

C.E. (System Control Centre),

REPORT ON SYSTEM DISTURBANCE / PLANT FAILURE

Power Station: **Kotmale Power Station** Date: 28/04/2014 Time: 16:29 hrs

Failure at a Glance: At 16:29 hrs UpperKotmale line 02 (220 kV circuit breakers 410 and 430 tripped) tripped.

Pre-fault condition:

Generators

Unit No.	MW	MVAr	Voltage kV	AVR on/off	Governor	Remarks
01	-	-	-	-	-	-
02	-	-	-	-	-	-
03	-	-	-	-	-	-

Transmission Lines

Transmission Line	MW	MVAr	A	kV
Vic 01	04	23	70	215
Vic 02	03	22	70	214
Anu 02	-42	07	110	213
Biy 01	16	-33	100	213
Biy 02	17	-31	100	213
UK 01	03	04	7	213
UK 02	02	02	10	214

(b). Nature of failure:

Equipment	Auto/Man trip	Time of tripping	Indications/Remarks
Upper Kotmale line 02	Auto	16:29 hrs	<u>Biyagama Line 01</u> At Control room N/A At Relay room <ul style="list-style-type: none">• RAC6+WL41<ul style="list-style-type: none">- Main 1 protection (ABB REL670)-Ground Fault- Main 02 protection (Simens Siprotec 7sa52)-Ground Fault• +RAB.7<ul style="list-style-type: none">-Main 2 Trip Relay flag set

Biyagama Line 02

At Control room

N/A

At Relay room

- RAC6+WL41
 - Main 1 protection(ABB REL670)
 - Ground Fault
- +RAB.6 WL31
 - Main 1 Trip Relay flag set

Upper Kotmale Line 01

At Control room

N/A

At Relay room

- RAA8+WL21
 - Main 1 protection(ABB REL670)
 - Ground Fault

Main 2 protection((Simens Siprotec 7sa52)

- Ground Fault

Upper Kotmale Line 02

At Control room

- 1st Main Protection operated
- 2nd Main Protection operated
- Inter-trip received
- Final Trip
- 410 Trip Circuit faulty
- 430 Trip Circuit faulty

Common 02 cluster:

- A/R Blocked

At Relay room

- RAA8+WL31 panel
 - Main 1 protection(ABB REL670)
 - Ground Fault
 - DIFF Trip
 - ZM01/Z COM Trip

Main 2 protection(Simens Siprotec 7sa52)

- 1.Ground Fault
- 6.ZM 01/Z1 B Trip

Auto Recloser Unit

- Main 1-Reset Close Block Active
- Main 2-Reset Close Block Active

3. Restoration

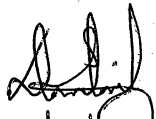
Equipment	Restored time
CB 410, CB 430	17:14 hrs(28/04/2014)

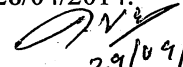
4. Brief description of incident by officer in charge [OEE] at that time:

220 kV Circuit Breakers 410 and 430 tripped due to activation of 1st and 2nd Main Protection of Upper Kotmale line 02. As instructed by SCC, CB 410 and CB4530 closed at 17:14 hrs on 28/04/2014.

5. Remedial actions taken to avoid reoccurrence of such failure / [EE (M)'s note]:

External disturbance


29/04/2014


29/04/2014

6. Remarks

Due to external fault.



.....
Officer In-Charge of the Power Station

Date: 2014/04/28

Copy: DGM (MC) – f.i. Pl.