

# 765KV Wardha-Aurangabad lines

## Tripping report

### 06.05.16

At 18:01hrs 765kV Wardha-Aurangabad-I tripped on Y-ph fault (as intimated by Wardha S/S, fault converted to B-ph fault later), but intimated by CPCC(N) that line tripped on Over voltage.

At 18:18hrs 765kV Wardha-Aurangabad-II tripped on B-ph fault.

At 18:32hrs while attempting trial charge of circuit-I, as intimated by

Aurangabad S/S Main & Tie CB of 765 kV Wardha-Aurangabad-IV also tripped at Aurangabad end. Reason is for ckt 4 breaker tripping is under investigation. Also Circuit-I didn't hold on SOTF indication.

765 kV Wardha-Aurangabad 3 was out to control high voltage since 4th may 2016.

Thus, all the four circuits of 765 kV between Wardha and Aurangabad had been out since 18:32 Hrs. Aurangabad S/S closed the breakers of Circuit-IV at 18:37hrs.

The flow of about 2100MW of Circuit-IV before tripping was diverted on 400kV Wardha-Parli lines (flow increased from 665MW/ckt to 855MW /ckt) and on Wardha-Akola D/C (flow increased from about 103MW/ckt to 480MW/ckt) and 400kV Akola-Aurangabad D/C (flow increased from 288MW/ckt to 600MW/ckt). However flows normalized after restoration of 765kV Wardha-Aurangabad-IV.

MSETCL was requested to increase the flow on C'pur-Padghe HVDC which was raised gradually from 300MW to 900MW and later to 1200MW.

765kV Wardha-Aurangabad-III restored at 19:29hrs.

It is understood that location of fault on both 765kV Wardha-Aurangabad-I&II is about 21kms from Wardha and fault currents are at 12kA and 15kA respectively. Further both these are on D/C tower.

Hence CPCC(Nagpur) is asked to carry out patrolling on both these circuits before further trial charging.

Further Detailed report from CPCC is Awaited.