

Note on

**Maharashtra Power System Overview, Under frequency operation, Load shedding (planned and Distress) for the month of April-2013.**

**Maharashtra system Overview:**

The overview of Maharashtra system operation for the month April - 2013 with respect to availability and shortfall is elaborated as under.

- The power supply position for **STATE** in Apr-13 are given below:-
  - The State *maximum* demand was recorded as 17849 MW (including load shedding of 726 MW) on 10/04/2013 at 12:00Hrs.
  - The State *minimum* demand was recorded as 13339 MW on 26/04/2013 at 04:00Hrs.
  - The State *maximum CATERED* demand was recorded as 17210 MW on 10/04/2013 at 16:00Hrs.
  - The State has Catered 10939 Mus in the Month (daily average of 364.6 Mus) and max daily Catered Mus was 378.2 on 30/04/2013.
- The power supply position for **MSEDCL** in Apr-13 are given below:-
  - The *maximum* demand of MSEDCL was recorded as 14945 MW (including load shedding of 1030 MW) on 02/04/2013 at 12:00Hrs.
  - The *minimum* demand of MSEDCL was recorded as 11319 MW on 11/04/2013 at 19:00Hrs.
  - The *maximum CATERED* demand of MSEDCL was recorded as 14328 MW on 26/04/2013 at 16:00Hrs.
  - MSEDCL has Catered 9245 Mus in the Month (daily average of 308.2 Mus) and max daily Catered Mus was 316.3 on 10/04/2013.

- The power supply position for **Mumbai system** in Apr-13 are given below:-
  - The *maximum* demand of MUMBAI SYSTEM was recorded as 3168 MW on 30/04/2013 at 13:00Hrs.
  - The *minimum* demand of MUMBAI SYSTEM was recorded as 1543 MW on 3/04/2013 at 04:00Hrs.
  - The MUMBAI SYSTEM has Catered 1694 Mus in the Month (daily average of 56.4 Mus) and max daily Mus Catered was on 62.9 on 30/04/2013.

#### **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 1229 MW on 02/04/2013 at 09:00 Hrs. and Min load shedding was recorded as 3 MW on 20/04/2013 at 23:00 Hrs. Average load shedding quantum for the month was 437 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 is in force for defined hours, as per the load shedding circular.
- There was no distress load shedding due to short fall of supply during the month.

#### **Other Highlights of Maharashtra System in Apr-13.**

- MSPGCL Parli TPS generation (1130MW) shut down due to water shortage w.e.f.15/02/2013
  - RGPPL generation which was shutdown due to gas shortage in March-13, was started again in April-13 & generated 669.5 Mus (Average Generation 930 MW).
  - 4.020 TMC of Koyna water was utilized and balance water for May 2013 is 6.023 TMC.
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- Wind Generation in Mus for the month was 303.9 Mus. Average wind generation was 422 MW/hour.
  - The average grid frequency for the month was 49.98 Hz. The Instantaneous Maximum frequency was 50.59 Hz. and Minimum frequency was 49.32Hz.
  - There was no instance of under frequency operation during the month.
  - MSPGCL Thermal availability was as high as 5233 MW (average/day) on 05/04/2013.
  - MSPGCL Thermal availability was as low as 3975 MW (average/day) on 26/04/2013.
  - Max. voltage at MSETCL 400 kV Substation was recorded at Lamboti S/s (441 kV) and Min voltage was recorded at Lamboti S/s (383 kV).
  - There was no planned load shedding in Mumbai area (i.e. BEST, R-Infra-D, and TPC-D) during the month.
  - Vidharbha Power Industries Limited having medium term PPA with R-Infra-D, Unit 1 GCCP unit ( 300 MW) declared commercial operation w.e.f 4<sup>th</sup> April, 2013.
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