# DELHI TRANSCO LTD.

STATE LOAD DISPATCH CENTER

## PROGRESS REPORT

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NOV - 2019

# 1 SALIENT FEATURES OF DELHI POWER SYSTEM

| Sr. No. | Features | NOV. 2018 | NOV 2019 |
|---|---|---|---|
| 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 | 0 |
| | Rithala GT | 108 | 0 |
| | Bawana | 1372 | 1372 |
| | TOWMCL (Waste to Energy plant) | 16 | 16 |
| | EDWPCL (Waste to Energy plant) | 10 | 10 |
| | MSW BAWANA (Waste to Energy plant) | 24 | 24 |
| | Total | 2970 | 2157 |
| **2** | **Maximum Unrestricted Demand (MW)** | **3788** | **3161** |
| | Date | 02.11.2018 | 15.11.2019 |
| | Time | 18.21.11 | 10.46.00 |
| **3** | **Peak Demand met (MW)** | **3788** | **3161** |
| | Date | 02.11.2018 | 15.11.2019 |
| | Time | 18.21.11 | 10.46.00 |
| 4 | Peak Availability (MW) | 3654 | 3036 |
| 5 | Shortage (-) / Surplus (+) in MW | (-) 134 | (-)125 |
| 6 | Percentage Shortage (-) / Surplus (+) | (-) 3.54 | (-) 3.95 |
| 7 | Maximum Energy Consume in a day (Mus) | 71.267 | 70.709 |
| 8 | Energy Consumed during the month | **1837.778** | **1899.301** |
| **9** | **Load Shedding in Mus** | | |
| A) | Due to Grid Restrictions | | |
| i) | Under Frequency Relay Operations | 0.000 | 0.000 |
| 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 | 0.076 | 0.000 |
| | BRPL | 0.000 | 0.000 |
| | BYPL | 0.000 | 0.000 |
| | 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** | **0.076** | **0.000** |
| B) | Due to Constraints in System in Mus | | |
| | DTL | 0.153 | 0.558 |
| | NDPL | 0.031 | 0.022 |
| | BRPL | 0.164 | 0.124 |
| | BYPL | 0.024 | 0.004 |
| | NDMC | 0.000 | 0.000 |
| | MES | 0.000 | 0.000 |
| | Other Agencies | 0.000 | 0.002 |
| | **Total** | **0.372** | **0.710** |
| **11** | **Grand Total in Mus** | **0.448** | **0.710** |

## 2. PERFORMANCE OF GENERATING STATIONS WITHIN DELHI DURING NOV 2019

### A) For the month of Nov 2019

**All Figures in MUs**

| S. No | Stations | Gross Generation | Aux. Consumption | Net Generation | Availability (%) | Backing Down |
|---|---|---|---|---|---|---|
| **1.** | **RPH** | 0.00 | 0.117 | -0.117 | 0.00 | 0.00 |
| **2.** | **GT** | 29.150 | 1.368 | 27.782 | 87.58 | 137.42 |
| **3.** | **PPCL** | 116.179 | 2.405 | 113.782 | 99.67 | 115.52 |
| **4.** | **BTPS** | 0.00 | 0.427 | -0.427 | 0.00 | 0.00 |
| **5.** | **Rithala** | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| **6.** | **Bawana** | 275.076 | 10.194 | 264.882 | 92.07 | 618.57 |
| **7.** | **Towmcl** | 14.206 | 1.108 | 12.405 | -- | -- |
| **8.** | **EDWPCL** | 3.608 | 0.786 | 2.822 | -- | -- |
| **9.** | **DMSWL** | 12.559 | 2.074 | 10.485 | -- | -- |
| | **TOTAL** | **450.778** | **18.479** | **431.614** | **--** | **871.51** |

### B) For the Year 2019-20 (Upto Nov 2019)

| Power Station | Effective Capacity (MW) | Net Generation in MUs for Nov 2019 | Availability (%) for Nov 2019 | PLF (%) for Nov 2019 | Cumulative Generation in MUs upto Nov 2019 for the year 2019-20 | Cumulative Availability in % upto Nov 2019 for the year 2019-20 | Cumulative PLF in % upto Nov 2019 for the year 2019-20 |
|---|---|---|---|---|---|---|---|
| **RPH** | 135 | -0.117 | 0.00 | 0.00 | -1.000 | 0.00 | -0.07 |
| **GT** | 270 | 27.782 | 87.58 | 14.70 | 363.845 | 85.47 | 23.71 |
| **PPCL** | 330 | 113.782 | 99.67 | 49.54 | 1031.845 | 94.88 | 55.14 |
| **BTPS** | 705 | -0.427 | 0.00 | 0.00 | -4.744 | 0.00 | 0.00 |
| **Rithala** | 108 | 0.00 | 0.00 | 0.00 | 0.00 | **0.00** | 0.00 |
| **Bawana** | 1372 | 264.882 | 92.07 | 27.57 | 2759.803 | 85.85 | 35.73 |
| **Towmcl** | 16 | 12.405 | -- | 123.32 | 100.841 | -- | -- |
| **EDWPCL** | -- | 2.822 | -- | 41.76 | 19.539 | -- | -- |
| **DMSWL** | -- | 10.485 | -- | 72.68 | 84.126 | -- | -- |
| **TOTAL** | 2936 | **431.614** | **--** | **--** | **4354.255** | **--** | **--** |

## 3 DETAILS OF OUTAGES OF GENERATING STNS. WITHIN DELHI W.E.F. APRIL 2019

## (A) RPH

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 1 | 67.5 | 08.05.15 | 13.40 | Contd. | | Not in operation due to not meeting pollution norms. |

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 2 | 67.5 | 21.05.15 | 10.20 | Contd. | | Not in operation due to not meeting pollution norms. |

## (B) Gas Turbine

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 1 | 30 | 12.06.19 | 08.28 | 12.06.19 | 12.15 | unit tripped due to Electrical trouble normal shut down. |
| | | 09.08.19 | 12.47 | 09.08.19 | 15.45 | Unit tripped due to tripping of 66kV Switch yard. |
| | | 27.08.19 | 15.05 | 27.08.19 | 20.20 | Unit tripped due to tripping of generator. |
| | | 10.09.19 | 19.55 | 11.09.19 | 17.44 | Unit tripped due to rotating diode faulty. |
| | | 28.09.19 | 01.35 | 28.09.19 | 02.30 | Unit tripped due to field failure. |
| | | 22.10.19 | 10.00 | 08.11.19 | 19.15 | Hot gas path inspection. |
| | | 28.11.19 | 13.30 | 28.11.19 | 14.32 | Tripped due to failure of I/O Pack. |

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 2 | 30 | 01.06.19 | 16.45 | 01.06.19 | 20.00 | Unit tripped on Electrical trouble Normal shut down alarms. |
| | | 01.07.19 | 22.06 | 01.07.19 | 23.40 | Electrical trouble normal shutdown |
| | | 02.07.19 | 01.30 | 02.07.19 | 22.20 | Electrical trouble normal shutdown |
| | | 09.08.19 | 12.47 | 09.08.19 | 15.45 | Unit tripped due to tripping of 66kV Switch yard. |
| | | 30.09.19 | 06.42 | 30.09.19 | 08.05 | Unit tripped due to battery under voltage. |
| | | 11.10.19 | 09.00 | 19.10.19 | 15.30 | Combustion inspection. |

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 3 | 30 | 12.04.19 | 02.25 | 12.04.19 | 04.40 | Machine tripped due to fault occurred in high vibration pick up. |
| | | | | | | |

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 4 | 30 | Nil | | | | |

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 5 | 30 | 27.05.19 | 11.08 | 27.05.19 | 12.54 | Tripped due to Electrical trouble |

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 6 | 30 | 30.04.19 | 01.18 | 30.04.19 | 02.05 | Machine tripped due to malfunctioning of IP pack |
| | | 02.05.19 | 16.08 | 02.05.19 | 17.37 | Tripped due to failue of communication I/O pack. |
| | | 19.06.19 | 17.58 | 19.06.19 | 19.18 | Unit tripped on heavy jerk. |
| | | 21.07.19 | 16.16 | 21.07.19 | 17.55 | Electrical trouble. |

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| STG -1 | 30 | 09.04.19 | 08.00 | 28.05.19 | 20.32 | Major overhauling. |
| | | 01.06.19 | 21.15 | 02.06.19 | 19.15 | Machine out due ot axial shift problem. |
| | | 03.06.19 | 12.00 | 12.06.19 | 17.45 | |
| | | 09.08.19 | 12.47 | 10.08.19 | 22.30 | Unit tripped due to tripping of 66kV Switch yard. |
| | | 28.08.19 | 14.28 | 28.08.19 | 15.55 | Gen. differential trip. |
| | | 29.08.19 | 10.15 | 29.08.19 | 13.15 | Tripped on false alarm. |

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| STG -2 | 30 | 11.05.19 | 17.55 | 11.05.19 | 20.05 | Unit tripped due to Class A channel I&2 trip. |
| | | 05.06.19 | 02.14 | 05.06.19 | 04.01 | Unit tripped due to durm level disturbance. |
| | | 20.09.19 | 09.00 | 03.10.19 | 21.20 | Minor inspection. |

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| STG -3 | 30 | 05.04.19 | 01.15 | 05.04.19 | 02.15 | Machine triped on durm level very high. |
| | | 02.05.19 | 23.45 | 03.05.19 | 05.15 | Tripped due to faulty relay. |
| | | 07.06.19 | 21.55 | 08.06.19 | 02.04 | Unit tripped due to Hotwell level very high. Lube oil Press. LOW and Class A trip relay alarm also appeared. |
| | | 19.06.19 | 17.58 | 19.06.19 | 20.48 | Unit tripped on heavy jerk. |
| | | 12.07.19 | 10.50 | 12.07.19 | 12.08 | Low vaccume pressure |
| | | 15.07.19 | 16.55 | 15.07.19 | 17.29 | Tripped due to drum level very high. |
| | | 21.07.19 | 16.16 | 21.07.19 | 18.50 | Unit tripped with Unit #6 |
| | | 29.08.19 | 14.20 | 29.08.19 | 15.15 | Tripped due to drum level high |
| | | 11.09.19 | 07.01 | 11.09.19 | 07.50 | Unit tripped due to low vaccume |
| | | 19.10.19 | 19.35 | 19.10.19 | 20.25 | AVR Fuse failure |
| | | 20.10.19 | 13.50 | 20.10.19 | 15.07 | VT Fuse fail, Class A relay operation |
| | | 26.10.19 | 07.34 | 26.10.19 | 08.02 | |
| | | 30.10.19 | 10.23 | 30.10.19 | 11.11 | |
| | | 11.11.19 | 14.39 | 11.11.19 | 15.27 | Unit tripped oil pressure very low, VT Fuse failure. |

## (C) PRAGATI

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 1 | 104 | 01.04.19 | 00.00 | 05.04.19 | 08.04 | Stopped due to low demand and high frequency |
| | | 24.04.19 | 00.00 | 25.04.19 | 00.14 | |
| | | 25.04.19 | 00.47 | 01.05.19 | 16.54 | Not scheduled due to available in Open cycle. |
| | | 03.05.19 | 04.15 | 10.05.19 | 13.52 | Stopped due to low demand and high frequency |
| | | 17.05.19 | 22.30 | 29.05.19 | 12.32 | |
| | | 19.06.19 | 18.02 | 19.06.19 | 18.25 | Grid disturbance |
| | | 21.06.19 | 10.05 | 21.06.19 | 11.15 | Stopped to attend hot point by DTL. |
| | | 17.07.19 | 08.08 | 19.07.19 | 09.15 | Stopped due to low demand and high frequency |
| | | 19.07.19 | 09.15 | 19.07.19 | 18.00 | Change Air Filters |
| | | 19.07.19 | 18.00 | 20.07.19 | 11.11 | Stopped due to low demand and high frequency |
| | | 06.08.19 | 11.51 | 08.08.19 | 21.02 | |
| | | 10.08.19 | 00.00 | 27.08.19 | 18.19 | |
| | | 12.09.19 | 02.07 | 21.09.19 | 12.24 | |

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 2 | 104 | 05.04.19 | 17.03 | 22.04.19 | 21.19 | Stopped due to low demand and high frequency |
| | | 10.05.19 | 15.56 | 10.05.19 | 17.00 | GT-2 swapped with GT-1 |
| | | 10.05.19 | 17.00 | 10.05.19 | 18.00 | DC reduced for un wrapping inlet air filters. |
| | | 10.05.19 | 18.00 | 20.05.19 | 14.39 | Stopped due to low demand and high frequency |
| | | 18.06.19 | 00.08 | 19.06.19 | 14.37 | |
| | | 25.07.19 | 15.30 | 05.08.19 | 20.43 | |
| | | 30.08.19 | 13.06 | 10.09.19 | 20.43 | |
| | | 21.09.19 | 12.24 | 16.10.19 | 18.00 | Unit swapped by GT-#1 |
| | | 16.10.19 | 18.00 | 20.10.19 | 19.45 | Withdraw planned mtc |
| | | 20.10.19 | 19.45 | 20.11.19 | 06.39 | Stopped due to low demand and high frequency |
| | | 21.11.19 | 00.00 | 30.11.19 | 23.59 | |

| Unit No | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| STG | 122 | 01.04.19 | 00.00 | 01.04.19 | 08.15 | Unit stopped for MI |
| | | 14.04.19 | 16.50 | 15.04.19 | 04.45 | Attending governing system. |
| | | 03.05.19 | 01.34 | 03.05.19 | 04.02 | Internal fault |
| | | 17.05.19 | 22.30 | 20.05.19 | 17.57 | Stopped due to low demand and high frequency |
| | | 19.07.19 | 04.55 | 19.07.19 | 06.27 | Tripped due to grid disturbance |
| | | 30.07.19 | 09.10 | 30.07.19 | 10.06 | Internal fault |
| | | 05.09.19 | 14.40 | 05.09.19 | 19.11 | |
| | | 21.09.19 | 13.10 | 21.09.19 | 14.10 | |
| | | 26.10.19 | 09.09 | 26.10.19 | 10.17 | Tripped due to grid disturbance |

