. | 330 | 330 |
| | Badapur Thermal Power Station | 705 | 705 |
| | Rithala GT | 108 | 108 |
| | Total | 1548 | 1548 |
| **2** | **Maximum Unrestricted Demand (MW)** | **4266** | **3934** |
| | Date | 08.01.2013 | 20.01.2012 |
| | Time | 10.32.29 | 10.01.16 |
| **3** | **Peak Demand met (MW)** | **4214** | **3934** |
| | Date | 09.01.2013 | 20.01.2012 |
| | Time | 10.13.56 | 10.01.16 |
| 4 | Peak Availability (MW) | 4092 | 3675 |
| 5 | Shortage (-) / Surplus (+) in MW | (-)122 | (-) 259 |
| 6 | Percentage Shortage (-) / Surplus (+) | (-)2.86 | (-) 6.058 |
| 7 | Maximum Energy Consume in a day (Mus) | 69.814 | 69.264 |
| 8 | Energy Consumed during the month | **1900.652** | **1916.798** |
| **9** | **Load Shedding in Mus** | | |
| A) | Due to Grid Restrictions | | |
| i) | Under Frequency Relay Operations | 0.000 | 0.021 |
| ii) | Manual Load shedding from DTL S/Stns. | 0.000 | 0.000 |
| iii) | Load Shedding due to low frequency / Low Voltage / TTC/ATC Violation | | |
| | NDPL | 4.134 | 0.256 |
| | BRPL | 1.939 | 1.175 |
| | BYPL | 4.687 | 0.859 |
| | NDMC | 0.000 | 0.000 |
| | MES | 0.000 | 0.000 |
| iv) | Due to transmission Constraints in Central Sector | 0.000 | 0.000 |
| | **Total due to Grid Restriction** | **10.760** | **2.311** |
| B) | Due to Constraints in System in Mus | | |
| | DTL | 0.188 | 2.288 |
| | NDPL | 0.422 | 0.288 |
| | BRPL | 0.146 | 0.268 |
| | BYPL | 0.438 | 0.044 |
| | NDMC | 0.000 | 0.000 |
| | MES | 0.000 | 0.000 |
| | Other Agencies | 0.008 | 2.423 |
| | **Total** | **1.202** | **5.311** |
| **11** | **Grand Total in Mus** | **11.962** | **7.622** |

## 2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING JANUARY 2013

### A) For the month of JANUARY 2013

**All Figures in MUs**

| S. No | Stations | Gross Generation | Aux. Consumption | Net Generation | Availability (%) | Backing Down |
|---|---|---|---|---|---|---|
| **1.** | **RPH** | 80.120 | 9.820 | 70.300 | 79.89 | 0 |
| **2.** | **GT** | 101.862 | 2.774 | 99.088 | 91.97 | 80.1195 |
| **3.** | **PPCL** | 232.709 | 5.718 | 226.991 | 98.11 | 7.39123 |
| **4.** | **BTPS** | 430.953 | 32.962 | 397.796 | 100.69 | 73.8615 |
| **5.** | **Rithala** | 4.954 | 0.440 | 4.514 | **89.17** | 56.49125 |
| **6.** | **Bawana** | 154.850 | 4.303 | 150.547 | 106.71 | 56.374.8645 |
| | **TOTAL** | **1005.448** | **56.017** | **949.236** | **--** | **275.10198** |

### B) For the Year 2011-12 (Upto JANUARY 2013)

| Power Station | Effective Capacity (MW) | Net Generation in MUs For Jan 2013 | Availability (%) For Jan 2013 | PLF (%) For Jan 2013 | Cumulative Generation in MUs upto Jan 2013 for the year 2012-13 | Cumulative Availability in % upto Jan 2013 for the year 2012-13 | Cumulative PLF in % upto Jan 2013 for the year 2012-13 |
|---|---|---|---|---|---|---|---|
| **RPH** | 135 | 70.300 | 79.89 | 79.89 | 585.039 | 67.73 | 69.92 |
| **GT** | 270 | 99.088 | 91.97 | 50.85 | 1093.900 | 83.05 | 56.91 |
| **PPCL** | 330 | 226.991 | 98.11 | 95.01 | 2048.380 | 89.68 | 87.07 |
| **BTPS** | 705 | 397.796 | 100.69 | 86.58 | 3492.205 | 88.05 | 76.50 |
| **Rithala** | 108 | 4.514 | **89.17** | 6.60 | **128.726** | **--** | **--** |
| **Bawana** | 677 | 150.547 | 106.71 | 30.95 | 1194.762 | 88.56 | 32.99 |
| **TOTAL** | **2225** | **949.236** | **--** | **--** | **8543.012** | **--** | -- |

## 3 DETAILS OF OUTAGES OF GENERATING STNS. WITHIN DELHI W.E.F. APRIL 2012

**(A) RPH STATION**

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 1 | 67.5 | 03.04.12 | 19.10 | 03.04.12 | 21.05 | Unit tripped due to grid disturbance. |
| | | 10.04.12 | 17.00 | 10.04.12 | 18.05 | |
| | | 11.04.12 | 5.50 | 11.04.12 | 6.30 | Flame failure. |
| | | 11.04.12 | 6.55 | 11.04.12 | 7.40 | |
| | | 11.04.12 | 7.55 | 11.04.12 | 11.45 | Turbine trip. |
| | | 27.04.12 | 11.05 | 29.04.12 | 5.20 | Unit desynchronised due to Boiler Tube Leakage. |
| | | 29.04.12 | 8.40 | 29.04.12 | 9.40 | Unit tripped with heavy jerk, when AOP-1A started, emergency boerd incomer No. A tripped on earth fault. |
| | | 03.05.12 | 17.40 | 05.05.12 | 8.40 | Unit desynchronized to attend the Condensor tube leakage. |
| | | 12.05.12 | 17.30 | 16.05.12 | 6.45 | Unit tripped on system disturbance, later on there is found Boiler tube leakage. |
| | | 16.05.12 | 11.30 | 15.05.12 | 13.40 | Unit tripped on system disturbance, total dark out. |
| | | 20.05.12 | 12.05 | 20.05.12 | 12.35 | Unit tripped due to electrical problem. |
| | | 23.05.12 | 10.30 | 23.05.12 | 11.55 | Unit tripped due to furnace pr. high. |
| | | 25.05.12 | 17.10 | 25.05.12 | 21.55 | Unit tripped due to electrical problem. |
| | | 26.05.12 | 11.10 | 26.05.12 | 12.15 | Unit tripped due to drum level very low. |
| | | 26.05.12 | 17.05 | 27.05.12 | 3.25 | Unit tripped due to electrical problem. |
| | | 27.05.12 | 3.40 | 27.05.12 | 4.10 | Unit tripped due to master fuel trip. |
| | | 28.05.12 | 7.30 | 28.05.12 | 9.35 | Unit tripped due to electrical problem. |
| | | 03.06.12 | 17.35 | 03.06.12 | 19.20 | Unit tripped due to flame failure. |
| | | 07.06.12 | 3.05 | 07.06.12 | 5.50 | Unit tripped on aux. supply failure due to Stn.-1 tripped. |
| | | 07.06.12 | 10.40 | 07.06.12 | 11.10 | |
| | | 19.06.12 | 10.40 | 22.06.12 | 15.10 | Unit tripped due to Boiler tube leakage. |
| | | 30.06.12 | 0.45 | 30.06.12 | 1.25 | Unit tripped due to 33KV supply failure. |
| | | 06.07.12 | 18.35 | 09.07.12 | 15.00 | Unit tripped on turbine trip, later on the unit still stopped as per system operation. |
| | | 10.07.12 | 8.10 | 01.09.12 | 20.40 | Unit tripped on flame failure, later on the unit taken on Planned Outage as capital O/H w.e.f. 18/07/12 at zero hrs. |
| | | 10.09.12 | 23.10 | 10.09.12 | 23.40 | Unit tripped due to loss of oil fuel. |
| | | 11.09.12 | 14.55 | 13.09.12 | 11.20 | Unit desynchronised to attend the IBD-59 & 60. |
| | | 23.09.12 | 14.20 | 25.09.12 | 10.30 | Unit desynchronised to attend the boiler tube leakage. |
| | | 08.10.12 | 1.15 | 10.10.12 | 7.30 | |
| | | 27.10.12 | 10.20 | 27.10.12 | 12.20 | Unit tripped due to grid disturbance, total dark out. |
| | | 27.10.12 | 14.00 | 27.10.12 | 14.50 | |
| | | 30.10.12 | 7.40 | 30.10.12 | 10.10 | Unit tripped due to Monkey jumped in yard, Bay No. 10 to 22 tripped. |
| | | 30.10.12 | 11.00 | 30.10.12 | 13.05 | Turbine trip. |
| | | 30.10.12 | 13.45 | 30.10.12 | 14.35 | |
| | | 15.11.12 | 0.30 | 16.11.12 | 2.30 | Unit desynchronised to attend the boiler tube leakage. |
| | | 08.12.12 | 7.40 | 09.12.12 | 22.55 | |
| | | 15.12.12 | 13.00 | 15.12.12 | 13.35 | Unit tripped due to drum level low. |
| | | 21.12.12 | 1.20 | 24.12.12 | 12.30 | Unit desynchronised to attend the boiler tube leakage. |
| | | 07.01.13 | 20.10 | 07.01.13 | 22.20 | Unit tripped due to turbine trip. |
| | | 26.01.13 | 14.05 | 26.01.13 | 19.40 | Unit desynchronised to attend the CW v/v. |

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 2 | 67.5 | 01.04.12 | 2.00 | 01.04.12 | 11.15 | Unit desynchronised due to MS pr. & temp. could not maintained as per system operation. |
| | | 03.04.12 | 19.10 | 03.04.12 | 20.50 | Unit tripped due to grid disturbance. |
| | | 10.04.12 | 17.00 | 10.04.12 | 18.35 | |
| | | 10.04.12 | 18.40 | 10.04.12 | 19.30 | Excitation system problem. |
| | | 16.04.12 | 17.40 | 18.04.12 | 19.05 | Unit desynchronised due to non-availability of coal mills. As per system operation. |
| | | 12.05.12 | 17.30 | 12.05.12 | 20.00 | Unit tripped on system disturbance. |
| | | 16.05.12 | 11.30 | 16.05.12 | 12.50 | Unit tripped on system disturbance, total dark out. |
| | | 24.05.12 | 14.10 | 24.05.12 | 1.45 | Unit desynchronized to attend the Economisor tube leakage. |
| | | 28.05.12 | 7.30 | 28.05.12 | 12.50 | Unit tripped due to electrical problem. |
| | | 07.06.12 | 3.05 | 07.06.12 | 4.40 | Unit tripped on aux. supply failure due to Stn.-1 tripped. |
| | | 29.06.12 | 22.50 | 30.06.12 | 2.15 | Unit tripped due to fire occurred on 33KV supply cable. |
| | | 02.07.12 | 12.50 | 05.07.12 | 11.30 | Boiler Tube Leakage. |
| | | 06.07.12 | 21.35 | 06.07.12 | 23.35 | 33KV supply failure. |
| | | 07.07.12 | 8.00 | 09.07.12 | 14.00 | Unit desynchronized as per system operation. |
| | | 09.07.12 | 15.25 | 09.07.12 | 16.05 | Turbine vibration high. |
| | | 10.07.12 | 22.15 | 11.07.12 | 1.20 | Electrical fault. |
| | | 13.07.12 | 1.30 | 13.07.12 | 14.10 | Furnace pr. very high. |
| | | 17.07.12 | 12.05 | 17.07.12 | 13.45 | |
| | | 20.07.12 | 4.45 | 20.07.12 | 5.45 | |
| | | 22.07.12 | 10.10 | 22.07.12 | 11.05 | Turbine vibration high. |
| | | 22.07.12 | 12.00 | 22.07.12 | 12.35 | |
| | | 30.07.12 | 2.25 | 30.07.12 | 11.40 | Grid failure, Total dark out. |
| | | 31.07.12 | 12.55 | 31.07.12 | 17.20 | |
| | | 18.08.12 | 5.05 | 18.08.12 | 6.50 | Dark out, 33kv bay no. 1, 2, 6, 13 & 18 under frequency trip. |
| | | 25.08.12 | 16.25 | 25.08.12 | 17.05 | Drum level very high. |
| | | 25.08.12 | 22.55 | 26.08.12 | 10.00 | Furnace pr. very high. |
| | | 30.08.12 | 9.05 | 30.08.12 | 10.10 | |
| | | 30.08.12 | 15.35 | 30.08.12 | 16.25 | |
| | | 30.08.12 | 20.35 | 30.08.12 | 21.30 | |
| | | 04.09.12 | 13.40 | 09.09.12 | 12.00 | Unit desynchronised to attend the boiler tube leakage. |
| | | 18.09.12 | 18.15 | 18.09.12 | 19.05 | Furnace pr. very high. |
| | | 25.09.12 | 5.20 | 27.09.12 | 11.15 | Unit desynchronised to attend the boiler tube leakage. |
| | | 14.10.12 | 3.20 | 14.10.12 | 6.30 | Unit tripped due to furnace pr. very high. |
| | | 18.10.12 | 15.20 | 19.10.12 | 6.45 | Unit desynchronised to attend the condensor tube leakage. |
| | | 24.10.12 | 15.00 | 25.10.12 | 10.55 | Unit desynchronised as per System Operation |
| | | 27.10.12 | 10.20 | 27.10.12 | 12.15 | Unit tripped due to grid disturbance, total dark out. |
| | | 27.10.12 | 14.00 | 27.10.12 | 15.00 | Unit tripped due to grid disturbance, total dark out. |
| | | 30.10.12 | 7.40 | 30.10.12 | 10.20 | Unit tripped due to Monkey jumped in yard, Bay No. 10 to 22 tripped. |
| | | | | | | |
| | | 11.11.12 | 14.20 | 11.11.12 | 15.45 | Unit tripped due to bus coupler breaker not closed on auto. |
| | | 11.11.12 | 16.15 | 11.11.12 | 16.45 | Unit tripped due to turbine vibration high. |
| | | 11.11.12 | 17.10 | 11.11.12 | 17.50 | |
| | | 29.11.12 | 2.05 | 29.11.12 | 11.50 | Unit tripped due to turbine trip. |
| | | 29.11.12 | 12.00 | 01.12.12 | 15.20 | Unit tripped due to boiler tube leakage |
| | | 27.12.12 | 1235 | 27.12.12 | 13.40 | Unit tripped due to turbine trip. |
| | | 07.01.13 | 20.10 | 07.01.13 | 20.35 | |
| | | 08.01.13 | 13.30 | 08.01.13 | 14.40 | Unit tripped due to monkey jumped near bay No. 7 in yard. |
| | | 09.01.13 | 9.20 | 10.01.13 | 23.00 | Unit desynchronised to attend the economisor tube leakage. |

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 2 | 67.5 | 01.04.12 | 2.00 | 01.04.12 | 11.15 | Unit desynchronised due to MS pr. & temp. could not maintained as per system operation. |
| | | 14.01.13 | 0.20 | 15.01.27 | 2.10 | Unit desynchronised to attend the economisor tube leakage. |
| | | 18.01.13 | 12.25 | 18.01.13 | 14.30 | Unit tripped due to generator transformer trip. |
| | | 20.01.13 | 2.40 | 20.01.13 | 3.50 | Unit tripped due to turbine shaft vibration very high. |
| | | 20.01.13 | 8.00 | 20.01.13 | 8.50 | Unit tripped due to turbine trip. |
| | | 20.01.13 | 10.05 | 20.01.13 | 10.45 | Unit tripped due to, when UAT-2 try to taken i/s, but UAT-2 brk. not closed. |
| | | 20.01.13 | 11.20 | 20.01.13 | 12.00 | Unit tripped due to turbine vibration high. |
| | | 26.01.13 | 14.30 | 27.01.13 | 1.45 | Unit desynchronised to attend the CW v/v. |

**(B) Gas Turbine**

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 1 | 30 | 04.04.12 | 09.28 | 04.04.12 | 12.05 | Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. tripped on relay 86X. |
| | | 08.04.12 | 17.00 | 08.04.12 | 18.05 | Machine tripped due to jerk observed in C/R.160MVA Trf. No.2 tripped. |
| | | 10.04.12 | 00.05 | 10.04.12 | 12.25 | Stopped due to low demand and high frequency. |
| | | 12.04.12 | 17.05 | 12.04.12 | 18.22 | Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. tripped at both end. Over current & earth fault relay operated at GT end on 160MVA Tx-I. Buch-Holtz relay operated on 160MVA Tx-II at IP Ext.end. |
| | | 06.05.12 | 10.49 | 06.05.12 | 16.30 | Tripped on loss of flame,negative phase sequence alarm appeared in CRT.One controller got out of order. |
| | | 24.05.12 | 22.30 | 25.05.12 | 01.20 | Stopped as request of C&I staff with HRSG#I to change gen. absolute filter. |
| | | 09.06.12 | 10.05 | 06.09.12 | 10.25 | Machine came on FSNL |
| | | 17.06.12 | 06.03 | 18.06.12 | 19.54 | Stopped due to low demand and high frequency. |
| | | 19.06.12 | 21.02 | 20.06.12 | 11.30 | |
| | | 20.06.12 | 11.30 | 20.06.12 | 19.00 | Machine tripped during starting due to some elect. Problem. |
| | | 20.06.12 | 19.00 | 21.06.12 | 14.50 | Stopped due to low demand and high frequency. |
| | | 13.07.12 | 12.38 | 13.07.12 | 13.01 | GT#1 came on FSNL as the 66 KV bus became dead due tripping of 160 MVA ICT I & II due to Grid disturbance |
| | | 30.07.12 | 02.35 | 30.07.12 | 04.00 | Machine came on FSNL due to Grid disturbance as both 160 MVA ICT-I&II tripped |
| | | 31.07.12 | 13.02 | 31.07.12 | 13.11 | Machine came on FSNL due to Grid disturbance as both 160 MVA ICT-I&II tripped |
| | | 31.07.12 | 13.50 | 31.07.12 | 13.58 | Came on FSNL due to Grid disturbance as both 160 MVA ICT-I&II tripped on under frequency relay operated at 220 KV end. |
| | | 05.08.12 | 06.26 | 05.08.12 | 21.15 | Machine stopped to attend CW line leakages. |
| | | 18.08.12 | 06.15 | 18.08.12 | 10.05 | Machine tripped due to Grid disturbance |
| | | 29.08.12 | 00.05 | 29.08.12 | 21.35 | Stopped due to low demand and high frequency |
| | | 02.09.12 | 10.45 | 03.09.12 | 11.10 | |
| | | 03.09.12 | 19.02 | 03.09.12 | 20.25 | |
| | | 04.09.12 | 01.16 | 10.09.12 | 09.20 | |
| | | 13.09.12 | 09.45 | 13.09.12 | 10.00 | Tripped due to 160MVA Txf.-2 manually tripped at I.P.Ext. without informing GTPS. |
| | | 28.09.12 | 20.55 | 30.09.12 | 12.20 | Stopped due to low demand and high frequency |
| | | 01.10.12 | 00.00 | 01.10.12 | 02.35 | |
| | | 01.10.12 | 05.20 | 03.10.12 | 11.50 | |
| | | 22.10.12 | 19.00 | 25.10.12 | 13.45 | |
| | | 25.10.12 | 13.45 | 31.10.12 | 19.15 | Stopped due to problem in diesel engine. |
| | | 31.10.12 | 19.15 | 05.11.12 | 15.50 | Stopped due to low demand and high frequency |
| | | 14.11.12 | 14.25 | 16.11.12 | 20.20 | |
| | | 27.11.12 | 12.01 | 28.11.12 | 15.46 | |
| | | 12.12.12 | 12.27 | 14.12.12 | 08.17 | |
| | | 16.12.12 | 05.22 | 16.12.12 | 14.50 | Tripped due to Grid disturbance. |
| | | 16.12.12 | 15.22 | 16.12.12 | 17.10 | |
| | | 16.12.12 | 17.40 | 16.12.12 | 18.28 | |
| | | 16.12.12 | 23.00 | 19.12.12 | 17.35 | Stopped due to low demand and high frequency |
| | | 07.01.13 | 00.10 | 07.01.13 | 06.03 | |
| | | 08.01.13 | 22.05 | 09.01.13 | 06.20 | |
| | | 10.01.13 | 21.02 | 11.01.13 | 15.35 | |
| | | 12.01.13 | 15.29 | 13.01.13 | 23.20 | |
| | | 14.01.13 | 20.35 | 15.01.13 | 09.30 | |
| | | 17.01.13 | 05.30 | 17.01.13 | 13.30 | |
| | | 21.01.13 | 12.30 | 21.01.13 | 13.40 | Tripped on failure of IO Pack. |
| | | 25.01.13 | 13.30 | 31.01.13 | 23.59 | Stopped due to low demand and high frequency |

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 2 | 30 | 08.04.12 | 17.00 | 08.04.12 | 18.06 | Machine tripped due to jerk observed in C/R.160MVA Tr-2 tripped. |
| | | 12.04.12 | 00.02 | 12.04.12 | 06.10 | Stopped due to low demand and high frequency. |
| | | 12.04.12 | 09.31 | 12.04.12 | 18.32 | |
| | | 12.04.12 | 19.45 | 12.04.12 | 20.31 | Tripped on -ve phase sequence elect. Trouble normal shut down. |
| | | 29.04.12 | 00.01 | 29.04.12 | 20.45 | Stopped due to low demand and high frequency. |
| | | 30.04.12 | 13.52 | 30.04.12 | 21.35 | |
| | | 06.06.12 | 12.35 | 08.06.12 | 12.10 | |
| | | 06.07.12 | 18.02 | 06.07.12 | 18.58 | During storm GAC shade fibre sheet fell on unit Trf. To avoid damage& protection of GT#2 66KV breaker &11KV breaker made open. GT#2 kept on FSNL. |
| | | 13.07.12 | 12.38 | 13.07.12 | 13.02 | GT#2came on FSNL as the 66 KV bus became dead due tripping of 160 MVA ICT I & II due to Grid disturbance |
| | | 21.07.12 | 21.16 | 22.07.12 | 17.50 | Stopped due to low demand and high frequency. |
| | | 28.07.12 | 00.32 | 28.07.12 | 17.52 | |
| | | 30.07.12 | 02.35 | 30.07.12 | 04.30 | Came on FSNL due to Grid disturbance as both 160 MVA ICT-I&II tripped on under frequency relay operated at 220 KV end. |
| | | 31.07.12 | 13.09 | 31.07.12 | 15.23 | Tripped on negative phase sequence and back up timer operated . |
| | | 05.08.12 | 06.40 | 16.08.12 | 20.25 | Machine stopped to attend CW line leakages.Machine is not available due to problem in Diesel engine since 06/08/2012. |
| | | 18.08.12 | 04.54 | 18.08.12 | 05.25 | Machine tripped due to Grid disturbance |
| | | 18.08.12 | 06.15 | 18.08.12 | 07.05 | |
| | | 23.08.12 | 03.02 | 23.08.12 | 12.54 | Stopped due to low demand and high frequency |
| | | 24.08.12 | 02.03 | 24.08.12 | 09.43 | |
| | | 30.08.12 | 08.03 | 30.08.12 | 08.28 | Machine tripped on condensate level high trip alarm. |
| | | 02.09.12 | 03.20 | 09.09.12 | 12.20 | Stopped due to low demand and high frequency |
| | | 09.09.12 | 15.50 | 10.09.12 | 09.30 | |
| | | 28.09.12 | 20.10 | 03.10.12 | 18.15 | |
| | | 22.10.12 | 19.00 | 25.10.12 | 12.45 | |
| | | 25.10.12 | 12.45 | 25.10.12 | 22.00 | Not available due to problem in AC AOP. |
| | | 25.10.12 | 22.00 | 26.10.12 | 11.00 | Stopped due to low demand and high frequency |
| | | 26.10.12 | 11.15 | 29.10.12 | 02.30 | |
| | | 06.11.12 | 17.45 | 07.11.12 | 09.30 | |
| | | 11.11.12 | 11.30 | 11.11.12 | 16.00 | |
| | | 14.11.12 | 14.26 | 16.11.12 | 20.55 | |
| | | 16.11.12 | 23.10 | 19.11.12 | 12.43 | |
| | | 29.11.12 | 23.01 | 30.11.12 | 06.45 | |
| | | 30.11.12 | 06.45 | 30.11.12 | 09.55 | Not available due to problem in diesel engine |
| | | 16.12.12 | 17.40 | 16.12.12 | 18.00 | Tripped due to Grid disturbance. |
| | | 16.12.12 | 23.00 | 19.12.12 | 17.36 | Stopped due to low demand and high frequency |
| | | 23.12.12 | 07.11 | 23.12.12 | 08.35 | Tripped due to TAD very high. |
| | | 23.12.12 | 17.15 | 24.12.12 | 14.42 | Stopped due to low demand and high frequency |
| | | 24.12.12 | 15.02 | 24.12.12 | 15.45 | Tripped on high exhaust temp. spread. |
| | | 27.12.12 | 15.45 | 29.12.12 | 00.12 | Stopped due to low demand and high frequency |
| | | 31.01.13 | 16.58 | 31.01.13 | 23.59 | Stopped due to low demand and high frequency |

