

Note on

**Maharashtra Power System Overview, Under frequency operation, Load shedding (Planned and Distress) for the month of Apr-2015.**

**Maharashtra system Overview:**

The overview of Maharashtra system operation for the month of April-2015 with respect to availability and shortfall is elaborated as under.

- The power supply position for **STATE** in April-15 are given below:-
  - The State *maximum* demand was recorded as 20204 MW (including load shedding of 219 MW) on 22/04/2015 at 16:00Hrs.
  - The State *minimum* demand was recorded as 13623 MW on 12/04/2015 at 18:00Hrs.
  - The State *maximum CATERED* demand was recorded as 19985 MW on 22/04/2015 at 16:00Hrs.
  - The State has Catered 12215 Mus in the Month (Average 407.23 Mus) and max Catered Mus was 433.63 on 22/04/2015.
  
- The power supply position for **MSEDCL** in April-15 are given below :-
  - The *maximum* demand of MSEDCL was recorded as 16795 MW (including load shedding of 219 MW) on 22/04/2015 at 16:00Hrs.
  - The *minimum* demand of MSEDCL was recorded as 11536 MW on 12/04/2015 at 18:00Hrs.
  - The *maximum CATERED* demand of MSEDCL was recorded as 16746 MW on 09/04/2015 at 13:00Hrs.
  - MSEDCL has Catered 10378 Mus in the Month (Average 345.9 Mus) and max Catered Mus was 367.09 on 29/04/2015.

- The power supply position for **Mumbai system** in April-15 are given below:-
  - The *maximum* demand of MUMBAI SYSTEM was recorded as 3409 MW on 22/04/2015 at 13:00Hrs.
  - The *minimum* demand of MUMBAI SYSTEM was recorded as 1758 MW on 07/04/2015 at 05:00Hrs.
  - The MUMBAI SYSTEM has Catered 1837 Mus in the Month (Average 61.23 Mus) and max Mus Catered was 68.912 on 22/04/2015.

#### **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 wef. 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.
- Max. load shedding was recorded as 845 MW on 07/04/2015 at 18:00 Hrs. and Min. load shedding was recorded as 30 MW on 11/04/2015. Average load shedding quantum for the month was 70.17 MW.
- Planned load shedding for load relief is carried out in MSEDCL area to mitigate the availability in real time. In addition, AG-LM load management scheme was in force for defined hours, as per the load shedding circular.
- There was no distress load shedding due to shortfall of supply during the month.

#### **Other Highlights of Maharashtra System in April-15.**

- RGPPL generation was NIL in April-15. RGPPL generation (Total:-1967MW & MSEDCL share:- 1888 MW) is under shutdown due to gas shortage w.e.f. 29/12/2013.
  - 12.418 TMC of Koyna water was utilized for April 2015. Balance water for May 2015 is 11.339 TMC.
  - Wind Generation for the month was 341 Mus. Average wind generation was 473.2 MW/hour.
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- The average grid frequency for the month was 49.96 Hz. The Instantaneous Maximum frequency was 50.52 Hz. and Minimum frequency was 49.46 Hz.
  - There was no instance of under frequency operation during the month.
  - MSPGCL Thermal availability was as high as 5836 MW (hourly max) on 10/04/2015 at 09:00 hrs.
  - MSPGCL Thermal availability was as low as 4050 MW (hourly min) on 14/04/2015 at 05:00 hrs.
  - Max. Voltage at MSETCL 400 kV Substation was recorded at Bhusawal S/s (433 kV) and Min voltage was recorded at Chakan S/s (373 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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