## (D) BAWANA CCGT POWER STATION

| Unit | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 1 | 216 | 01.05.19 | 10.00 | 01.05.19 | 12.00 | Transformer testing by PGCIL |
| | | 01.05.19 | 12.00 | 02.05.19 | 18.00 | |
| | | 26.06.19 | 10.09 | 26.06.19 | 11.22 | Machine Tripped on Guillotine damper feedback close . |
| | | 07.08.19 | 07.09 | 07.08.19 | 11.37 | Fault alarm appeared. |
| | | 07.09.19 | 06.05 | 07.09.19 | 12.10 | High DP. |
| | | 17.11.19 | 06.15 | 20.11.19 | 12.00 | |

| Unit | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 2 | 216 | 21.06.19 | 17.30 | 21.06.19 | 21.42 | Machine stopped for attending oil leakage in trip oil line. |
| | | 07.09.19 | 07.00 | 08.09.19 | 06.00 | High intake air filter fault. |
| | | 12.11.19 | 13.30 | 12.11.19 | 17.32 | GT#2 tripped on High exhaust spread due to cold zone in TTX 18-22 |
| | | 15.11.19 | 00.18 | 15.11.19 | 14.05 | Unit unloaded on high DP |

| Unit | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| STG-1 | 254 | 01.05.19 | 00.00 | 01.05.19 | 12.00 | Transformer testing by PGCIL |
| | | 15.05.19 | 07.42 | 18.05.19 | 12.00 | Dislodging of R phaee CT of excitation transformer from its base plate and filling on transformer enclosure was cause of tripping. |
| | | 11.06.19 | 13.35 | 11.06.19 | 15.41 | Machine Tripped on closure of HPMS-39. |
| | | 26.06.19 | 10.09 | 26.06.19 | 12.02 | Machine Tripped on Guillotine damper feedback close . |
| | | 04.08.19 | 16.25 | 04.08.19 | 23.40 | Tripped due to control oil leakage. |
| | | 07.08.19 | 12.35 | 07.08.19 | 12.35 | Unit tripped due to GT Unit f#3 tripped |
| | | 11.08.19 | 00.05 | 11.08.19 | 11.39 | Oil level very low, oil leakage. |
| | | 12.11.19 | 14.02 | 12.11.19 | 18.10 | Half of STG taken out of DC due trip of GT#2 |
| | | 15.11.19 | 00.18 | 15.11.19 | 14.05 | Half of STG taken out of DC due unloading of GT#2 |
| | | 17.11.19 | 06.15 | 20.11.19 | 12.00 | Half of STG taken out of DC due tripping of GT#1 |

| Unit | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 3 | 216 | 29.04.19 | 20.18 | 29.04.19 | 21.37 | Malfunctioning of compressor bleed valve brought machine on FSNL. |
| | | 02.05.19 | 12.16 | 02.05.19 | 12.54 | Machine came on FSNL itself due to problem in excitation. |
| | | 27.05.19 | 11.58 | 27.05.19 | 13.41 | Gas leakage |
| | | 03.08.19 | 13.31 | 03.08.19 | 13.31 | Tripped due to high DP |
| | | 17.08.19 | 10.00 | 17.08.19 | 18.00 | Boroscopic inspection by OEM. |
| | | 29.08.19 | 18.00 | 30.08.19 | 01.15 | Unit tripped due to generator proection. |
| | | 21.10.19 | 00.00 | 26.10.19 | 18.00 | Attended leakage of Hydrogen from Generator cooler,Seal oil system line modification work done. |

| Unit | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| 4 | 216 | 01.04.19 | 00.00 | 04.04.19 | 13.00 | Unit kept out due to leakage of pressure. |
| | | 04.04.19 | 13.00 | 08.04.19 | 20.00 | |
| | | 19.09.19 | 11.12 | 19.09.19 | 15.00 | Loss of flame. |
| | | 09.10.19 | 14.00 | 20.10.19 | 23.59 | Mastr Trip relay upgradation and diverter damper seal replacement & rectification. |

| Unit | Capacity in MW | Outage | | Synchronization | | Reason of Outage |
|---|---|---|---|---|---|---|
| | | Date | Time | Date | Time | |
| STG-2 | 254 | 01.04.19 | 00.00 | 04.04.19 | 13.00 | Replacement of R phase bushing of STGT Transformer. |
| | | 15.05.19 | 07.44 | 15.05.19 | 13.21 | Unit tripped on instantaneous high set element of stand by E/F protection of generator transformer |
| | | 27.05.19 | 11.58 | 27.05.19 | 14.00 | Gas leakage. |
| | | 03.07.19 | 22.30 | 04.07.19 | 16.30 | Oil leakage in JOP Line. |
| | | 26.07.19 | 12.15 | 26.07.19 | 13.33 | STG#2 tripped at 12:15 hrs.Fault in B-phase of ICT-2 of 400 KV, DTL led to heavy fault current which led to tripping of STG#2.Settings of overhead differential relays have been reviewd to avoid fault outside the zone of Transformer Protection. |
| | | 03.08.19 | 11.48 | 03.08.19 | 13.44 | Due tripping of GT-2 |
| | | 17.08.19 | 10.00 | 17.08.19 | 18.00 | Boroscopic inspection by OEM. |
| | | 29.08.19 | 18.00 | 30.08.19 | 01.15 | Unit tripped due to generator proection. |
| | | 09.10.19 | 14.00 | 14.10.19 | 06.00 | GT#4 under PO so half STG taken out from DC |
| | | 14.10.19 | 06.00 | 21.10.19 | 13.30 | Planned Outage of condenser cleaning |
| | | 21.10.19 | 13.30 | 26.10.19 | 18.00 | GT#3 under PO so half STG taken out from DC |
| | | 16.11.19 | 09.48 | 16.11.19 | 12.15 | Unit tripped on Generator stator earth fault protection |

## 4 ALLOCATION OF POWER TO DELHI

### A) Time block 00.00hrs. to 24.00hrs. @ 0% allocation from Unallocated Quota from 01.09.2019

| 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 | 134 | 0 | 0 | 134 |
| Rihand-I | 1000 | 150 | 100 | 89 | 0 | 0 | 89 |
| Rihand Stage -II | 1000 | 150 | 126 | 115 | 0 | 0 | 115 |
| Rihand Stage -III | 1000 | 150 | 132 | 120 | 0 | 0 | 120 |
| ANTA GPS | 419 | 63 | 44 | 41 | 0 | 0 | 41 |
| Auriya GPS | 663.36 | 99 | 72 | 68 | 0 | 0 | 68 |
| Dadri GPS | 829.78 | 129 | 91 | 86 | 0 | 0 | 86 |
| Dadri NCTPS (Th) | 840 | 0 | 756 | 668 | 0 | 0 | 668 |
| Dadri NCTPS (Th) Stage-II | 980 | 147 | 152 | 139 | 0 | 0 | 139 |
| 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 |
| Unchahaar-IV TPS | 500 | 75 | 0 | 0 | 0 | 0 | 0 |
| **TOTAL** | **10282** | **1377** | **1723** | **1546** | **0** | **0** | **1546** |
| **NHPC** | | | | | | | |
| Baira Suil HPS | 180 | 0 | 20 | 19 | 0 | 0 | 19 |
| Salal HPS | 690 | 0 | 80 | 77 | 0 | 0 | 77 |
| Tanakpur HEP | 94 | 0 | 12 | 12 | 0 | 0 | 12 |
| 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-I HEP | 480 | 0 | 53 | 51 | 0 | 0 | 51 |
| URI-II HEP | 240 | 0 | 32 | 31 | 0 | 0 | 31 |
| 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 |
| Parbati-III HEP | 520 | 66 | 66 | 63 | 0 | 0 | 63 |
| Singrauli small hydro | 8 | 0 | 1.53 | 1 | 0 | 0 | 1 |
| **TOTAL** | **4073** | **272** | **480** | **458** | **0** | **0** | **458** |
| **NPC** | | | | | | | |
| Narora APS | 440 | 64 | 47 | 40 | 0 | 0 | 40 |
| RAPP (C ) | 440 | 64 | 56 | 49 | 0 | 0 | 49 |
| **TOTAL** | **880** | **128** | **103** | **88** | **0** | **0** | **88** |
| **SJVNL** | | | | | | | |
| Nathpa Jhakri HEP | 1500 | 149 | 142 | 135 | 0 | 0 | 135 |
| **THDC** | | | | | | | |
| Tehri Hydro | 1000 | 99 | 63 | 60 | 0 | 0 | 60 |
| Koteshwar HEP | 400 | 40 | 39 | 38 | 0 | 0 | 38 |
| **TOTAL** | **1400** | **139** | **102** | **98** | **0** | **0** | **98** |
| **Total** | **18135** | **2065** | **2550** | **2326** | **0** | **0** | **2326** |
| **Allocation from ER and Tala HEP** | | | | | | | |
| Farakka | 1600 | 0 | 22 | 20 | 0 | 0 | 20 |
| Kahalgaon | 840 | 0 | 51 | 45 | 0 | 0 | 45 |
| Tala HEP | 1020 | 153 | 30 | 29 | 0 | 0 | 29 |
| Kahalgaon-II | 1500 | 0 | 157 | 139 | 0 | 0 | 139 |
| **Total ER** | **4960** | **153** | **261** | **232** | **0** | **0** | **232** |
| **Joint Venture** | | | | | | | |
| Jhajjar TPS | 1500 | 114 | 693 | 634 | 0 | 0 | 634 |
| Ultra Mega Projects | | | | | | | |
| Sasan | 3960 | 0 | 446 | 404 | 0 | 0 | 404 |
| **Grand Total** | **28555** | **2332** | **3949** | **3596** | **0** | **0** | **3596** |

## 5 ALLOCATION OF POWER TO DISCOMS

**A)** 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. 06.08.2013.

**(Allocation In % )**

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

| SOURCES | LICENSEES | | | | | |
|---|---|---|---|---|---|---|
| | NDMC | MES | NDPL | BRPL | BYPL | TOTAL |
| 1. Central Sector without Dadri (Th) | 0 | 0 | 29.18 | 43.58 | 27.24 | 100.00 |
| 2. Dadri (Th) | 16.63 | 0 | 24.22 | 36.86 | 22.39 | 100.00 |
| 3. BTPS | 17.73 | 7.09 | 21.81 | 33.2 | 20.17 | 100.00 |
| 4. RPH | 0 | 0 | 29.025 | 44.133 | 26.842 | 100.00 |
| 5. GT | 0 | 0 | 29.02 | 44.16 | 26.82 | 100.00 |
| 6. Pragati | 30.3 | 0 | 20.22 | 30.78 | 18.7 | 100.00 |
| 7. DVC | 0 | 0 | 29.18 | 43.58 | 27.24 | 100.00 |
| 8. BAWANA CCGT* | 7.30 | 1.82 | 20.688 | 30.888 | 19.304 | 80.00 |

**(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 | 0 | 29.18 | 43.58 | 27.24 | 100.00 |
| 2. Dadri (Th) | 16.53 | 0 | 24.22 | 36.86 | 22.39 | 100.00 |
| 3. BTPS | 17.73 | 7.09 | 21.81 | 33.2 | 20.17 | 100.00 |
| 4. RPH | 0 | 0 | 29.025 | 44.133 | 26.842 | 100.00 |
| 5. GT | 0 | 0 | 29.02 | 44.16 | 26.82 | 100.00 |
| 6. Pragati | 30.3 | 0 | 20.22 | 30.78 | 18.7 | 100.00 |
| 7. DVC | 0 | 0 | 29.18 | 43.58 | 27.24 | 100.00 |
| 8. BAWANA CCGT* | 7.30 | 1.82 | 20.688 | 30.888 | 19.304 | 80.00 |

* 20% POWER OF BAWANA CCGT ALLOCATED TO HARYANA (10%) & PUNJAB (10%)