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 3 | 30 | 01.04.12 | 00.00 | 04.02.12 | 13.50 | Stopped due to low demand and high frequency. |
| | | 03.04.12 | 12.27 | 03.04.12 | 17.44 | Machine tripped on loss of flame. |
| | | 04.04.12 | 09.28 | 04.04.12 | 12.15 | Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. Tripped on relay 86X. |
| | | 05.04.12 | 10.05 | 30.04.12 | 06.15 | Machine stopped due to HGPI . |
| | | 30.04.12 | 22.15 | 02.05.12 | 15.25 | Stopped due to low demand and high frequency. |
| | | 04.05.12 | 04.58 | 04.05.12 | 07.54 | Machine tripped on loss of Exciatation |
| | | 06.05.12 | 17.06 | 06.05.12 | 17.50 | Machine stopped to attend the leakages. |
| | | 20.05.12 | 10.02 | 20.05.12 | 21.55 | Stopped due to low demand and high frequency. |
| | | 29.05.12 | 22.05 | 29.05.12 | 23.32 | Stopped to attend hot gas leakage from compressor. |
| | | 30.05.12 | 03.45 | 30.05.12 | 13.16 | Stopped due to low demand and high frequency. |
| | | 03.06.12 | 18.15 | 04.06.12 | 16.15 | |
| | | 07.06.12 | 06.04 | 07.06.12 | 13.15 | |
| | | 18.06.12 | 20.32 | 19.06.12 | 10.53 | |
| | | 20.06.12 | 14.58 | 20.06.12 | 16.02 | Machine stopped due to diverter damper problem. |
| | | 25.06.12 | 11.50 | 25.06.12 | 12.05 | Hunting observed in load & Machine came on FSNL on turbine under speed alarm appeared. |
| | | 28.06.12 | 02.42 | 28.06.12 | 05.35 | Tripped due to combined cycle tripped alarm. |
| | | 06.07.12 | 19.02 | 13.07.12 | 14.55 | Stopped due to low demand and high frequency. |
| | | 14.07.12 | 01.35 | 16.07.12 | 07.40 | |
| | | 27.07.12 | 14.45 | 27.07.12 | 17.55 | |
| | | 30.07.12 | 02.35 | 30.07.12 | 06.40 | Tripped due to grid disturbance as both 160 MVA ICT tripped . |
| | | 31.07.12 | 13.02 | 31.07.12 | 14.17 | came on FSNL due to Grid disturbance as both 160 MVA ICT-I&II tripped on under frequency relay operated at 220 KV end. |
| | | 05.08.12 | 06.10 | 05.08.12 | 23.04 | Machine stopped to attend CW line leakages. |
| | | 09.08.12 | 20.02 | 09.08.12 | 21.16 | Machine tripped on exhaust temp. high,exhaust over temp.trip |
| | | 18.08.12 | 04.54 | 18.08.12 | 07.05 | Machine tripped due to Grid disturbance |
| | | 23.08.12 | 05.16 | 27.08.12 | 10.20 | Stopped due to low demand and high frequency |
| | | 13.09.12 | 00.30 | 25.09.12 | 11.30 | |
| | | 25.09.12 | 14.40 | 28.09.12 | 20.00 | |
| | | 30.09.12 | 10.40 | 30.09.12 | 11.30 | Tripped |
| | | 08.10.12 | 13.55 | 15.10.12 | 18.18 | Stopped due to low demand and high frequency |
| | | 27.10.12 | 10.19 | 27.10.12 | 12.45 | Tripped due to Grid disturbance |
| | | 27.10.12 | 14.03 | 27.10.12 | 14.45 | |
| | | 27.10.12 | 17.32 | 27.10.12 | 18.30 | |
| | | 11.11.12 | 16.35 | 12.11.12 | 12.45 | Stopped due to low demand and high frequency |
| | | 19.11.12 | 13.35 | 21.11.12 | 21.07 | |
| | | 24.11.12 | 20.32 | 25.11.12 | 15.03 | |
| | | 27.11.12 | 12.01 | 28.11.12 | 15.05 | |
| | | 29.11.12 | 23.01 | 30.11.12 | 05.59 | |
| | | 01.12.12 | 20.05 | 04.12.12 | 08.30 | |
| | | 06.12.12 | 12.50 | 12.12.12 | 08.05 | |
| | | 16.12.12 | 06.18 | 16.12.12 | 08.21 | Tripped due to Grid disturbance. |
| | | 16.12.12 | 17.40 | 16.12.12 | 19.15 | |
| | | 23.12.12 | 00.05 | 23.12.12 | 14.20 | Stopped due to low demand and high frequency |
| | | 23.12.12 | 21.40 | 23.12.12 | 22.15 | Tripped due to TAD very high. |
| | | 23.12.12 | 22.45 | 24.12.12 | 10.30 | Stopped due to low demand and high frequency |
| | | 24.12.12 | 20.05 | 25.12.12 | 00.25 | Came on FSNL but TK fan tripped suddenly. |
| | | 31.12.12 | 01.55 | 31.12.12 | 05.50 | Stopped due to low demand and high frequency |
| | | 01.01.13 | 23.30 | 02.01.13 | 12.57 | Stopped to meet SLDC message |
| | | 03.01.13 | 03.55 | 03.0.13 | 20.50 | |
| | | 04.01.13 | 21.02 | 05.01.13 | 20.59 | |
| | | 06.01.13 | 18.02 | 07.01.13 | 19.05 | |
| | | 08.01.13 | 18.15 | 20.01.13 | 10.10 | |
| | | 22.01.13 | 05.02 | 23.01.13 | 10.34 | |
| | | 24.01.13 | 01.35 | 24.01.13 | 22.25 | |

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| | | | | | | |
| **4** | **30** | 01.04.12 | 00.00 | 02.04.12 | 13.48 | Stopped due to low demand and high frequency. |
| | | 04.04.12 | 09.28 | 04.04.12 | 11.40 | Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. Tripped on relay 86X. |
| | | 07.04.12 | 19.01 | 07.04.12 | 21.45 | Stopped due to low demand and high frequency. |
| | | 12.04.12 | 17.05 | 12.04.12 | 17.45 | Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. tripped at both end. Over current & earth fault relay operated at GT end on 160MVA Tx-I. Buch-Holtz relay operated on 160MVA Tx-II at IP Ext.end. |
| | | 12.04.12 | 18.30 | 19.04.12 | 09.45 | Stopped due to low demand and high frequency. |
| | | 25.04.12 | 21.35 | 26.04.12 | 08.40 | |
| | | 28.04.12 | 10.02 | 30.04.12 | 14.45 | |
| | | 20.05.12 | 10.02 | 20.05.12 | 20.12 | |
| | | 02.06.12 | 21.03 | 04.06.12 | 16.15 | Machine stopped as per SLDC message to maintain SG . |
| | | 04.06.12 | 16.15 | 05.06.12 | 05.45 | Machine started but could not be taken on load due to problem in control ckt. |
| | | 05.06.12 | 05.45 | 06.06.12 | 11.40 | Stopped due to low demand and high frequency. |
| | | 12.06.12 | 06.02 | 12.06.12 | 10.44 | |
| | | 13.06.12 | 00.02 | 13.06.12 | 12.52 | |
| | | 13.06.12 | 15.14 | 13.06.12 | 17.20 | Tripped due to ignition problem. |
| | | 17.06.12 | 07.37 | 17.06.12 | 08.25 | Tripped with following alarm appeared on CRT: IGV servo current -ve saturation alarm. Compressor bleed valve#1 open alarm. CPD measurement fault alarm. |
| | | 18.06.12 | 19.02 | 19.06.12 | 10.54 | Stopped due to low demand and high frequency. |
| | | 06.07.12 | 18.28 | 06.07.12 | 19.00 | Tripped on over temp. trip alarm. |
| | | 06.07.12 | 19.00 | 13.07.12 | 14.35 | Stopped due to low demand and high frequency. |
| | | 14.07.12 | 01.35 | 16.07.12 | 08.09 | |
| | | 16.07.12 | 10.25 | 16.07.12 | 15.30 | |
| | | 17.07.12 | 03.32 | 17.07.12 | 07.50 | |
| | | 18.07.12 | 02.30 | 18.07.12 | 11.50 | |
| | | 23.07.12 | 23.01 | 24.07.12 | 09.50 | |
| | | 26.07.12 | 00.47 | 26.07.12 | 11.05 | |
| | | 27.07.12 | 18.16 | 30.07.12 | 08.30 | |
| | | 31.07.12 | 04.02 | 01.08.12 | 19.25 | |
| | | 02.08.12 | 00.02 | 04.08.12 | 12.20 | |
| | | 04.08.12 | 17.16 | 05.08.12 | 06.00 | |
| | | 05.08.12 | 06.00 | 06.08.12 | 02.07 | Machine stopped to attend CW line leakages. |
| | | 12.08.12 | 09.17 | 12.08.12 | 23.59 | Stopped due to low demand and high frequency. |
| | | 13.08.12 | 00.00 | 13.08.12 | 13.20 | Machine not available. |
| | | 14.08.12 | 18.35 | 15.08.12 | 20.50 | Stopped due to low demand and high frequency. |
| | | 16.08.12 | 07.43 | 16.08.12 | 10.56 | Machine tripped on exhaust over temp. |
| | | 18.08.12 | 04.54 | 18.08.12 | 07.05 | Machine tripped due to Grid disturbance |
| | | 21.08.12 | 15.58 | 21.08.12 | 16.47 | Machine tripped on loss of excitation with HRSG#4. |
| | | 22.08.12 | 14.05 | 27.08.12 | 09.45 | Stopped due to low demand and high frequency. |
| | | 29.08.12 | 00.07 | 29.08.12 | 20.35 | |
| | | 31.08.12 | 02.32 | 31.08.12 | 10.35 | |
| | | 01.09.12 | 03.02 | 01.09.12 | 10.05 | |
| | | 03.09.12 | 02.00 | 03.09.12 | 06.50 | |
| | | 05.09.12 | 03.50 | 07.09.12 | 13.01 | |
| | | 12.09.12 | 23.32 | 28.09.12 | 15.52 | |
| | | 04.10.12 | 01.32 | 04.10.12 | 08.45 | |
| | | 07.10.12 | 01.30 | 15.10.12 | 18.15 | |
| | | 27.10.12 | 10.19 | 27.10.12 | 11.42 | Tripped due to Grid disturbance |
| | | 27.10.12 | 14.03 | 27.10.12 | 14.13 | |
| | | 27.10.12 | 17.32 | 27.10.12 | 18.10 | |

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 4 | 30 | 05.11.12 | 20.05 | 06.11.12 | 17.23 | Stopped due to low demand and high frequency. |
| | | 19.11.12 | 11.45 | 21.11.12 | 21.28 | |
| | | 24.11.12 | 20.32 | 25.11.12 | 15.58 | |
| | | 01.12.12 | 20.05 | 04.12.12 | 08.40 | |
| | | 06.12.12 | 12.50 | 14.12.12 | 08.20 | |
| | | 16.12.12 | 17.40 | 16.12.12 | 19.10 | Tripped due to Grid disturbance. |
| | | 23.12.12 | 00.08 | 24.12.12 | 10.10 | Stopped due to low demand and high frequency |
| | | 25.12.12 | 01.30 | 25.12.12 | 15.35 | Stopped due to high TAD. |
| | | 09.01.13 | 05.25 | 20.01.13 | 11.50 | Stopped due to low demand and high frequency |

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| | | | | | | |
| 5 | 30 | 01.04.12 | 00.00 | 02.04.12 | 15.45 | Stopped due to low demand and high frequency. |
| | | 04.04.12 | 09.28 | 04.04.12 | 11.58 | Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. Tripped on relay 86X. |
| | | 06.04.12 | 00.18 | 09.04.12 | 15.31 | Machine stopped as generation available in open cycle mode |
| | | 12.04.12 | 17.05 | 12.04.12 | 18.20 | Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. tripped at both end. Over current & earth fault relay operated at GT end on 160MVA Tx-I. Buch-Holtz relay operated on 160MVA Tx-II at IP Ext.end. |
| | | 29.04.12 | 21.37 | 02.05.12 | 13.15 | Stopped due to low demand and high frequency |
| | | 04.05.12 | 22.07 | 04.05.12 | 22.55 | Machine tripped on Field fail alarm and Electrical trouable normal shut down |
| | | 04.05.12 | 23.24 | 09.05.12 | 17.10 | Machine again tripped on Field fail alarm and Electrical trouble normal shut down. Machine inspected and Alternate DC supply provided but Diesel engine did not started-I decided to open the diesel Engine. |
| | | 09.05.12 | 22.10 | 10.05.12 | 02.20 | Tripped on field fail alarm. Elect. Trouble normal shut down. |
| | | 06.06.12 | 13.30 | 06.06.12 | 14.00 | Tripped on false LTTH high alarm. The Temperature switch is malfunctioning. |
| | | 07.06.12 | 13.36 | 09.06.12 | 06.15 | Stopped due to low demand and high frequency |
| | | 13.07.12 | 12.38 | 13.07.12 | 12.50 | GT#5 came on FSNL as the 66 KV bus became dead due tripping of 160 MVA ICT I & II due to Grid disturbance |
| | | 17.07.12 | 17.35 | 17.07.12 | 22.57 | Tripped on gas fuel hydraulic pressure low alarm. |
| | | 30.07.12 | 02.35 | 30.07.12 | 02.40 | GT#5 came on FSNL as the 66 KV bus became dead due tripping of 160 MVA ICT I & II due to Grid disturbance |
| | | 31.07.12 | 13.50 | 31.07.12 | 13.52 | GT#5 came on FSNL due to under frequency |
| | | 05.08.12 | 06.16 | 06.08.12 | 03.15 | Machine stopped to attend CW line leakages. |
| | | 15.08.12 | 09.16 | 15.08.12 | 21.25 | Stopped due to low demand and high frequency |
| | | 16.08.12 | 02.15 | 16.08.12 | 10.50 | |
| | | 16.08.12 | 14.46 | 22.08.12 | 23.59 | |
| | | 25.08.12 | 14.32 | 02.09.12 | 10.40 | |
| | | 07.09.12 | 13.05 | 12.09.12 | 18.25 | |
| | | 13.09.12 | 09.45 | 13.09.12 | 10.12 | Tripped due to 160MVA Txf.-2 manually tripped at I.P.Ext. without informing GTPS. |
| | | 15.09.12 | 04.55 | 01.10.12 | 02.50 | Stopped due to low demand and high frequency |
| | | 03.10.12 | 22.50 | 01.01.13 | 20.00 | |
| | | 01.01.13 | 21.15 | 02.01.13 | 17.00 | |
| | | 02.01.13 | 20.30 | 04.01.13 | 18.29 | |
| | | 04.01.13 | 21.02 | 05.01.13 | 11.10 | |
| | | 05.01.13 | 22.27 | 06.01.13 | 12.04 | |
| | | 06.01.13 | 21.25 | 06.01.13 | 22.10 | |
| | | 07.01.13 | 10.30 | 08.01.13 | 20.45 | |
| | | 17.01.13 | 21.30 | 31.01.13 | 11.44 | |

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| | | | | | | |
| **6** | **30** | 01.04.12 | 00.00 | 02.04.12 | 15.50 | |
| | | 04.04.12 | 05.01 | 04.04.12 | 19.42 | Stopped due to low demand and high frequency |
| | | 06.04.12 | 00.18 | 09.04.12 | 15.35 | |
| | | 10.04.12 | 00.07 | 10.04.12 | 11.50 | |
| | | 12.04.12 | 17.05 | 12.04.12 | 21.25 | Machine tripped due to jerk observed in C/R.Both 160MVA Trs. tripped at both end. Over current & earth fault relay operated at GT end on 160MVA Tx-I. Buch-Holtz relay operated on 160MVA Tx-II at IP Ext.end. |
| | | 25.04.12 | 01.45 | 25.05.12 | 20.25 | Stopped due to low demand and high frequency |
| | | 30.04.12 | 09.45 | 02.05.12 | 14.25 | |
| | | 22.05.12 | 12.52 | 22.05.12 | 22.20 | Tripped due to failure of MOV,due to which battery voltage fluctuated at computer screen from 103V to 118V.The following alarms appeared:- -ve phase sequence & Condensate level high temp. |
| | | 03.06.12 | 02.16 | 03.06.12 | 07.55 | Tripped due to failure of controllers. |
| | | 19.06.12 | 21.02 | 20.06.12 | 10.32 | Stopped due to low demand and high frequency. |
| | | 28.06.12 | 17.20 | 28.06.12 | 19.20 | Tripped manually due to sudden fire in window A/C of GT#6 which was installed in GAC(module side) |
| | | 13.07.12 | 12.38 | 13.07.12 | 13.43 | GT#6 tripped on reverse power as the 66 KV bus became dead due tripping of 160 MVA ICT I & II due to Grid disturbance |
| | | 26.07.12 | 22.03 | 27.07.12 | 11.00 | Machine stopped due to leakage of lube oil observed in the TAC. |
| | | 26.07.12 | 22.03 | 27.07.12 | 10.55 | Machine stopped due to oil leakages. |
| | | 30.07.12 | 00.15 | 30.07.12 | 05.40 | Stopped due to low demand and high frequency. |
| | | 31.07.12 | 13.09 | 31.07.12 | 14.14 | Tripped on under voltage |
| | | 05.08.12 | 06.14 | 05.08.12 | 21.15 | Machine stopped to attend CW line leakages. |
| | | 15.08.12 | 09.18 | 15.08.12 | 21.28 | |
| | | 16.08.12 | 02.15 | 16.08.12 | 11.00 | |
| | | 16.08.12 | 14.46 | 18.08.12 | 14.50 | |
| | | 19.08.12 | 03.04 | 22.08.12 | 07.59 | |
| | | 24.08.12 | 02.05 | 24.08.12 | 09.50 | |
| | | 25.08.12 | 14.32 | 29.08.12 | 20.40 | Stopped due to low demand and high frequency. |
| | | 03.09.12 | 02.05 | 03.09.12 | 10.45 | |
| | | 05.09.12 | 04.01 | 10.09.12 | 10.40 | |
| | | 15.09.12 | 05.10 | 01.10.12 | 01.10 | |
| | | 02.10.12 | 12.45 | 03.10.12 | 12.50 | |
| | | 03.10.12 | 19.20 | 05.10.12 | 20.38 | |
| | | 05.10.12 | 22.15 | 04.11.12 | 18.00 | |
| | | 04.11.12 | 18.00 | 11.05.12 | 20.15 | Not available due to problem in diesel engine. |
| | | 05.11.12 | 20.15 | 25.12.12 | 13.45 | |
| | | 26.12.12 | 00.15 | 08.01.13 | 15.40 | |
| | | 09.01.13 | 03.05 | 09.01.13 | 15.30 | Stopped due to low demand and high frequency. |
| | | 17.01.13 | 21.30 | 08.01.13 | 15.40 | |
| | | 09.01.13 | 03.05 | 09.01.13 | 15.30 | |
| | | 17.01.13 | 21.30 | 31.01.13 | 23.59 | |

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| | | | | | | |
| STG-1 | 30 | 04.04.12 | 09.28 | 04.04.12 | 15.20 | Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. Tripped on relay 86X. |
| | | 08.04.12 | 17.00 | 08.04.12 | 20.18 | Machine tripped due to jerk observed in C/R.160MVA Trf. No.2 tripped. |
| | | 08.04.12 | 22.32 | 08.04.12 | 23.20 | Machine tripped due to low vaccum. |
| | | 12.04.12 | 17.05 | 12.04.12 | 20.57 | Machine tripped due to jerk observed in C/R.Both 160MVA Trs. tripped at both end. Over current & earth fault relay operated at GT end on 160MVA Tx-I. Buch-Holtz relay operated on 160MVA Tx-II at IP Ext.end. |
| | | 22.04.12 | 07.46 | 22.04.12 | 15.05 | Machine tripped suddenly ,all parameters were normal. Following alarms appeared: control oil pressure very low,trip oil pressure very low & turbine shaft vibration very high 176. |
| | | 03.05.12 | 01.12 | 03.05.12 | 02.29 | Tripped on hot well level very high. |
| | | 06.05.12 | 14.25 | 06.05.12 | 15.12 | Stopped to attend lube oil leakages. |
| | | 08.05.12 | 22.12 | 08.05.12 | 22.55 | parameters of STG#1 got freezed. As per AM (C&I) all BKs & FV01 should be in line B. while checking all BKs & FV01 from CRA 01 to CRc 04 pannel were found in line A.While changing from A to Line B, machine tripped on Hot well level very high. Machine also tripped on same fault on 03/05/2012 |
| | | 12.05.12 | 17.28 | 12.05.12 | 19.28 | 160 MVA Tx-I tripped in jerk at GT end due to which GT#1 & 2 came on FSNL and STG#1 tripped. |
| | | 23.05.12 | 14.05 | 23.05.12 | 18.05 | Tripped due to false alarm of cond .Hot well level very high. |
| | | 24.05.12 | 22.35 | 24.05.12 | 23.20 | Tripped on class-A relay appeared on DDC room pannel. |
| | | 27.05.12 | 19.20 | 27.05.12 | 20.35 | Tripped due to false alarm of cond.Hot well level very high.The following relays appeared in DDC room: Gen. class A-timer for 32G2A,Gen.class-B-tripp relay86GB. |
| | | 06.06.12 | 12.40 | 06.06.12 | 15.25 | Tripped in emergency while developing the load 20 MW load became zero. |
| | | 06.06.12 | 16.15 | 06.06.12 | 17.40 | Tripped without any alarm .Relay 86GB appeared in DDC room. |
| | | 13.07.12 | 12.38 | 13.07.12 | 14.20 | Machine tripped as the 66 KV bus became dead due tripping of 160 MVA ICT I & II due to Grid disturbance |
| | | 30.07.12 | 02.35 | 30.07.12 | 08.15 | Machine tripped as the 66 KV bus became dead due tripping of 160 MVA ICT I & II due to Grid disturbance |
| | | 31.07.12 | 13.02 | 31.07.12 | 16.15 | Machine tripped on low vaccum the load on GTs reduced due to tripping of 160 MVA ICT I& II on under frequency relay operated. |
| | | 05.08.12 | 06.24 | 05.08.12 | 23.25 | Machine stopped to attend CW line leakages. |
| | | 18.08.12 | 04.54 | 18.08.12 | 09.10 | Machine tripped due to Grid disturbance |
| | | 30.08.12 | 06.28 | 30.08.12 | 07.15 | Machine tripped on class-A relay is operated. |
| | | 30.08.12 | 08.10 | 30.08.12 | 08.50 | . |
| | | 02.09.12 | 03.45 | 02.09.12 | 04.23 | Tripped due to malfunctioning of MS-13 valve |
| | | 02.09.12 | 10.45 | 10.09.12 | 14.45 | Stopped due to low demand and high frequency |
| | | 13.09.12 | 09.45 | 13.09.12 | 11.12 | Tripped due to 160MVA Txf.-2 manually tripped at I.P.Ext. without informing GTPS. |
| | | 28.09.12 | 20.55 | 03.10.12 | 16.55 | Stopped due to low demand and high frequency |
| | | 12.10.12 | 17.44 | 12.10.12 | 19.43 | Tripped due to C & I Problem |
| | | 22.10.12 | 19.00 | 25.10.12 | 12.45 | Stopped due to low demand and high frequency |
| | | 25.10.12 | 12.45 | 25.10.12 | 22.00 | Boiler #2 not available due to problem in AC AOP of G.T. -2 |
| | | 14.11.12 | 14.26 | 16.11.12 | 23.00 | Stopped due to low demand and high frequency |
| | | 13.12.12 | 12.05 | 13.12.12 | 15.00 | Tripped at high vibration |
| | | 16.12.12 | 05.22 | 16.12.12 | 09.15 | Tripped due to Grid disturbance. |
| | | 16.12.12 | 13.08 | 16.12.12 | 14.32 | Tripped on class- A trip. |
| | | 16.12.12 | 15.22 | 16.12.12 | 17.20 | Tripped due to Grid disturbance. |
| | | 16.12.12 | 17.40 | 16.12.12 | 18.00 | . |
| | | 17.12.12 | 00.00 | 17.12.12 | 18.00 | Due to disturbance of grid connectivity,STG#1 has developed problem. It is out of service. |
| | | 17.12.12 | 18.00 | 19.12.12 | 19.35 | Stopped due to low demand and high frequency |
| | | 31.01.13 | 17.05 | 31.01.13 | 23.59 | |

