

HINDUSTAN POWER

Incident: Tripping of lines at MB POWER on 25.05.16

Incident -1

Date and Time: 25/05/2016 at 14.14 Hrs.

- 1 Due to over current in phase AB distance protection operate in zone-1 at 14.14.41.487 hr
- 2 So Line-2 404 breaker was opened at 14.14.41.516 hrs
- 3 Line-2 tie 405 C.B w14.14.41.516 hrs. at opened 14.14.41.516 hrs.
- 4 tripping value of Line 2 detail

Fault duration 91.71ms

Fault location 104.2 kM

Fault current

IA 3.902 kA IB 4.139 kA IC 340.4 A

Fault in Zone-zone 1

After some time bus reactor & Line-1 is tripped simultaneously at 14.26.16 hrs.

Tripping sequence:

- 14.26.16.736 hrs. P 343 87R differential protection operated.
- 14.26.16.759 hrs. P347 21M2 distance zone-1 operated.
- 14.26.16.770 hrs. Bus Reactor 407 52 R breaker is opened.
- 14.26.16.812 hrs. line-1 C.B 401 52 Bkr is opened.
- 14.26.16.813 hrs. Tie C.B 402 Bkr is opened.
- 14.26.18.573 hrs. ST trip Ch. 1/2.

Incident -2

Date: Date 25-05-2016

Time-14:26:16 hrs. LINE -1 tripping value

Due to Bus Reactor 407 89R R phase Isolator Female contact with PI, Earth switch, lightning arrester with corona ring broken & Line 1 tripped on Distance protection, the station was black out.

Line 1 tripping detail

1 Over current on Phase A & B

2 Fault Location 29.4KM

3 Fault duration 56.64hz

4 Fault current

IA 2.408 KA

IB 3.066 KA

IC 676.3 KA


5 Fault in zone 1

Due to both lines are tripped, A.C power is not resumed & station is blackout.

Total Generation loss:

25.05.2016 – 5.714 MU

26.05.2016 – 11.801 MU


Shift In charge
MB Power (MP) Ltd
Anuppur

(Shift Charge Manager)