## 6 POWER AVAILABILITY-DEMAND POSITION AT THE TIME OF PEAK DEMAND MET DURING NOVEMBER 2019

| 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 | Bawana | Townmcd | East Delhi | DMS WL | BTPS | Total | | | | | | |
| (1) | (2) | (3) | (4) | (5) | (7) | (8) | | | | (9)= (3) to (8) | (10) | (11) | (12)= (11) - (10) | (13)= (11)+ (12) | (14) | (15)= (13)+ (14) |
| 1 | 18.11.15 | 0 | 40 | 145 | 514 | 18 | -1 | 16 | 0 | 732 | 2781 | 2924 | -143 | 3513 | 0 | 3513 |
| 2 | 11.00.00 | 0 | 40 | 148 | 472 | 16 | 0 | 16 | 0 | 692 | 2567 | 2581 | -14 | 3259 | 0 | 3259 |
| 3 | 11.30.00 | 0 | 39 | 148 | 473 | 19 | 0 | 18 | 0 | 697 | 2419 | 2417 | 2 | 3116 | 5 | 3121 |
| 4 | 11.24.35 | 0 | 39 | 146 | 470 | 17 | 0 | 15 | 0 | 687 | 2872 | 2835 | 37 | 3559 | 1 | 3560 |
| 5 | 10.56.44 | 0 | 40 | 148 | 470 | 9 | 0 | 14 | 0 | 681 | 2835 | 2781 | 54 | 3516 | 21 | 3537 |
| 6 | 18.10.46 | 0 | 39 | 149 | 522 | 14 | 0 | 15 | 0 | 739 | 2861 | 2736 | 125 | 3600 | 0 | 3600 |
| 7 | 10.15.58 | 0 | 41 | 152 | 468 | 19 | 0 | 16 | 0 | 696 | 2741 | 2752 | -11 | 3437 | 0 | 3437 |
| 8 | 18.10.46 | 0 | 41 | 148 | 468 | 18 | 9 | 17 | 0 | 701 | 2777 | 2649 | 128 | 3478 | 0 | 3478 |
| 9 | 18.03.31 | 0 | 40 | 149 | 466 | 18 | 4 | 16 | 0 | 693 | 2495 | 2442 | 53 | 3188 | 0 | 3188 |
| 10 | 11.35.52 | 0 | 40 | 150 | 454 | 18 | 7 | 17 | 0 | 686 | 2442 | 2406 | 36 | 3128 | 0 | 3128 |
| 11 | 11.00.00 | 0 | 40 | 151 | 471 | 19 | 6 | 12 | 0 | 699 | 2536 | 2590 | -54 | 3235 | 0 | 3235 |
| 12 | 10.36.40 | 0 | 40 | 152 | 503 | 17 | 3 | 7 | 0 | 722 | 2531 | 2569 | -38 | 3253 | 0 | 3253 |
| 13 | 10.41.35 | 0 | 41 | 152 | 499 | 20 | 5 | 7 | 0 | 724 | 2624 | 2612 | 12 | 3348 | 0 | 3348 |
| 14 | 10.49.44 | 0 | 41 | 151 | 466 | 16 | 7 | 14 | 0 | 695 | 2785 | 2745 | 40 | 3480 | 0 | 3480 |
| 15 | 10.46.00 | 0 | 40 | 150 | 273 | 15 | 8 | 15 | 0 | 501 | 3130 | 3005 | 125 | 3631 | 0 | 3631 |
| 16 | 10.55.27 | 0 | 40 | 149 | 451 | 17 | 4 | 16 | 0 | 677 | 2596 | 2454 | 142 | 3273 | 0 | 3273 |
| 17 | 11.35.31 | 0 | 41 | 150 | 315 | 16 | 7 | 16 | 0 | 545 | 2708 | 2722 | -14 | 3253 | 0 | 3253 |
| 18 | 10.51.30 | 0 | 42 | 153 | 253 | 17 | 8 | 17 | 0 | 490 | 2865 | 2875 | -10 | 3355 | 0 | 3355 |
| 19 | 09.29.28 | 0 | 41 | 155 | 306 | 19 | 7 | 17 | 0 | 545 | 2856 | 2650 | 206 | 3401 | 0 | 3401 |
| 20 | 10.15.32 | 0 | 41 | 271 | 274 | 17 | 7 | 16 | 0 | 626 | 2814 | 2723 | 91 | 3440 | 0 | 3440 |
| 21 | 10.39.24 | 0 | 41 | 152 | 261 | 18 | 3 | 9 | 0 | 484 | 2919 | 2922 | -3 | 3403 | 0 | 3403 |
| 22 | 11.01.26 | 0 | 41 | 150 | 274 | 18 | 6 | 13 | 0 | 502 | 3044 | 2954 | 90 | 3546 | 0 | 3546 |
| 23 | 11.30.09 | 0 | 41 | 153 | 297 | 17 | 8 | 17 | 0 | 533 | 2840 | 2605 | 235 | 3373 | 0 | 3373 |
| 24 | 11.00.00 | 0 | 40 | 152 | 276 | 18 | 3 | 16 | 0 | 505 | 2824 | 2826 | -2 | 3329 | 0 | 3329 |
| 25 | 10.34.37 | 0 | 41 | 152 | 232 | 15 | 6 | 16 | 0 | 462 | 2943 | 2800 | 143 | 3405 | 0 | 3405 |
| 26 | 10.15.49 | 0 | 40 | 154 | 244 | 18 | 7 | 17 | 0 | 480 | 2936 | 2910 | 26 | 3416 | 0 | 3416 |
| 27 | 10.15.44 | 0 | 41 | 153 | 255 | 18 | 5 | 15 | 0 | 487 | 3012 | 2888 | 124 | 3499 | 0 | 3499 |
| 28 | 10.21.27 | 0 | 40 | 156 | 268 | 19 | -1 | 8 | 0 | 490 | 2952 | 2918 | 34 | 3442 | 0 | 3442 |
| 29 | 10.55.37 | 0 | 39 | 156 | 286 | 16 | -1 | 7 | 0 | 503 | 3069 | 2988 | 81 | 3572 | 0 | 3572 |
| 30 | 10.38.47 | 0 | 39 | 158 | 232 | 12 | -1 | 16 | 0 | 456 | 2949 | 2818 | 131 | 3405 | 0 | 3405 |
| | | | | | | | | | | | | | | | | |

## 7 POWER AVAILABILITY- DEMAND POSITION AT THE TIME OF MAXIMUM UNRESTRICTED DEMAND DURING NOVEMBER 2019

| 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 | Bawana | Townmcl | East Delhi | DMS WL | BTPS | Total | | | | | | |
| (1) | (2) | (3) | (4) | (5) | (7) | (8) | | | | (9)= (3) to (8) | (10) | (11) | (12)= (11) - (10) | (13)= (11)+ (12) | (14) | (15)= (13)+ (14) |
| 1 | 18.11.15 | 0 | 40 | 145 | 514 | 18 | -1 | 16 | 0 | 732 | 2781 | 2924 | -143 | 3513 | 0 | 3513 |
| 2 | 11.00.00 | 0 | 40 | 148 | 472 | 16 | 0 | 16 | 0 | 692 | 2567 | 2581 | -14 | 3259 | 0 | 3259 |
| 3 | 11.30.00 | 0 | 39 | 148 | 473 | 19 | 0 | 18 | 0 | 697 | 2419 | 2417 | 2 | 3116 | 5 | 3121 |
| 4 | 11.24.35 | 0 | 39 | 146 | 470 | 17 | 0 | 15 | 0 | 687 | 2872 | 2835 | 37 | 3559 | 1 | 3560 |
| 5 | 10.56.44 | 0 | 40 | 148 | 470 | 9 | 0 | 14 | 0 | 681 | 2835 | 2781 | 54 | 3516 | 21 | 3537 |
| 6 | 18.10.46 | 0 | 39 | 149 | 522 | 14 | 0 | 15 | 0 | 739 | 2861 | 2736 | 125 | 3600 | 0 | 3600 |
| 7 | 10.15.58 | 0 | 41 | 152 | 468 | 19 | 0 | 16 | 0 | 696 | 2741 | 2752 | -11 | 3437 | 0 | 3437 |
| 8 | 18.10.46 | 0 | 41 | 148 | 468 | 18 | 9 | 17 | 0 | 701 | 2777 | 2649 | 128 | 3478 | 0 | 3478 |
| 9 | 18.03.31 | 0 | 40 | 149 | 466 | 18 | 4 | 16 | 0 | 693 | 2495 | 2442 | 53 | 3188 | 0 | 3188 |
| 10 | 11.35.52 | 0 | 40 | 150 | 454 | 18 | 7 | 17 | 0 | 686 | 2442 | 2406 | 36 | 3128 | 0 | 3128 |
| 11 | 11.00.00 | 0 | 40 | 151 | 471 | 19 | 6 | 12 | 0 | 699 | 2536 | 2590 | -54 | 3235 | 0 | 3235 |
| 12 | 10.36.40 | 0 | 40 | 152 | 503 | 17 | 3 | 7 | 0 | 722 | 2531 | 2569 | -38 | 3253 | 0 | 3253 |
| 13 | 10.41.35 | 0 | 41 | 152 | 499 | 20 | 5 | 7 | 0 | 724 | 2624 | 2612 | 12 | 3348 | 0 | 3348 |
| 14 | 10.49.44 | 0 | 41 | 151 | 466 | 16 | 7 | 14 | 0 | 695 | 2785 | 2745 | 40 | 3480 | 0 | 3480 |
| 15 | 10.46.00 | 0 | 40 | 150 | 273 | 15 | 8 | 15 | 0 | 501 | 3130 | 3005 | 125 | 3631 | 0 | 3631 |
| 16 | 10.55.27 | 0 | 40 | 149 | 451 | 17 | 4 | 16 | 0 | 677 | 2596 | 2454 | 142 | 3273 | 0 | 3273 |
| 17 | 11.35.31 | 0 | 41 | 150 | 315 | 16 | 7 | 16 | 0 | 545 | 2708 | 2722 | -14 | 3253 | 0 | 3253 |
| 18 | 10.51.30 | 0 | 42 | 153 | 253 | 17 | 8 | 17 | 0 | 490 | 2865 | 2875 | -10 | 3355 | 0 | 3355 |
| 19 | 09.29.28 | 0 | 41 | 155 | 306 | 19 | 7 | 17 | 0 | 545 | 2856 | 2650 | 206 | 3401 | 0 | 3401 |
| 20 | 10.15.32 | 0 | 41 | 271 | 274 | 17 | 7 | 16 | 0 | 626 | 2814 | 2723 | 91 | 3440 | 0 | 3440 |
| 21 | 10.39.24 | 0 | 41 | 152 | 261 | 18 | 3 | 9 | 0 | 484 | 2919 | 2922 | -3 | 3403 | 0 | 3403 |
| 22 | 11.01.26 | 0 | 41 | 150 | 274 | 18 | 6 | 13 | 0 | 502 | 3044 | 2954 | 90 | 3546 | 0 | 3546 |
| 23 | 11.30.09 | 0 | 41 | 153 | 297 | 17 | 8 | 17 | 0 | 533 | 2840 | 2605 | 235 | 3373 | 0 | 3373 |
| 24 | 11.00.00 | 0 | 40 | 152 | 276 | 18 | 3 | 16 | 0 | 505 | 2824 | 2826 | -2 | 3329 | 0 | 3329 |
| 25 | 10.34.37 | 0 | 41 | 152 | 232 | 15 | 6 | 16 | 0 | 462 | 2943 | 2800 | 143 | 3405 | 0 | 3405 |
| 26 | 10.15.49 | 0 | 40 | 154 | 244 | 18 | 7 | 17 | 0 | 480 | 2936 | 2910 | 26 | 3416 | 0 | 3416 |
| 27 | 10.15.44 | 0 | 41 | 153 | 255 | 18 | 5 | 15 | 0 | 487 | 3012 | 2888 | 124 | 3499 | 0 | 3499 |
| 28 | 10.21.27 | 0 | 40 | 156 | 268 | 19 | -1 | 8 | 0 | 490 | 2952 | 2918 | 34 | 3442 | 0 | 3442 |
| 29 | 10.55.37 | 0 | 39 | 156 | 286 | 16 | -1 | 7 | 0 | 503 | 3069 | 2988 | 81 | 3572 | 0 | 3572 |
| 30 | 10.38.47 | 0 | 39 | 158 | 232 | 12 | -1 | 16 | 0 | 456 | 2949 | 2818 | 131 | 3405 | 0 | 3405 |
| | | | | | | | | | | | | | | | | |

## 8 SOURCEWISE SCHEDULED DRAWL FROM NORTHERN GRID AS WELL AS AVAILABILITY WITHIN DELHI FOR NOVEMBER 2019

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

| | |
|---|---|
| A (i) RPH | 0.000 |
| (ii) GT+STG | 29.150 |
| (iii) PRAGATI | 116.179 |
| (iv) RITHALA | 0.000 |
| (v) BAWANA CCGT | 275.076 |
| (vi) Timarpur – Okhla | 14.206 |
| EDWPCL | 3.608 |
| DMSWL | 12.559 |
| TOTAL | 450.778 |
| B) AVAILABILITY FROM BTPS | -0.427 |
| C) AUXILIARY CONSUMPTION OF GENERATING STNs. EXCLUDING BTPS | 18.745 |
| D) NET GENERATION AVAILABLE WITHIN DELHI(A+B-C) | **431.606** |

### 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 | 2.169 | 2.088 | 2.168 | 2.087 |
| SALAL | 18.096 | 17.493 | 18.096 | 17.493 |
| SASAN | 298.249 | 288.392 | 298.211 | 288.355 |
| TANKAPUR | 4.295 | 4.145 | 4.294 | 4.144 |
| CHAMERA | 5.901 | 5.705 | 5.901 | 5.705 |
| CHAMERA -II | 6.803 | 6.577 | 6.803 | 6.577 |
| CHAMERA -III | 4.202 | 4.063 | 4.202 | 4.063 |
| DHAULIGANGA | 6.497 | 6.266 | 6.497 | 6.266 |
| SEWA -2 | 2.473 | 2.389 | 2.473 | 2.389 |
| URI | 27.653 | 26.782 | 27.653 | 26.782 |
| URI-II | 18.287 | 17.716 | 18.287 | 17.716 |
| KOLDAM | 0.000 | 0.000 | 0.000 | 0.000 |
| KOTESHWAR | 6.886 | 6.639 | 6.886 | 6.639 |
| PARBATI3 | 2.505 | 2.422 | 2.505 | 2.422 |
| RAMPUR | 0.000 | 0.000 | 0.000 | 0.000 |
| ANTA (GAS) | 3.007 | 2.887 | 1.761 | 1.690 |
| ANTA (RLNG) | 26.080 | 25.089 | 0.035 | 0.034 |
| ANTA (LIQUID) | 0.009 | 0.009 | 0.000 | 0.000 |
| DADRI (GAS) | 14.740 | 14.346 | 9.591 | 9.334 |
| DADRI (RLNG) | 50.314 | 48.858 | 0.316 | 0.307 |
| DADRI (LIQUID) | 0.000 | 0.000 | 0.000 | 0.000 |
| AURAIYA (GAS) | 0.228 | 0.220 | 0.000 | 0.000 |
| AURAIYA (RLNG) | 48.884 | 47.017 | 0.000 | 0.000 |
| AURAIYA (LIQUID) | 0.000 | 0.000 | 0.000 | 0.000 |
| SINGRAULI | 89.915 | 85.988 | 84.877 | 81.162 |
| SINGRAULI_HYDRO | 0.000 | 0.000 | 0.000 | 0.000 |
| RIHAND -I | 37.343 | 35.725 | 34.968 | 33.449 |
| RIHAND -II | 85.012 | 81.296 | 82.563 | 78.952 |
| RIHAND -III | 89.010 | 86.067 | 87.147 | 84.264 |
| UNCHAHAR-I | 15.713 | 15.151 | 9.907 | 9.552 |
| UNCHAHAR-II | 30.588 | 29.494 | 19.041 | 18.359 |
| UNCHAHAR-III | 19.001 | 18.322 | 12.235 | 11.797 |
| UNCHAHAR-IV | 0.000 | 0.000 | 0.000 | 0.000 |
| DADRI (TH) | 496.295 | 482.201 | 92.873 | 90.296 |
| DADRI (TH) STAGE-II | 444.872 | 432.186 | 155.165 | 150.763 |
| TALCHER FOR AUX. OF BTPS | 1.112 | 1.069 | 1.127 | 1.084 |
| NAPP | 31.456 | 30.252 | 31.456 | 30.252 |
| RAPP 'B' | 0.000 | 0.000 | 0.000 | 0.000 |
| RAPP 'C' | 36.878 | 35.106 | 36.878 | 35.106 |
| NATHPA JHAKRI | 29.016 | 28.053 | 29.016 | 28.053 |
| DULASTI | 18.853 | 18.229 | 18.853 | 18.229 |
| TEHRI | 13.267 | 12.791 | 13.267 | 12.791 |
| JHAJJAR | 461.531 | 448.408 | 1.030 | 1.000 |