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| STG-2 | 30 | 01.04.12 | 00.00 | 02.04.12 | 16.25 | Stopped due to low demand and high frequency |
| | | 04.04.12 | 09.28 | 04.04.12 | 12.50 | Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. Tripped on relay 86X. |
| | | 07.04.12 | 19.01 | 04.07.12 | 22.45 | Stopped due to low demand and high frequency. |
| | | 08.04.12 | 17.00 | 08.04.12 | 18.51 | Machine tripped due to jerk observed in C/R.160MVA Trf. No.2 tripped. |
| | | 12.04.12 | 17.05 | 12.04.12 | 23.15 | Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. tripped at both end. Over current & earth fault relay operated at GT end on 160MVA Tx-I. Buch-Holtz relay operated on 160MVA Tx-II at IP Ext.end. |
| | | 12.04.12 | 23.15 | 19.04.12 | 12.25 | Stopped due to low demand and high frequency |
| | | 25.05.12 | 21.35 | 26.4.12 | 10.40 | |
| | | 28.04.12 | 10.02 | 30.04.12 | 09.30 | |
| | | 20.05.12 | 10.02 | 20.05.12 | 18.00 | Machine stopped to attend the leakages. |
| | | 20.05.12 | 18.00 | 20.05.12 | 22.15 | Stopped due to low demand and high frequency |
| | | 03.06.12 | 18.15 | 04.06.12 | 18.25 | |
| | | 18.06.12 | 20.32 | 19.06.12 | 12.58 | |
| | | 20.06.12 | 14.58 | 20.06.12 | 15.21 | Tripped due to sudden fall of vaccum |
| | | 28.06.12 | 02.32 | 28.06.12 | 03.54 | Tripped due to hot well level high |
| | | 06.07.12 | 18.35 | 06.07.12 | 19.00 | Tripped due to operation of Generator transformer standby earth fault 64SGT relay. It is expected that this relay operated due to atmospheric lightening. |
| | | 06.07.12 | 19.00 | 13.07.12 | 18.02 | Stopped due to low demand and high frequency. |
| | | 14.07.12 | 01.35 | 16.07.12 | 10.20 | |
| | | 30.07.12 | 02.35 | 30.07.12 | 08.40 | Machine tripped as the 66 KV bus became dead due tripping of 160 MVA ICT I & II due to Grid disturbance |
| | | 31.07.12 | 13.02 | 31.07.12 | 16.46 | Machine tripped on low vaccum the load on GTs reduced due to tripping of 160 MVA ICT I& II on under frequency relay operated. |
| | | 05.08.12 | 06.05 | 06.08.12 | 00.58 | Machine stopped to attend CW line leakages. |
| | | 18.08.12 | 04.54 | 18.08.12 | 09.10 | Machine tripped due to Grid disturbance |
| | | 23.08.12 | 05.16 | 28.08.12 | 12.30 | Stopped due to low demand and high frequency |
| | | 01.09.12 | 00.00 | 01.09.12 | 00.40 | Machine stopped since turbine parameters were not available |
| | | 13.09.12 | 00.30 | 28.09.12 | 20.55 | Stopped due to low demand and high frequency |
| | | 08.10.12 | 13.55 | 15.10.12 | 20.25 | |
| | | 27.10.12 | 10.19 | 27.10.12 | 12.26 | Tripped due to grid disturbance |
| | | 27.10.12 | 14.03 | 27.10.12 | 15.25 | |
| | | 27.10.12 | 17.32 | 27.10.12 | 19.30 | |
| | | 19.11.12 | 13.35 | 22.11.12 | 00.07 | Stopped due to low demand and high frequency |
| | | 24.11.12 | 20.32 | 25.11.12 | 18.40 | |
| | | 01.12.12 | 20.05 | 04.12.12 | 11.52 | |
| | | 06.12.12 | 12.50 | 12.12.12 | 12.25 | |
| | | 14.12.12 | 09.40 | 14.12.12 | 09.55 | Tripped on exhaust pressure very high. |
| | | 16.12.12 | 05.22 | 16.12.12 | 09.20 | Tripped due to Grid disturbance. |
| | | 16.12.12 | 15.22 | 16.12.12 | 16.50 | |
| | | 16.12.12 | 17.40 | 16.12.12 | 21.15 | |
| | | 23.12.12 | 00.10 | 23.12.12 | 17.10 | Stopped due to low demand and high frequency |
| | | 23.12.12 | 21.40 | 24.12.12 | 12.27 | Tripped due to tripping of GT#3 |
| | | 09.01.13 | 05.25 | 20.01.13 | 13.15 | Stopped due to low demand and high frequency |

| | | | | | | |
|---|---|---|---|---|---|---|
| **STG-3** | **30** | 01.04.12 | 00.00 | 02.04.12 | 21.25 | Stopped due to low demand and high frequency |
| | | 04.04.12 | 09.28 | 04.04.12 | 22.20 | Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. Tripped on relay 86X. |
| | | 06.04.12 | 00.18 | 09.04.12 | 18.15 | Machine stopped due to non availability of DC EOP. |
| | | 12.04.12 | 17.05 | 12.04.12 | 19.48 | Machine tripped due to jerk observed in C/R.Both 160MVA Trfs. tripped at both end. Over current & earth fault relay operated at GT end on 160MVA Tx-I. Buchholz relay operated on 160MVA Tx-II at IP Ext.end. |
| | | 20.04.12 | 14.00 | 20.04.12 | 15.50 | Machine stopped to attend oil leakages in Governing system. |
| | | 30.04.12 | 09.45 | 02.05.12 | 18.35 | Stopped due to low demand and high frequency |
| | | 26.05.12 | 14.05 | 26.05.12 | 17.35 | Machine stopped to attend oil leakage from glass of bearing no.1 drain line(return line) |
| | | 07.06.12 | 12.40 | 09.06.12 | 08.15 | Stopped due to low demand and high frequency |
| | | 06.07.12 | 18.35 | 06.07.12 | 19.50 | Tripped due to operation of Generator transformer standby earth fault 64SGT relay. It is expected that this relay operated due to atmospheric lightening. |
| | | 13.07.12 | 12.38 | 13.07.12 | 15.58 | Machine tripped as the 66 KV bus became dead due tripping of 160 MVA ICT I & II due to Grid disturbance |
| | | 30.07.12 | 02.35 | 30.07.12 | 08.35 | Machine tripped as the 66 KV bus became dead due tripping of 160 MVA ICT I & II due to Grid disturbance |
| | | 31.07.12 | 13.02 | 31.07.12 | 16.22 | Machine tripped on low vaccum the load on GTs reduced due to tripping of 160 MVA ICT I& II on under frequency relay operated. |
| | | 05.08.12 | 06.12 | 07.08.12 | 02.35 | Machine stopped to attend CW line leakages. |
| | | 13.08.12 | 14.27 | 13.08.12 | 17.43 | Machine tripped on high exhaust temperature. The vaccum reduced due to malfunctioning of MS-13. Other line was not available for operation. |
| | | 15.08.12 | 09.16 | 16.08.12 | 00.10 | Machine stopped as per SLDC message to maintain SG . |
| | | 16.08.12 | 00.48 | 22.08.12 | 11.20 | Machine tripped due to axial shift high alarm. |
| | | 25.08.12 | 14.32 | 30.08.12 | 00.10 | Machine stopped as per SLDC message to maintain SG . |
| | | 30.08.12 | 14.05 | 30.08.12 | 16.25 | Machine stopped to attend ejector leakages. |
| | | 07.09.12 | 13.05 | 10.09.12 | 12.40 | Machine stopped as per SLDC message to maintain SG . |
| | | 15.09.12 | 05.10 | 01.10.12 | 03.35 | Stopped as per SLDC message |
| | | 03.10.12 | 22.48 | 09.01.13 | 04.20 | Shutdown for major overhauling |
| | | 17.01.13 | 21.30 | 31.01.13 | 16.25 | Stopped due to low demand and high frequency |

**(C) PRAGATI STATION**

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 1 | 104 | 14.04.12 | 14:22 | 16.04.12 | 5.40 | Stopped due to low demand and high frequency |
| | | 27.05.12 | 3:00 | 27.05.12 | 11.44 | |
| | | 28.05.12 | 6:25 | 28.05.12 | 17.03 | Tripped on internal fault |
| | | 07.06.12 | 23:18 | 08.06.12 | 0.26 | |
| | | 08.06.12 | 1:41 | 08.06.12 | 5.10 | |
| | | 16.06.12 | 9:17 | 16.06.12 | 13.29 | |
| | | 23.06.12 | 10:17 | 23.06.12 | 12.12 | |
| | | 23.06.12 | 17:38 | 23.06.12 | 18.32 | |
| | | 26.06.12 | 18:00 | 26.06.12 | 19.31 | |
| | | 27.06.12 | 9:31 | 27.06.12 | 12.19 | |
| | | 20.07.12 | 21:24 | 20.07.12 | 23.16 | |
| | | 30.07.12 | 2:35 | 30.07.12 | 8.49 | Grid Black-out |
| | | 31.07.12 | 13:02 | 31.07.12 | 15.43 | |
| | | 10.08.12 | 6:00 | 17.08.12 | 0.41 | Stopped for CI |
| | | 31.10.12 | 12:57 | 31.10.12 | 17.55 | |
| | | 24.11.12 | 16:17 | 24.11.12 | 17.12 | GT#1 & STG tripped on grid disturbance on bus-I dead |
| | | 30.11.12 | 3:07 | 30.11.12 | 4.13 | |
| | | 15.12.12 | 9:45 | 15.12.12 | 14.17 | GT#1 stopped for Inlet Air Filters replacement. |
| | | 16.12.12 | 5:25 | 16.12.12 | 7.28 | Tripped due to Grid disturbance |
| | | 16.12.12 | 15:26 | 16.12.12 | 16.41 | |
| | | 16.12.12 | 17:45 | 16.12.12 | 20.53 | |
| | | | | | | |
| 2 | 104 | 03.04.12 | 19:07 | 03.04.12 | 19.47 | Tripped on on grid disturbance |
| | | 10.04.12 | 17:00 | 10.04.12 | 17.51 | |
| | | 12.05.12 | 17:28 | 12.05.12 | 17.57 | |
| | | 16.05.12 | 11:28 | 16.05.12 | 12.19 | |
| | | 03.06.12 | 3:00 | 03.06.12 | 9.00 | Stopped due to low demand and high frequency |
| | | 27.06.12 | 9:31 | 27.06.12 | 10.35 | Tripped on internal fault |
| | | 01.07.12 | 4:00 | 01.07.12 | 10.43 | Stopped due to low demand and high frequency |
| | | 06.07.12 | 18:50 | 07.07.12 | 12.28 | |
| | | 13.07.12 | 12:40 | 13.07.12 | 13.35 | Tripped due to Grid disturbance |
| | | 30.07.12 | 2:38 | 30.07.12 | 8.42 | |
| | | 31.07.12 | 13:02 | 31.07.12 | 15.40 | |
| | | 18.08.12 | 0:00 | 29.08.12 | 1.44 | Stopped for HGPI |
| | | 31.08.12 | 22:38 | 31.08.12 | 23.00 | Tripped on internal fault |
| | | 27.10.12 | 10:19 | 27.10.12 | 10.34 | GT#2 & STG tripped on grid disturbance on bus-II |
| | | 27.10.12 | 14:03 | 27.10.12 | 14.22 | |
| | | 27.10.12 | 17:36 | 27.10.12 | 18.00 | |
| | | 14.12.12 | 9:57 | 14.12.12 | 15.06 | GT#2 stopped for Inlet Air Filters replacement. |
| | | 16.12.12 | 5:25 | 16.12.12 | 6.48 | |
| | | 16.12.12 | 15:26 | 16.12.12 | 16.36 | |
| | | 16.12.12 | 17:26 | 16.12.12 | 20.50 | |

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| STG | 122 | 03.04.12 | 19:26 | 03.04.12 | 23.26 | Tripped on on grid disturbance |
| | | 10.04.12 | 17:00 | 10.04.12 | 18.04. | |
| | | 12.05.12 | 17:28 | 12.05.12 | 18.48 | |
| | | 16.05.12 | 11:28 | 16.05.12 | 12.25 | |
| | | 10.06.12 | 3.05 | 10.06.12 | 9.46 | Stopped due to low demand and high frequency |
| | | 10.06.12 | 12.30 | 10.06.12 | 15.12 | Stopped due to internal fault |
| | | 27.06.12 | 9:31 | 27.06.12 | 11.15 | Tripped on internal fault |
| | | 13.07.12 | 12:40 | 13.07.12 | 14.12 | Tripped due to Grid disturbance |
| | | 30.07.12 | 2:35 | 30.07.12 | 13.41 | |
| | | 31.07.12 | 13.02 | 31.07.12 | 20.58 | |
| | | 09.08.12 | 9:43 | 09.08.12 | 16.40 | Tripped on internal fault |
| | | 18.08.12 | 0:16 | 23.08.12 | 0.45 | Stopped for PHE connection of Gt#1&GT#2 |
| | | 31.08.12 | 22:38 | 31.08.12 | 24.00 | Tripped on internal fault |
| | | 01.09.12 | 0:00 | 01.09.12 | 12.56 | |
| | | 29.09.12 | 21:08 | 29.09.12 | 22.30 | |
| | | 10.10.12 | 9:40 | 10.10.12 | 10.27 | |
| | | 20.10.12 | 5:01 | 10.10.12 | 20.30 | |
| | | 27.10.12 | 10:19 | 27.10.12 | 11.22 | |
| | | 27.10.12 | 14:03 | 27.10.12 | 15.07 | |
| | | 27.10.12 | 17:36 | 27.10.12 | 18.40 | |
| | | 31.10.12 | 12:57 | 31.10.12 | 13.58 | |
| | | 24.11.12 | 16:17 | 24.11.12 | 17.42 | |
| | | 30.11.12 | 3.07 | 30.11.12 | 7.45 | |
| | | 30.11.12 | 7.45 | 30.11.12 | 19.08 | delayed due to leakage in generator cooler. |
| | | 05.12.12 | 4.55 | 05.12.12 | 13.24 | Tripped on internal fault |
| | | 16.12.12 | 5.25 | 16.12.12 | 7.42 | |
| | | 16.12.12 | 15.26 | 16.12.12 | 17.30 | |
| | | 16.12.12 | 17.45 | 16.12.12 | 21.31 | |
| | | 21.12.12 | 10.26 | 21.12.12 | 20.35 | STG Stopped to attend High vibration of exciter. |
| | | 15.01.13 | 6.47 | 15.01.13 | 10.18 | Tripped on internal fault |
| | | 16.01.13 | 2.38 | 16.01.13 | 5.28 | |
| | | 17.01.13 | 8.27 | 17.01.13 | 13.05 | |
| | | 23.01.13 | 14.45 | 24.01.13 | 1.24 | To attend internal fault |

**(D) BADARPUR THERMAL POWER STATION**

| Unit | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 1 | 95 | 24-04-12 | 18:35 | 25-04-12 | 18:15 | Reserve shutdown |
| | | 13-05-12 | 13:12 | 13-05-12 | 13:43 | Furnace Disturbance |
| | | 26-05-12 | 8:32 | 26-05-12 | 11:10 | Grid Disturbance |
| | | 26-05-12 | 12:37 | 29-05-12 | 1:25 | Water wall Tube Leakage |
| | | 20-07-12 | 22:02 | 22-07-12 | 13:00 | Water wall Tube Leakage |
| | | 22-07-12 | 13:00 | 23-07-12 | 3:07 | CW Pump not available |
| | | 30-07-12 | 6:58 | 30-07-12 | 10:57 | Grid Disturbance |
| | | 31-07-12 | 13:08 | 31-07-12 | 16:48 | |
| | | 10-08-12 | 12:08 | 10-08-12 | 13:25 | Control Supply Cable fault |
| | | 12-08-12 | 11:57 | 12-08-12 | 14:20 | |
| | | 14-08-12 | 19:00 | 16-08-12 | 10:43 | Reserve shutdown |
| | | 21-08-12 | 22:05 | 21-08-12 | 22:52 | Furnace Disturbance |
| | | 06-09-12 | 16:10 | 07-09-12 | 10:53 | Leakage in drum Manhole |
| | | 18-09-12 | 9:32 | 18-09-12 | 10:53 | Furnace Disturbance |
| | | 28-09-12 | 23:43 | 01-10-12 | 12:25 | Reserve shutdown |
| | | 05-10-12 | 5:45 | 05-10-12 | 6:22 | Furnace Disturbance |
| | | 12-10-12 | 8:23 | 12-10-12 | 9:11 | |
| | | 14-10-12 | 6:32 | 14-10-12 | 7:12 | |
| | | 23-10-12 | 16:54 | 29-10-12 | 9:00 | Reserve shutdown |
| | | 29-10-12 | 9:00 | 19-11-12 | 8:54 | Planned shutdown |
| | | 19-11-12 | 10:21 | 19-11-12 | 10:47 | Furnace Disturbance |
| | | 21-11-12 | 19:35 | 21-11-12 | 20:35 | |
| | | 24-11-12 | 7:28 | 07-12-12 | 17:33 | Reserve shutdown |
| | | 17.01.13 | 09.01 | 21.01.13 | 06.16 | |
| | | | | | | |
| 2 | 95 | 05-04-12 | 3:30 | 05-04-12 | 12:27 | Loss of excitation field |
| | | 15-05-12 | 12:05 | 19-05-12 | 18:30 | CW Shortage |
| | | 26-05-12 | 8:32 | 26-05-12 | 11:43 | Grid Disturbance |
| | | 06-06-12 | 19:08 | 06-06-12 | 19:55 | PC feeder trip on Low LT Voltage caused by system jerk |
| | | 06-07-12 | 19:20 | 09-07-12 | 10:05 | Reserve shutdown |
| | | 30-07-12 | 2:35 | 30-07-12 | 5:27 | Grid Disturbance |
| | | 30-07-12 | 6:58 | 30-07-12 | 11:29 | |
| | | 31-07-12 | 13:01 | 31-07-12 | 17:05 | |
| | | 18-08-12 | 22:59 | 18-08-12 | 23:55 | Furnace Disturbance |
| | | 29-08-12 | 9:30 | 01-09-12 | 10:00 | Reserve shutdown |
| | | 01-09-12 | 10:00 | 17-09-12 | 0:17 | Planed shutdown Boiler overhauling |
| | | 17-09-12 | 6:43 | 17-09-12 | 18:22 | Unit stopped due to coal bunker chocking |
| | | 22-09-12 | 11:52 | 24-09-12 | 10:47 | Reserve shutdown |
| | | 24-09-12 | 11:46 | 24-09-12 | 13:11 | Low Condenser Vacuum |
| | | 29-09-12 | 13:40 | 01-10-12 | 10:24 | Reserve shutdown |
| | | 13-10-12 | 0:00 | 13-10-12 | 19:24 | |
| | | 16-10-12 | 23:05 | 16-10-12 | 23:54 | Furnace Disturbance |
| | | 23-11-12 | 10:24 | 23-11-12 | 11:05 | |
| | | 27-11-12 | 23:59 | 07-12-12 | 21:20 | Reserve shutdown |
| | | 10-12-12 | 9:44 | 13-12-12 | 2:00 | Platen SH Leakage |

| Unit | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 3 | 95 | 01-04-12 | 23:45 | 22-04-12 | 17:12 | Planned shutdown |
| | | 22-04-12 | 18:21 | 22-04-12 | 21:46 | Generator Over Fluxing |
| | | 12-05-12 | 6:04 | 13-05-12 | 5:17 | Economiser Tube leakage |
| | | 13-05-12 | 20:22 | 13-05-12 | 21:25 | Furnace Disturbance |
| | | 26-05-12 | 8:32 | 26-05-12 | 15:20 | Grid Disturbance |
| | | 27-05-12 | 7:20 | 27-05-12 | 8:05 | Furnace Disturbance |
| | | 30-05-12 | 15:05 | 30-05-12 | 15:40 | |
| | | 02-06-12 | 11:46 | 03-06-12 | 16:15 | CW Shortage |
| | | 09-06-12 | 23:50 | 10-06-12 | 10:43 | Fuurnace plate red hot near burner |
| | | 15-06-12 | 7:40 | 15-06-12 | 8:50 | Furnace Disturbance |
| | | 28-06-12 | 6:15 | 28-06-12 | 12:55 | Furnace Disturbance |
| | | 30-07-12 | 6:58 | 30-07-12 | 10:25 | Grid Disturbance |
| | | 31-07-12 | 13:08 | 31-07-12 | 16:18 | |
| | | 31-07-12 | 18:35 | 31-07-12 | 19:17 | Low Condenser Vacuum |
| | | 31-07-12 | 20:05 | 01-08-12 | 0:40 | Excitation System Problem |
| | | 04-08-12 | 1:32 | 04-08-12 | 5:40 | Furnace Disturbance |
| | | 04-08-12 | 19:34 | 04-08-12 | 20:25 | |
| | | 10-08-12 | 7:15 | 10-08-12 | 8:15 | |
| | | 14-08-12 | 12:44 | 16-08-12 | 11:25 | Reserve shutdown |
| | | 16-08-12 | 15:44 | 16-08-12 | 16:36 | Furnace Disturbance |
| | | 18-08-12 | 6:15 | 19-08-12 | 1:05 | Economiser Tube leakage |
| | | 21-08-12 | 22:28 | 21-08-12 | 23:18 | Furnace Disturbance |
| | | 23-08-12 | 4:42 | 30-08-12 | 20:32 | Reserve shutdown |
| | | 30-08-12 | 20:37 | 31-08-12 | 20:25 | Generator Stator Earth Fault |
| | | 13-10-12 | 14:57 | 13-10-12 | 15:42 | Furnace Disturbance |
| | | 14-10-12 | 6:52 | 14-10-12 | 7:50 | |
| | | 20-10-12 | 9:36 | 20-10-12 | 10:15 | |
| | | 21-10-12 | 8:27 | 29-10-12 | 6:43 | Reserve shutdown |
| | | 14-11-12 | 8:56 | 24-11-12 | 5:08 | |
| | | 29-11-12 | 5:05 | 29-11-12 | 6:06 | Furnace Disturbance |
| | | 16-12-12 | 0:07 | 20-12-12 | 11:50 | Reserve shutdown |
| | | 16.01.13 | 23.58 | 21.01.13 | 05.43 | |
| | | 22.01.13 | 12.23 | 25.01.13 | 13.37 | |
| | | | | | | |
| 4 | 210 | 21-05-12 | 7:12 | 23-05-12 | 15:35 | CW Shortage |
| | | 26-05-12 | 8:32 | 26-05-12 | 11:28 | Grid Disturbance |
| | | 06-07-12 | 7:35 | 06-07-12 | 9:33 | Excitation System Problem |
| | | 30-07-12 | 2:35 | 30-07-12 | 18:00 | Grid Disturbance |
| | | 31-07-12 | 13:01 | 31-07-12 | 17:25 | |
| | | 09-08-12 | 22:57 | 12-08-12 | 7:52 | Reheater Tube Leakage |
| | | 12-08-12 | 8:10 | 12-08-12 | 15:56 | BFP 4C breaker bursting |
| | | 23-08-12 | 0:15 | 23-08-12 | 1:47 | Furnace Disturbance |
| | | 23-08-12 | 2:55 | 23-08-12 | 4:05 | |
| | | 23-08-12 | 9:37 | 23-08-12 | 13:45 | |
| | | 25-08-12 | 23:18 | 26-08-12 | 0:48 | |
| | | 18-09-12 | 2:05 | 18-09-12 | 4:05 | |
| | | 18-09-12 | 4:05 | 18-09-12 | 14:35 | Control Supply Cable fault |
| | | 26-11-12 | 9:22 | 26-11-12 | 21:18 | Relay Malfunction |
| | | 07-12-12 | 21:47 | 10-12-12 | 16:30 | Reserve shutdown |
| | | 10-12-12 | 16:30 | 10-12-12 | 17:00 | Seal Oil system |
| | | 10-12-12 | 17:00 | 26-12-12 | 16:42 | Planned shutdown |
| | | 31-12-12 | 13:32 | 02.01.13 | 17.50 | Steam Cooled screen tube leakage |

| Unit | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| | | | | | | |
| 5 | 210 | 28-04-12 | 12:40 | 30-04-12 | 6:25 | Reserve shutdown |
| | | 19-05-12 | 14:48 | 21-05-12 | 5:45 | CW Shortage |
| | | 26-05-12 | 8:32 | 26-05-12 | 11:35 | Grid Disturbance |
| | | 03-06-12 | 11:46 | 27-06-12 | 20:37 | Plan shutdown boiler overhauling |
| | | 25-07-12 | 20:34 | 26-07-12 | 21:57 | Water wall Tube Leakage |
| | | 27-07-12 | 14:51 | 27-07-12 | 16:04 | Both BFPs tripped |
| | | 30-07-12 | 6:58 | 30-07-12 | 15:10 | Grid Disturbance |
| | | 31-07-12 | 13:12 | 31-07-12 | 18:01 | |
| | | 01-08-12 | 19:30 | 01-08-12 | 22:15 | Furnace Disturbance |
| | | 15-09-12 | 21:28 | 16-09-12 | 13:30 | Water wall Tube Leakage |
| | | 16-09-12 | 13:30 | 17-09-12 | 9:08 | Reserve shutdown |
| | | 03-10-12 | 11:33 | 04-10-12 | 16:00 | Water wall Tube Leakage |
| | | 13-10-12 | 15:13 | 14-10-12 | 4:58 | |
| | | 06-11-12 | 16:12 | 06-11-12 | 17:06 | Furnace Disturbance |
| | | 14-12-12 | 9:27 | 15-12-12 | 19:46 | Water wall Tube Leakage |
| | | 19-12-12 | 19:42 | 21-12-12 | 12:19 | Generator Stator Earth Fault |
| | | 06.01.13 | 23.25 | 08.01.13 | 00.30 | BTL – LTSH tube leakage |

**(E) BAWANA CCGT POWER STATION**

| Unit | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 1 | 216 | 20.04.12 | 15:41 | 20.04.12 | 19:25 | Excessive Fuel Trip |
| | | 12.05.12 | 13:29 | 12.05.12 | 16:03 | Auxiliary Failure due to bay 403 trip |
| | | 18.05.12 | 00:48 | 18.05.12 | 4:08 | Lub Oil pressure low on GT#1 due to LT trippings |
| | | 27.05.12 | 18:13 | 27.05.12 | 20:18 | High GT exhaust spread temperature |
| | | 31.05.12 | 19:00 | 01.06.12 | 0:26 | GT#1 TRIP due to Combustion trouble and high exhaust temperature spread trip at frequency of 50.3Hz |
| | | 12.06.12 | 09:44 | 14.06.12 | 18:26 | Rotor eath fault |
| | | 23.06.12 | 12:19 | 23.06.12 | 17:45 | Fire protection trip |
| | | 25.06.12 | 06:01 | 26.06.12 | 8:29 | High exhaust temperature trip |
| | | 18.07.12 | 2:23 | 18.07.12 | 4:20 | High GT exhaust spread temperature |
| | | 31.07.12 | 13:00 | 31.07.12 | 16:05 | Grid Failure |
| | | 03.08.12 | 14:56 | 03.08.12 | 16:20 | Lub oil pressure low due to LT failure |
| | | 28.09.12 | 03:38 | 28.09.12 | 6:35 | High GT exhaust temperature |
| | | 06.10.12 | 9:30 | 06.10.12 | 17:18 | RST diagnostic alarm , 125V DC ground on GT,STG tripped on Customer Trip ( GT trip) |
| | | 06.10.12 | 19:13 | 07.10.12 | 0:01 | GT trip due to lub oil pr low |
| | | 15.10.12 | 14:49 | 15.10.12 | 18:08 | Gas fuel inter valve press(P2) low |
| | | 15.10.12 | 19:24 | 15.10.12 | 21:35 | Lub oil Pr low trip |
| | | 15.10.12 | 22:20 | 16.10.12 | 2:39 | Rotor earth fault |
| | | 17.10.12 | 10:43 | 17.10.12 | 14:23 | GT tripped on customer trip |
| | | 18.10.12 | 21:59 | 19.10.12 | 16:19 | Generator Protection due to rotor earth fault |
| | | 8.11.12 | 13:16 | 08.11.12 | 18:06 | Auxiliary Failure due to LT failure |
| | | 19.11.12 | 22:36 | 20.11.12 | 4:00 | Loss of Flame |
| | | 30.11.12 | 18:50 | 30.11.12 | 20:24 | Purge valve fault |
| | | 06.12.12 | 22.08 | 07.12.12 | 09.12 | To replace gas valve |
| | | 23.12.12 | 10:35 | 29.12.12 | 10:55 | Tripped on high DP, After this GT#2 was taken into service, |

| Unit | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 2 | 216 | 19.07.12 | 11:34 | 19.07.12 | 15.45 | Customer trip(IP drum level low, D/D position>2%) |

| Unit | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| STG | 245 | 20.04.12 | 15:41 | 20.04.12 | 19:25 | HRSG #1 tripped due to GT#1 trip |
| | | 24.04.12 | 08:03 | 24.04.12 | 19:08 | STG#1 tripped on very high transformer oil temperature |
| | | 12.05.12 | 13:29 | 13.05.12 | 3:27 | HRSG tripped on GT#1 trip |
| | | 18.05.12 | 00:48 | 21.05.12 | 23:50 | HRSG tripped on GT#1 trip |
| | | 27.05.12 | 18:13 | 27.05.12 | 23:21 | ST trip due to GT Trip |
| | | 30.05.12 | 11:39 | 30.05.12 | 14:35 | Generator cold gas temperature high due to PHE choking |
| | | 30.05.12 | 11:18 | 31.05.12 | 1:32 | IP Drum level high |
| | | 31.05.12 | 19:00 | 31.05.12 | 1:32 | ST trip due to GT trip |
| | | 12.06.12 | 9:44 | 14.06.12 | 18:26 | GT Tripped |
| | | 23.06.12 | 12:19 | 23-01-00 | 17:45 | ST trip due to GT trip |
| | | 02.07.12 | 19:45 | 03.07.12 | 1:39 | Generator breaker tripped |
| | | 17.07.12 | 09:28 | 17.07.12 | 15:26 | ST trip due to GT trip |
| | | 18.07.12 | 2:23 | 18.07.12 | 23:21 | ST trip due to GT trip |
| | | 24.07.12 | 19:18 | 00-01-00 | 20:03 | HMI emergency trip |
| | | 31.07.12 | 13:00 | 31.07.12 | 17:25 | Grid Failure |
| | | 03.08.12 | 14:56 | 03.08.12 | 20:25 | Lub oil pressure low |
| | | 28.09.12 | 03:38 | 29.09.12 | 14:18 | ST trip due to GT trip |
| | | 06.10.12 | 09:30 | 07.10.12 | 1:46 | RST diagnostic alarm , 125V DC ground on GT,STG tripped on Customer Trip ( GT trip) |
| | | 15.10.12 | 14:49 | 16.10.12 | 4:10 | ST trip due to GT trip |
| | | 17.10.12 | 10:43 | 17.10.12 | 16:19 | GT tripped on customer trip |
| | | 18.10.12 | 21:59 | 29.10.12 | 11:44 | STG trip on GT trip, under backing down also. |
| | | 08.11.12 | 13:16 | 08.11.12 | 20:13 | LT breakers 1 DA, 2DA, 1KA tripped |
| | | 29.11.12 | 22:27 | 30.11.12 | 6:53 | Rotor earth fault |
| | | 30.11.12 | 18:50 | 30.11.12 | 21:52 | ST trip due to GT trip |
| | | 02.12.12 | 13:21 | 02.12.12 | 17:13 | STG#1 tripped on low forward power relay(TMR became faulty & load jumped from 60MW to 90MW) |
| | | 06.12.12 | 22.08 | 07.12.12 | 09.12 | To replace gas valve |
| | | 08.12.12 | 17:08 | 08.12.12 | 19:28 | STG#1 was running in stable condition It tripped due to HVCB opening |
| | | 18.12.12 | 03:25 | 18.12.12 | 10:43 | Under Excitation fault |
| | | 23.12.12 | 10:31 | 24.12.12 | 0:44 | STG #1 tripped on GT#1 trip |
| | | 26.12.12 | 21:35 | 27.12.12 | 6:40 | Tripped due to speed pick up problem |
| | | 27.12.12 | 09:32 | 27.12.12 | 13:46 | Tripped due to speed pick up problem |
| | | 29.12.12 | 18:02 | 29.12.12 | 18:58 | 24 Volt supply failure |

