

Note on

**Maharashtra Power System Overview, Under frequency operation, Load shedding (Planned and Distress) for the month of Oct-2014.**

**Maharashtra system Overview:**

The overview of Maharashtra system operation for the month of Oct-2014 with respect to availability and shortfall is elaborated as under.

- The power supply position for **STATE** in Oct-14 are given below:-
  - The State *maximum* demand was recorded as 20795 MW (including load shedding of 973 MW) on 04/10/2014 at 13:00Hrs.
  - The State *minimum* demand was recorded as 12208 MW on 25/10/2014 at 24:00Hrs.
  - The State *maximum CATERED* demand was recorded as 20399 MW on 14/10/2014 at 15:00Hrs.
  - The State has Catered 12577 Mus in the Month (Average 405.7 Mus) and max Catered Mus was 433.8 on 14/10/2014.
  
- The power supply position for **MSEDCL** in Oct-14 are given below:-
  - The *maximum* demand of MSEDCL was recorded as 17694MW (including load shedding of 973 MW) on 04/10/2014 at 13:00Hrs.
  - The *minimum* demand of MSEDCL was recorded as 10125 MW on 25/10/2014 at 24:00Hrs.
  - The *maximum CATERED* demand of MSEDCL was recorded as 17200 MW on 14/10/2014 at 15:00Hrs.
  - MSEDCL has Catered 10747 Mus in the Month (Average 346.7 Mus) and max Catered Mus was 370.1 on 14/10/2014.

- The power supply position for **Mumbai system** in Oct-14 are given below:-
  - The *maximum* demand of MUMBAI SYSTEM was recorded as 3352 MW on 17/10/2014 at 16:00Hrs.
  - The *minimum* demand of MUMBAI SYSTEM was recorded as 1587 MW on 26/10/2014 at 05:00Hrs.
  - The MUMBAI SYSTEM has Catered 1830 Mus in the Month (Average 59.0 Mus) and max Mus Catered was 66.7 on 17/10/2014.

#### **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 1000 MW on 31/10/2014 at 13:00 Hrs. and Min. load shedding was recorded as 27 MW on 28/10/2014. Average load shedding quantum for the month was 183 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. All PLR groups A, B, C, D, E, F & G were withdrawn during the Diwali festival.
- There was no distress load shedding due to shortfall of supply during the month.

#### **Other Highlights of Maharashtra System in Oct-14.**

- MSPGCL Parli TPS generation Units 3 (210 MW), is under shut down due to water shortage w.e.f.15/02/2013. And Bhusawal U#2(210MW) , Koradi U#5(200MW) and Chandrapur U#1(210MW) are declared under Economic shutdown by MAHAGENCO.
  - RGPPL generation was NIL in Oct-14. RGPPL generation (Total:-1967MW & MSEDCL share:- 1888 MW) is under shutdown due to gas shortage w.e.f. 29/12/2013.
-

- 5.738 TMC of Koyna water was utilized for Oct 2014.
  - Wind Generation for the month was 177.3 Mus. Average wind generation was 238 MW/hour.
  - The average grid frequency for the month was 49.94 Hz. The Instantaneous Maximum frequency was 50.49 Hz. and Minimum frequency was 49.49 Hz.
  - There was no instance of under frequency operation during the month.
  - MSPGCL Thermal availability was as high as 5666 MW (hourly max) on 18/10/2014 at 14:00 hrs.
  - MSPGCL Thermal availability was as low as 3644 MW (hourly min) on 27/10/2014 at 19:00 hrs.
  - Max. Voltage at MSETCL 400 kV Substation was recorded at Kalwa S/s (437 kV) and Min voltage was recorded at Lamboti S/s (365 kV).
  - There was no planned load shedding in Mumbai area (i.e. BEST, R-Infra-D, and TPC-D) during the month.
-