| 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 |
|---|---|---|---|---|
| KHELGAON | 26.032 | 25.457 | 19.892 | 19.450 |
| KHELGAON-II | 99.390 | 97.175 | 84.324 | 82.436 |
| FARAKA | 10.131 | 9.880 | 7.205 | 7.026 |
| TALA | 5.448 | 5.301 | 5.448 | 5.301 |
| DVC | 203.824 | 202.683 | 202.683 | 200.258 |
| TUTICORIN - BRPL | 7.684 | 7.599 | 7.599 | 7.505 |
| MADHYA PRADESH | 0.000 | 0.000 | 0.000 | 0.000 |
| UTTAR PRADESH | 0.000 | 0.000 | 0.000 | 0.000 |
| WEST BENGAL | 0.000 | 0.000 | 0.000 | 0.000 |
| SCLTPS (UP) | 0.000 | 0.000 | 0.000 | 0.000 |
| HARYANA | 0.000 | 0.000 | 0.000 | 0.000 |
| SEIL PROJECT(ANDHRA PRADESH) | 0.000 | 0.000 | 0.000 | 0.000 |
| MEGHALAYA | 1.839 | 1.832 | 1.832 | 1.810 |
| ANDHRA | 0.314 | 0.311 | 0.311 | 0.308 |
| KARNATAKA | 3.129 | 3.078 | 3.078 | 3.042 |
| PUNJAB | 0.000 | 0.000 | 0.000 | 0.000 |
| METHON POWER(NDPL)LT-06 | 157.616 | 156.752 | 156.752 | 154.914 |
| DVC MEJIA (LT-08)(BYPL) | 57.772 | 57.451 | 57.451 | 56.768 |
| Acme_RUMS | 9.357 | 9.273 | 9.273 | 9.164 |
| Arinsun_RUMS | 8.511 | 8.435 | 8.435 | 8.337 |
| Mahindra_RUMS | 4.362 | 4.322 | 4.322 | 4.269 |
| URS | 0.023 | 0.022 | 0.023 | 0.022 |
| JAMMU & KASHMIR | 9.222 | 9.067 | 9.067 | 8.960 |
| HIMACHAL PRADESH | 6.546 | 6.403 | 6.403 | 6.327 |
| RATNAGIRI GAS AND POWER PVT. LTD. (RGPPL) MAHARASHTRA | 0.000 | 0.000 | 0.000 | 0.000 |
| UTTRAKHAD | 35.581 | 34.893 | 34.893 | 34.480 |
| JP NIGREE | 0.000 | 0.000 | 0.000 | 0.000 |
| KWHEP (HP) | 0.000 | 0.000 | 0.000 | 0.000 |
| HIMACHAL PRADESH LT-59 DVC | 1.546 | 1.512 | 1.512 | 1.495 |
| HARYANA (LT-05) | 15.858 | 15.617 | 15.617 | 15.419 |
| MP(SOLAR RUMS) | 2.712 | 2.686 | 2.686 | 2.651 |
| HP TPDDL | 1.576 | 1.542 | 1.542 | 1.524 |
| NAGALAND | 0.860 | 0.858 | 0.858 | 0.847 |
| ODHISHA | 0.000 | 0.000 | 0.000 | 0.000 |
| ORISSA MT-20 JITPL -DVC | 5.562 | 5.504 | 5.504 | 5.439 |
| RAJASTHAN | 0.000 | 0.000 | 0.000 | 0.000 |
| JHARKHAND | 0.050 | 0.050 | 0.050 | 0.049 |
| RAJASTHAN(SOLAR) BRPL-LT36 | 2.824 | 2.762 | 2.762 | 2.730 |
| RAJASTHAN(SOLAR) BYPL - LT-35 | 2.811 | 2.750 | 2.750 | 2.718 |
| RAJASTHAN(SOLAR) TPDDL LT-31 | 2.803 | 2.742 | 2.742 | 2.709 |
| TO JHARKHAND | 0.000 | 0.000 | 0.000 | 0.000 |
| TO ANDHRA | -6.615 | -6.686 | -6.686 | -6.809 |
| TO UTTAR PRADESH | -6.977 | -7.185 | -7.185 | -7.316 |
| TO WEST BENGAL | 0.000 | 0.000 | 0.000 | 0.000 |
| TO UTTRAKHAND | -12.139 | -12.442 | -12.442 | -12.654 |
| TO VLCPP 1800 | 0.000 | 0.000 | 0.000 | 0.000 |
| TO ODISHA | 0.000 | 0.000 | 0.000 | 0.000 |
| TO MAHARASHTRA | -10.854 | -11.008 | -11.008 | -11.194 |
| TO GOA | -4.438 | -4.512 | -4.512 | -4.590 |
| TO CHATTISHGARH | 0.000 | 0.000 | 0.000 | 0.000 |
| TO DADAR & NAGAR HAVELI | 0.000 | 0.000 | 0.000 | 0.000 |
| BTPS TO MP | 0.000 | 0.000 | 0.000 | 0.000 |
| TO HIMACHAL PRADESH | -210.648 | -215.384 | -215.384 | -219.107 |
| TO GUJRAT | 0.000 | 0.000 | 0.000 | 0.000 |
| POWER EXCHANGE(IEX) | 178.112 | 175.979 | 178.112 | 175.979 |
| TO POWER EXCHANGE (IEX) | -82.228 | -83.616 | -82.228 | -83.616 |
| POWER EXCHANGE(PX) | 0.000 | 0.000 | 0.000 | 0.000 |
| TO POWER EXCHANGE (PX) | 0.000 | 0.000 | 0.000 | 0.000 |
| TO SHARE PROJECT (HARYANA) | -22.699 | -23.076 | -22.699 | -23.076 |
| TO SHARE PROJECT (PUNJAB) | -21.495 | -21.850 | -21.495 | -21.850 |
| | | | | |
| **TOTAL** | **2930.540** | **2835.615** | **1575.565** | **1518.838** |

## 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 | 1451.011 | 1404.855 | 590.478 | 569.958 |
| NTPC - ER | 135.554 | 132.511 | 111.420 | 108.912 |
| NHPC | 117.733 | 113.875 | 117.731 | 113.873 |
| NPC | 68.333 | 65.358 | 68.333 | 65.358 |
| SASAN | 298.249 | 288.392 | 298.211 | 288.355 |
| KOTESHWAR | 6.886 | 6.639 | 6.886 | 6.639 |
| NATHPA JHAKRI | 29.016 | 28.053 | 29.016 | 28.053 |
| TALCHER FOR AUX. OF BTPS | 1.112 | 1.069 | 1.127 | 1.084 |
| TEHRI | 13.267 | 12.791 | 13.267 | 12.791 |
| TALA | 5.448 | 5.301 | 5.448 | 5.301 |
| JHAJJAR | 461.531 | 448.408 | 1.030 | 1.000 |
| RAJASTHAN SOLAR(BRPL)T-36 | 2.824 | 2.762 | 2.762 | 2.730 |
| RAJASTHAN SOLAR(BYPL)T-35 | 2.811 | 2.750 | 2.750 | 2.718 |
| RAJASTHAN SOLAR(TPDDL)T-31 | 2.803 | 2.742 | 2.742 | 2.709 |
| DVC | 203.824 | 202.683 | 202.683 | 200.258 |
| TUTICORIN BRPL | 7.684 | 7.599 | 7.599 | 7.505 |
| MADHYA PRADESH | 0.000 | 0.000 | 0.000 | 0.000 |
| UTTAR PRADESH | 0.000 | 0.000 | 0.000 | 0.000 |
| WEST BENGAL | 0.000 | 0.000 | 0.000 | 0.000 |
| SCLTPS (UP) | 0.000 | 0.000 | 0.000 | 0.000 |
| HARYANA | 0.000 | 0.000 | 0.000 | 0.000 |
| SEIL PROJECT(ANDHRA PRADESH) | 0.000 | 0.000 | 0.000 | 0.000 |
| MEGHALAYA | 1.839 | 1.832 | 1.832 | 1.810 |
| ANDHRA | 0.314 | 0.311 | 0.311 | 0.308 |
| KARNATAKA | 3.129 | 3.078 | 3.078 | 3.042 |
| PUNJAB | 0.000 | 0.000 | 0.000 | 0.000 |
| METHON POWER (NDPL)-LT-06 | 157.616 | 156.752 | 156.752 | 154.914 |
| DVC MEJIA (LT-08)(BYPL) | 57.772 | 57.451 | 57.451 | 56.768 |
| Acme_RUMS | 9.357 | 9.273 | 9.273 | 9.164 |
| Arinsun_RUMS | 8.511 | 8.435 | 8.435 | 8.337 |
| Mahindra_RUMS | 4.362 | 4.322 | 4.322 | 4.269 |
| URS | 0.023 | 0.022 | 0.023 | 0.022 |
| JAMMU & KASHMIR | 9.222 | 9.067 | 9.067 | 8.960 |
| HIMACHAL PRADESH | 6.546 | 6.403 | 6.403 | 6.327 |
| RATNAGIRI GAS AND POWER PVT. LTD. (RGPPL) | 0.000 | 0.000 | 0.000 | 0.000 |
| UTTRAKHAND | 35.581 | 34.893 | 34.893 | 34.480 |
| JP NIGREE (MP) | 0.000 | 0.000 | 0.000 | 0.000 |
| KWHEP (HP) | 0.000 | 0.000 | 0.000 | 0.000 |
| HIMACHAL PRADESH LT-59 DVC | 1.546 | 1.512 | 1.512 | 1.495 |
| HARYANA (LT -05) | 15.858 | 15.617 | 15.617 | 15.419 |
| NAGALAND | 0.860 | 0.858 | 0.858 | 0.847 |
| ODISHA | 0.000 | 0.000 | 0.000 | 0.000 |
| ORISSA MT-20 JITPL -DVC | 5.562 | 5.504 | 5.504 | 5.439 |
| RAJASTHAN | 0.000 | 0.000 | 0.000 | 0.000 |
| JHARKHAND | 0.050 | 0.050 | 0.050 | 0.049 |
| MP(SOLAR RUMS) | 2.712 | 2.686 | 2.686 | 2.651 |
| HP TPDDL | 1.576 | 1.542 | 1.542 | 1.524 |
| POWER EXCHANGE(IEX) | 178.112 | 175.979 | 178.112 | 175.979 |
| POWER EXCHANGE(PX) | 0.000 | 0.000 | 0.000 | 0.000 |
| | | | | |
| **TOTAL** | **3308.632** | **3221.374** | **1959.204** | **1909.049** |

## 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 JHARKHAND | 0.000 | 0.000 | 0.000 | 0.000 |
| TO ANDHRA | -6.615 | -6.686 | -6.686 | -6.809 |
| TO UTTAR PRADESH | -6.977 | -7.185 | -7.185 | -7.316 |
| TO WEST BENGAL | 0.000 | 0.000 | 0.000 | 0.000 |
| TO VLCPP 1800 (RJ) | 0.000 | 0.000 | 0.000 | 0.000 |
| TO UTTRAKHAND | -12.139 | -12.442 | -12.442 | -12.654 |
| TO ORIDSHA | 0.000 | 0.000 | 0.000 | 0.000 |
| TO MAHARASHTRA | -10.854 | -11.008 | -11.008 | -11.194 |
| TO GOA | -4.438 | -4.512 | -4.512 | -4.590 |
| TO CHATTISHGARH | 0.000 | 0.000 | 0.000 | 0.000 |
| TO DADAR & NAGAR HAVELI | 0.000 | 0.000 | 0.000 | 0.000 |
| BTPS TO MP | 0.000 | 0.000 | 0.000 | 0.000 |
| TO HIMACHAL PRADESH | -210.648 | -215.384 | -215.384 | -219.107 |
| TO GUJRAT | 0.000 | 0.000 | 0.000 | 0.000 |
| TO POWER EXCHANGE (IEX) | -82.228 | -83.616 | -82.228 | -83.616 |
| TO POWER EXCHANGE (PX) | 0.000 | 0.000 | 0.000 | 0.000 |
| TO SHARE PROJECT (HARYANA) | -22.699 | -23.076 | -22.699 | -23.076 |
| TO SHARE PROJECT (PUNJAB) | -21.495 | -21.850 | -21.495 | -21.850 |
| | | | | |
| **TOTAL** | **-378.093** | **-385.760** | **-383.640** | **-390.211** |
| **TOTAL SCHEDULED DRAWAL FROM THE GRID** | **2930.540** | **2835.615** | **1575.565** | **1518.838** |

| | | |
|---|---|---|
| TOTAL CONSUMPTION INCLUDING AUX. OF GENERATING STNs. EXCLUDING BTPS | | 1918.046 |
| NET CONSUMPTION | | **1899.301** |
| AVAILABILITY WITHIN DELHI | | 431.606 |
| ACTUAL DRAWAL FROM THE GRID | | 1467.695 |
| OVER DRAWAL(+)/UNDER DRAWAL(-) FROM THE GRID ON THE BASIS OF SCHEDULED ALLOCATION MADE BY NRLDC TO DELHI AT PERIPHERY | | -51.143 |
| LOAD SHEDDING | | 0.710 |
| UNRESTRICTED DEMAND (GROSS) | | 1918.756 |
| UNRESTRICTED DEMAND (NET) | | 1900.011 |
| MAX. NET CONSUMPTION | | 70.709 ON 01.11.2019 |
| MAX. LOAD SHEDDING | | 190MW ON 18.11.2019 AT 06.41HRS. |
| **PEAK LOAD** | Peak Demand during the month | SHEDDING AT PEAK TIME |
| DAY PEAK | 3631MW AT 10.46.00 HRS ON 15.11.2019 | 0 MW |
| EVENING PEAK | 3600MW AT 18.10.46HRS ON 06.11..2019 | 0 MW |
| P.L.F. OF GENCO AND PRAGATI STNs. | RPH | 0.00% |
| | GT | 14.992% |
| | PRAGATI | 48.90% |
| | RITHALA | 0.00% |
| | BAWANA | 27.87% |
| | Timarpur Okhla | 123.32% |
| | EDWPCL | 41.76% |
| | DMSWL | 72.682% |