**(E) RITHALA POWER STATION**

| Unit | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 1 | 31.8 | 30.03.12 | 20:19 | 02.04.12 | 17:50 | GT1 was started & synchronized with grid at 18:40hrs for STG start-up but it was stopped at 20:19 hrs as per management Decision(TPDDL) |
| | | 10.04.12 | 17:11 | 11.04.12 | 6:32 | GT-01 circuit breaker got open on overvoltage due to fault at CENNET end |
| | | 28.04.12 | 23:15 | 01.05.12 | 15:09 | Fuel Gas supplied by RIL was insufficient to run the plant. |
| | | 07.05.12 | 13:52 | 02.06.12 | 14:38 | due to HRSG-1 GFD trouble. Diverter damper got stuck at 56% open duing triping of STG. |
| | | 02.06.12 | 17:00 | 04.06.12 | 13:26 | shutdown taken due to high vibration |
| | | 04.06.12 | 17:31 | 11.06.12 | 17:39 | |
| | | 18.06.12 | 15:20 | 18.06.12 | 15:26 | GCB opened manually for re-synchronizing as m/c was in islanding mode due to fault at CENNET end. |
| | | 22.06.12 | 19:26 | 23.06.12 | 2:53 | GT-1 shut down was taken for GT-2 stat up |
| | | 23.06.12 | 23:43 | 25.06.12 | 10:56 | Lower gas supplied from KG Basin |
| | | 25.06.12 | 15:23 | 01.07.12 | 19:22 | |
| | | 04.07.12 | 0:03 | 04.07.12 | 2:57 | GT-1 tripped on "SRV NOT TACKING" alarm. |
| | | 04.07.12 | 11:58 | 07.07.12 | 3:19 | |
| | | 12.07.12 | 10:42 | 12.07.12 | 22:44 | Exhaust spread high |
| | | 12.07.12 | 23:07 | 13.07.12 | 0:06 | Tripping reason not found |
| | | 14.07.12 | 5:42 | 14.07.12 | 6:55 | At 05:40 hrs RG-5 line tripped and WHRB-1 GFD not closed. |
| | | 14.07.12 | 9:13 | 14.07.12 | 11:45 | turbine bearing-2 drain oil temperature high(False value) |
| | | 17.07.12 | 2:48 | 20.07.12 | 21:40 | Lower gas supplied from KG Basin |
| | | 22.07.12 | 3:41 | 23.07.12 | 11:15 | |
| | | 24.07.12 | 2:35 | 30.07.12 | 9:02 | |
| | | 30.07.12 | 14:50 | 30.07.12 | 15:23 | Exhaust thermocouple |
| | | 31.07.12 | 1:39 | 31.07.12 | 17:24 | Lower gas supplied by KG Basin |
| | | 31.07.12 | 17:29 | 31.07.12 | 18:46 | 'Exhaust thermocouple lock-out' |
| | | 31.07.12 | 18:59 | 31.07.12 | 20:18 | |
| | | 02.08.12 | 2:35 | 09.08.12 | 10:55 | Lower gas supplied from KG Basin |
| | | 10.08.12 | 00:46 | 14.08.12 | 8:58 | |
| | | 15.08.12 | 0:48 | 21.08.12 | 10:27 | No power Demand as cennet |
| | | 25.08.12 | 2:04 | 27.08.12 | 9:03 | Lower gas supplied from KG Basin |
| | | 01.09.12 | 5:55 | 03.09.12 | 9:01 | |
| | | 08.09.12 | 2:01 | 11.09.12 | 0:28 | |
| | | 15.09.12 | 2:15 | 21.09.12 | 8:54 | |
| | | 22.09.12 | 00:12 | 24.09.12 | 8:57 | |
| | | 25.09.12 | 18:35 | 26.09.12 | 8:57 | Heavy water leakage was observed from ACW pump-2 NRV body (crack formation) |
| | | 02.10.12 | 0:05 | 15.10.12 | 9:57 | Lower gas supplied from KG Basin |
| | | 16.10.12 | 3:50 | 16.10.12 | 6:45 | 'SRV not tracking trip' |
| | | 18.10.12 | 7:50 | 22.10.12 | 9:52 | |
| | | 24.10.12 | 5:09 | 29.10.12 | 4:07 | No schedule have been given by SLDC on Spot gas |
| | | 02.11.12 | 00:08 | 05.11.12 | 8:35 | |
| | | 08.11.12 | 22:00 | 10.11.12 | 5:57 | |
| | | 10.11.12 | 02:01 | 18.11.12 | 0:27 | |
| | | 18.11.12 | 16:09 | 29.11.12 | 14:17 | |
| | | 30.11.12 | 20:04 | 10.12.12 | 9:53 | |
| | | 10.12.12 | 16:21 | 10.12.12 | 18:14 | load gear bearing -1 temp high shut down |
| | | 12.12.12 | 18:04 | 31.12.12 | 8:04 | No schedule have been given by SLDC on Spot gas |
| | | 01.01.13 | 17.04 | Contd. | | lube oil temperature high shutdown/No schedule have been given by SLDC on Spot gas after rectification of problem |

| Unit | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 2 | 31.8 | 03.04.12 | 1:23 | 04.04.12 | 22:18 | Lower gas supplied from KG Basin |
| | | 05.04.12 | 14:12 | 06.04.12 | 22:00 | |
| | | 07.04.12 | 12:56 | 10.04.12 | 3:28 | |
| | | 10.04.12 | 11:15 | 11.04.12 | 0:05 | |
| | | 11.04.12 | 00:13 | 11.04.12 | 0:35 | |
| | | 11.04.12 | 13:03 | 16.04.12 | 15:54 | |
| | | 16.04.12 | 19:46 | 16.04.12 | 20:55 | |
| | | 17.04.12 | 15:51 | 28.04.12 | 19:27 | |
| | | 01.05.12 | 15:22 | 07.05.12 | 19:46 | |
| | | 13.05.12 | 5:52 | 13.05.12 | 6:28 | |
| | | 29.05.12 | 21:00 | 29.05.12 | 21:08 | |
| | | 01.06.12 | 17:15 | 01.06.12 | 17:17 | |
| | | 04.06.12 | 18:59 | 04.06.12 | 20:05 | |
| | | 08.06.12 | 5:20 | 08.06.12 | 6:15 | |
| | | 11.06.12 | 11:36 | 12.06.12 | 11:09 | |
| | | 12.06.12 | 16:15 | 14.06.12 | 12:17 | |
| | | 14.06.12 | 17:10 | 23.06.12 | 19:00 | |
| | | 27.06.12 | 12:02 | 27.06.12 | 13:04 | |
| | | 29.06.12 | 6:36 | 29.06.12 | 7:52 | |
| | | 01.07.12 | 22:41 | 04.07.12 | 16:53 | |
| | | 06.07.12 | 17:48 | 15.07.12 | 11:03 | |
| | | 15.07.12 | 13:02 | 18.07.12 | 10:05 | |
| | | 20.07.12 | 6:06 | 20.07.12 | 18:30 | |
| | | 21.07.12 | 16:04 | 23.07.12 | 9:02 | |
| | | 25.07.12 | 19:06 | 26.07.12 | 10:17 | |
| | | 27.07.12 | 10:17 | 27.07.12 | 11:29 | |
| | | 28.07.12 | 3:07 | 30.07.12 | 9:31 | |
| | | 31.07.12 | 13:23 | 31.07.12 | 15:53 | |
| | | 31.07.12 | 21:23 | 01.08.12 | 11:20 | |
| | | 02.08.12 | 2:39 | 03.08.12 | 8:55 | |
| | | 06.08.12 | 15:18 | 07.08.12 | 9:10 | |
| | | 07.08.12 | 20:39 | 08.08.12 | 8:59 | |
| | | 08.08.12 | 17:57 | 09.08.12 | 7:39 | |
| | | 11.08.12 | 6:09 | 13.08.12 | 9:35 | |
| | | 15.08.12 | 0:34 | 15.08.12 | 21:21 | |
| | | 18.08.12 | 8:46 | 18.08.12 | 11:30 | |
| | | 19.08.12 | 0:11 | 20.08.12 | 9:04 | |
| | | 21.08.12 | 8:04 | 10.09.12 | 9:08 | |
| | | 10.09.12 | 14:32 | 10.09.12 | 17:17 | |
| | | 10.09.12 | 23:13 | 17.09.12 | 9:08 | |
| | | 19.09.12 | 7:38 | 19.09.12 | 10:25 | |
| | | 20.09.12 | 13:52 | 20.09.12 | 15:40 | |
| | | 20.09.12 | 22:04 | 03.10.12 | 18:21 | |
| | | 07.10.12 | 0:32 | 09.10.12 | 9:00 | |
| | | 13.10.12 | 0:35 | 18.10.12 | 10:15 | |
| | | 20.10.12 | 0:10 | 26.10.12 | 8:42 | |
| | | 26.10.12 | 23:20 | 29.10.12 | 1:43 | No schedule have been given by SLDC on Spot gas |
| | | 30.10.12 | 17:01 | 13.11.12 | 13:51 | |
| | | 14.11.12 | 01:21 | 22.11.12 | 8:54 | |
| | | 24.11.12 | 21:01 | 26.11.12 | 13:14 | |
| | | 28.11.12 | 00:05 | 04.12.12 | 9:58 | |
| | | 06.12.12 | 20:59 | 17.12.12 | 10:09 | |
| | | 19.12.12 | 20:04 | 24.12.12 | 9:30 | |
| | | 26.12.12 | 19:03 | 03.01.13 | 06.44 | |

| Unit | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 2 | 31.8 | 04.01.13 | 15:12 | 07.01.13 | 6:01 | No schedule have been given by SLDC on Spot gas |
| | | 07.01.13 | 17:07 | 08.01.13 | 8:58 | |
| | | 08.01.13 | 17:08 | 09.01.13 | 8:00 | |
| | | 09.01.13 | 17:06 | 10.01.13 | 6:16 | |
| | | 10.01.13 | 17:04 | 11.01.13 | 5:54 | |
| | | 11.01.13 | 20:02 | 16.01.13 | 9:12 | |
| | | 17.01.13 | 08:18 | 21.01.13 | 2:46 | |
| | | 22-01-13 | 00:12 | 24.01.13 | 6:53 | |
| | | 25-01-13 | 00:09 | 29.01.13 | 5:54 | |
| | | 30-01-13 | 15:03 | 31.01.13 | 7:58 | |

| Unit | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| STG | 31.8 | 03.04.12 | 1:23 | 04.04.12 | 22:18 | Lower gas supplied from KG Basin |
| | | 05.04.12 | 14:12 | 06.04.12 | 22:00 | |
| | | 07.04.12 | 12:56 | 10.04.12 | 3:28 | |
| | | 10.04.12 | 11:15 | 11.04.12 | 0:05 | |
| | | 11.04.12 | 00:13 | 11.04.12 | 0:35 | |
| | | 11.04.12 | 13:03 | 16.04.12 | 15:54 | |
| | | 16.04.12 | 19:46 | 16.04.12 | 20:55 | |
| | | 17.04.12 | 15:51 | 28.04.12 | 19:27 | |
| | | 01.05.12 | 15:22 | 07.05.12 | 19:46 | |
| | | 13.05.12 | 5:52 | 13.05.12 | 6:28 | |
| | | 29.05.12 | 21:00 | 29.05.12 | 21:08 | |
| | | 01.06.12 | 17:15 | 01.06.12 | 17:17 | |
| | | 04.06.12 | 18:59 | 04.06.12 | 20:05 | |
| | | 08.06.12 | 5:20 | 08.06.12 | 6:15 | |
| | | 11.06.12 | 11:36 | 12.06.12 | 11:09 | |
| | | 12.06.12 | 16:15 | 14.06.12 | 12:17 | |
| | | 14.06.12 | 17:10 | 23.06.12 | 19:00 | |
| | | 27.06.12 | 12:02 | 27.06.12 | 13:04 | |
| | | 29.06.12 | 6:36 | 29.06.12 | 7:52 | |
| | | 01.07.12 | 22:41 | 04.07.12 | 16:53 | |
| | | 06.07.12 | 17:48 | 15.07.12 | 11:03 | |
| | | 15.07.12 | 13:02 | 18.07.12 | 10:05 | |
| | | 20.07.12 | 6:06 | 20.07.12 | 18:30 | |
| | | 21.07.12 | 16:04 | 23.07.12 | 9:02 | |
| | | 25.07.12 | 19:06 | 26.07.12 | 10:17 | |
| | | 27.07.12 | 10:17 | 27.07.12 | 11:29 | |
| | | 28.07.12 | 3:07 | 30.07.12 | 9:31 | |
| | | 31.07.12 | 13:23 | 31.07.12 | 15:53 | |
| | | 31.07.12 | 21:23 | 01.08.12 | 11:20 | |
| | | 02.08.12 | 2:39 | 03.08.12 | 8:55 | |
| | | 06.08.12 | 15:18 | 07.08.12 | 9:10 | |
| | | 07.08.12 | 20:39 | 08.08.12 | 8:59 | |
| | | 08.08.12 | 17:57 | 09.08.12 | 7:39 | |
| | | 11.08.12 | 6:09 | 13.08.12 | 9:35 | |
| | | 15.08.12 | 0:34 | 15.08.12 | 21:21 | |
| | | 18.08.12 | 8:46 | 18.08.12 | 11:30 | |
| | | 19.08.12 | 0:11 | 20.08.12 | 9:04 | |
| | | 21.08.12 | 8:04 | 10.09.12 | 9:08 | |
| | | 10.09.12 | 14:32 | 10.09.12 | 17:17 | |
| | | 10.09.12 | 23:13 | 17.09.12 | 9:08 | |
| | | 19.09.12 | 7:38 | 19.09.12 | 10:25 | |
| | | 20.09.12 | 13:52 | 20.09.12 | 15:40 | |
| | | 20.09.12 | 22:04 | 03.10.12 | 18:21 | |
| | | 07.10.12 | 0:32 | 09.10.12 | 9:00 | |
| | | 13.10.12 | 0:35 | 18.10.12 | 10:15 | |
| | | 20.10.12 | 0:10 | 26.10.12 | 8:42 | |

| Unit | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| STG | 31.8 | 26.10.12 | 23:20 | 29.10.12 | 1:43 | No schedule have been given by SLDC on Spot gas |
| | | 30.10.12 | 17:01 | 29.10.12 | 5:42 | |
| | | 02.11.12 | 00:01 | 05.11.12 | 12:38 | |
| | | 08.11.12 | 21:56 | 10.11.12 | 9:45 | |
| | | 10.11.12 | 01:55 | 13.11.12 | 17:50 | |
| | | 14.11.12 | 01:15 | 18.11.12 | 6:25 | |
| | | 18.11.12 | 16:06 | 22.11.12 | 13:59 | |
| | | 24.11.12 | 21:01 | 26.11.12 | 16:57 | |
| | | 28.11.12 | 00:01 | 29.11.12 | 17:44 | |
| | | 30.11.12 | 04:31 | 30.11.12 | 6:35 | STG electronic governor failure trip |
| | | 30.11.12 | 19:58 | 04.12.12 | 14:04 | No schedule have been given by SLDC on Spot gas |
| | | 06.12.12 | 20:59 | 10.12.12 | 13:55 | |
| | | 10.12.12 | 16:21 | 10.12.12 | 19:29 | load gear bearing -1 temp high shut down(GT-1) |
| | | 12.12.12 | 17:59 | 17.12.12 | 14:05 | No schedule have been given by SLDC on Spot gas |
| | | 19.12.12 | 20:00 | 24.12.12 | 13:26 | |
| | | 26-12-12 | 19:00 | 31.12.12 | 11:54 | |
| | | 01.01.13 | 17:04 | 03.01.13 | 10:05 | lube oil temperature high shutdown |
| | | 04-01-13 | 15:08 | 07.01.13 | 9:28 | No schedule have been given by SLDC on Spot gas |
| | | 07-01-13 | 17:04 | 08.01.13 | 11:45 | |
| | | 08.01.13 | 17:05 | 09.01.13 | 10:45 | |
| | | 09.01.13 | 17:03 | 10.01.13 | 8:53 | |
| | | 10.01.13 | 17:01 | 11.01.13 | 8:51 | |
| | | 11.01.13 | 19:58 | 16.01.13 | 13:35 | |
| | | 17.01.13 | 08:15 | 21.01.13 | 6:49 | |
| | | 22.01.13 | 00:08 | 24.01.13 | 10:23 | |
| | | 25.01.13 | 00:07 | 29.01.13 | 10:00 | |
| | | 30.01.13 | 15:01 | 31.01.13 | 10:41 | |

# 4 ALLOCATION OF POWER TO DELHI

## A) Allocation of power to Delhi from Unallocated quota of Central Sector Generating Stations to Delhi w.e.f. 04.11.2011

**Time block 00.00hrs. to 24.00hrs. @ 0% allocation from Unallocated Quota**

| Name of the Stn | Installed capacity | Total Un-allocated | Basic Allocation | Basic Allocation at periphery | Allocation out of Unallocated Quota | Allocation out of Un-allocation Quota at Delhi periphery | Total allocation at Delhi periphery |
|---|---|---|---|---|---|---|---|
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **(8)=(5)+(7)** |
| **NTPC STATIONS** | | | | | | | |
| Singrauli STPS | 2000 | 300 | 150 | 130 | 0 | 0 | 130 |
| Rihand | 1000 | 150 | 100 | 87 | 0 | 0 | 87 |
| Rihand Stage -II | 1000 | 150 | 126 | 109 | 0 | 0 | 109 |
| ANTA GPS | 419 | 63 | 44 | 41 | 0 | 0 | 41 |
| Auriya GPS | 663.36 | 99 | 72 | 67 | 0 | 0 | 67 |
| Dadri GPS | 829.78 | 129 | 91 | 85 | 0 | 0 | 85 |
| Dadri NCTPS (Th) | 840 | 0 | 756 | 657 | 0 | 0 | 657 |
| Dadri NCTPS (Th) Stage-II | 980 | 147 | 735 | 639 | 0 | 0 | 639 |
| Unchahaar-I TPS | 420 | 20 | 24 | 21 | 0 | 0 | 21 |
| Unchahaar-II TPS | 420 | 63 | 47 | 41 | 0 | 0 | 41 |
| Unchahaar-III TPS | 210 | 31 | 29 | 25 | 0 | 0 | 25 |
| **TOTAL** | **8782** | **1152** | **2174** | **1902** | **0** | **0** | **1902** |
| **NHPC** | | | | | | | |
| Baira Suil HPS | 180 | 0 | 20 | 19 | 0 | 0 | 19 |
| Salal HPS | 690 | 0 | 80 | 76 | 0 | 0 | 76 |
| Tanakpur HEP | 94 | 0 | 12 | 11 | 0 | 0 | 11 |
| Chamera HEP | 540 | 0 | 43 | 41 | 0 | 0 | 41 |
| Chamera-II HEP | 300 | 54 | 40 | 38 | 0 | 0 | 38 |
| URI HEP | 480 | 0 | 53 | 50 | 0 | 0 | 50 |
| Sewa HEP | 120 | 18 | 16 | 15 | 0 | 0 | 15 |
| Dhauli Ganga HEP | 280 | 42 | 37 | 35 | 0 | 0 | 35 |
| Dulhasti HEP | 390 | 58 | 50 | 48 | 0 | 0 | 48 |
| **TOTAL** | **3074** | **172** | **351** | **333** | **0** | **0** | **333** |
| **NPC** | | | | | | | |
| Narora APS | 440 | 64 | 47 | 41 | 0 | 0 | 41 |
| RAPP(B) | 440 | 66 | 0 | 0 | 0 | 0 | 0 |
| RAPP (C ) | 440 | 64 | 56 | 49 | 0 | 0 | 49 |
| **TOTAL** | **1320** | **194** | **103** | **89** | **0** | **0** | **89** |
| **SVJNL** | | | | | | | |
| Nathpa Jhakri HEP | 1500 | 149 | 142 | 123 | 0 | 0 | 123 |
| **THDC** | | | | | | | |
| Tehri Hydro | 1000 | 99 | 103 | 89 | 0 | 0 | 89 |
| Koteshwar HEP | 200 | 0 | 20 | 19 | 0 | 0 | 19 |
| **TOTAL** | **1200** | **99** | **123** | **108** | **0** | **0** | **108** |
| **Total** | **15876** | **1766** | **2892** | **2556** | **0** | **0** | **2556** |
| **Allocation from ER and Tala HEP** | | | | | | | |
| Farakka | 1600 | 0 | 22 | 19 | 0 | 0 | 19 |
| Kahalgaon | 840 | 0 | 51 | 43 | 0 | 0 | 43 |
| Talchar | 1000 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tala HEP | 1020 | 153 | 30 | 25 | 0 | 0 | 25 |
| Mejia TPS Unit-6 | 250 | 0 | 29 | 25 | 0 | 0 | 25 |
| Kahalgaon-II | 1500 | 0 | 157 | 131 | 0 | 0 | 131 |
| **Total ER** | **6210** | **153** | **290** | **242** | **0** | **0** | **242** |
| **Joint Venture** | | | | | | | |
| Jhajjar TPS | 500 | 38 | 0 | 0 | 0 | 0 | 0 |
| **Grand Total** | **22586** | **1957** | **3182** | **2798** | **0** | **0** | **2798** |

## B) Allocation of power to Delhi from Unallocated quota of Central Sector Generating Stations to Delhi w.e.f. 19.11.2011

**Time block 00.00hrs. to 24.00hrs. @ 0% allocation from Unallocated Quota**

| Name of the Stn | Installed capacity | Total Un-allocated | Basic Allocation | Basic Allocation at periphery | Allocation out of Unallocated Quota | Allocation out of Un-allocation Quota at Delhi periphery | Total allocation at Delhi periphery |
|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | (8)=(5)+(7) |
| **NTPC STATIONS** | | | | | | | |
| Singrauli STPS | 2000 | 300 | 150 | 130 | 0 | 0 | 130 |
| Rihand-I | 1000 | 150 | 100 | 87 | 0 | 0 | 87 |
| Rihand Stage -II | 1000 | 150 | 126 | 109 | 0 | 0 | 109 |
| Rihand Stage -III | 500 | 75 | 66 | 57 | 0 | 0 | 57 |
| ANTA GPS | 419 | 63 | 44 | 41 | 0 | 0 | 41 |
| Auriya GPS | 663.36 | 99 | 72 | 67 | 0 | 0 | 67 |
| Dadri GPS | 829.78 | 129 | 91 | 85 | 0 | 0 | 85 |
| Dadri NCTPS (Th) | 840 | 0 | 756 | 657 | 0 | 0 | 657 |
| Dadri NCTPS (Th) Stage-II | 980 | 147 | 735 | 639 | 0 | 0 | 639 |
| Unchahaar-I TPS | 420 | 20 | 24 | 21 | 0 | 0 | 21 |
| Unchahaar-II TPS | 420 | 63 | 47 | 41 | 0 | 0 | 41 |
| Unchahaar-III TPS | 210 | 31 | 29 | 25 | 0 | 0 | 25 |
| **TOTAL** | **9282** | **1227** | **2240** | **1959** | **0** | **0** | **1959** |
| **NHPC** | | | | | | | |
| Baira Suil HPS | 180 | 0 | 20 | 19 | 0 | 0 | 19 |
| Salal HPS | 690 | 0 | 80 | 76 | 0 | 0 | 76 |
| Tanakpur HEP | 94 | 0 | 12 | 11 | 0 | 0 | 11 |
| Chamera HEP | 540 | 0 | 43 | 41 | 0 | 0 | 41 |
| Chamera-II HEP | 300 | 54 | 40 | 38 | 0 | 0 | 38 |
| Chamera-III HEP | 231 | 35 | 29 | 28 | 0 | 0 | 28 |
| URI HEP | 480 | 0 | 53 | 50 | 0 | 0 | 50 |
| Sewa HEP | 120 | 18 | 16 | 15 | 0 | 0 | 15 |
| Dhauli Ganga HEP | 280 | 42 | 37 | 35 | 0 | 0 | 35 |
| Dulhasti HEP | 390 | 58 | 50 | 48 | 0 | 0 | 48 |
| **TOTAL** | **3305** | **206** | **380** | **361** | **0** | **0** | **361** |
| **NPC** | | | | | | | |
| Narora APS | 440 | 64 | 47 | 41 | 0 | 0 | 41 |
| RAPP(B) | 440 | 66 | 0 | 0 | 0 | 0 | 0 |
| RAPP (C ) | 440 | 64 | 56 | 49 | 0 | 0 | 49 |
| **TOTAL** | **1320** | **194** | **103** | **89** | **0** | **0** | **89** |
| **SVJNL** | | | | | | | |
| Nathpa Jhakri HEP | 1500 | 149 | 142 | 123 | 0 | 0 | 123 |
| **THDC** | | | | | | | |
| Tehri Hydro | 1000 | 99 | 103 | 89 | 0 | 0 | 89 |
| Koteshwar HEP | 400 | 40 | 39 | 37 | 0 | 0 | 37 |
| **TOTAL** | **1400** | **139** | **142** | **127** | **0** | **0** | **127** |
| **Total** | **16807** | **1915** | **3007** | **2660** | **0** | **0** | **2660** |
| **Allocation from ER and Tala HEP** | | | | | | | |
| Farakka | 1600 | 0 | 22 | 19 | 0 | 0 | 19 |
| Kahalgaon | 840 | 0 | 51 | 43 | 0 | 0 | 43 |
| Talchar | 1000 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tala HEP | 1020 | 153 | 30 | 25 | 0 | 0 | 25 |
| Mejia TPS Unit-6 | 250 | 0 | 29 | 25 | 0 | 0 | 25 |
| Kahalgaon-II | 1500 | 0 | 157 | 131 | 0 | 0 | 131 |
| **Total ER** | **6210** | **153** | **290** | **242** | **0** | **0** | **242** |
| **Joint Venture** | | | | | | | |
| Jhajjar TPS | 1000 | 76 | 231 | 201 | 0 | 0 | 201 |
| **Grand Total** | **24017** | **2144** | **3528** | **3102** | **0** | **0** | **3102** |

## 5 ALLOCATION OF POWER TO DISCOMS

ALLOCATION OF POWER TO VARIOUS LISCENCEES AS PER ORDER OF DERC AND DECISION OF GNCTD FOR ALLOCATION OF CENTRAL SECTOR STATIONS (DADRI THERMAL & BTPS) AND STATE SECTOR GENERATING STATIONS w.e.f. 01.04.2011.

