

Note on

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

**Maharashtra system Overview:**

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

- The power supply position for **STATE** in Sept.-2015 are given below:-
  - The State *maximum* demand was recorded as 19681 MW (including load shedding of 208 MW) on 29/09/2015 at 12:00Hrs.
  - The State *minimum* demand was recorded as 11088 MW on 18/09/2015 at 04:00Hrs.
  - The State *maximum CATERED* demand was recorded as 19473 MW on 29/09/2015 at 12:00Hrs.
  - The State has Catered 11520.92 Mus in the Month (Average 384 Mus) and max Catered Mus was 425.1 on 30/09/2015.
  
- The power supply position for **MSEDCL** in Sept.-15 are given below :-
  - The *maximum* demand of MSEDCL was recorded as 16461 MW (including load shedding of 208 MW) on 29/09/2015 at 12:00Hrs.
  - The *minimum* demand of MSEDCL was recorded as 9210 MW on 18/09/2015 at 04:00Hrs.
  - The *maximum CATERED* demand of MSEDCL was recorded as 16253 MW on 29/09/2015 at 12:00Hrs.
  - MSEDCL has Catered 9750 Mus in the Month (Average 325 Mus) and max Catered Mus was 359.2 on 29/09/2015.

- The power supply position for **Mumbai system** in Sept.-15 are given below:-
  - The *maximum* demand of MUMBAI SYSTEM was recorded as 3302 MW on 30/09/2015 at 16:00Hrs.
  - The *minimum* demand of MUMBAI SYSTEM was recorded as 1716 MW on 02/09/2015 at 05:00Hrs.
  - The MUMBAI SYSTEM has Catered 1770.89 Mus in the Month (Average 59 Mus) and max Mus Catered was 66.7 on 30/09/2015.

#### **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 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.
- Max. load shedding was recorded as 554 MW on 28/09/2015 at 13:00 Hrs. and Min. load shedding was recorded as 17 MW on 21/09/2015 at 02:00 Hrs. Average load shedding quantum for the month was 78 MW.
- Planned load shedding for load relief is carried out in MSEDCL area to mitigate the availability in real time if required.. 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 Sept.-15.**

- RGPPL generation was NIL in Sept-15. RGPPL generation (Total:-1967MW & MSEDCL share:- 1888 MW) is under shutdown due to gas shortage w.e.f. 29/12/2013.
- 4.45 TMC of Koyna water was utilized for Sept. 2015.
- Wind Generation for the month was 363 Mus. Average wind generation was 503 MW/hour.

- The average grid frequency for the month was 49.91 Hz. The Instantaneous Maximum frequency was 50.1Hz. and Minimum frequency was 49.72 Hz.
  - There was no instance of under frequency operation during the month.
  - MSPGCL Thermal availability was as high as 5085 MW (hourly max) on 12/09/2015 at 20:00 hrs.
  - MSPGCL Thermal availability was as low as 3360 MW (hourly min) on 27/09/2015 at 19:00 hrs.
  - Max. Voltage at MSETCL 400 kV Substation was recorded at Karad S/s (435 kV) and Min voltage was recorded at Lamboti S/s (369 kV).
  - There was no planned load shedding in Mumbai area (i.e. BEST, R-Infra-D, and TPC-D) during the Month.
  - Parly Unit 3,4,5,6 and 7 are kept under shutdown because of water shortage. Last Unit 7(250 MW) withdrawn on 08/07/2015. Total 1130 MW is under outage.
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