## 9 SHEDDING DETAILS DURING THE MONTH OF NOVEMBER 2019.

**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 | MES |
| | | BYPL | BRPL | | | | BYPL | BRPL | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7=3 to 6 | 8 | 9 | 10 | 11 | 12 |
| 01.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 02.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 03.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 04.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 05.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 06.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 07.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 08.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 09.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 10.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 11.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 12.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 13.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 14.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 15.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 16.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 17.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 18.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 19.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 21.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 22.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 23.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 24.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 25.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 26.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 27.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 28.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 29.Nov.19 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 30.Nov.19 | 0 | 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** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** |

ALL FIGURES IN MUs

| Date | Shedding due to Transmission/Grid Constraints in Central Sector Stations / TTC / ATC VOILATION | | | | DUE TO NEW GRID CODE REGULATION DEVIATOIN | | | Shedding due to Transmission/Grid Constraints in Central sector stations | | | | Total | Total shedding due to grid restrictions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BSES | | NDPL | NDMC | BSES | | | BSES | | TPDDL | NDMC | | |
| | BYPL | BRPL | | | BYPL | BRPL | TPDDL | BYPL | BRPL | | | | |
| | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24=8 to 23 | 25=7+24 |
| 01.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 02.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 03.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 04.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 05.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 06.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 07.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 08.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 09.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 10.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 11.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 12.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 13.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 14.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 15.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 16.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 17.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 18.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 19.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 20.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 21.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 22.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 23.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 24.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 25.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 26.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 27.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 28.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 29.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | **0.000** |
| 30.Nov.19 | 0.000 | 0.000 | 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** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** |

ALL FIGURES IN MUs

| Date | DUE TO T&D CONSTRAINTS IN DELHI SYSTEM | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | DTL | | | | | DISCOMS | | | |
| | BSES | | NDPL | NDMC | MES | BSES | | NDPL | NDMC |
| | BYPL | BRPL | | | | BYPL | BRPL | | |
| | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 |
| 01.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 | 0.000 |
| 02.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.008 | 0.000 | 0.000 |
| 03.Nov.19 | 0.000 | 0.000 | 0.002 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 | 0.000 |
| 04.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 | 0.003 | 0.000 |
| 05.Nov.19 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.004 | 0.000 | 0.000 |
| 06.Nov.19 | 0.008 | 0.001 | 0.055 | 0.000 | 0.000 | 0.000 | 0.0003 | 0.001 | 0.000 |
| 07.Nov.19 | 0.000 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 08.Nov.19 | 0.001 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.012 | 0.002 | 0.000 |
| 09.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 |
| 10.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.0002 | 0.0004 | 0.000 |
| 11.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 12.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.008 | 0.001 | 0.000 |
| 13.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.001 | 0.000 |
| 14.Nov.19 | 0.000 | 0.000 | 0.008 | 0.000 | 0.000 | 0.000 | 0.007 | 0.000 | 0.000 |
| 15.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 |
| 16.Nov.19 | 0.000 | 0.000 | 0.007 | 0.000 | 0.000 | 0.001 | 0.006 | 0.000 | 0.000 |
| 17.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 18.Nov.19 | 0.001 | 0.069 | 0.241 | 0.000 | 0.000 | 0.000 | 0.017 | 0.000 | 0.000 |
| 19.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 | 0.000 |
| 21.Nov.19 | 0.000 | 0.001 | 0.007 | 0.000 | 0.000 | 0.001 | 0.014 | 0.000 | 0.000 |
| 22.Nov.19 | 0.000 | 0.000 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.0001 | 0.000 |
| 23.Nov.19 | 0.0002 | 0.005 | 0.039 | 0.000 | 0.000 | 0.000 | 0.001 | 0.0004 | 0.000 |
| 24.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 |
| 25.Nov.19 | 0.000 | 0.000 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 |
| 26.Nov.19 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.0001 | 0.000 |
| 27.Nov.19 | 0.000 | 0.013 | 0.030 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 |
| 28.Nov.19 | 0.000 | 0.003 | 0.000 | 0.000 | 0.000 | 0.001 | 0.009 | 0.000 | 0.000 |
| 29.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.000 | 0.000 |
| 30.Nov.19 | 0.000 | 0.051 | 0.0001 | 0.000 | 0.000 | 0.000 | 0.012 | 0.007 | 0.000 |
| | | | | | | | | | |
| **TOTAL** | **0.013** | **0.148** | **0.397** | **0.000** | **0.000** | **0.004** | **0.124** | **0.022** | **0.000** |

ALL FIGURES IN MUs

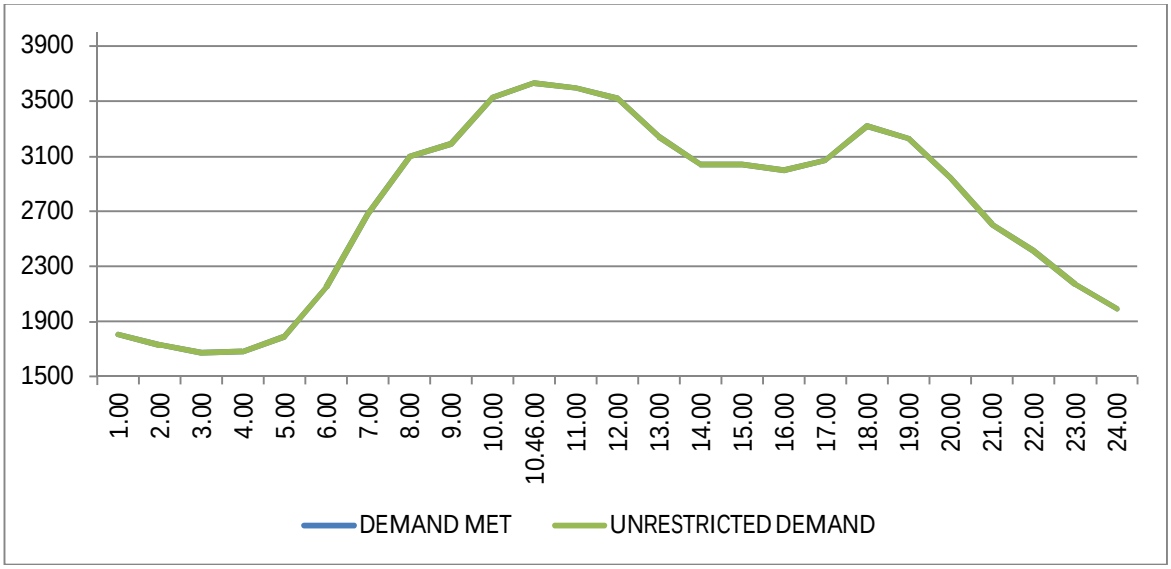
| DATE | OTHER AGENCIES LIKE GENCO, BBMB, BTPS ETC. | | | | THEFT PRONE SHEDDING | | | TOTAL SHEDDING DUE TO T&D CONSTS. & THEFT PRONE | GRAND TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| | BSES | | NDPL | NDMC | BSES | | NDPL | | |
| | BYPL | BRPL | | | BYPL | BRPL | | | |
| 1 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42= 26 to 41 | 43 = 25 + 42 |
| 01.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.002 |
| 02.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.008 | 0.008 |
| 03.Nov.19 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.016 | 0.0160 |
| 04.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.0040 | 0.004 |
| 05.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.006 | 0.006 |
| 06.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.065 | 0.065 |
| 07.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.003 |
| 08.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.017 | 0.017 |
| 09.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.002 |
| 10.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.001 |
| 11.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 12.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.009 | 0.009 |
| 13.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.002 |
| 14.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.015 | 0.015 |
| 15.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.002 |
| 16.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.014 | 0.014 |
| 17.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 18.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.328 | 0.328 |
| 19.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.002 |
| 21.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.023 | 0.023 |
| 22.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.006 | 0.006 |
| 23.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.046 | 0.0456 |
| 24.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.001 |
| 25.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.003 |
| 26.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.004 | 0.004 |
| 27.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.044 |
| 28.Nov.19 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.014 | 0.014 |
| 29.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.003 |
| 30.Nov.19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.070 |
| | | | | | | | | | |
| **TOTAL** | 0.000 | 0.000 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.710 | 0.710 |

| 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.Nov.19 | 70.709 | 3513 | 18:11:15 | 0 | 3513 | 3513 | 18:11:15 | 3513 | 0 |
| 02.Nov.19 | 66.261 | 3259 | 11:00:00 | 0 | 3259 | 3259 | 11:00:00 | 3259 | 0 |
| 03.Nov.19 | 61.933 | 3116 | 11:30:00 | 5 | 3121 | 3121 | 11:30:00 | 3116 | 5 |
| 04.Nov.19 | 66.732 | 3559 | 11:24:35 | 1 | 3560 | 3560 | 11:24:35 | 3559 | 1 |
| 05.Nov.19 | 67.169 | 3516 | 10:56:44 | 21 | 3537 | 3537 | 10:56:44 | 3516 | 21 |
| 06.Nov.19 | 67.141 | 3600 | 18:10:46 | 0 | 3600 | 3600 | 18:10:46 | 3600 | 0 |
| 07.Nov.19 | 66.044 | 3437 | 10:15:58 | 0 | 3437 | 3437 | 10:15:58 | 3437 | 0 |
| 08.Nov.19 | 66.167 | 3478 | 18:10:46 | 0 | 3478 | 3478 | 18:10:46 | 3478 | 0 |
| 09.Nov.19 | 61.906 | 3188 | 18:03:31 | 0 | 3188 | 3188 | 18:03:31 | 3188 | 0 |
| 10.Nov.19 | 59.010 | 3128 | 11:35:52 | 0 | 3128 | 3128 | 11:35:52 | 3128 | 0 |
| 11.Nov.19 | 62.111 | 3235 | 11:00:00 | 0 | 3235 | 3235 | 11:00:00 | 3235 | 0 |
| 12.Nov.19 | 59.952 | 3253 | 10:36:40 | 0 | 3253 | 3253 | 10:36:40 | 3253 | 0 |
| 13.Nov.19 | 63.763 | 3348 | 10:41:35 | 0 | 3348 | 3348 | 10:41:35 | 3348 | 0 |
| 14.Nov.19 | 64.285 | 3480 | 10:49:44 | 0 | 3480 | 3480 | 10:49:44 | 3480 | 0 |
| 15.Nov.19 | 65.536 | 3631 | 10:46:00 | 0 | 3631 | 3631 | 10:46:00 | 3631 | 0 |
| 16.Nov.19 | 60.926 | 3273 | 10:55:27 | 0 | 3273 | 3273 | 10:55:27 | 3273 | 0 |
| 17.Nov.19 | 59.323 | 3253 | 11:35:31 | 0 | 3253 | 3253 | 11:35:31 | 3253 | 0 |
| 18.Nov.19 | 61.052 | 3355 | 10:51:30 | 0 | 3355 | 3355 | 10:51:30 | 3355 | 0 |
| 19.Nov.19 | 63.106 | 3410 | 9:29:28 | 0 | 3410 | 3410 | 9:29:28 | 3410 | 0 |
| 20.Nov.19 | 63.920 | 3440 | 10:15:32 | 0 | 3440 | 3440 | 10:15:32 | 3440 | 0 |
| 21.Nov.19 | 62.939 | 3403 | 10:39:24 | 0 | 3403 | 3403 | 10:39:24 | 3403 | 0 |
| 22.Nov.19 | 63.953 | 3546 | 11:01:26 | 0 | 3546 | 3546 | 11:01:26 | 3546 | 0 |
| 23.Nov.19 | 61.254 | 3373 | 11:30:09 | 0 | 3373 | 3373 | 11:30:09 | 3373 | 0 |
| 24.Nov.19 | 58.960 | 3329 | 11:00:00 | 0 | 3329 | 3329 | 11:00:00 | 3329 | 0 |
| 25.Nov.19 | 62.416 | 3405 | 10:34:37 | 0 | 3405 | 3405 | 10:34:37 | 3405 | 0 |
| 26.Nov.19 | 63.225 | 3416 | 10:15:49 | 0 | 3416 | 3416 | 10:15:49 | 3416 | 0 |
| 27.Nov.19 | 63.742 | 3499 | 10:15:44 | 0 | 3499 | 3499 | 10:15:44 | 3499 | 0 |
| 28.Nov.19 | 62.154 | 3442 | 10:21:27 | 0 | 3442 | 3442 | 10:21:27 | 3442 | 0 |
| 29.Nov.19 | 63.203 | 3572 | 10:55:37 | 0 | 3572 | 3572 | 10:55:37 | 3572 | 0 |
| 30.Nov.19 | 60.409 | 3405 | 10:38:47 | 0 | 3405 | 3405 | 10:38:47 | 3405 | 0 |
| | | | | | | | | | |
| TOTAL | 1899.301 | 3631<br>15.11.19 | 10:46 | 0 | 3631<br>15.11.19 | 3631 | 10:46:00 | 3631 | 0 |