**(Allocation In % )**

**(A) 10.00hrs. to 17.00hrs.**

| SOURCES | LICENSEES | | | | | |
|---|---|---|---|---|---|---|
| | NDMC | MES | NDPL | BRPL | BYPL | TOTAL |
| 1. Central Sector without Dadri (Th) | 0.00 | 0.00 | 29.18 | 43.58 | 27.24 | 100.00 |
| 2. Dadri (Th) | 14.98 | 0.00 | 24.18 | 36.87 | 23.97 | 100.00 |
| 3. BTPS | 15.94 | 7.09 | 21.88 | 33.37 | 21.72 | 100.00 |
| 4. RPH | 0.85 | 0.00 | 28.39 | 42.97 | 27.79 | 100.00 |
| 5. GT | 0.93 | 0.00 | 28.28 | 42.99 | 27.80 | 100.00 |
| 6. Pragati | 26.69 | 0.00 | 20.77 | 31.76 | 20.7 | 100.00 |
| 7. DVC | 0.00 | 0.00 | 29.18 | 43.58 | 27.24 | 100.00 |

**(B) 00.00hrs. to 10.00hrs. and 17.00hrs. to 24.00hrs.**

| SOURCES | LICENSEES | | | | | |
|---|---|---|---|---|---|---|
| | NDMC | MES | NDPL | BRPL | BYPL | TOTAL |
| 1. Central Sector without Dadri (Th) | 0.00 | 0.00 | 29.18 | 43.58 | 27.24 | 100.00 |
| 2. Dadri (Th) | 14.05 | 0.00 | 24.18 | 3687 | 24.90 | 100.00 |
| 3. BTPS | 15.07 | 7.09 | 21.88 | 33.37 | 22.59 | 100.00 |
| 4. RPH | 0.00 | 0.00 | 28.390 | 42.97 | 28.64 | 100.00 |
| 5. GT | 0.00 | 0.00 | 28.28 | 42.99 | 28.73 | 100.00 |
| 6. Pragati | 25.76 | 0.00 | 20.77 | 31.76 | 21.71 | 100.00 |
| 7. DVC | 0.00 | 0.00 | 29.18 | 43.58 | 27.24 | 100.00 |

# 6 POWER AVAILABILITY-DEMAND POSITION AT THE TIME OF PEAK DEMAND MET DURING JANUARY 2013

**All figures in MW**

| Date | Time of peak demand | Generation within Delhi | | | | | | | Import from the Grid | Schedule from the Grid | OD(-) / UD(+) | Demand met | Shedding | Un-Restricted Demand |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RPH | GT | PPCL | Rithala | Bawana | BTPS | Total | | | | | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9)= (3) to (8) | (10) | (11) | (12)= (11) - (10) | (13)= (11)+ (12) | (14) | (15)= (13)+ (14) |
| 1 | 11.07.18 | 103 | 157 | 323 | 38 | 216 | 408 | 1245 | 2460 | 2282 | 178 | 3705 | 184 | 3889 |
| 2 | 10.01.16 | 104 | 113 | 326 | 0 | 219 | 625 | 1387 | 2312 | 2120 | 192 | 3699 | 64 | 3763 |
| 3 | 11.20.33 | 102 | 111 | 324 | 36 | 216 | 623 | 1412 | 2583 | 2452 | 131 | 3995 | 131 | 4126 |
| 4 | 11.44.10 | 105 | 155 | 321 | 39 | 212 | 596 | 1428 | 2299 | 2251 | 48 | 3727 | 260 | 3987 |
| 5 | 09.05.31 | 105 | 114 | 329 | 0 | 216 | 613 | 1377 | 2327 | 2243 | 84 | 3704 | 157 | 3861 |
| 6 | 10.43.14 | 106 | 155 | 326 | 0 | 210 | 609 | 1406 | 2458 | 2461 | -3 | 3864 | 57 | 3921 |
| 7 | 11.47.08 | 106 | 113 | 326 | 20 | 215 | 426 | 1206 | 2594 | 2473 | 121 | 3800 | 319 | 4119 |
| 8 | 10.32.29 | 102 | 157 | 327 | 15 | 214 | 611 | 1426 | 2696 | 2663 | 33 | 4122 | 144 | 4266 |
| 9 | 10.13.56 | 54 | 116 | 316 | 20 | 170 | 603 | 1279 | 2935 | 2813 | 122 | 4214 | 0 | 4214 |
| 10 | 10.17.24 | 52 | 163 | 314 | 20 | 193 | 623 | 1365 | 2630 | 2768 | -138 | 3995 | 0 | 3995 |
| 11 | 10.48.35 | 98 | 122 | 316 | 20 | 203 | 588 | 1347 | 2618 | 2504 | 114 | 3965 | 25 | 3990 |
| 12 | 10.17.15 | 103 | 163 | 312 | 0 | 209 | 560 | 1347 | 2291 | 2514 | -223 | 3638 | 0 | 3638 |
| 13 | 10.22.36 | 103 | 123 | 312 | 0 | 192 | 605 | 1335 | 2059 | 2356 | -297 | 3394 | 0 | 3394 |
| 14 | 09.44.57 | 54 | 150 | 318 | 0 | 211 | 622 | 1355 | 2312 | 2384 | -72 | 3667 | 0 | 3667 |
| 15 | 10.01.45 | 106 | 150 | 204 | 0 | 211 | 618 | 1289 | 1985 | 2379 | -394 | 3274 | 6 | 3280 |
| 16 | 10.05.09 | 107 | 164 | 310 | 0 | 225 | 601 | 1407 | 2083 | 2315 | -232 | 3490 | 0 | 3490 |
| 17 | 18.48.12 | 100 | 160 | 306 | 0 | 207 | 361 | 1134 | 2154 | 2080 | 74 | 3288 | 0 | 3288 |
| 18 | 10.35.25 | 104 | 73 | 312 | 0 | 205 | 447 | 1141 | 2243 | 2241 | 2 | 3384 | 0 | 3384 |
| 19 | 10.01.11 | 107 | 74 | 316 | 0 | 208 | 401 | 1106 | 2282 | 2367 | -85 | 3388 | 0 | 3388 |
| 20 | 10.55.55 | 80 | 106 | 319 | 0 | 214 | 453 | 1172 | 2217 | 2013 | 204 | 3389 | 175 | 3564 |
| 21 | 09.56.45 | 106 | 158 | 316 | 39 | 223 | 610 | 1452 | 2118 | 2523 | -405 | 3570 | 3 | 3573 |
| 22 | 8.38.12 | 109 | 114 | 322 | 0 | 223 | 627 | 1395 | 2283 | 2318 | -35 | 3678 | 0 | 3678 |
| 23 | 09.50.44 | 109 | 115 | 323 | 0 | 220 | 524 | 1291 | 2367 | 2410 | -43 | 3658 | 0 | 3658 |
| 24 | 9.52.41 | 110 | 113 | 318 | 0 | 218 | 523 | 1282 | 2290 | 2335 | -45 | 3572 | 0 | 3572 |
| 25 | 10.41.10 | 106 | 158 | 315 | 0 | 222 | 528 | 1329 | 2189 | 2052 | 137 | 3518 | 180 | 3698 |
| 26 | 9.32.07 | 112 | 121 | 322 | 0 | 222 | 504 | 1281 | 1830 | 2033 | -203 | 3111 | 0 | 3111 |
| 27 | 10.37.50 | 104 | 121 | 313 | 0 | 219 | 517 | 1274 | 2099 | 2277 | -178 | 3373 | 0 | 3373 |
| 28 | 10.46.40 | 104 | 119 | 313 | 0 | 217 | 565 | 1318 | 2218 | 2328 | -110 | 3536 | 0 | 3536 |
| 29 | 09.50.31 | 104 | 121 | 317 | 15 | 218 | 650 | 1425 | 2046 | 2211 | -165 | 3471 | 0 | 3471 |
| 30 | 09.33.36 | 106 | 120 | 315 | 21 | 221 | 601 | 1384 | 2113 | 2292 | -179 | 3497 | 0 | 3497 |
| 31 | 09.41.02 | 106 | 120 | 315 | 21 | 221 | 631 | 1414 | 2068 | 2305 | -237 | 3482 | 631 | 4113 |

## 7 POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF MAXIMUM UNRESTRICTED DEMAND DURING JANUARY 2013

| Date | Time of peak demand | Generation within Delhi | | | | | | | Import from the Grid | Schedule from the Grid | OD(-) / UD(+) | Demand met | Shedding | Un-Restricted Demand |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RPH | GT | PPCL | Rithala | Bawana | BTPS | Total | | | | | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9)= (3) to (8) | (10) | (11) | (12)= (11) - (10) | (13)= (11)+ (12) | (14) | (15)= (13)+ (14) |
| 1 | 10.30.00 | 106 | 155 | 325 | 38 | 217 | 415 | 1256 | 2344 | 2316 | 28 | 3600 | 326 | 3926 |
| 2 | 10.01.16 | 104 | 113 | 326 | 0 | 219 | 625 | 1387 | 2312 | 2120 | 192 | 3699 | 64 | 3763 |
| 3 | 11.20.33 | 102 | 111 | 324 | 36 | 216 | 623 | 1412 | 2583 | 2452 | 131 | 3995 | 131 | 4126 |
| 4 | 10.30.00 | 102 | 154 | 328 | 39 | 221 | 583 | 1427 | 2167 | 2269 | -102 | 3594 | 511 | 4105 |
| 5 | 10.30.00 | 104 | 113 | 322 | 0 | 213 | 590 | 1342 | 2263 | 2298 | -35 | 3605 | 297 | 3902 |
| 6 | 10.43.14 | 106 | 155 | 326 | 0 | 210 | 609 | 1406 | 2458 | 2461 | -3 | 3864 | 57 | 3921 |
| 7 | 11.00.00 | 103 | 114 | 330 | 20 | 221 | 427 | 1215 | 2445 | 2536 | -91 | 3660 | 541 | 4201 |
| 8 | 10.32.29 | 102 | 157 | 327 | 15 | 214 | 611 | 1426 | 2696 | 2663 | 33 | 4122 | 144 | 4266 |
| 9 | 10.13.56 | 54 | 116 | 316 | 20 | 170 | 603 | 1279 | 2935 | 2813 | 122 | 4214 | 0 | 4214 |
| 10 | 10.17.24 | 52 | 163 | 314 | 20 | 193 | 623 | 1365 | 2630 | 2768 | -138 | 3995 | 0 | 3995 |
| 11 | 10.48.35 | 98 | 122 | 316 | 20 | 203 | 588 | 1347 | 2618 | 2504 | 114 | 3965 | 25 | 3990 |
| 12 | 10.17.15 | 103 | 163 | 312 | 0 | 209 | 560 | 1347 | 2291 | 2514 | -223 | 3638 | 0 | 3638 |
| 13 | 10.22.36 | 103 | 123 | 312 | 0 | 192 | 605 | 1335 | 2059 | 2356 | -297 | 3394 | 0 | 3394 |
| 14 | 09.44.57 | 54 | 150 | 318 | 0 | 211 | 622 | 1355 | 2312 | 2384 | -72 | 3667 | 0 | 3667 |
| 15 | 10.01.45 | 106 | 150 | 204 | 0 | 211 | 618 | 1289 | 1985 | 2379 | -394 | 3274 | 6 | 3280 |
| 16 | 10.05.09 | 107 | 164 | 310 | 0 | 225 | 601 | 1407 | 2083 | 2315 | -232 | 3490 | 0 | 3490 |
| 17 | 18.48.12 | 100 | 160 | 306 | 0 | 207 | 361 | 1134 | 2154 | 2080 | 74 | 3288 | 0 | 3288 |
| 18 | 10.35.25 | 104 | 73 | 312 | 0 | 205 | 447 | 1141 | 2243 | 2241 | 2 | 3384 | 0 | 3384 |
| 19 | 10.01.11 | 107 | 74 | 316 | 0 | 208 | 401 | 1106 | 2282 | 2367 | -85 | 3388 | 0 | 3388 |
| 20 | 10.55.55 | 80 | 106 | 319 | 0 | 214 | 453 | 1172 | 2217 | 2013 | 204 | 3389 | 175 | 3564 |
| 21 | 09.56.45 | 106 | 158 | 316 | 39 | 223 | 610 | 1452 | 2118 | 2523 | -405 | 3570 | 3 | 3573 |
| 22 | 8.38.12 | 109 | 114 | 322 | 0 | 223 | 627 | 1395 | 2283 | 2318 | -35 | 3678 | 0 | 3678 |
| 23 | 09.50.44 | 109 | 115 | 323 | 0 | 220 | 524 | 1291 | 2367 | 2410 | -43 | 3658 | 0 | 3658 |
| 24 | 9.52.41 | 110 | 113 | 318 | 0 | 218 | 523 | 1282 | 2290 | 2335 | -45 | 3572 | 0 | 3572 |
| 25 | 10.41.10 | 106 | 158 | 315 | 0 | 222 | 528 | 1329 | 2189 | 2052 | 137 | 3518 | 180 | 3698 |
| 26 | 9.32.07 | 112 | 121 | 322 | 0 | 222 | 504 | 1281 | 1830 | 2033 | -203 | 3111 | 0 | 3111 |
| 27 | 10.37.50 | 104 | 121 | 313 | 0 | 219 | 517 | 1274 | 2099 | 2277 | -178 | 3373 | 0 | 3373 |
| 28 | 10.46.40 | 104 | 119 | 313 | 0 | 217 | 565 | 1318 | 2218 | 2328 | -110 | 3536 | 0 | 3536 |
| 29 | 09.50.31 | 104 | 121 | 317 | 15 | 218 | 650 | 1425 | 2046 | 2211 | -165 | 3471 | 0 | 3471 |
| 30 | 09.33.36 | 106 | 120 | 315 | 21 | 221 | 601 | 1384 | 2113 | 2292 | -179 | 3497 | 0 | 3497 |
| 31 | 09.41.02 | 106 | 120 | 315 | 21 | 221 | 631 | 1414 | 2068 | 2305 | -237 | 3482 | 631 | 4113 |

## 8 SOURCEWISE SCHEDULED DRAWL FROM NORTHERN GRID AS WELL AS AVAILABILITY WITHIN DELHI FOR JANUARY 2013

### A) AVAILABILITY FROM GENCO AND PRAGATI STNs. (all fig in MUs)

| | |
|---|---|
| A (i) RPH | 80.120 |
| (ii) GT+STG | 101.862 |
| (iii) PRAGATI | 232.709 |
| (iv) RITHALA | 4.954 |
| (v) BAWANA CCGT | 154.850 |
| TOTAL | 574.495 |
| B) AVAILABILITY FROM BTPS | 394.495 |
| C) AUXILIARY CONSUMPTION OF GENERATING STNs. EXCLUDING BTPS | 23.055 |
| D) NET GENERATION AVAILABLE WITHIN DELHI(A+B-C) | **954.796** |

### B) SOURCE WISE SCHEDULED DRAWL FROM THE NORTHERN GRID

| NAME OF THE STATION | AVAILABILITY AT POWER PLANT | AVAILABILITY AT DELHI PERIPHERY | ALLOCATION MADE BY NRLDC AT POWER PLANT | ALLOCATION MADE BY NRLDC AT DELHI PERIPHERY |
|---|---|---|---|---|
| B/SUIL | 1.595 | 1.512 | 0.709 | 0.673 |
| SALAL | 10.713 | 10.158 | 4.846 | 4.596 |
| TANKAPUR | 1.526 | 1.446 | 0.702 | 0.665 |
| CHAMERA | 5.021 | 4.762 | 2.229 | 2.115 |
| CHAMERA -II | 4.686 | 4.445 | 2.065 | 1.960 |
| CHAMERA -III | 2.425 | 2.301 | 2.123 | 2.014 |
| DHAULIGANGA | 3.921 | 3.718 | 1.736 | 1.647 |
| SEWA -2 | 1.398 | 1.326 | 0.624 | 0.592 |
| URI | 12.014 | 11.401 | 5.562 | 5.280 |
| KOTESHWAR | 10.612 | 10.065 | 10.612 | 10.065 |
| MUNDRA_UMPP | 0.000 | 0.000 | 0.000 | 0.000 |
| ANTA (GAS) | 10.407 | 9.856 | 8.437 | 7.992 |
| ANTA (RLNG) | 16.111 | 15.283 | 0.211 | 0.200 |
| ANTA (LIQUID) | 7.035 | 6.681 | 0.000 | 0.000 |
| DADRI (GAS) | 23.219 | 22.023 | 19.243 | 18.248 |
| DADRI (RLNG) | 38.359 | 36.409 | 0.567 | 0.538 |
| DADRI (LIQUID) | 6.924 | 6.536 | 0.018 | 0.017 |
| AURAIYA (GAS) | 16.593 | 15.747 | 13.773 | 13.067 |
| AURAIYA (RLNG) | 29.410 | 27.916 | 0.398 | 0.378 |
| AURAIYA (LIQUID) | 7.824 | 7.392 | 0.001 | 0.001 |
| SINGRAULI | 106.440 | 100.947 | 105.834 | 100.370 |
| RIHAND -I | 67.048 | 63.598 | 66.182 | 62.775 |
| RIHAND -II | 91.003 | 86.305 | 88.602 | 84.026 |
| RIHAND -III | 21.971 | 20.880 | 20.483 | 19.466 |
| UNCHAHAR-I | 17.223 | 16.334 | 15.506 | 14.703 |
| UNCHAHAR-II | 33.691 | 31.952 | 30.506 | 28.928 |
| UNCHAHAR-III | 20.753 | 19.682 | 18.866 | 17.890 |
| DADRI (TH) | 508.225 | 481.964 | 442.865 | 419.984 |
| DADRI (TH) STAGE-II | 487.725 | 462.416 | 452.451 | 428.980 |
| NAPP | 15.326 | 14.538 | 15.326 | 14.538 |
| RAPP 'B' | 0.000 | 0.000 | 0.000 | 0.000 |
| RAPP 'C' | 32.342 | 30.680 | 32.342 | 30.680 |
| NATHPA JHAKRI | 17.743 | 16.825 | 17.743 | 16.825 |
| DULASTI | 4.784 | 4.530 | 1.396 | 1.322 |
| TEHRI | 30.836 | 29.242 | 30.836 | 29.242 |
| JHAJJAR | 114.605 | 108.577 | 15.517 | 14.733 |
| KHELGAON | 26.355 | 25.000 | 25.608 | 24.289 |
| KHELGAON-II | 84.891 | 80.530 | 84.079 | 79.759 |
| FARAKA | 13.669 | 12.979 | 12.041 | 11.430 |
| TALA | 1.257 | 1.193 | 1.239 | 1.176 |
| TALCHER | 0.000 | 0.000 | 0.000 | 0.000 |
| DVC | 169.569 | 166.396 | 166.396 | 157.799 |
| GUJRAT | 0.332 | 0.327 | 0.327 | 0.308 |
| DVC CTPS (BRPL) | 17.822 | 17.490 | 17.490 | 16.558 |

| NAME OF THE STATION | AVAILABILITY AT POWER PLANT | AVAILABILITY AT DELHI PERIPHERY | ALLOCATION MADE BY NRLDC AT POWER PLANT | ALLOCATION MADE BY NRLDC AT DELHI PERIPHERY |
|---|---|---|---|---|
| DVC CTPS (BYPL) | 13.169 | 12.924 | 12.924 | 12.230 |
| METHON POWER(NDPL)LT-06 | 197.791 | 194.089 | 194.089 | 184.062 |
| DVC MEJIA (LT-08)(BYPL) | 60.818 | 59.682 | 59.682 | 56.549 |
| WEST BENGAL | 6.366 | 6.264 | 6.264 | 5.976 |
| DVC (FOR NDPL) LT-09 | 18.319 | 17.976 | 17.976 | 17.014 |
| HARYANA (LT-05) | 27.673 | 26.993 | 26.993 | 25.581 |
| TO UTTRANCHAL | -133.168 | -137.301 | -137.301 | -144.745 |
| TO UTTAR PRADESH | -20.503 | -21.142 | -21.142 | -22.294 |
| TO GUJRAT | -1.617 | -1.645 | -1.645 | -1.732 |
| TO GOA | -0.046 | -0.047 | -0.047 | -0.049 |
| TO MADHYA PRADESH | -161.972 | -164.499 | -164.499 | -173.454 |
| TO JAMMU & KASHMIR | -93.791 | -96.414 | -96.414 | -101.663 |
| TO MAHARASHTRA | -15.530 | -15.872 | -15.872 | -16.738 |
| TO RAJASTHAN | -18.993 | -19.524 | -19.524 | -20.587 |
| TO TRIPURA | -0.058 | -0.059 | -0.059 | -0.061 |
| TO MEGHALAYA | -24.546 | -25.159 | -25.159 | -26.524 |
| TO HIMACHAL PRADESH | -38.808 | -39.771 | -39.771 | -41.936 |
| POWER EXCHANGE(IEX) | 16.414 | 15.507 | 16.414 | 15.507 |
| TO POWER EXCHANGE (IEX) | -230.813 | -243.262 | -230.813 | -243.262 |
| POWRER EXCHANGE(PX) | 0.000 | 0.000 | 0.000 | 0.000 |
| TO POWER EXCHANGE (PX) | -5.405 | -5.682 | -5.405 | -5.682 |
| TO SHARE PROJECT (HARYANA) | -12.822 | -13.517 | -12.822 | -13.517 |
| TO SHARE PROJECT (PUNJAB) | -13.066 | -13.774 | -13.066 | -13.774 |
| **TOTAL** | **1662.816** | **1527.135** | **1286.294** | **1136.729** |

