

**Note on****Maharashtra Power System Overview, under frequency operation, Load shedding (Planned and Distress) for the month of December-2016.****Maharashtra system Overview:-**

The overview of Maharashtra system operation for the month of December-2016 with respect to availability and shortfall is elaborated as under.

- The power supply position for **STATE** in December-2016 are given below: -

| Sr No. | Particulars         | Recorded Demand/Requirement        | Date       | Time      |
|--------|---------------------|------------------------------------|------------|-----------|
| 1      | Max. Demand         | 20366 MW (with Load shedding 0 MW) | 05.12.2016 | 10:00 Hrs |
| 2      | Min. Demand         | 13074 MW                           | 25.12.2016 | 24:00 Hrs |
| 3      | Max. Demand Catered | 20366 MW                           | 05.12.2016 | 10:00 Hrs |
| 4      | Energy Catered      | 12688 MUs                          |            |           |
| 5      | Max. Energy Catered | 428.8 MUs                          | 05.12.2016 |           |
| 6      | Avg. Energy Catered | 409 MUs                            |            |           |

- The power supply position for **MSEDCL** in December-2016 are given below :-

| Sr No. | Particulars         | Recorded Demand/Requirement        | Date       | Time      |
|--------|---------------------|------------------------------------|------------|-----------|
| 1      | Max. Demand         | 17764 MW (with Load shedding 0 MW) | 05.12.2016 | 10:00 Hrs |
| 2      | Min. Demand         | 11250 MW                           | 25.12.2016 | 23:00 Hrs |
| 3      | Max. Demand Catered | 17764 MW                           | 05.12.2016 | 10:00 Hrs |
| 4      | Energy Catered      | 11091 MUs                          |            |           |
| 5      | Max. Energy Catered | 371.6 MUs                          | 05.12.2016 |           |
| 6      | Avg. Energy Catered | 357.8 MUs                          |            |           |

- The power supply position for **Mumbai system** in December-2016 are given below:-

| Sr No. | Particulars         | Recorded Demand/Requirement | Date       | Time      |
|--------|---------------------|-----------------------------|------------|-----------|
| 1      | Max. Demand         | 2955 MW                     | 05.12.2016 | 12:00 Hrs |
| 2      | Min. Demand         | 1379 MW                     | 04.12.2016 | 04:00 Hrs |
| 4      | Energy Catered      | 1597 MUs                    |            |           |
| 5      | Max. Energy Catered | 57.2 MUs                    | 05.12.2016 |           |
| 6      | Avg. Energy Catered | 51.5 MUs                    |            |           |

#### **Load shedding in MSEDCL area:**

- Revised Feeder wise planned load shedding protocol in MSEDCL, based on MERC Order in Case No.41 of 2012 dt.26.11.2012, is implemented w.e.f. 16/01/2013 by MSEDCL as per circular No.46 Dated 14/01/2013. The hourly load relief quantum is submitted at the end of the day, daily, by LM cell of MSEDCL, Kalwa.
- Maximum load shedding was recorded as 447 MW on 29/12/2016 at 13:00 Hrs. and Min. load shedding was recorded as 00 MW on 01/12/2016 at 05:00 Hrs. Average load shedding quantum for the month was 8.63 MW.
- Planned load shedding for load relief is carried out in MSEDCL area to mitigate the availability in real time if required. AG-LM load management scheme is revised, as per the new load shedding circular **w.e.f 16.12.2016 vide MSEDCL letter No. EDI/12hrs Ag supply/37003 dt. 15.12.2016 ,3 Phase supply to AG Loads will be 8/10 Hrs w.e.f. 16.12.2016**
- There was no distress load shedding due to shortfall of Power supply during the month.

### **Other Highlights of Maharashtra System in December-16.**

- RGPPL one block is on bar. The RGPPL Power is scheduled to Railways only.
  - 10.71 TMC of Koyna water was utilized for month of December-2016.
  - Wind Generation for the month was 237 Mus. Average wind generation was 318 MW/hour.
  - The average grid frequency for the month was 49.96 Hz. The Instantaneous Maximum frequency was 50.29Hz and Minimum frequency was 49.7Hz.
  - There was no instance of under frequency operation during the month.
  - MSPGCL Thermal actual generation was as high as 7079 MW (hourly max) on 12/12/2016 at 14:00 hrs.
  - MSPGCL Thermal actual generation was as low as 4202 MW (hourly min) on 06/12/2016 at 24:00 hrs.
  - Max.Voltage at 765KV Substation was recorded at Akola substation i.e 792 KV and Min voltage was recorded at Koradi-III substation i.e. 738 KV
  - Max. Voltage at MSETCL 400 kV Substation was recorded at Kolhapur Substation i.e 435 kV and Min voltage was recorded at Nanded substation i.e. 367 kV
  - There was no planned load shedding in Mumbai area (i.e. BEST, R-Infra-D, and TPC-D) during the Month.
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