## 10 LOAD PATTERN OF DELHI ON THE DAY OF PEAK DEMAND MET DURING NOVEMBER 2019 ON 15.11.2019- 3631MW AT 10.46.00HRS.

**All figures in MW**

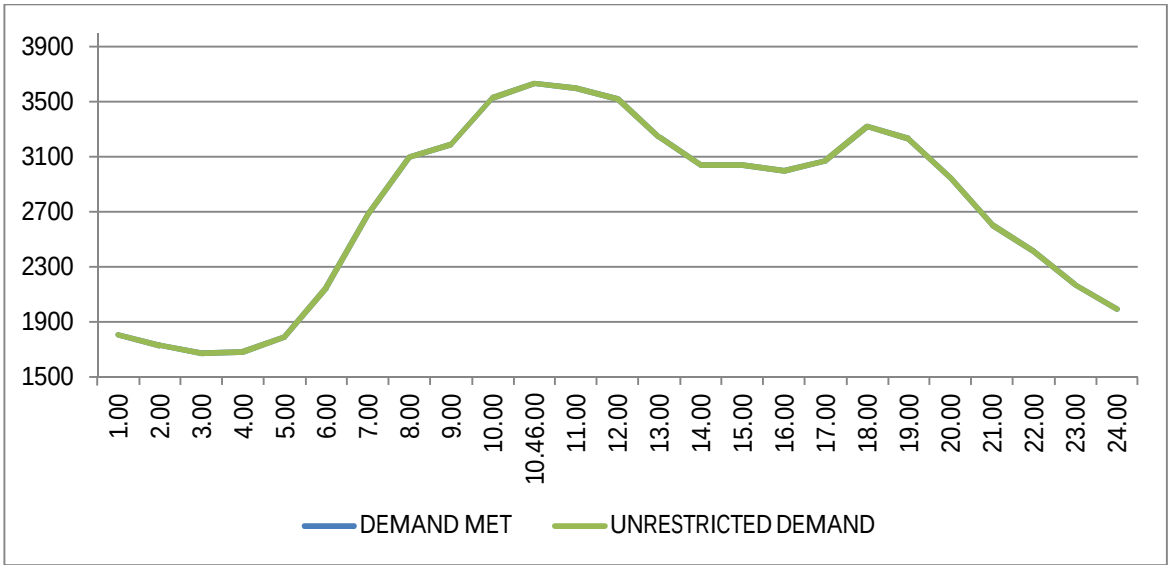
| Hrs. | Demand | Load Shedding | Un-Restricted Demand |
|---|---|---|---|
| 1.00 | 1804 | 0 | 1804 |
| 2.00 | 1728 | 0 | 1728 |
| 3.00 | 1672 | 0 | 1672 |
| 4.00 | 1680 | 0 | 1680 |
| 5.00 | 1790 | 0 | 1790 |
| 6.00 | 2145 | 0 | 2145 |
| 7.00 | 2681 | 0 | 2681 |
| 8.00 | 3100 | 0 | 3100 |
| 9.00 | 3190 | 0 | 3190 |
| 10.00 | 3526 | 0 | 3526 |
| 10.46.00 | 3631 | 0 | 3631 |
| 11.00 | 3595 | 0 | 3595 |
| 12.00 | 3517 | 0 | 3517 |
| 13.00 | 3243 | 0 | 3243 |
| 14.00 | 3037 | 0 | 3037 |
| 15.00 | 3037 | 0 | 3037 |
| 16.00 | 2996 | 0 | 2996 |
| 17.00 | 3069 | 0 | 3069 |
| 18.00 | 3320 | 0 | 3320 |
| 19.00 | 3230 | 0 | 3230 |
| 20.00 | 2946 | 0 | 2946 |
| 21.00 | 2606 | 0 | 2606 |
| 22.00 | 2414 | 0 | 2414 |
| 23.00 | 2168 | 0 | 2168 |
| 24.00 | 1995 | 0 | 1995 |
| Total (IN MUS) | 65.536 | 0.002 | 65.538 |
| | | | |



## 11 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UN-RESTRICTED DEMAND DURING NOVEMBER 2019 ON 15.11.2019- 3631MW AT 10.46.00HRS.

**All figures in MW**

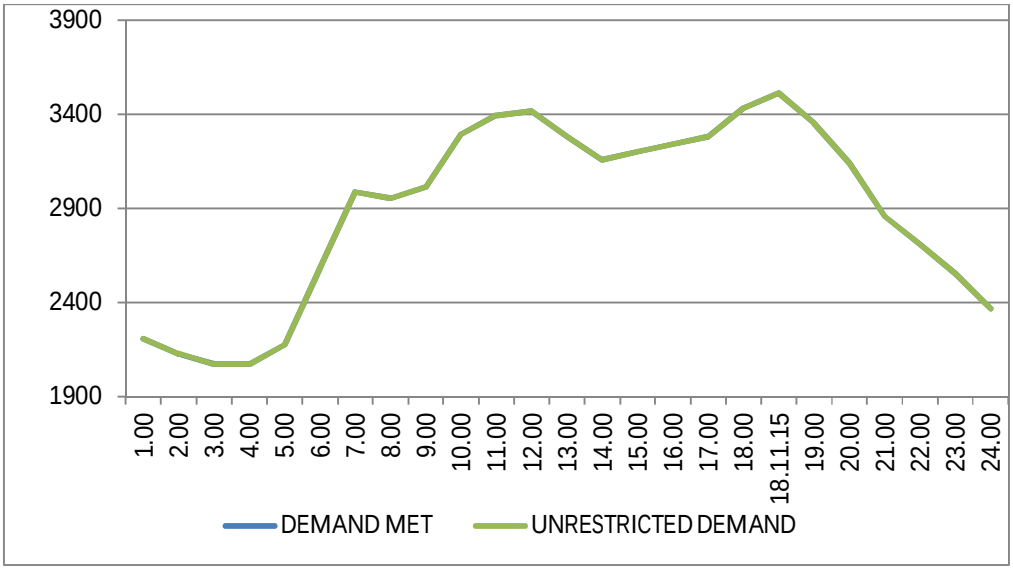
| Hrs. | Demand | Load Shedding | Un-Restricted Demand |
|---|---|---|---|
| 1.00 | 1804 | 0 | 1804 |
| 2.00 | 1728 | 0 | 1728 |
| 3.00 | 1672 | 0 | 1672 |
| 4.00 | 1680 | 0 | 1680 |
| 5.00 | 1790 | 0 | 1790 |
| 6.00 | 2145 | 0 | 2145 |
| 7.00 | 2681 | 0 | 2681 |
| 8.00 | 3100 | 0 | 3100 |
| 9.00 | 3190 | 0 | 3190 |
| 10.00 | 3526 | 0 | 3526 |
| 10.46.00 | 3631 | 0 | 3631 |
| 11.00 | 3595 | 0 | 3595 |
| 12.00 | 3517 | 0 | 3517 |
| 13.00 | 3243 | 0 | 3243 |
| 14.00 | 3037 | 0 | 3037 |
| 15.00 | 3037 | 0 | 3037 |
| 16.00 | 2996 | 0 | 2996 |
| 17.00 | 3069 | 0 | 3069 |
| 18.00 | 3320 | 0 | 3320 |
| 19.00 | 3230 | 0 | 3230 |
| 20.00 | 2946 | 0 | 2946 |
| 21.00 | 2606 | 0 | 2606 |
| 22.00 | 2414 | 0 | 2414 |
| 23.00 | 2168 | 0 | 2168 |
| 24.00 | 1995 | 0 | 1995 |
| Total (IN MUS) | 65.536 | 0.002 | 65.538 |



## 12 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM ENERGY CONSUMED DURING NOVEMBER 2019 – 01.11.2019 – 70.709Mus

**All figures in MW**

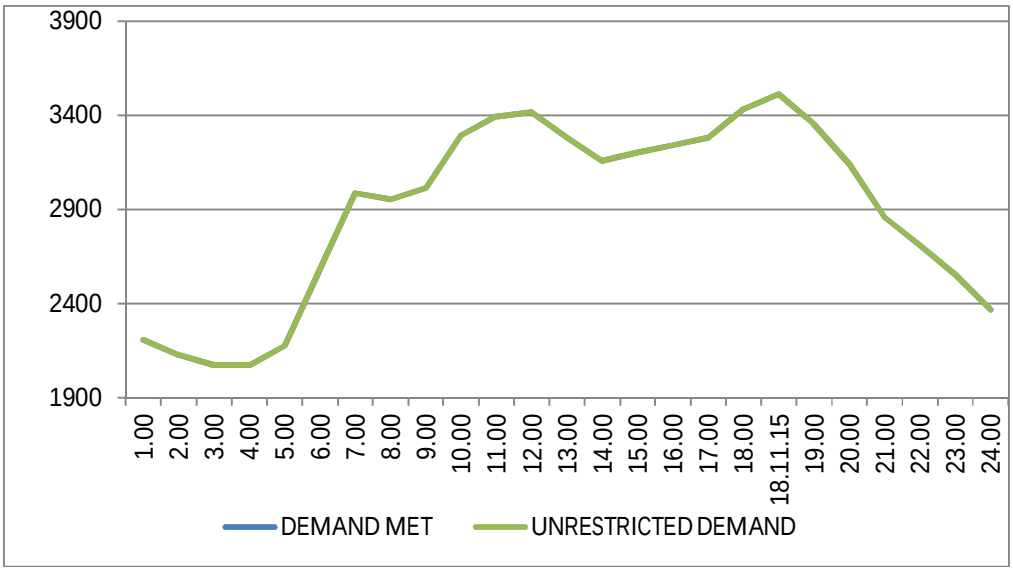
| Hrs. | Demand | Load Shedding | Un-Restricted Demand |
|---|---|---|---|
| 1.00 | 2206 | 0 | 2206 |
| 2.00 | 2127 | 1 | 2128 |
| 3.00 | 2073 | 0 | 2073 |
| 4.00 | 2072 | 0 | 2072 |
| 5.00 | 2176 | 0 | 2176 |
| 6.00 | 2584 | 0 | 2584 |
| 7.00 | 2986 | 0 | 2986 |
| 8.00 | 2952 | 0 | 2952 |
| 9.00 | 3014 | 0 | 3014 |
| 10.00 | 3295 | 0 | 3295 |
| 11.00 | 3394 | 0 | 3394 |
| 12.00 | 3417 | 0 | 3417 |
| 13.00 | 3281 | 0 | 3281 |
| 14.00 | 3158 | 0 | 3158 |
| 15.00 | 3200 | 0 | 3200 |
| 16.00 | 3240 | 0 | 3240 |
| 17.00 | 3280 | 0 | 3280 |
| 18.00 | 3434 | 0 | 3434 |
| 18.11.15 | 3513 | 0 | 3513 |
| 19.00 | 3352 | 0 | 3352 |
| 20.00 | 3139 | 0 | 3139 |
| 21.00 | 2856 | 0 | 2856 |
| 22.00 | 2708 | 0 | 2708 |
| 23.00 | 2551 | 0 | 2551 |
| 24.00 | 2368 | 0 | 2368 |
| **Total (IN MUS)** | **70.709** | **0.002** | **70.711** |



## 13 LOAD PATTERN OF DELHI ON THE DAY OF MAXIMUM UNRESTRICTED ENERGY DEMAND DURING NOVEMBER 2019 – 01.11.2019 – 70.711Mus

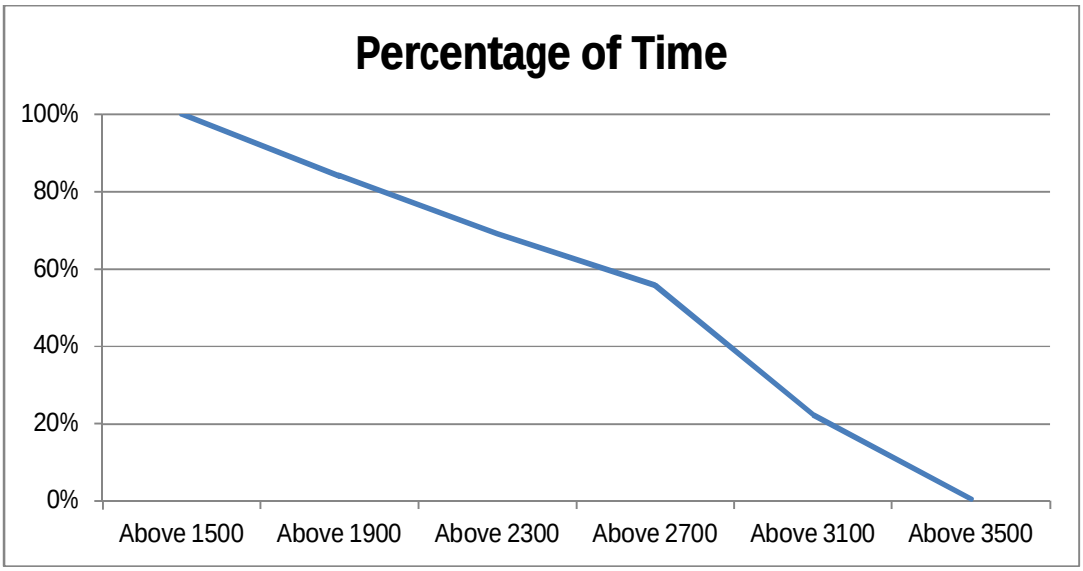
**All figures in MW**

| Hrs. | Demand | Load Shedding | Un-Restricted Demand |
|---|---|---|---|
| 1.00 | 2206 | 0 | 2206 |
| 2.00 | 2127 | 1 | 2128 |
| 3.00 | 2073 | 0 | 2073 |
| 4.00 | 2072 | 0 | 2072 |
| 5.00 | 2176 | 0 | 2176 |
| 6.00 | 2584 | 0 | 2584 |
| 7.00 | 2986 | 0 | 2986 |
| 8.00 | 2952 | 0 | 2952 |
| 9.00 | 3014 | 0 | 3014 |
| 10.00 | 3295 | 0 | 3295 |
| 11.00 | 3394 | 0 | 3394 |
| 12.00 | 3417 | 0 | 3417 |
| 13.00 | 3281 | 0 | 3281 |
| 14.00 | 3158 | 0 | 3158 |
| 15.00 | 3200 | 0 | 3200 |
| 16.00 | 3240 | 0 | 3240 |
| 17.00 | 3280 | 0 | 3280 |
| 18.00 | 3434 | 0 | 3434 |
| 18.11.15 | 3513 | 0 | 3513 |
| 19.00 | 3352 | 0 | 3352 |
| 20.00 | 3139 | 0 | 3139 |
| 21.00 | 2856 | 0 | 2856 |
| 22.00 | 2708 | 0 | 2708 |
| 23.00 | 2551 | 0 | 2551 |
| 24.00 | 2368 | 0 | 2368 |
| **Total (IN MUS)** | **70.709** | **0.002** | **70.711** |



