

Note on

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

Maharashtra system Overview:

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

- The power supply position for **STATE** in Apr-14 are given below:-
 - The State *maximum* demand was recorded as 20534 MW (including load shedding of 1164 MW) on 28/04/2014 at 12:00Hrs.
 - The State *minimum* demand was recorded as 14686 MW on 20/04/2014 at 19:00Hrs.
 - The State *maximum CATERED* demand was recorded as 19386 MW on 29/04/2014 at 16:00Hrs.
 - The State has Catered 12207 Mus in the Month (daily average of 407 Mus) and max daily Catered Mus was 424 on 29/04/2014.

- The power supply position for **MSEDCL** in Apr-14 are given below:-
 - The *maximum* demand of MSEDCL was recorded as 17327 MW (including load shedding of 1164 MW) on 28/04/2014 at 12:00Hrs.
 - The *minimum* demand of MSEDCL was recorded as 12586 MW on 20/04/2014 at 19:00Hrs.
 - The *maximum CATERED* demand of MSEDCL was recorded as 16299 MW on 16/04/2014 at 12:00Hrs.
 - MSEDCL has Catered 10448 Mus in the Month (daily average of 348.3 Mus) and max daily Catered Mus was 359.2 on 29/04/2014.

- The power supply position for **Mumbai system** in Apr-14 are given below:-
 - The *maximum* demand of MUMBAI SYSTEM was recorded as 3274 MW on 29/04/2014 at 12:00Hrs.
 - The *minimum* demand of MUMBAI SYSTEM was recorded as 1664 MW on 14/04/2014 at 05:00Hrs.
 - The MUMBAI SYSTEM has Catered 1759 Mus in the Month (daily average of 58.6 Mus) and max daily Mus Catered was 64.8 on 25/04/2014.

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 1210 MW on 21/04/2014 at 17:00 Hrs. and Min. load shedding was recorded as 0 MW on 24/04/2014. Average load shedding quantum for the month was 418 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 Apr-14.

- MSPGCL Parli TPS generation Units 3, is under shut down due to water shortage w.e.f.15/02/2013.
 - RGPPL generation was NIL in Apr-14. RGPPL generation (Total:-1967MW & MSEDCL share:- 1888 MW) is under shutdown due to gas shortage w.e.f. 29/12/2013.
 - 13.729 TMC of Koyna water was utilized for Apr 2014. Wind Generation for the month was 230 Mus. Average wind generation was 319.4 MW/hour.
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- The average grid frequency for the month was 49.92 Hz. The Instantaneous Maximum frequency was 50.53 Hz. and Minimum frequency was 49.47 Hz.
- There was no instance of under frequency operation during the month.
- MSPGCL Thermal availability was as high as 5968 MW (hourly max) on 25/04/2014 at 14:00 hrs.
- MSPGCL Thermal availability was as low as 4439 MW (hourly min) on 13/04/2014 at 16:00 hrs.
- Max. Voltage at MSETCL 400 kV Substation was recorded at Bhusawal S/s (435 kV) and Min voltage was recorded at Jejuri S/s (367 kV).
- There was no planned load shedding in Mumbai area (i.e. BEST, R-Infra-D, and TPC-D) during the month.
- **Additional Information:-**

On **29th April 2014** at **07:31Hrs**, 110kV Kalwa-Kalyan , Kalyan-Kalwa-Salsette -1, Kalyan-Kalwa-Salsette -2 and Khopoli-Bhivpuri lines tripped, due to fault on power transformer 3 at Kalyan. This resulted into area affected at Kalyan, Ambarnath, Neral, Chola railway and OFA which is approximately around **173MW**. Restoration started from 07:55Hrs., all the lines were restored on 08:05 Hrs. and Supply restored to affected area.