## C) AGENCY WISE BREAKUP OF ENERGY SCHEDULED DRAWL FROM THE GRID

| NAME OF THE STATION | AVAILABILITY AT POWER PLANT | AVAILABILITY AT DELHI PERIPHERY | ALLOCATION MADE BY NRLDC AT POWER PLANT | ALLOCATION MADE BY NRLDC AT DELHI PERIPHERY |
|---|---|---|---|---|
| NTPC - NR | 1509.961 | 1431.922 | 1283.941 | 1217.563 |
| NTPC - ER | 124.915 | 118.510 | 121.728 | 115.478 |
| NHPC | 48.084 | 45.600 | 21.992 | 20.863 |
| NPC | 47.668 | 45.218 | 47.668 | 45.218 |
| KOTESHWAR | 10.612 | 10.065 | 10.612 | 10.065 |
| MUNDRA_UMPP | 0.000 | 0.000 | 0.000 | 0.000 |
| NATHPA JHAKRI | 17.743 | 16.825 | 17.743 | 16.825 |
| TEHRI | 30.836 | 29.242 | 30.836 | 29.242 |
| TALA | 1.257 | 1.193 | 1.239 | 1.176 |
| JHAJJAR | 114.605 | 108.577 | 15.517 | 14.733 |
| TALCHER | 0.000 | 0.000 | 0.000 | 0.000 |
| DVC | 169.569 | 166.396 | 166.396 | 157.799 |
| GUJRAT | 0.332 | 0.327 | 0.327 | 0.308 |
| DVC CTPS (BRPL) | 17.822 | 17.490 | 17.490 | 16.558 |
| DVC CTPS (BYPL) | 13.169 | 12.924 | 12.924 | 12.230 |
| DVC CTPS (NDPL) | 0.000 | 0.000 | 0.000 | 0.000 |
| METHON POWER (NDPL)-LT-06 | 197.791 | 194.089 | 194.089 | 184.062 |
| DVC MEJIA (LT-08)(BYPL) | 60.818 | 59.682 | 59.682 | 56.549 |
| WEST BENGAL | 6.366 | 6.264 | 6.264 | 5.976 |
| MADHYA PRADESH(WR) | 0.000 | 0.000 | 0.000 | 0.000 |
| JAMMU & KASHMIR | 0.000 | 0.000 | 0.000 | 0.000 |
| DVC (FOR NDPL) LT-09 | 18.319 | 17.976 | 17.976 | 17.014 |
| HARYANA (LT -05) | 27.673 | 26.993 | 26.993 | 25.581 |
| KARNATAKA | 0.000 | 0.000 | 0.000 | 0.000 |
| URS | 0.000 | 0.000 | 0.000 | 0.000 |
| POWER EXCHANGE(IEX) | 16.414 | 15.507 | 16.414 | 15.507 |
| POWER EXCHANGE(PX) | 0.000 | 0.000 | 0.000 | 0.000 |
| | | | | |
| **TOTAL** | **2433.954** | **2324.801** | **2069.831** | **1962.748** |

## D) AGENCY WISE BREAKUP OF ENERGY SCHEDULED BY NRLDC FOR EXPORT TO OTHER UTILITIES FROM DTL

| NAME OF THE STATION | AVAILABILITY AT POWER PLANT | AVAILABILITY AT PERIPHERY | ALLOCATION MADE BY NRLDC AT POWER PLANT | ALLOCATION MADE BY NRLDC AT POWER PERIPHERY |
|---|---|---|---|---|
| TO ASSAM | 0.000 | 0.000 | 0.000 | 0.000 |
| TO UTTRANCHAL | -133.168 | -137.301 | -137.301 | -144.745 |
| TO UTTAR PRADESH | -20.503 | -21.142 | -21.142 | -22.294 |
| TO GUJRAT | -1.617 | -1.645 | -1.645 | -1.732 |
| TO MADHYA PRADESH | -161.972 | -164.499 | -164.499 | -173.454 |
| TO GOA | -0.046 | -0.047 | -0.047 | -0.049 |
| TO JAMMU & KASHMIR | -93.791 | -96.414 | -96.414 | -101.663 |
| TO MAHARASHTRA | -15.530 | -15.872 | -15.872 | -16.738 |
| TO RAJASTHAN | -18.993 | -19.524 | -19.524 | -20.587 |
| TO TRIPURA | -0.058 | -0.059 | -0.059 | -0.061 |
| TO MEGHALAYA | -24.546 | -25.159 | -25.159 | -26.524 |
| TO HIMACHAL PRADESH | -38.808 | -39.771 | -39.771 | -41.936 |
| TO POWER EXCHANGE (IEX) | -230.813 | -243.262 | -230.813 | -243.262 |
| TO POWER EXCHANGE (PX) | -5.405 | -5.682 | -5.405 | -5.682 |
| TO SHARE PROJECT (HARYANA) | -12.822 | -13.517 | -12.822 | -13.517 |
| TO SHARE PROJECT (PUNJAB) | -13.066 | -13.774 | -13.066 | -13.774 |
| | | | | |
| **TOTAL** | **-771.138** | **-797.666** | **-783.537** | **-826.018** |
| **TOTAL SCHEDULED DRAWAL FROM THE GRID** | **1662.816** | **1527.135** | **1286.294** | **1136.729** |
| TOTAL CONSUMPTION INCLUDING AUX. OF GENERATING STNs. EXCLUDING BTPS | | | | 1923.707 |
| NET CONSUMPTION | | | | 1900.652 |
| AVAILABILITY WITHIN DELHI | | | | 945.796 |
| ACTUAL DRAWAL FROM THE GRID | | | | 954.856 |
| OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID ON THE BASIS OF SCHEDULED ALLOCATION MADE BY NRLDC TO DELHI AT PERIPHERY | | | | -181.873 |
| LOAD SHEDDING | | | | **20.757** |
| UNRESTRICTED DEMAND (GROSS) | | | | **1944.464** |
| UNRESTRICTED DEMAND (NET) | | | | **1921.409** |
| MAX. NET CONSUMPTION | | | | 69.814Mus. ON 09.01.2013 |
| MAX. LOAD SHEDDING | | | | 541MW ON 07.01.2013 AT 11.00HRS. |
| **PEAK LOAD** | Peak Demand during the month | | | SHEDDING AT PEAK TIME |
| DAY PEAK | 4214MW AT 10.13.56HRS ON 09.01.2013 | | | 0 MW |
| EVENING PEAK | 3822MW AT 19.00.00HRS ON 08.01.2013 | | | 0 MW |
| P.L.F. OF GENCO AND PRAGATI STNs. | RPH | | | 79.77% |
| | GT | | | 50.71% |
| | PRAGATI | | | 94.78% |
| | RITHALA | | | 6.17% |
| | BAWANA | | | 30.43% |

## 9 SHEDDING DETAILS DURING THE MONTH OF JANUARY 2013.

**ALL FIGURES IN MUs**

| DATE | No. of Under Freq. Relay Operated | Shedding due to under frequency relay operation in MUs | | | | | Shedding due to Grid Restrictions (Over drawal / low freq.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | BSES | | NDPL | NDMC | TOTAL | BSES | | NDPL | NDMC |
| | | BYPL | BRPL | | | | BYPL | BRPL | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7=3 to 6 | 8 | 9 | 10 | 11 |
| 01-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 0.913 | 0.546 | 0.122 | 0.000 |
| 02-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 1.933 | 0.779 | 1.400 | 0.000 |
| 03-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 1.711 | 0.349 | 0.272 | 0.000 |
| 04-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 1.116 | 0.696 | 0.744 | 0.000 |
| 05-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 1.277 | 0.429 | 0.152 | 0.000 |
| 06-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 0.028 | 0.001 | 0.261 | 0.000 |
| 07-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 0.816 | 1.162 | 0.820 | 0.000 |
| 08-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 0.342 | 0.725 | 0.117 | 0.000 |
| 09-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 0.007 | 0.029 | 0.030 | 0.000 |
| 10-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 0.017 | 0.000 | 0.003 | 0.000 |
| 11-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 0.084 | 0.160 | 0.057 | 0.000 |
| 12-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 0.000 | 0.000 | 0.020 | 0.000 |
| 13-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 0.000 | 0.000 | 0.000 | 0.000 |
| 14-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 0.000 | 0.000 | 0.000 | 0.000 |
| 15-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 0.000 | 0.000 | 0.005 | 0.000 |
| 16-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 0.000 | 0.026 | 0.039 | 0.000 |
| 17-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 0.000 | 0.000 | 0.000 | 0.000 |
| 18-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 0.000 | 0.000 | 0.000 | 0.000 |
| 19-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 0.000 | 0.000 | 0.000 | 0.000 |
| 20Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 0.572 | 0.466 | 0.265 | 0.000 |
| 21-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 0.000 | 0.000 | 0.008 | 0.000 |
| 22-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 0.000 | 0.000 | 0.000 | 0.000 |
| 23-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 0.000 | 0.000 | 0.001 | 0.000 |
| 24-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 0.000 | 0.000 | 0.000 | 0.000 |
| 25-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 0.205 | 0.718 | 0.260 | 0.000 |
| 26-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 0.000 | 0.000 | 0.000 | 0.000 |
| 27-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 0.000 | 0.000 | 0.000 | 0.000 |
| 28-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 0.000 | 0.000 | 0.000 | 0.000 |
| 29-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 0.000 | 0.000 | 0.000 | 0.000 |
| 30-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 0.000 | 0.000 | 0.000 | 0.000 |
| 31-Jan-13 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | 0.000 | 0.000 | 0.000 | 0.000 |
| **TOTAL** | **0** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** | **9.021** | **6.086** | **4.576** | **0.000** |

ALL FIGURES IN MUs

| Date | Shedding due to Transmission/Grid Constraints in Central Sector Stations / TTC / ATC VOILATION | | | | TOTAL | TOTAL SHEDDING DUE TO GRID RESTRICTIONS | Due to T&D Constraints | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | DTL | | | | |
| | BSES | | NDPL | NDMC | | | BSES | | NDPL | NDMC | MES |
| | BYPL | BRPL | | | | | BYPL | BRPL | | | |
| **1** | 12 | 13 | 14 | 15 | **16=8to15** | **17=16+7** | 18 | 19 | 20 | 21 | 22 |
| 01-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **1.581** | **1.581** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 02-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **4.112** | **4.112** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 03-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **2.332** | **2.332** | 0.033 | 0.000 | 0.000 | 0.000 | 0.000 |
| 04-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **2.556** | **2.556** | 0.064 | 0.000 | 0.000 | 0.000 | 0.000 |
| 05-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **1.858** | **1.858** | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 |
| 06-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **0.290** | **0.290** | 0.045 | 0.054 | 0.000 | 0.000 | 0.000 |
| 07-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **2.798** | **2.798** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 08-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **1.184** | **1.184** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 09-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **0.066** | **0.066** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 10-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **0.020** | **0.020** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 11-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **0.301** | **0.301** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 12-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **0.020** | **0.020** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 13-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | **0.000** | 0.000 | 0.014 | 0.000 | 0.000 | 0.000 |
| 14-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | **0.000** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 15-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **0.005** | **0.005** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 16-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **0.065** | **0.065** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 17-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | **0.000** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 18-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | **0.000** | 0.007 | 0.000 | 0.003 | 0.007 | 0.000 |
| 19-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | **0.000** | 0.000 | 0.000 | 0.004 | 0.000 | 0.000 |
| 20Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **1.303** | **1.303** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 21-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **0.008** | **0.008** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 22-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | **0.000** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 23-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **0.001** | **0.001** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 24-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | **0.000** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 25-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **1.183** | **1.183** | 0.000 | 0.003 | 0.001 | 0.000 | 0.000 |
| 26-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | **0.000** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 27-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | **0.000** | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 |
| 28-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | **0.000** | 0.000 | 0.000 | 0.002 | 0.000 | 0.000 |
| 29-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | **0.000** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 30-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | **0.000** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 31-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** | **0.000** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **TOTAL** | **0.000** | **0.000** | **0.000** | **0.000** | **19.683** | **19.683** | **0.169** | **0.071** | **0.011** | **0.007** | **0.000** |

ALL FIGURES IN MUs

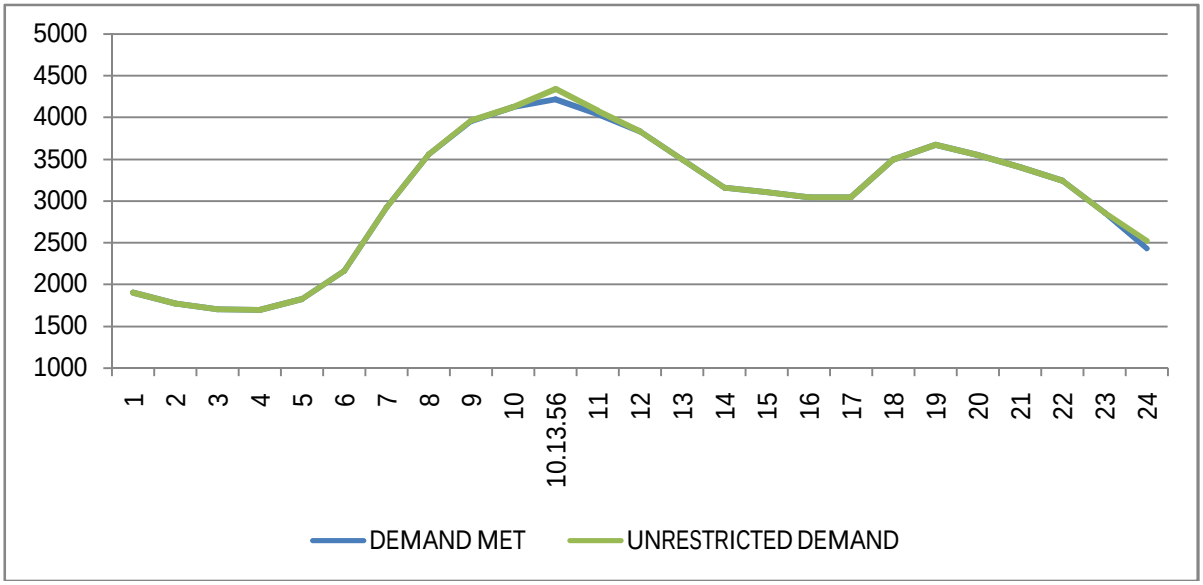
| DATE | DUE TO T&D CONTRAINTS | | | | OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC. | THEFT PRONE SHEDDING | | | TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE | GRAND TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | DISCOMS | | | | | | | | | |
| | BSES | | NDPL | NDMC | | BSES | | NDPL | | |
| | BYPL | BRPL | | | | BYPL | BRPL | | | |
| 1 | 23 | 24 | 25 | | 26 | 27 | 28 | 29 | 30=18 to29 | 31=30+17 |
| 01-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1.581 |
| 02-Jan-13 | 0.000 | 0.013 | 0.005 | 0.000 | 0.003 | 0.000 | 0.000 | 0.000 | 0.021 | 4.133 |
| 03-Jan-13 | 0.000 | 0.055 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.088 | 2.420 |
| 04-Jan-13 | 0.011 | 0.011 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.087 | 2.643 |
| 05-Jan-13 | 0.002 | 0.002 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 1.883 |
| 06-Jan-13 | 0.029 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.129 | 0.419 |
| 07-Jan-13 | 0.035 | 0.069 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.104 | 2.902 |
| 08-Jan-13 | 0.060 | 0.004 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.066 | 1.250 |
| 09-Jan-13 | 0.000 | 0.003 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.015 | 0.081 |
| 10-Jan-13 | 0.002 | 0.000 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.030 |
| 11-Jan-13 | 0.013 | 0.005 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.019 | 0.320 |
| 12-Jan-13 | 0.069 | 0.006 | 0.028 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.103 | 0.123 |
| 13-Jan-13 | 0.057 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.072 | 0.072 |
| 14-Jan-13 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.005 | 0.005 |
| 15-Jan-13 | 0.000 | 0.000 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.005 | 0.010 |
| 16-Jan-13 | 0.000 | 0.014 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.015 | 0.080 |
| 17-Jan-13 | 0.006 | 0.085 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.094 | 0.094 |
| 18-Jan-13 | 0.000 | 0.013 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.042 | 0.042 |
| 19-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | 0.020 | 0.000 | 0.000 | 0.000 | 0.024 | 0.024 |
| 20Jan-13 | 0.000 | 0.028 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.029 | 1.332 |
| 21-Jan-13 | 0.000 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.020 | 0.028 |
| 22-Jan-13 | 0.000 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.002 |
| 23-Jan-13 | 0.000 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.011 | 0.012 |
| 24-Jan-13 | 0.000 | 0.045 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.047 | 0.047 |
| 25-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.004 | 1.187 |
| 26-Jan-13 | 0.003 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.019 | 0.019 |
| 27-Jan-13 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.002 |
| 28-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.002 |
| 29-Jan-13 | 0.004 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.009 | 0.009 |
| 30-Jan-13 | 0.000 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.005 | 0.005 |
| 31-Jan-13 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| TOTAL | **0.297** | **0.412** | **0.084** | **0.000** | **0.013** | 0.000 | 0.000 | 0.000 | 1.074 | 20.757 |

| DATE | (NET CONS.) | MAXI. DEMAND MET DURING THE DAY | TIME OF OCCUR-RENCE OF MAX DEMAND | SHEDDING AT THIS TIME | UN-REST-RICTED DEMAND | MAXIMUM UN-REST-RICTED DEMAND DURING THE DAY | TIME OF MAX. UN-REST. DEMAND | DEMAND AT THAT TIME | SHEDDING AT THAT TIME |
|---|---|---|---|---|---|---|---|---|---|
| | In Mus. | IN MW | IN HRS. | IN MW | IN MW | IN MW | HRS. | IN MW | IN MW |
| 1 | 32 | 33 | 34 | 35 | 36=33+35 | 37=39+40 | 38 | 39 | 40 |
| 01-Jan-13 | 63.336 | 3705 | 11:07:18 | 184 | 3889 | 3926 | 10:30 | 3600 | 326 |
| 02-Jan-13 | 63.533 | 3699 | 10:01:16 | 230 | 3929 | 3929 | 10:01:16 | 3699 | 230 |
| 03-Jan-13 | 66.302 | 3955 | 11:20:33 | 119 | 4074 | 4074 | 11:20:33 | 3955 | 119 |
| 04-Jan-13 | 66.728 | 3727 | 11:44:10 | 260 | 3987 | 4105 | 10:30 | 3594 | 511 |
| 05-Jan-13 | 62.390 | 3704 | 09:05:31 | 157 | 3861 | 3902 | 10:30 | 3605 | 297 |
| 06-Jan-13 | 68.136 | 3864 | 10:43:14 | 57 | 3921 | 3921 | 10:43:14 | 3864 | 57 |
| 07-Jan-13 | 66.844 | 3800 | 11:47:08 | 319 | 4119 | 4201 | 11:00 | 3660 | 541 |
| 08-Jan-13 | 69.596 | 4122 | 10:32:29 | 144 | 4266 | 4266 | 10:32:29 | 4122 | 144 |
| 09-Jan-13 | 69.814 | 4214 | 10:13:56 | 0 | 4214 | 4214 | 10:13:56 | 4214 | 0 |
| 10-Jan-13 | 67.561 | 3995 | 10:17:24 | 0 | 3995 | 3995 | 10:17:24 | 3995 | 0 |
| 11-Jan-13 | 64.940 | 3965 | 10:48:35 | 25 | 3990 | 3990 | 10:48:35 | 3965 | 25 |
| 12-Jan-13 | 60.198 | 3638 | 10:17:15 | 0 | 3638 | 3638 | 10:17:15 | 3638 | 0 |
| 13-Jan-13 | 54.667 | 3394 | 10:22:36 | 0 | 3394 | 3394 | 10:22:36 | 3394 | 0 |
| 14-Jan-13 | 58.942 | 3667 | 09:44:57 | 0 | 3667 | 3667 | 09:44:57 | 3667 | 0 |
| 15-Jan-13 | 59.953 | 3274 | 10:01:45 | 6 | 3280 | 3280 | 10:01:45 | 3274 | 6 |
| 16-Jan-13 | 59.039 | 3490 | 10:05:09 | 0 | 3490 | 3490 | 10:05:09 | 3490 | 0 |
| 17-Jan-13 | 58.175 | 3288 | 18:48:12 | 0 | 3288 | 3288 | 18:48:12 | 3288 | 0 |
| 18-Jan-13 | 61.139 | 3384 | 10:35:25 | 0 | 3384 | 3384 | 10:35:25 | 3384 | 0 |
| 19-Jan-13 | 58.464 | 3388 | 10:01:11 | 0 | 3388 | 3388 | 10:01:11 | 3388 | 0 |
| 20Jan-13 | 57.902 | 3389 | 10:55:55 | 175 | 3564 | 3564 | 10:55:55 | 3389 | 175 |
| 21-Jan-13 | 60.580 | 3570 | 09:56:45 | 3 | 3573 | 3573 | 09:56:45 | 3570 | 3 |
| 22-Jan-13 | 61.817 | 3678 | 08:38:12 | 0 | 3678 | 3678 | 08:38:12 | 3678 | 0 |
| 23-Jan-13 | 60.263 | 3658 | 09:50:44 | 0 | 3658 | 3658 | 09:50:44 | 3658 | 0 |
| 24-Jan-13 | 62.556 | 3572 | 09:52:41 | 0 | 3572 | 3572 | 09:52:41 | 3572 | 0 |
| 25-Jan-13 | 59.928 | 3518 | 10:41:10 | 180 | 3698 | 3698 | 10:41:10 | 3518 | 180 |
| 26-Jan-13 | 49.792 | 3111 | 09:32:07 | 0 | 3111 | 3111 | 09:32:07 | 3111 | 0 |
| 27-Jan-13 | 53.517 | 3373 | 10:37:50 | 0 | 3373 | 3373 | 10:37:50 | 3373 | 0 |
| 28-Jan-13 | 57.744 | 3536 | 10:46:40 | 0 | 3536 | 3536 | 10:46:40 | 3536 | 0 |
| 29-Jan-13 | 59.182 | 3471 | 09:50:31 | 0 | 3471 | 3471 | 09:50:31 | 3471 | 0 |
| 30-Jan-13 | 58.553 | 3497 | 09:33:36 | 0 | 3497 | 3497 | 09:33:36 | 3497 | 0 |
| 31-Jan-13 | 59.061 | 3482 | 09:41:02 | 0 | 3482 | 3482 | 09:41:02 | 3482 | 0 |
| Total | 1900.652 | 4214<br>**09.01.2013** | 10:13:56 | 0 | 4214<br>08.01.2013 | 4266 | 10:32:29 | 4122 | 144 |

## 10 LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING JANUARY 2013 ON 09.01.2013 - 4214MW at 10.13.56HRS.

**All figures in MW**

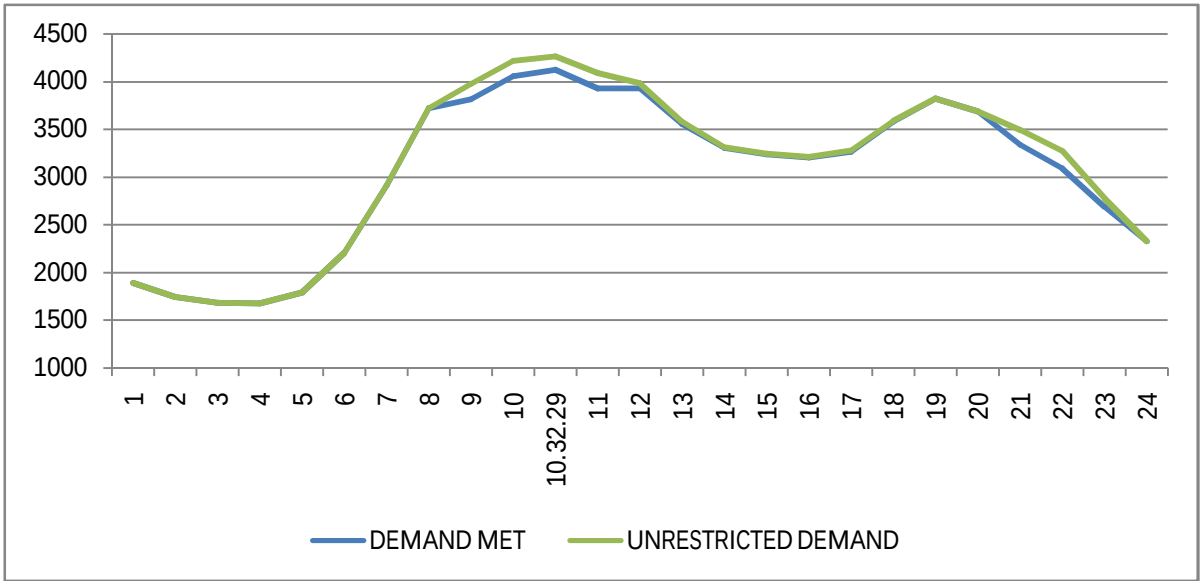
| Hrs. | Demand | Load Shedding | Un-Restricted Demand |
|---|---|---|---|
| 1 | 1903 | 0 | 1903 |
| 2 | 1770 | 0 | 1770 |
| 3 | 1699 | 0 | 1699 |
| 4 | 1691 | 0 | 1691 |
| 5 | 1828 | 0 | 1828 |
| 6 | 2160 | 0 | 2160 |
| 7 | 2921 | 0 | 2921 |
| 8 | 3555 | 2 | 3557 |
| 9 | 3959 | 2 | 3961 |
| 10 | 4122 | 0 | 4122 |
| 10.13.56 | 4214 | 122 | 4336 |
| 11 | 4042 | 40 | 4082 |
| 12 | 3833 | 0 | 3833 |
| 13 | 3498 | 0 | 3498 |
| 14 | 3160 | 0 | 3160 |
| 15 | 3102 | 0 | 3102 |
| 16 | 3047 | 0 | 3047 |
| 17 | 3047 | 0 | 3047 |
| 18 | 3495 | 0 | 3495 |
| 19 | 3674 | 0 | 3674 |
| 20 | 3547 | 0 | 3547 |
| 21 | 3407 | 0 | 3407 |
| 22 | 3242 | 0 | 3242 |
| 23 | 2860 | 0 | 2860 |
| 24 | 2432 | 87 | 2519 |
| | | | |
| ENERGY IN MUS | **69.814** | **0.081** | **69.895** |