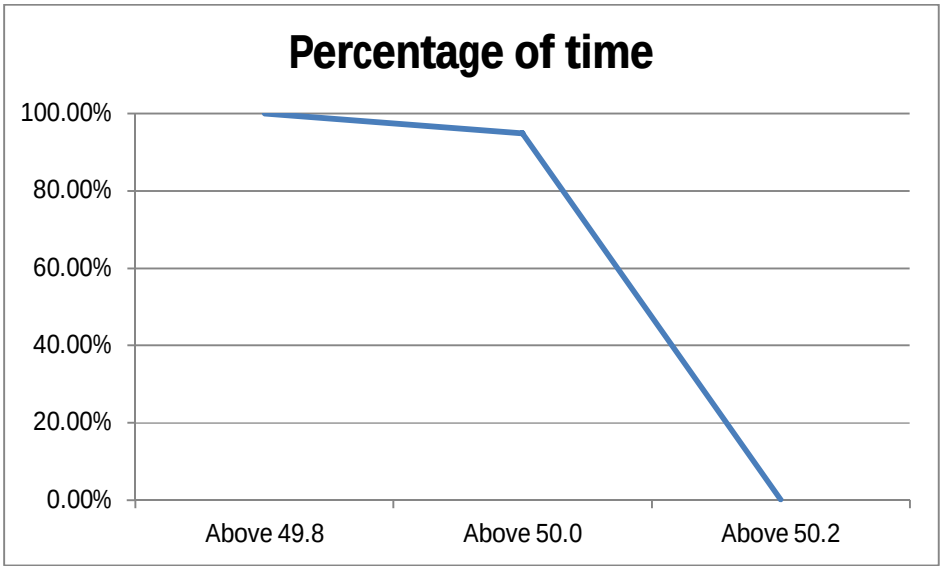
## 14 LOAD DURATION CURVE FOR NOVEMBER 2019

| Load in MW | Percentage of Time |
|---|---|
| Above 1500 | 100% |
| Above 1900 | 84.16% |
| Above 2300 | 69.20% |
| Above 2700 | 55.86% |
| Above 3100 | 22.29% |
| Above 3500 | 0.55% |



## 15 FREQUENCY ANALYSIS FOR THE MONTH OF NOVEMBER 2019

| Frequency Range in Hz. | Percentage of time |
|---|---|
| Above 49.8 | 100.00% |
| Above 50.0 | 94.96% |
| Above 50.2 | 0.06% |



## 16 VOLTAGE PROFILE OF 220 KV SUB-STATIONS IN DELHI DURING NOVEMBER 2019

**All figures in kV**

| Date | NARELA | | GAZIPUR | |
|---|---|---|---|---|
| | Max | Min | Max | Min |
| 01.Nov.19 | 237.94 | 228.01 | 240.26 | 228.53 |
| 02.Nov.19 | 238.97 | 227.37 | 240.91 | 228.66 |
| 03.Nov.19 | 238.59 | 228.53 | 239.62 | 228.53 |
| 04.Nov.19 | 238.85 | 228.14 | 240.14 | 227.24 |
| 05.Nov.19 | 238.97 | 225.69 | 240.14 | 224.92 |
| 06.Nov.19 | 237.94 | 226.34 | 240.14 | 227.37 |
| 07.Nov.19 | 239.23 | 228.27 | 240.78 | 230.21 |
| 08.Nov.19 | 239.75 | 223.11 | 241.04 | 222.85 |
| 09.Nov.19 | 239.23 | 224.66 | 239.75 | 224.27 |
| 10.Nov.19 | 240.14 | 228.92 | 240.78 | 230.21 |
| 11.Nov.19 | 239.88 | 225.05 | 240.91 | 224.66 |
| 12.Nov.19 | 239.49 | 223.11 | 240.14 | 222.08 |
| 13.Nov.19 | 239.75 | 225.3 | 239.88 | 225.05 |
| 14.Nov.19 | 240.14 | 224.66 | 240.78 | 224.92 |
| 15.Nov.19 | 242.33 | 223.11 | 243.1 | 224.27 |
| 16.Nov.19 | 240.39 | 226.59 | 240.91 | 226.34 |
| 17.Nov.19 | 240.78 | 228.79 | 240.52 | 230.72 |
| 18.Nov.19 | 240.14 | 224.4 | 241.43 | 226.72 |
| 19.Nov.19 | 234.72 | 221.18 | 241.68 | 226.21 |
| 20.Nov.19 | 236.91 | 223.37 | 240.91 | 227.63 |
| 21.Nov.19 | 235.11 | 220.53 | 241.17 | 225.95 |
| 22.Nov.19 | 233.43 | 217.82 | 240.26 | 223.63 |
| 23.Nov.19 | 234.72 | 225.95 | 240.91 | 227.5 |
| 24.Nov.19 | 234.59 | 221.56 | 240.52 | 228.27 |
| 25.Nov.19 | 235.23 | 219.89 | 241.68 | 225.3 |
| 26.Nov.19 | 234.33 | 223.11 | 241.68 | 228.27 |
| 27.Nov.19 | 235.11 | 218.6 | 241.68 | 224.66 |
| 28.Nov.19 | 235.62 | 223.63 | 242.33 | 230.21 |
| 29.Nov.19 | 235.23 | 220.4 | 241.81 | 227.5 |
| 30.Nov.19 | 235.36 | 222.08 | 242.07 | 228.14 |
| | | | | |

## 17 VOLTAGE PROFILE OF 400 KV SUB-STATIONS IN DELHI DURING NOVEMBER 2019

**All figures in kV**

| Date | 400kV Bamnauli Grid Sub-Station | | | | |
|---|---|---|---|---|---|
| | Max KV | Max Time | Min KV | Min Time | Average KV |
| 01.Nov.19 | 419.5 | 3:05:31 | 399.1 | 10:08:12 | 410.31 |
| 02.Nov.19 | 420.9 | 3:31:45 | 398.63 | 9:13:56 | 412.29 |
| 03.Nov.19 | 419.73 | 4:00:08 | 400.74 | 9:29:59 | 413.19 |
| 04.Nov.19 | 420.43 | 2:39:32 | 400.27 | 9:45:53 | 412.25 |
| 05.Nov.19 | 418.32 | 20:33:59 | 401.91 | 18:24:09 | 411.07 |
| 06.Nov.19 | 420.2 | 20:31:53 | 397.92 | 9:51:21 | 410.1 |
| 07.Nov.19 | 420.67 | 3:58:14 | 402.85 | 9:48:24 | 411.65 |
| 08.Nov.19 | 420.67 | 4:00:57 | 389.25 | 9:21:18 | 409.44 |
| 09.Nov.19 | 418.32 | 3:23:00 | 393.7 | 9:50:26 | 410.13 |
| 10.Nov.19 | 421.37 | 3:02:14 | 402.85 | 9:46:34 | 413.12 |
| 11.Nov.19 | 421.61 | 2:18:17 | 393.47 | 9:19:38 | 410.53 |
| 12.Nov.19 | 418.32 | 3:38:20 | 387.37 | 9:42:11 | 410.56 |
| 13.Nov.19 | 419.73 | 20:44:36 | 395.11 | 9:37:54 | 410.68 |
| 14.Nov.19 | 419.73 | 3:18:37 | 394.41 | 9:22:38 | 410.74 |
| 15.Nov.19 | 423.01 | 3:58:40 | 391.59 | 9:40:01 | 411.61 |
| 16.Nov.19 | 419.73 | 0:39:33 | 397.92 | 9:39:34 | 411.2 |
| 17.Nov.19 | 419.73 | 1:26:56 | 403.08 | 9:17:58 | 413.45 |
| 18.Nov.19 | 420.67 | 3:02:30 | 397.22 | 9:41:01 | 411.6 |
| 19.Nov.19 | 420.43 | 3:59:44 | 396.99 | 9:12:04 | 412.16 |
| 20.Nov.19 | 421.37 | 3:59:57 | 399.1 | 9:11:58 | 411.56 |
| 21.Nov.19 | 419.5 | 1:58:30 | 394.64 | 9:08:51 | 410.37 |
| 22.Nov.19 | 417.15 | 2:00:03 | 391.59 | 9:16:14 | 407.14 |
| 23.Nov.19 | 418.56 | 4:01:47 | 396.99 | 9:46:08 | 409.98 |
| 24.Nov.19 | 418.09 | 3:50:25 | 396.99 | 9:05:11 | 410.38 |
| 25.Nov.19 | 419.26 | 3:03:03 | 393.23 | 9:30:54 | 409.5 |
| 26.Nov.19 | 419.03 | 4:00:38 | 398.63 | 9:14:28 | 410.35 |
| 27.Nov.19 | 419.26 | 3:40:40 | 391.36 | 9:38:31 | 409.79 |
| 28.Nov.19 | 420.43 | 3:58:54 | 401.68 | 9:39:44 | 412.01 |
| 29.Nov.19 | 419.03 | 1:00:56 | 396.05 | 9:38:17 | 411.07 |
| 30.Nov.19 | 419.73 | 0:59:41 | 397.92 | 9:31:21 | 411.11 |
| | | | | | |

**All figures in kV**

| Date | 400kV Bawana Grid Sub-Station | | | | |
|---|---|---|---|---|---|
| | Max KV | Max Time | Min KV | Min Time | Average KV |
| 01.Nov.19 | 424.89 | 3:03:03 | 406.6 | 10:08:09 | 416.93 |
| 02.Nov.19 | 426.53 | 3:30:32 | 406.83 | 9:12:57 | 419.57 |
| 03.Nov.19 | 425.36 | 3:41:21 | 409.65 | 9:24:36 | 419.99 |
| 04.Nov.19 | 425.12 | 2:40:22 | 408.71 | 9:50:05 | 419.09 |
| 05.Nov.19 | 425.36 | 1:55:48 | 403.32 | 9:30:22 | 417.73 |
| 06.Nov.19 | 423.95 | 20:32:21 | 405.43 | 9:51:52 | 416.52 |
| 07.Nov.19 | 426.53 | 3:58:47 | 409.88 | 18:42:59 | 418.46 |
| 08.Nov.19 | 425.36 | 4:00:56 | 399.57 | 9:30:50 | 416.56 |
| 09.Nov.19 | 424.19 | 3:23:14 | 402.14 | 9:48:09 | 417.2 |
| 10.Nov.19 | 427.23 | 3:03:43 | 410.12 | 9:35:28 | 419.41 |
| 11.Nov.19 | 426.77 | 2:19:01 | 401.91 | 9:17:27 | 417.02 |
| 12.Nov.19 | 425.12 | 3:39:21 | 399.1 | 9:39:46 | 417.52 |
| 13.Nov.19 | 425.36 | 3:32:00 | 406.13 | 9:37:54 | 418.03 |
| 14.Nov.19 | 425.36 | 2:38:58 | 401.91 | 9:21:13 | 417.42 |
| 15.Nov.19 | 427.7 | 3:03:17 | 397.22 | 9:32:22 | 415.73 |
| 16.Nov.19 | 424.19 | 0:37:04 | 404.02 | 9:14:31 | 415.81 |
| 17.Nov.19 | 425.12 | 1:33:03 | 408.01 | 9:16:50 | 417.42 |
| 18.Nov.19 | 424.89 | 3:05:43 | 401.68 | 9:39:39 | 415.07 |
| 19.Nov.19 | 423.25 | 3:58:03 | 401.68 | 9:11:57 | 415.67 |
| 20.Nov.19 | 424.89 | 4:01:02 | 404.25 | 9:31:26 | 416.17 |
| 21.Nov.19 | 423.95 | 1:57:19 | 403.08 | 9:09:04 | 416.27 |
| 22.Nov.19 | 423.25 | 1:53:47 | 399.57 | 9:16:03 | 412.44 |
| 23.Nov.19 | 423.95 | 2:29:36 | 403.79 | 9:46:33 | 415.24 |
| 24.Nov.19 | 422.55 | 21:00:22 | 404.49 | 8:48:32 | 415.52 |
| 25.Nov.19 | 423.95 | 2:59:45 | 400.5 | 9:39:10 | 414.79 |
| 26.Nov.19 | 423.01 | 19:58:57 | 407.3 | 9:17:59 | 416.66 |
| 27.Nov.19 | 423.95 | 2:42:42 | 401.91 | 9:41:38 | 416.43 |
| 28.Nov.19 | 425.36 | 3:59:12 | 409.65 | 12:09:58 | 418.22 |
| 29.Nov.19 | 427.94 | 4:02:41 | 408.48 | 9:47:25 | 421.04 |
| 30.Nov.19 | 429.11 | 2:41:18 | 410.82 | 9:26:13 | 422 |
| | | | | | |