## 11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING JANUARY 2013 ON 08.01.2013-4266MW at 10.32.29HRS.

**All figures in MW**

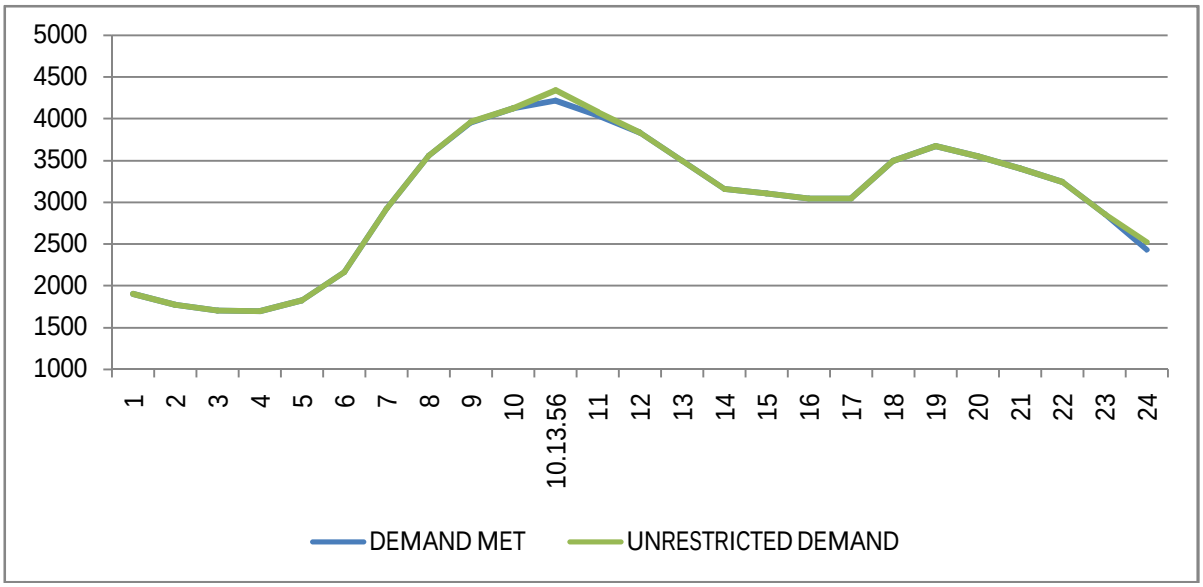
| Hrs. | Demand | Load Shedding | Un-Restricted Demand |
|---|---|---|---|
| 1 | 1886 | 0 | 1886 |
| 2 | 1739 | 0 | 1739 |
| 3 | 1682 | 0 | 1682 |
| 4 | 1674 | 0 | 1674 |
| 5 | 1792 | 0 | 1792 |
| 6 | 2206 | 0 | 2206 |
| 7 | 2912 | 0 | 2912 |
| 8 | 3721 | 0 | 3721 |
| 9 | 3814 | 162 | 3976 |
| 10 | 4059 | 156 | 4215 |
| 10.32.29 | 4122 | 144 | 4266 |
| 11 | 3928 | 163 | 4091 |
| 12 | 3925 | 54 | 3979 |
| 13 | 3552 | 30 | 3582 |
| 14 | 3303 | 6 | 3309 |
| 15 | 3235 | 6 | 3241 |
| 16 | 3201 | 12 | 3213 |
| 17 | 3264 | 12 | 3276 |
| 18 | 3577 | 6 | 3583 |
| 19 | 3822 | 0 | 3822 |
| 20 | 3690 | 0 | 3690 |
| 21 | 3338 | 156 | 3494 |
| 22 | 3087 | 183 | 3270 |
| 23 | 2688 | 88 | 2776 |
| 24 | 2328 | 0 | 2328 |
| | | | |
| ENERGY IN MUS | **69.596** | **1.250** | **70.846** |



## 12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING JANUARY 2013 – 09.01.2013 – 69.814 Mus

**All figures in MW**

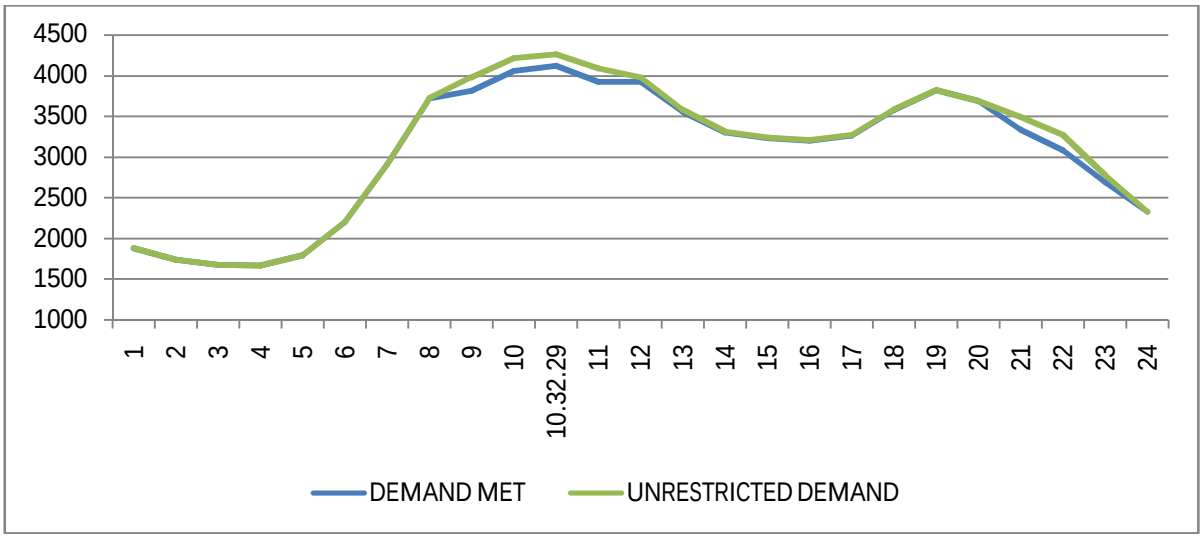
| Hrs. | Demand | Load Shedding | Un-Restricted Demand |
|---|---|---|---|
| 1 | 1903 | 0 | 1903 |
| 2 | 1770 | 0 | 1770 |
| 3 | 1699 | 0 | 1699 |
| 4 | 1691 | 0 | 1691 |
| 5 | 1828 | 0 | 1828 |
| 6 | 2160 | 0 | 2160 |
| 7 | 2921 | 0 | 2921 |
| 8 | 3555 | 2 | 3557 |
| 9 | 3959 | 2 | 3961 |
| 10 | 4122 | 0 | 4122 |
| 10.13.56 | 4214 | 122 | 4336 |
| 11 | 4042 | 40 | 4082 |
| 12 | 3833 | 0 | 3833 |
| 13 | 3498 | 0 | 3498 |
| 14 | 3160 | 0 | 3160 |
| 15 | 3102 | 0 | 3102 |
| 16 | 3047 | 0 | 3047 |
| 17 | 3047 | 0 | 3047 |
| 18 | 3495 | 0 | 3495 |
| 19 | 3674 | 0 | 3674 |
| 20 | 3547 | 0 | 3547 |
| 21 | 3407 | 0 | 3407 |
| 22 | 3242 | 0 | 3242 |
| 23 | 2860 | 0 | 2860 |
| 24 | 2432 | 87 | 2519 |
| | | | |
| ENERGY IN MUS | **69.814** | **0.081** | **69.895** |



## 13 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING JANUARY 2013 – 08.01.2013 – 70.846 Mus

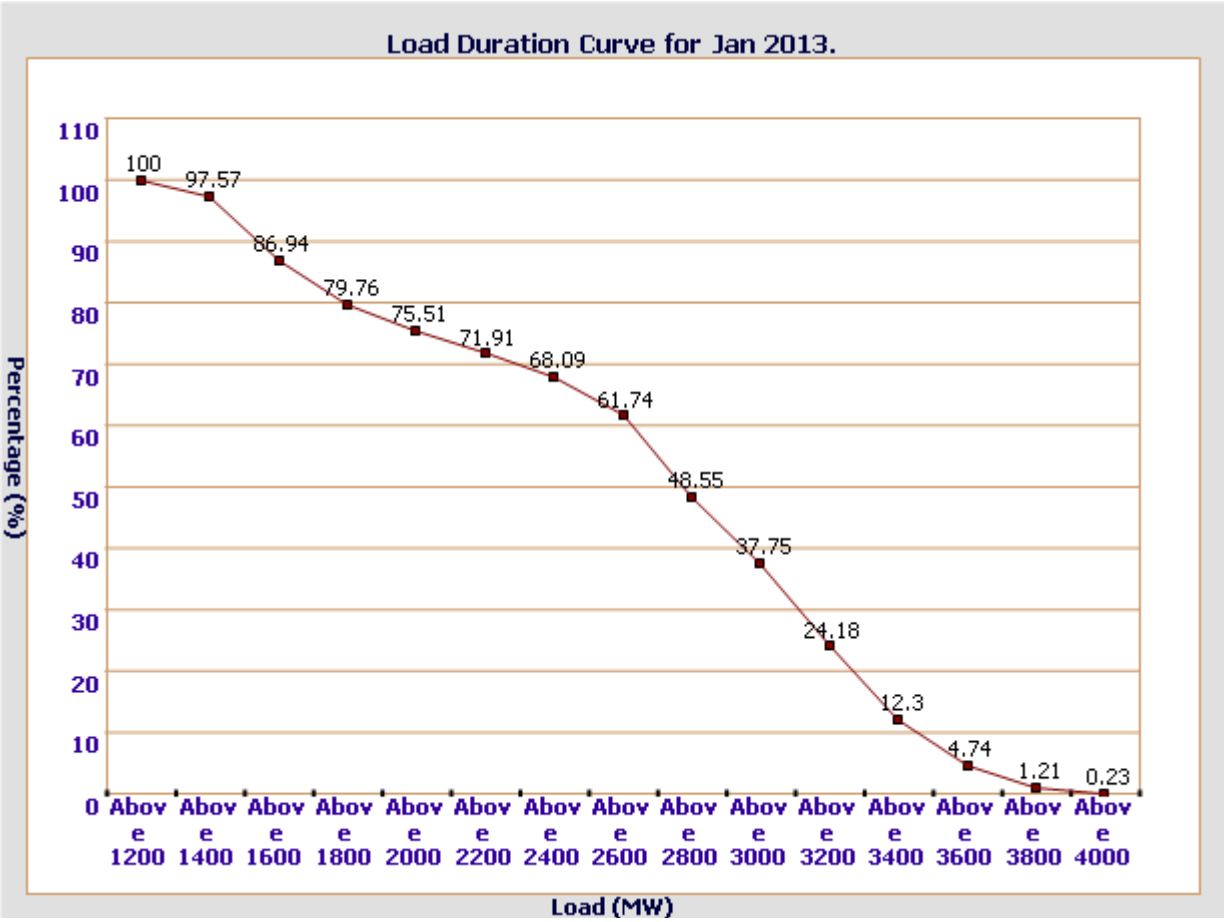
**All figures in MW**

| Hrs. | Demand | Load Shedding | Un-Restricted Demand |
|---|---|---|---|
| 1 | 1886 | 0 | 1886 |
| 2 | 1739 | 0 | 1739 |
| 3 | 1682 | 0 | 1682 |
| 4 | 1674 | 0 | 1674 |
| 5 | 1792 | 0 | 1792 |
| 6 | 2206 | 0 | 2206 |
| 7 | 2912 | 0 | 2912 |
| 8 | 3721 | 0 | 3721 |
| 9 | 3814 | 162 | 3976 |
| 10 | 4059 | 156 | 4215 |
| 10.32.29 | 4122 | 144 | 4266 |
| 11 | 3928 | 163 | 4091 |
| 12 | 3925 | 54 | 3979 |
| 13 | 3552 | 30 | 3582 |
| 14 | 3303 | 6 | 3309 |
| 15 | 3235 | 6 | 3241 |
| 16 | 3201 | 12 | 3213 |
| 17 | 3264 | 12 | 3276 |
| 18 | 3577 | 6 | 3583 |
| 19 | 3822 | 0 | 3822 |
| 20 | 3690 | 0 | 3690 |
| 21 | 3338 | 156 | 3494 |
| 22 | 3087 | 183 | 3270 |
| 23 | 2688 | 88 | 2776 |
| 24 | 2328 | 0 | 2328 |
| | | | |
| ENERGY IN MUS | **69.596** | **1.250** | **70.846** |



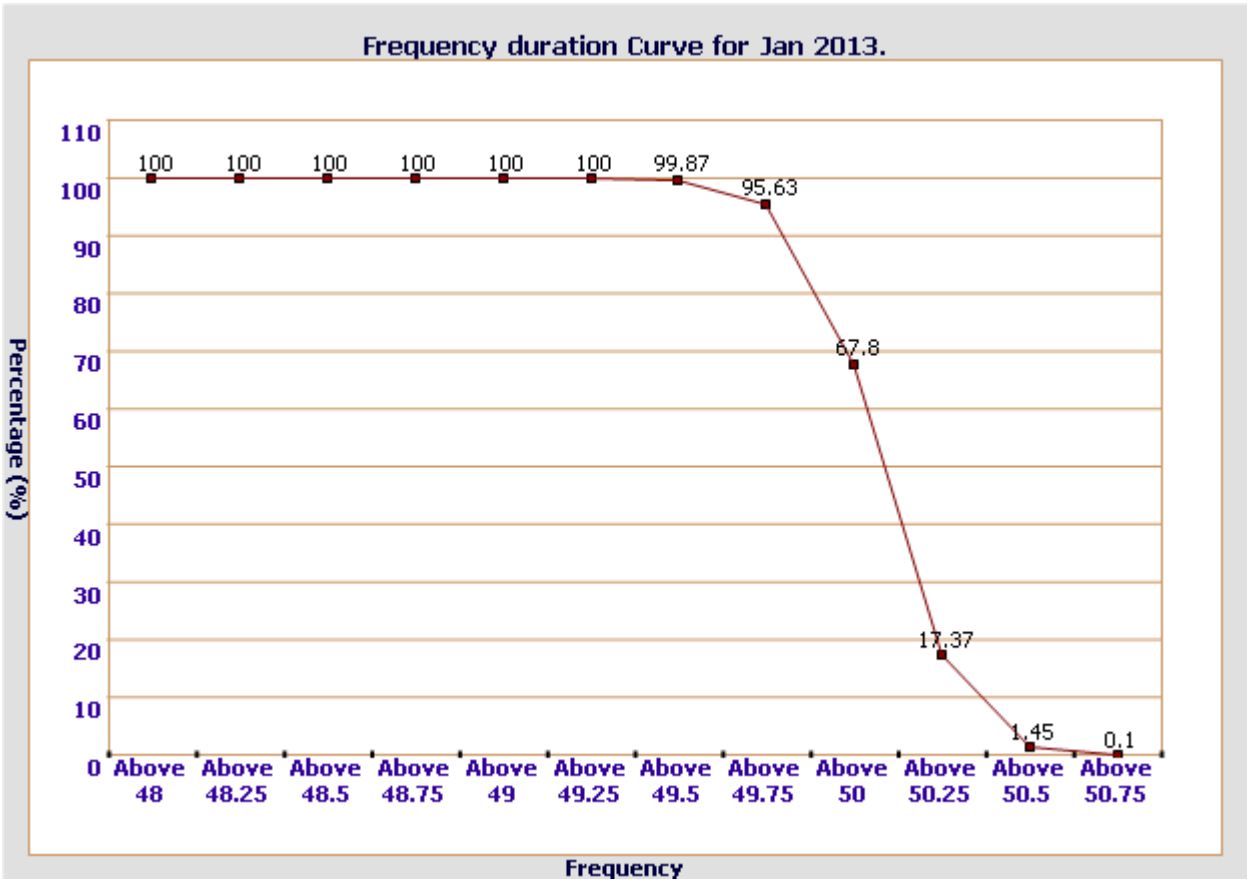
## 14 LOAD DURATION CURVE FOR JANUARY 2013

| Load in MW | Percentage of Time |
|---|---|
| Above 1200 | 100 % |
| Above 1400 | 97.57 % |
| Above 1600 | 86.94 % |
| Above 1800 | 79.76 % |
| Above 2000 | 75.51 % |
| Above 2200 | 71.91 % |
| Above 2400 | 68.09 % |
| Above 2600 | 61.74 % |
| Above 2800 | 48.55 % |
| Above 3000 | 37.75 % |
| Above 3200 | 24.18 % |
| Above 3400 | 12.3 % |
| Above 3600 | 4.74 % |
| Above 3800 | 1.21 % |
| Above 4000 | 0.23 % |



## 15 FREQUENCY ANALYSIS FOR THE MONTH OF JANUARY 2013

| Frequency Range in Hz. | Percentage of time |
|---|---|
| Above 49.25 | 100 % |
| Above 49.5 | 99.87 % |
| Above 49.75 | 95.63 % |
| Above 50 | 67.8 % |
| Above 50.25 | 17.37 % |
| Above 50.5 | 1.45 % |
| Above 50.75 | 0.1 % |
| | |



## 16 VOLTAGE PROFILE OF 220 KV SUB-STATIONS IN DELHI DURING JANUARY 2013

**All figures in kV**

| Date | NARELA | | GAZIPUR | |
|---|---|---|---|---|
| | Max | Min | Max | Min |
| 01-Jan-13 | 228.66 | 213.70 | 231.11 | 215.77 |
| 02-Jan-13 | 228.92 | 214.35 | 230.08 | 206.74 |
| 03-Jan-13 | 229.18 | 214.09 | 229.18 | 212.20 |
| 04-Jan-13 | 229.82 | 216.41 | 230.47 | 207.38 |
| 05-Jan-13 | 229.31 | 215.77 | 227.37 | 207.64 |
| 06-Jan-13 | 230.73 | 216.54 | 229.44 | 212.80 |
| 07-Jan-13 | 231.89 | 215.05 | 232.79 | 210.09 |
| 08-Jan-13 | 229.95 | 215.64 | 230.08 | 213.44 |
| 09-Jan-13 | 228.66 | 215.12 | 228.66 | 214.35 |
| 10-Jan-13 | 228.15 | 214.61 | 229.18 | 213.32 |
| 11-Jan-13 | -- | -- | -- | -- |
| 12-Jan-13 | 230.08 | 216.41 | 230.86 | 206.35 |
| 13-Jan-13 | 230.08 | 218.22 | 230.86 | 218.47 |
| 14-Jan-13 | 230.08 | 216.41 | 231.76 | 217.18 |
| 15-Jan-13 | 228.92 | 217.18 | 229.95 | 218.35 |
| 16-Jan-13 | 228.02 | 217.96 | 229.44 | 213.83 |
| 17-Jan-13 | 235.11 | 220.28 | 235.11 | 215.64 |
| 18-Jan-13 | 237.30 | 220.15 | 237.05 | 217.18 |
| 19-Jan-13 | 233.95 | 220.15 | 233.69 | 217.70 |
| 20Jan-13 | 234.47 | 218.35 | 232.53 | 218.99 |
| 21-Jan-13 | 235.89 | 218.99 | 234.72 | 217.57 |
| 22-Jan-13 | 233.31 | 219.25 | 232.79 | 205.96 |
| 23-Jan-13 | 231.37 | 219.51 | 230.73 | 206.74 |
| 24-Jan-13 | 231.37 | 218.86 | 230.86 | 217.18 |
| 25-Jan-13 | 232.02 | 220.28 | 230.73 | 215.38 |
| 26-Jan-13 | 232.02 | 223.38 | 230.60 | 210.22 |
| 27-Jan-13 | 233.43 | 220.15 | 232.79 | 204.67 |
| 28-Jan-13 | 232.79 | 218.35 | 230.21 | 209.19 |
| 29-Jan-13 | 231.11 | 218.99 | 228.92 | 217.09 |
| 30-Jan-13 | 230.60 | 218.22 | 229.18 | 216.02 |
| 31-Jan-13 | 232.15 | 218.86 | 229.44 | 216.02 |

## 17 VOLTAGE PROFILE OF 400 KV SUB-STATIONS IN DELHI DURING JANUARY 2013

**All figures in kV**

| Date | 400kV Bamnauli Grid Sub-Station | | | | |
|---|---|---|---|---|---|
| | Max KV | Max Time | Min KV | Min Time | Average KV |
| 01-Jan-13 | 416.69 | 04.05.03 | 393.47 | 09.56.44 | 404.05 |
| 02-Jan-13 | 416.92 | 04.04.12 | 392.77 | 09.36.14 | 403.19 |
| 03-Jan-13 | 412.47 | 04.01.56 | 389.96 | 09.55.37 | 401.59 |
| 04-Jan-13 | 414.58 | 03.20.41 | 392.30 | 16.48.37 | 401.92 |
| 05-Jan-13 | 412.70 | 20.15.22 | 390.43 | 08.46.50 | 401.67 |
| 06-Jan-13 | 415.75 | 04.00.51 | 393.24 | 10.03.51 | 405.14 |
| 07-Jan-13 | 416.92 | 03.07.53 | 391.60 | 10.19.12 | 404.40 |
| 08-Jan-13 | 412.47 | 03.11.12 | 391.36 | 09.55.17 | 403.17 |
| 09-Jan-13 | 411.06 | 04.31.06 | 391.60 | 10.14.16 | -- |
| 10-Jan-13 | 411.30 | 13.01.05 | 386.67 | 10.10.03 | 400.33 |
| 11-Jan-13 | -- | -- | -- | -- | -- |
| 12-Jan-13 | 412.47 | 03.04.48 | 389.72 | 11.22.20 | 400.95 |
| 13-Jan-13 | 412.00 | 04.01.51 | 392.07 | 09.51.55 | 401.37 |
| 14-Jan-13 | 412.70 | 04.05.25 | 390.19 | 11.01.41 | 401.39 |
| 15-Jan-13 | 408.72 | 03.03.40 | 391.60 | 18.38.46 | 400.5 |
| 16-Jan-13 | 408.01 | 05.01.51 | 389.72 | 09.38.27 | 399.66 |
| 17-Jan-13 | 420.44 | 23.54.11 | 388.08 | 00.00.00 | 402.33 |
| 18-Jan-13 | 425.13 | 03.05.24 | 394.65 | 19.02.11 | 409.48 |
| 19-Jan-13 | 418.33 | 03.02.23 | 392.30 | 10.31.12 | 403.54 |
| 20Jan-13 | 418.10 | 02.17.47 | 393.24 | 18.45.15 | 406.42 |
| 21-Jan-13 | 421.38 | 04.04.10 | 392.77 | 11.04.10 | 404.77 |
| 22-Jan-13 | 416.22 | 03.10.50 | 392.77 | 18.43.32 | 402.90 |
| 23-Jan-13 | 412.70 | 04.05.38 | 392.30 | 11.14.00 | 401.82 |
| 24-Jan-13 | 412.70 | 04.06.42 | 393.24 | 11.14.25 | 401.64 |
| 25-Jan-13 | 414.58 | 04.04.45 | 394.65 | 18.40.58 | 403.52 |
| 26-Jan-13 | 413.17 | 04.04.38 | 397.93 | 08.24.42 | 405.65 |
| 27-Jan-13 | 414.81 | 04.06.17 | 391.13 | 11.19.23 | 403.51 |
| 28-Jan-13 | 414.34 | 04.00.41 | 392.07 | 18.25.89 | 401.89 |
| 29-Jan-13 | 412.47 | 04.04.37 | 393.47 | 11.05.56 | 401.62 |
| 30-Jan-13 | 413.17 | 04.03.13 | 392.30 | 09.08.34 | 403.24 |
| 31-Jan-13 | 416.22 | 04.04.50 | 395.82 | 11.18.28 | 402.78 |

**All figures in kV**

| Date | 400kV Bawana Grid Sub-Station | | | | |
|---|---|---|---|---|---|
| | Max KV | Max Time | Min KV | Min Time | Average KV |
| 01-Jan-13 | 423.25 | 04.04.53 | 401.45 | 08.49.00 | 411.51 |
| 02-Jan-13 | 423.96 | 04.03.42 | 401.45 | 09.37.55 | 411.12 |
| 03-Jan-13 | 420.21 | 04.04.36 | 398.63 | 09.55.47 | 409.89 |
| 04-Jan-13 | 421.61 | 03.18.21 | 400.74 | 11.42.39 | 409.82 |
| 05-Jan-13 | 420.91 | 20.13.42 | 399.10 | 09.43.33 | 409.44 |
| 06-Jan-13 | 422.55 | 04.05.01 | 400.74 | 10.06.31 | 412.60 |
| 07-Jan-13 | 423.96 | 03.08.54 | 399.81 | 10.17.42 | 412.29 |
| 08-Jan-13 | 420.67 | 03.06.42 | 401.45 | 10.10.18 | 412.13 |
| 09-Jan-13 | 418.33 | 431.36 | 400.51 | 10.16.56 | 411.74 |
| 10-Jan-13 | 419.74 | 21.54.20 | 394.88 | 09.43.42 | 407.51 |
| 11-Jan-13 | -- | -- | -- | -- | -- |
| 12-Jan-13 | 420.21 | 03.06.38 | 397.46 | 11.22.20 | 410.03 |
| 13-Jan-13 | 420.67 | 04.02.31 | 401.45 | 09.51.45 | 410.38 |
| 14-Jan-13 | 420.91 | 04.05.15 | 399.57 | 11.01.11 | 410.09 |
| 15-Jan-13 | 417.86 | 20.54.25 | 400.27 | 11.09.18 | 408.90 |
| 16-Jan-13 | 415.75 | 05.01.51 | 398.63 | 09.38.57 | 408.34 |
| 17-Jan-13 | 427.94 | 23.54.11 | 402.62 | 00.00.00 | 411.74 |
| 18-Jan-13 | 432.16 | 03.05.34 | 403.79 | 18.18.18 | 418.79 |
| 19-Jan-13 | 426.54 | 03.02.03 | 401.68 | 18.53.17 | 412.98 |
| 20Jan-13 | 426.77 | 02.18.07 | 405.43 | 08.42.14 | 415.78 |
| 21-Jan-13 | 429.59 | 04.04.00 | 402.85 | 11.07.50 | 414.12 |
| 22-Jan-13 | 424.90 | 04.05.44 | 402.62 | 06.33.35 | 412.19 |
| 23-Jan-13 | 420.91 | 04.03.38 | 402.85 | 11.14.40 | 411.40 |
| 24-Jan-13 | 420.91 | 04.06.22 | 402.85 | 11.14.55 | 411.28 |
| 25-Jan-13 | 422.79 | 04.04.45 | 404.49 | 18.37.08 | 412.79 |
| 26-Jan-13 | 422.08 | 04.09.28 | 408.01 | 08.24.42 | 415.42 |
| 27-Jan-13 | 423.96 | 04.06.17 | 402.85 | 11.14.33 | 414.11 |
| 28-Jan-13 | 423.25 | 04.05.11 | 402.85 | 18.25.30 | 412.04 |
| 29-Jan-13 | 421.61 | 04.04.37 | 404.03 | 11.04.36 | 411.84 |
| 30-Jan-13 | 421.85 | 04.00.33 | 402.15 | 11.37.26 | 412.55 |
| 31-Jan-13 | 425.13 | 04.05.41 | 405.20 | 11.17.08 | 411.90 |