## 20 DETAILS OF BREAK-DOWNS DURING THE MONTH OF NOVEMBER 2019

| SL NO | OCCURRENCE OF BREAK-DOWN | | DETAILS OF THE BREAKDOWN | TIME OF RESTORATION | | REMARKS |
|---|---|---|---|---|---|---|
| | DATE | TIME | | DATE | TIME | |
| 1 | 3.11.19 | 06:05 | 220KV BAWANA-SHALIMARBAGH CKT-II | 3.11.19 | 10:15 | AT SHALIMARBAGH : 186B, LINE DIFFERENTIAL. AT BAWANA : 86A, R PHASE, DIST PROT, DIST 2.63KM. |
| 2 | 3.11.19 | 13:23 | GOPALPUR 220/33kV 100MVA Tx-III | 3.11.19 | 19:07 | O/C. |
| 3 | 3.11.19 | 13:34 | 220KV SHALIMARBAGH-WAZIRPUR CKT-I | 3.11.19 | 15:51 | AT WAZIRPUR : 86. |
| 4 | 5.11.19 | 06:45 | GEETA COLONY 220/33kV 100MVA Tx-I | 5.11.19 | 12:14 | I/C TRIPPED ON 86. |
| 5 | 6.11.19 | 02:17 | GEETA COLONY 220/33kV 100MVA Tx-I | 6.11.19 | 15:37 | AUTO TRIP, 30CA. |
| 6 | 6.11.19 | 03:13 | BAWANA 400/220kV 315MVA ICT-I | 6.11.19 | 04:20 | At Bawana: Bus bar protection operated, 96 |
| 7 | 6.11.19 | 03:13 | BAWANA 400/220kV 315MVA ICT-IV | 6.11.19 | 04:31 | At Bawana: Bus bar protection operated, 96 |
| 8 | 6.11.19 | 03:13 | BAWANA 220/66kV 100MVA Tx | 6.11.19 | 04:30 | At Bawana: Bus bar protection operated, 96 |
| 9 | 6.11.19 | 03:13 | BAWANA 220/66kV 100MVA Tx | 6.11.19 | 04:30 | At Bawana: Bus bar protection operated, 96 |
| 10 | 6.11.19 | 03:13 | 220KV BAWANA-SHALIMARBAGH CKT-II | 5.11.19 | 04:33 | At Bawana: Bus bar protection operated, 96 At Shalimar Bagh: Ckt. did not trip |
| 11 | 6.11.19 | 03:13 | 220KV BAWANA-SHALIMARBAGH CKT-I | 6.11.19 | 04:33 | At Bawana: Bus bar protection operated, 96 At Shalimar Bagh: Ckt. did not trip. |
| 12 | 6.11.19 | 17:20 | INDRAPRASTHA POWER 220/33kV 100MVA Tx-II | 6.11.19 | 17:35 | 86, E/F. |
| 13 | 6.11.19 | 20:30 | 220kV GAZIPUR- PATPARGANJ CKT | 7.11.19 | 06:58 | AT GAZIPUR : AUTO RECLOSE. |
| 14 | 7.11.19 | 03:58 | 220KV PEERAGARHI-WAZIRPUR CKT-I | 7.11.19 | 06:27 | 86A&B. |
| 15 | 7.11.19 | 04:16 | R K PURAM 220/33kV 100MVA Tx-I | 7.11.19 | 05:58 | O/C, 86. |
| 16 | 7.11.19 | 08:45 | 220kV MUNDKA-KANJHAWALA CKT | 7.11.19 | 09:52 | 86A&B |
| 17 | 7.11.19 | 20:44 | SUBZI MANDI 33/11kV, 16MVA Tx-I | 8.11.19 | 00:35 | 86 |
| 18 | 8.11.19 | 03:22 | GAZIPUR 66/11kV, 20MVA Tx-I | 8.11.19 | 08:15 | 86, PRV. |
| 19 | 8.11.19 | 03:37 | ROHINI-II 220/66kV 160MVA Tx-I | 8.11.19 | 05:30 | OVERFLUX |
| 20 | 8.11.19 | 04:00 | ROHINI-II 220/66kV 160MVA Tx-II | 8.11.19 | 21:12 | SMOKE IN RELAY PANEL. |
| 21 | 8.11.19 | 05:30 | GEETA COLONY 220/33kV 100MVA Tx-I | 8.11.19 | 20:37 | I/C TRIPPED ON 30CB, AUTO TRIP. |
| 22 | 8.11.19 | 16:18 | MUNDKA 220/66kV 160MVA Tx-III | 8.11.19 | 16:52 | TRIPPED WITHOUT INDICATION |
| 23 | 8.11.19 | 21:45 | SARITA VIHAR 220/66kV 100MVA Tx-II | 8.11.19 | 22:40 | 86 |
| 24 | 12.11.19 | 13:25 | 400kV Mandola-Bawana Ckt-II | 12.11.19 | 14:37 | AT BAWANA : 186A&B. |
| 25 | 13.11.19 | 09:25 | 220kV GOPALPUR- MANDOLACKT-I | 13.11.19 | 09:30 | AT GOPALPUR : 186. |
| 26 | 13.11.19 | 16:45 | 220kV GAZIPUR - NOIDA SEC.-62 CKT | 13.11.19 | 22:56 | AT NOIDA SEC. 62 : FLASH OCCURRED IN PANEL. |
| 27 | 14.11.19 | 06:45 | 220kV DIAL- MEHRAULI CKT-I | | | AT MEHRAULI E/F, 86 ABC. |
| 28 | 14.11.19 | 06:48 | 220kV ROHINI-SHALIMARBAGH CKT-I | 14.11.19 | 07:34 | AT SHALIMARBAGH : DIST PROT, ZONE-I, DIST 4.82KM. |
| 29 | 14.11.19 | 07:46 | GOPALPUR 220/33kV 100MVA Tx-I | 14.11.19 | 18:05 | 86 |
| 30 | 15.11.19 | 03:58 | 400kV Bamnauli-Jhatikara Ckt-I | 15.11.19 | 05:17 | AT BAMNAULI : 186AB. |
| 31 | 15.11.19 | 08:24 | PAPPANKALAN-I 220/66kV 100MVA Tx-IV | 15.11.19 | 11:27 | 86 |
| 32 | 15.11.19 | 08:24 | PAPPANKALAN-I 220/66kV 100MVA Tx-IV | 15.11.19 | 11:27 | 86 |

| SL NO | OCCURRENCE OF BREAK-DOWN | | DETAILS OF THE BREAKDOWN | TIME OF RESTORATION | | REMARKS |
|---|---|---|---|---|---|---|
| | DATE | TIME | | DATE | TIME | |
| 33 | 16.11.19 | 14:17 | 220kV ROHINI-SHALIMARBAGH CKT-I | 16.11.19 | 16:13 | AT ROHINI : DIST PROT, 86ABC AT SHALIMARBAGH : DIST PROT, ZONE-I, DIST 1.355KM. |
| 34 | 16.11.19 | 14:17 | 220KV BAWANA-SHALIMARBAGH CKT-II | 16.11.19 | 14:31 | AT SHALIMARBAGH : 186. |
| 35 | 17.11.19 | 08:44 | PATPARGANJ 220/66kV 100MVA Tx-I | 17.11.19 | 20:08 | 86 |
| 36 | 18.11.19 | 06:40 | 220KV BAWANA-SHALIMARBAGH CKT-I | 18.11.19 | 21:35 | At Bawana : A Ph, B Phase, Zone-I, 86. At Shalimarbagh : B&C Phase |
| 37 | 18.11.19 | 06:40 | 220KV BAWANA-SHALIMARBAGH CKT-II | 18.11.19 | 09:31 | At Bawana :C Ph, Differential trip, Fault location-3.996 km. At Shalimarbagh : B Phase, 86, 186, Dist prot, Dist 6.715Km. |
| 38 | 18.11.19 | 06:51 | MUNDKA 400/220kV 315MVA ICT-IV | 18.11.19 | 07:07 | At Mundka:86 Group A & B. |
| 39 | 18.11.19 | 07:23 | MUNDKA 400/220kV 315MVA ICT-IV | 18.11.19 | 07:42 | At Mundka:86 Group A & B. |
| 40 | 18.11.19 | 09:45 | INDRAPRASTHA POWER 220/33kV 100MVA Tx-I | 18.11.19 | 10:13 | 86 |
| 41 | 18.11.19 | 16:50 | BAWANA 400/220kV 315MVA ICT-II | 25.11.19 | 17:51 | TRIPPED WITHOUT INDICATION. |
| 42 | 21.11.19 | 03:36 | 220KV BAWANA-SHALIMARBAGH CKT-II | 21.11.19 | 05:49 | AT SHALIMARBAGH : 86, DIFFERENTIAL, DIST PROT, DIST 1.423KM. |
| 43 | 21.11.19 | 05:50 | SUBZI MANDI 33/11kV, 16MVA Tx-I | | | R&Y PHASE, 87. |
| 44 | 23.11.19 | 11:40 | 220KV WAZIRABAD - MANDOLA CKT-III | 23.11.19 | 13:27 | AT WAZIRABAD : LBB PROTECTION. |
| 45 | 23.11.19 | 17:55 | NARAINA 220/33kV 100MVA Tx-II | 23.11.19 | 19:10 | O/C, E/F |
| 46 | 23.11.19 | 18:08 | 220KV BAWANA-SHALIMARBAGH CKT-II | 23.11.19 | 20:56 | At Bawana: Ckt. did not trip. At Shalimar Bagh: Line differential, 86ABC, BU Trip. |
| 47 | 23.11.19 | 18:08 | 220KV BAWANA-SHALIMARBAGH CKT-I | 23.11.19 | 21:00 | At Bawana : Ckt. did not trip. At Shalimar Bagh: Line differential, 86ABC, BU Trip. |
| 48 | 24.11.19 | 03:52 | SUBZI MANDI 33/11kV, 16MVA Tx-II | 24.11.19 | 08:05 | SPR. |
| 49 | 24.11.19 | 05:05 | 400kV Mandola-Bawana Ckt-II | 24.11.19 | 14:11 | AT BAWANA : DIST PROT, ZONE-I, DIST 159.5MTS. |
| 50 | 24.11.19 | 08:12 | KANJHAWALA 220/66kV 160MVA Tx-I | 24.11.19 | 08:32 | 86 |
| 51 | 24.11.19 | 08:55 | LODHI RD 220/33kV 100MVA TR. -III | 24.11.19 | 14:22 | 86 |
| 52 | 25.11.19 | 03:52 | SUBZI MANDI 33/11kV, 16MVA Tx-II | 25.11.19 | 08:05 | SPR, PRV |
| 53 | 25.11.19 | 08:13 | KANJHAWALA 220/66kV 160MVA Tx-I | 25.11.19 | 08:32 | 86 |
| 54 | 25.11.19 | 08:55 | LODHI RD 220/33kV 100MVA TR. -III | 25.11.19 | 14:22 | DIFFERENTIAL, 86. |
| 55 | 27.11.19 | 19:54 | BAWANA 400/220kV 315MVA ICT-V | 28.11.19 | 00:53 | WITHOUT INDICATION. |
| 56 | 27.11.19 | 19:54 | BAWANA 400/220kV 315MVA ICT-V | 28.11.19 | 00:53 | WITHOUT INDICATION. |
| 57 | 27.11.19 | 20:05 | 220 KV GOPALPUR-WAZIRABAD CKT-2 | 27.11.19 | 20:18 | At Gopalpur : E/F,86. At Wazirabad: ckt did not trip. |
| 58 | 27.11.19 | 20:05 | 220kV GOPALPUR- MANDOLACKT-II | 28.11.19 | 10:47 | AT GOPALPUR : R PHASE INDICATION, SUPPLY FAILED FROM MANDOLA. |
| 59 | 27.11.19 | 23:42 | 220KV SHALIMARBAGH-WAZIRPUR CKT-II | 28.11.19 | 00:10 | AT SHALIMARBAGH : OV, 86. |
| 60 | 28.11.19 | 12:50 | OKHLA 220/33kV 100MVA Tx-IV | 28.11.19 | 00:00 | 86 |
| 61 | 28.11.19 | 12:50 | OKHLA 220/33kV 100MVA Tx-III | 28.11.19 | 00:00 | I/C TRIPPED ON 86. |
| 62 | 28.11.19 | 13:15 | 220KV MUNDKA-PEERAGARHI CKT-II | 28.11.19 | 13:36 | 86 |
| 63 | 30.11.19 | 06:12 | 220kV PAPPANKALAN-III-PAPPANKALAN-I CKT-I | 30.11.19 | 10:23 | At Papankalan-I : Dist prot, R Phase, 86A,295 A &C. At Papankalan-III : Ckt. did not trip. |

| SL NO | OCCURRENCE OF BREAK-DOWN | | DETAILS OF THE BREAKDOWN | TIME OF RESTORATION | | REMARKS |
|---|---|---|---|---|---|---|
| | DATE | TIME | | DATE | TIME | |
| 64 | 30.11.19 | 06:20 | 220kV PAPPANKALAN-I-NARAINA CKT-I | 30.11.19 | 12:28 | At Papankalan-I : Dist prot, B Phase A, 186 A&B. At Naraina : Dist prot, 86, Dist 6.729Km, Zone-II |
| 65 | 30.11.19 | 06:31 | 220kV BAMNAULI-PAPPANKALAN-I CKT-II | 30.11.19 | 09:19 | At Bamnauli : Dist prot, Dist 10.78km, 86. At Papankalan-I : Ckt. did not trip. |
| 66 | 30.11.19 | 06:55 | 220kV BAMNAULI - DIAL CKT-II | 30.11.19 | 09:13 | AT BAMNAULI : DISCREPANCY RELAY APPEAR. |
| 67 | 30.11.19 | 10:47 | KASHMIRI GATE 33/11kV, 20MVA Tx | 30.11.19 | 13:02 | 86 |

## 20 DETAILS OF UNDER FREQUENCY RELAY OPERATIONS IN DELHI POWER SYSTEM DURING THE MONTH OF NOVEMBER 2019

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