# 18 DETAILS OF LUMPED CAPACITORS AT NEAREST 220 KV SUBSTATION

| Sl. No | SUB-STATION | INSTALLED CAPACITY IN MVAR | | | |
|---|---|---|---|---|---|
| | | 66KV | 33kV | 11kV | **TOTAL** |
| **1** | **IP YARD** | | 30 | | **30** |
| 1 | Kamla Market | | | 16.35 | **16.35** |
| 2 | Minto Road | | | | |
| 3 | GB Pant Hosp | | | 15.88 | **15.88** |
| 4 | Delhi Gate | | | 10.9 | **10.9** |
| 5 | Tilakmarg | | | 5.04 | **5.04** |
| 6 | Electric Lane | | | 5.04 | **5.04** |
| 7 | Cannaught Place | | | 10.08 | **10.08** |
| 8 | Kilokri | | 10.08 | 10.48 | **20.56** |
| 9 | NDSE | | | 5.03 | **5.03** |
| 10 | AIIMS | | 10 | 5.04 | **15.04** |
| 11 | Nizamuddin | | | | |
| 12 | Exhibition-I | | 10 | | **10** |
| 13 | Exhibition-II | | | | |
| 14 | Defence Colony | | | | |
| 15 | IG Stadium | | 10.08 | 5.45 | **15.53** |
| 16 | Lajpat Nagar | | | | |
| 17 | IP Estate | | | 10.9 | **10.9** |
| | Total | | | | **170.4** |
| **2** | **IP Extn.** | | | | |
| 1 | School Lane | | | 5.04 | **5.04** |
| 2 | Scindia House | | | 5.04 | **5.04** |
| 3 | Vidyut Bhawan | | | 10.08 | **10.08** |
| 4 | Nirman Bhawan | | | 5.04 | **5.04** |
| 5 | Dalhousie Road | | | 5.04 | **5.04** |
| | Total | | | | **30.24** |
| **3** | **RPH Station** | | 20 | 5.04 | **25.04** |
| 1 | Lahori Gate | | | 10.49 | **10.49** |
| 2 | Jama Masjid | | | 5.03 | **5.03** |
| 4 | Kamla Market | | | | |
| 5 | Minto Road | | | 10.9 | **10.9** |
| 6 | GB Pant Hosp | | | | |
| 7 | IG Stadium | | | | |
| | Total | | | | **51.46** |
| **4** | **Parkstreet S/stn** | 20 | 20 | | **40** |
| 1 | Shastri Park | | 10.896 | 5.45 | **16.35** |
| 2 | Faiz Road | | | 10.9 | **10.9** |
| 3 | Motia Khan | | | 16.3 | **16.3** |
| 4 | Prasad Nagar | | | 16.25 | **16.25** |
| 5 | Anand Parbat | | | 10.8 | **10.8** |
| 6 | Shankar Road | | | 5.04 | **5.04** |
| 7 | Rama Road | | | 14.4 | **14.4** |
| 8 | Baird Road | | | 10.08 | **10.08** |
| 9 | Hanuman Road | | | 5.04 | **5.04** |
| 10 | Pusa | | | 7.2 | **7.2** |
| 11 | Ridge Valley | | | | |
| 12 | SJ Airport | | | 5.04 | **5.04** |
| 13 | B. D. Marg | | | | |
| | Total | | | | **157.4** |

| Sl. No | SUB-STATION | INSTALLED CAPACITY IN MVAR | | | |
|---|---|---|---|---|---|
| | | 66KV | 33kV | 11kV | **TOTAL** |
| **5** | **Naraina S/stn** | | 20 | 5.04 | **25.04** |
| 1 | DMS | | | 10.85 | **10.85** |
| 2 | Mayapuri | | 10.87 | 5 | **15.87** |
| 3 | Inderpuri | | 13.26 | 5.04 | **18.3** |
| 4 | Rewari line | | | 7.2 | **7.2** |
| 5 | Khyber Lane | | | 5.04 | **5.04** |
| 6 | Kirbi Place | 10 | | 5.97 | **15.97** |
| 7 | Payal | | | 14.4 | **14.4** |
| | Total | | | | **112.7** |
| **6** | **Mehrauli S/stn** | 80 | | 5.04 | **85.04** |
| 1 | Adchini | | | 15.12 | **15.12** |
| 2 | Andheria Bagh | | | 10.85 | **10.85** |
| 3 | IIT | | | 10.9 | **10.9** |
| 4 | JNU | | 10.03 | 10.08 | **20.11** |
| 5 | Bijwasan | | | 10.08 | **10.08** |
| 6 | DC Saket | | 10.08 | 4.54 | **14.62** |
| 7 | Malviya Nagar | | | | |
| 8 | C Dot | | | 5.4 | **5.4** |
| 9 | Vasant kunj B-Blk | 21.79 | | 10.9 | **32.69** |
| 10 | Vasant kunj C-Blk | 20.16 | | 10.49 | **30.65** |
| 11 | Palam | | | | |
| 12 | IGNOU | | | | |
| 13 | R. K. Puram-I | | | 10.08 | **10.08** |
| 14 | Vasant Vihar | | | 15.12 | **15.12** |
| 15 | Pusp Vihar | | | 9.6 | **9.6** |
| 16 | Bhikaji Cama Place | | 10 | 10.08 | **20.08** |
| | Total | | | | **290.3** |
| **7** | **Vasantkunj S/stn** | 40 | | 5.04 | **45.04** |
| 1 | R. K. Puram-II | | | 7.2 | **7.2** |
| 2 | Vasant kunj C-Blk | | | | |
| 3 | Vasant kunj D-Blk | 20.16 | | 10.25 | **30.41** |
| 4 | Race Course | | | 5.04 | **5.04** |
| 5 | Bapu Dham | | | 10.08 | **10.08** |
| 6 | Nehru Park | | | 10 | **10** |
| 7 | Ridge Valley | | | | |
| | Total | | | | **107.8** |
| **8** | **Okhla S/stn** | 60 | 10 | 5.04 | **75.04** |
| 1 | Balaji | | | 7.2 | **7.2** |
| 2 | East of Kailash | | | 10 | **10** |
| 3 | Alaknanda | | | 16.25 | **16.25** |
| 4 | Malviya Nagar | 21.79 | 20.16 | 10.49 | **52.44** |
| 5 | Masjid Moth | | | 15.94 | **15.94** |
| 6 | Nehru Place | | | 21.35 | **21.35** |
| 7 | Okhla Ph-I | 21.79 | | 10.9 | **32.69** |
| 8 | Okhla Ph-II | | 20.93 | 15.53 | **36.46** |
| 9 | Shivalik | | | 10.9 | **10.9** |
| 10 | Batra | | | 15.8 | **15.8** |
| 11 | VSNL | | | 10.8 | **10.8** |
| 12 | Siri Fort | | | 10.49 | **10.49** |
| 13 | Tuglakabad | | | 10.8 | **10.8** |
| | Total | | | | **326.2** |

| Sl. No | SUB-STATION | INSTALLED CAPACITY IN MVAR | | | |
|---|---|---|---|---|---|
| | | 66KV | 33kV | 11kV | **TOTAL** |
| **9** | **Lodhi Road S/stn** | | 20 | | **20** |
| 1 | Defence Colony | | | 10.9 | **10.9** |
| 2 | Hudco | | | 10.9 | **10.9** |
| 4 | Lajpat Nagar | | | 10.9 | **10.9** |
| 5 | Nizamuddin | | | 10.49 | **10.49** |
| 6 | Vidyut Bhawan | | | | |
| 7 | Kidwai Nagar | | | 5.04 | **5.04** |
| 8 | Ex. Gr. II | | | | |
| 9 | IHC | | | | |
| | Total | | | | **68.23** |
| **10** | **Sarita Vihar S/stn** | 20 | | 5.04 | **25.04** |
| 1 | Sarita Vihar | | | 10.08 | **10.08** |
| 2 | MCIE | | | 10.06 | **10.06** |
| 3 | Mathura Road | 20.16 | | 10.08 | **30.24** |
| 4 | Jamia Millia | | | 5.4 | **5.4** |
| 5 | Sarai Julena | | 10.08 | 10.9 | **20.98** |
| | Total | | | | **101.8** |
| **11** | **South of Wazirabad** | | | | |
| 1 | Bhagirathi | | 10.03 | 10.9 | **20.93** |
| 2 | Ghonda | 21.79 | 22.56 | 15.94 | **60.29** |
| 3 | Seelam Pur | | 10.08 | 21.39 | **31.47** |
| 4 | Dwarkapuri | | | 15.46 | **15.46** |
| 5 | Nandnagri | 20.16 | | 16.35 | **36.51** |
| 6 | Yamuna Vihar | | | 10.8 | **10.8** |
| 7 | East of Loni Road | | | 10.8 | **10.8** |
| 8 | Shastri Park | | | 10.9 | **10.9** |
| 9 | Karawal Nagar | | | 5.4 | **5.4** |
| | Total | | | | **202.6** |
| **12** | **Geeta Colony** | | | | |
| 1 | Geeta Colony | | | 10.49 | **10.49** |
| 2 | Kanti Nagar | | | 10.9 | **10.9** |
| 3 | Kailash Nagar | | | 15.48 | **15.48** |
| 4 | Seelam Pur | | | | |
| 5 | Shakar Pur | | | | |
| | Total | | | | **36.87** |
| **13** | **Gazipur S/stn** | 40 | | 5.04 | **45.04** |
| 1 | Dallupura | 21.79 | | 10.9 | **32.69** |
| 2 | Vivek Vihar | | | 10.57 | **10.57** |
| 3 | GT Road | | | 10.85 | **10.85** |
| 4 | Kondli | 20.16 | | 10.85 | **31.01** |
| 5 | MVR-I | | | 10.9 | **10.9** |
| 6 | MVR-II | 20.16 | | 10.9 | **31.06** |
| 7 | PPG Ind. Area | | | 10.06 | **10.06** |
| | Total | | | | **182.2** |
| **14** | **Patparganj S/stn** | 40 | 20 | 5.04 | **65.04** |
| 1 | GH-I | 19.89 | | 10.45 | **30.34** |
| 2 | GH-II | 20.09 | | 10.9 | **30.99** |
| 3 | CBD | | 10.03 | 15.48 | **25.51** |
| 4 | Guru Angad Nagar | | | 15.49 | **15.49** |
| 5 | Karkadooma | | 10.08 | 10.44 | **20.52** |
| 6 | Preet Vihar | | | 10.07 | **10.07** |

| Sl. No | SUB-STATION | INSTALLED CAPACITY IN MVAR | | | |
|---|---|---|---|---|---|
| | | 66KV | 33kV | 11kV | **TOTAL** |
| 7 | CBD-II | | | 7.2 | **7.2** |
| 8 | Shakarpur | | | 5.4 | **5.4** |
| 9 | Jhilmil | | | 9 | **9** |
| 10 | Dilshad Garden | 20.16 | | 16.35 | **36.51** |
| 11 | Khichripur | 21.79 | | 10.49 | **32.28** |
| 12 | Mother Dairy | | | | |
| 13 | Scope Building | | | | |
| 14 | Vivek Vihar | | | | |
| 15 | Akhardham | | | 14.4 | **14.4** |
| | Total | | | | **302.8** |
| **15** | **Najafgarh S/stn** | 60 | | 5.04 | **65.04** |
| 1 | A4 Paschim Vihar | | | 10.9 | **10.9** |
| 2 | Nangloi | 21.73 | | 15.85 | **37.58** |
| 3 | Nangloi W/W | 20.89 | | 5.45 | **26.34** |
| 4 | Pankha Road | | | 15.69 | **15.69** |
| 5 | Jaffarpur | | | 15.49 | **15.49** |
| 7 | Inst. Area Janakpuri | | | 15.9 | **15.9** |
| 8 | Paschimpuri | | 10.05 | 15.53 | **25.58** |
| 9 | Paschim Vihar | 41.83 | | 15.44 | **57.27** |
| 10 | Mukherjee Park | | | 15.49 | **15.49** |
| 11 | Udyog Nagar | | | 10.04 | **10.04** |
| 12 | Choukhandi | | | 10.08 | **10.08** |
| | Total | | | | **305.4** |
| **16** | **Pappankalan-I S/stn** | 20 | | 5.04 | **25.04** |
| 1 | Bindapur | 21.73 | | 15.9 | **37.63** |
| 2 | Bodella-I | 20.1 | | 15.9 | **36** |
| 3 | Bodella-II | 21.73 | | 14.53 | **36.26** |
| 4 | DC Janakpuri | | | 10.04 | **10.04** |
| 5 | G-2 PPK | | | 10.9 | **10.9** |
| 6 | G-5 PPK | | | 15.53 | **15.53** |
| 7 | G-6 PPK | | | 5.45 | **5.45** |
| 8 | G-15 PPK | | | 10.08 | **10.08** |
| 9 | Harinagar | 21.18 | | 10.49 | **31.67** |
| | Total | | | | **218.6** |
| **17** | **BBMB Rohtak Road** | | | | |
| 1 | S.B. Mill | | | 10.08 | **10.08** |
| 2 | GTK Road | | | | **0** |
| 3 | Ram Pura | | | 12.24 | **12.24** |
| 4 | Rohtak Road | | | 10.08 | **10.08** |
| 5 | Vishal | | | 5.4 | **5.4** |
| 6 | Madipur | | | 10.43 | **10.43** |
| 7 | Sudershan Park | | | 10.08 | **10.08** |
| | Total | | | | **58.31** |
| **18** | **Shalimarbagh S/stn** | | 40 | 6 | **46** |
| 1 | S.G.T. Nagar | | | 13.15 | **13.15** |
| 2 | Wazirpur-1 | | | 20.7 | **20.7** |
| 3 | Wazirpur-2 | | | 14.4 | **14.4** |
| 4 | Shalimarbagh | | | | |
| 5 | Ashok Vihar | | | 20.35 | **20.35** |
| 6 | Rani Bagh | | | 14.4 | **14.4** |

| Sl. No | SUB-STATION | INSTALLED CAPACITY IN MVAR | | | |
|---|---|---|---|---|---|
| | | 66KV | 33kV | 11kV | **TOTAL** |
| 7 | Haiderpur | | | 13.15 | **13.15** |
| 8 | SMB FC | | | 7.2 | **7.2** |
| 9 | SMB KHOSLA | | | 7.2 | **7.2** |
| | Total | | | | **156.6** |
| **19** | **Subzimandi S/stn** | | | 6 | **6** |
| 1 | Shakti Nagar | | | 5.04 | **5.04** |
| 2 | Gulabibagh | | | 7.2 | **7.2** |
| 3 | Shahzadabagh | | | 19.44 | **19.44** |
| 4 | Tripolia | | | 14.4 | **14.4** |
| 5 | B. G. Road | | | | |
| | Total | | | | **52.08** |
| **20** | **Narela S/stn** | 40 | | 5.04 | **45.04** |
| 1 | A-7 Narela | | | 14.4 | **14.4** |
| 2 | AIR Kham pur | | | 13.15 | **13.15** |
| 3 | Badli | 20 | | 5.95 | **25.95** |
| 4 | DSIDC Narela | 20 | | 5.95 | **25.95** |
| 5 | DSIDC Narela-2 | | | 14.4 | **14.4** |
| 6 | Jahangirpuri | 20 | 20 | 5.95 | **45.95** |
| | Total | | | | **184.8** |
| **21** | **Gopalpur S/stn** | | 30 | 5.04 | **35.04** |
| 1 | Azad Pur | | | 21.6 | **21.6** |
| 2 | Hudson Lane | | | 5.95 | **5.95** |
| 3 | Wazirabad | | | 7.2 | **7.2** |
| 4 | Indra Vihar | | | 5.95 | **5.95** |
| 5 | Tri Nagar | | | 14.4 | **14.4** |
| 6 | GTK Road | | | 13.15 | **13.15** |
| 7 | Jahangirpuri | | | | **0** |
| 8 | Civil lines | | | 6 | **6** |
| 9 | DIFR | | | 7.2 | **7.2** |
| 10 | Delhi Univ. | | | 7.2 | **7.2** |
| 11 | Tiggipur | | | 14.4 | **14.4** |
| | Total | | | | **138.1** |
| **22** | **Rohini S/stn** | 40 | | 6 | **46** |
| 1 | Rohini Sec-24 Ckt-I | | | 14.4 | **14.4** |
| 2 | Rohini Sec-24 Ckt-II | 20 | | 14.4 | **34.4** |
| 3 | Rohini-1 | | | 7.2 | **7.2** |
| 4 | Rohini-2 | | | 13.15 | **13.15** |
| 5 | Rohini-3 | | | 5.95 | **5.95** |
| 6 | Rohini-4 | | | 13.15 | **13.15** |
| 7 | Rohini-5 | | | 13.15 | **13.15** |
| 8 | Rohini-6 | 20 | | 5.95 | **25.95** |
| 9 | Mangolpuri-1 | | | 20.35 | **20.35** |
| 10 | Mangolpuri-2 | 20 | | 5.04 | **25.04** |
| 11 | Saraswati Garden | | | 10.08 | **10.08** |
| 12 | Pitam Pura-1 | 20 | | 12.24 | **32.24** |
| 13 | Pitam Pura-2 | | | 12.24 | **12.24** |
| 14 | Pitam Pura-3 | | | 7.2 | **7.2** |
| 15 | Rohini DC-1 | | | 14.4 | **14.4** |
| | Total | | | | **294.9** |

| Sl. No | SUB-STATION | INSTALLED CAPACITY IN MVAR | | | |
|---|---|---|---|---|---|
| | | 66KV | 33kV | 11kV | **TOTAL** |
| **23** | **Kanjhawala S/stn** | 20 | | 5.04 | **25.04** |
| 1 | Bawana Clear Water | | | 14.4 | **14.4** |
| 2 | Pooth Khoord | | | 7.2 | **7.2** |
| 3 | Ghevra | | | 14.4 | **14.4** |
| | Total | | | | **61.04** |
| **24** | **BAWANA S/stn** | | | | |
| 1 | Bawana S/stn No. 6 | | | | **0** |
| 2 | Bawana S/stn No. 7 | | | | **0** |
| | Total | | | | **0** |
| **25** | **Kashmeregate S/stn** | | | 5.04 | **5.04** |
| 1 | Civil lines | | | 6 | **6** |
| 2 | Town Hall | | | 8.64 | **8.64** |
| 3 | Fountain | | | 5.45 | **5.45** |
| | Total | | | | **25.13** |
| **26** | **Pappankalan-II** | | | | |
| 1 | DMRC-I | | | | |
| 2 | DMRC-II | | | | |
| | Total | | | | |
| | **TOTAL CAPACITY** | | | | **3636** |

## 20 DETAILS OF BREAK-DOWNS DURING THE MONTH OF JANUARY 2013

| SL NO. | OCCURRENCE OF BREAK-DOWN | | DETAILS OF THE BREAKDOWN | TIME OF RESTORATION | | REMARKS |
|---|---|---|---|---|---|---|
| | DATE | TIME | | DATE | TIME | |
| | | | | | | |
| 01 | 02.01.13 | 08.48 | 220KV PANIPAT – NARELA CKT-I, II & III | 02.01.13 | 10.30 | SUPPLY FAILED FROM PANIPAT. NO TRIPPING AT NARELA. |
| | | | | | | |
| 02 | 03.01.13 | 04.30 | 220KV MANDOLA – WAZIRABAD CKT-IV | 03.01.13 | 05.22 | CKT. TRIPPED ON DIST PROT `R' PHASE ZONE-I AT MANDOLA AND ON DIST PROT ZONE-I, RXME18 AT WAZIRABAD. |
| | | | | | | |
| 03 | 04.01.13 | 12.10 | 220/66KV 100MVA PR. TR.-I AT PATPARGANJ | 04.01.13 | 12.58 | TR. TRIPPED ON O/C, 51AX, 86 |
| | | | | | | |
| 04 | 04.01.13 | 09.35 | 220/33KV 50MVA PR. TR.-I AT OKHLA | 04.01.13 | 13.44 | TR. TRIPPED ON 95C, 86, 96-I, 96II ALONG WITH ITS 33KV I/C |
| | | | | | | |
| 05 | 07.01.13 | 04.37 | 33/11KV 16MVA PR. TR-I AT NARAINA | 07.01.13 | 15.06 | TR. TRIPPED ON 86, 87 (DIFFERENTIAL). |
| | | | | | | |
| 06 | 07.01.13 | 03.50 | 220/66KV 100MVA PR. TR.-III AT NAJAFGARH | 07.01.13 | 18.02 | TR. TRIPPED ON BUCHHOLZ, 86 |
| | | | | | | |
| 07 | 07.01.13 | 06.55 | 66/11KV 20MVA PR. TR. AT PATPARGANJ | 07.01.13 | 08.55 | TR. TRIPPED ON 86, 30A, BUCHLOZ ALONG WITH ITS 11KV I/C WHICH TRIPPED ON INTER TRIPPING. |
| | | | | | | |
| 08 | 07.01.13 | 20.10 | 220/66KV 100MVA PR. TR.-I AT GAZIPUR | 07.01.13 | 20.50 | TR. TRIPPED WITHOUT INDICATION |
| | | | | | | |
| 09 | 08.01.13 | 16.09 | 400KV JHAJJAR – MUNDKA CKT-II | 08.01.13 | 16.42 | CKT. TRIPPED ON 86A, DIRECT TRIP, CHANNEL-I AT MUNDKA. |
| | | | | | | |
| 10 | 13.01.13 | 11.14 | 220/33KV 100MVA PR. TR.-IV AT OKHLA | 13.01.13 | 14.22 | TR. TRIPPED ON 86, MASTER CTR 86, 30A. |
| | | | | | | |
| 11 | 17.01.13 | 11.09 | 400KV BAWANA – DIPALPR CKT. | 17.01.13 | 11.34 | CKT. TRIPPED ON GROUP-A, 86A, CARRIER RELAY RX1, BS585Y, AUXILIARY RELAY 52X6 AT BAWANA. |
| | | | | | | |
| 12 | 17.01.13 | 23.11 | 400KV BAWANA – DIPALPUR CKT. | 18.01.13 | 07.35 | CKT. TRIPPED ON OVER VOLTAGE, DIRECT TRIP RECEIVED, AUTO TRIP AT BAWANA. |
| | | | | | | |
| 13 | 18.01.13 | 03.45 | 220/66KV 100MVA PR. TR.-II & III AT DSIDC | 18.01.13 | 04.08 | TR-II TRIPPED ON 86. AND TR-III TRIPPED ON O/C, E/F, 86 ALONG WITH 66KV I/C-II & III. 66KV I/C-II TRIPPED ON 96LBB AND 66KV I/C-III TRIPPED ON O/C, E/F, 86, 96. BOTH TR. CHARGED AT 04.08HRS. |
| | | | | | | |
| 14 | 18.01.13 | 12.27 | 220/33KV 100MVA PR. TR.-II AT GEETA COLONY | 18.01.13 | 15.46 | TR. TRIPPED ON 86, 30E, DIFFERENTIAL RYB, REF ALONG WITH ITS 33KV I/C-II. SPARKING OBSERVED ON `R' PHASE LA ON 33KV SIDE |
| | | | | | | |
| 15 | 18.01.13 | 17.43 | 220/33KV 100MVA PR. TR.-I AT IP | 18.01.13 | 19.50 | TR. TRIPPED ON E/F |
| | | | | | | |
| 16 | 19.01.13 | 17.03 | 220KV GOPALPUR – SUBZI MANDI CKT-I | 19.01.13 | 18.20 | CKT. TRIPPED ON DIST PROT `R' PHASE ZONE-I AT GOPALPUR AND ON 95ABC, 86 ABC-I AT SUBZI MANDI |
| | | | | | | |
| 17 | 19.01.13 | 17.03 | 220/33KV 100MVA PR. TR.-I AT SUBZI MANDI | 19.01.13 | 18.10 | TR. TRIPPED ON DIFFERENTIAL, E/F, 86 |
| | | | | | | |
| 18 | 19.01.13 | 19.38 | 220KV MAHRANI BAGH – LODHI ROAD CKT-I | 19.01.13 | 19.59 | CKT. TRIPPED ON FL-I, II, IL-II AT MAHARANI BAGH. NO TRIPPING AT LODHI ROAD. |
| | | | | | | |
| 19 | 22.01.13 | 12.00 | 220KV MEHRAULI – VASANT KUNJ CKT-I | 22.01.13 | 12.20 | CKT. TRIPPED ON DIST PROT ZONE-A, 186A&B AT MEHRAULI. NO TRIPPING AT VASANT KUNJ. |

| SL NO | OCCURRENCE OF BREAK-DOWN | | DETAILS OF THE BREAKDOWN | TIME OF RESTORATION | | REMARKS |
|---|---|---|---|---|---|---|
| | DATE | TIME | | DATE | TIME | |
| 20 | 23.01.13 | 03.06 | 400KV BAWANA – DIPALPUR CKT | 23.01.13 | 03.19 | CKT. TRIPPED ON 86, 85, RX 186 AT BAWANA. |
| | | | | | | |
| 21 | 25.01.13 | 15.23 | 220/33KV 100MVA PR. TR.-I AT IP | 25.0.13 | 17.18 | TR. TRIPPED ON SUDDEN PRESSE AND LOCK OUT. |
| | | | | | | |
| 22 | 28.01.13 | 16.49 | 400KV BAWANA – DIPALPUR CKT. | 28.01.13 | 17.10 | CKT. TRIPPED ON AUTO TRIP, 86B, 186A, 186A-2 AT BAWANA. |
| | | | | | | |
| 23 | 31.01.13 | 09.11 | 400KV MUNDKA – JHATIKARA CKT-II | 31.01.13 | 09.45 | CB-40352 TRIPPED ON DIR. TRIP, CHANNEL-I & II AT MUNDKA. |
| | | | | | | |
| 24 | 31.03.13 | 11.24 | 220/33KV 100MVA PR. TR.-IV AT OKHLA | 31.03.13 | 13.40 | TR. TRIPPED ON BUCHLOZ, 30A, CTR, 86 ALONG WITH 33KV I/C-IV WHICH TRIPPED ON 86 LV. |

## 20 DETAILS OF UNDER FREQUENCY RELAY OPERATIONS IN DELHI POWER SYSTEM DURING THE MONTH OF JANUARY 2013

| DATE | S. N. | TIME | | Name of Grid | NAME OF AFFECTED FEEDERS | LOAD RELIEF IN MW |
|---|---|---|---|---|---|---|
| | | OUT | IN | | | |
| | | | | | | |
| | | | | NIL | | |
| | | | | | | |