

C.E. (System Control Centre),



**REPORT ON SYSTEM DISTURBANCE / PLANT FAILURE**

Power Station: **Kotmale Power Station**

Date: 02/12/2016 Time: 13:39 hrs

**Failure at a Glance:**

At 13:39 hrs, Unit 03 tripped during HAD 01 (11 kV dam site O.H line) Earth Fault.

**Pre-fault condition:**

Generators:

Readings at 13:30:00 hrs (as per operator observations)

Unit No.	MW	MVar	Voltage kV	AVR on/off	Governor	Remarks
01	-	-	-	-	-	
02	-	-	-	-	-	
03	40	20	13.8	ON	Auto,ep1	Frq Control

Transmission Lines:

Readings at 13:00 hrs

Transmission Line	MW	MVar	A	kV
Vic 01	37	21	120	228
Vic 02	36	20	117	227
Anu 01	13	13	59	226
Anu 02	14	13	58	226
UK 01	23	10	55	228
UK 02	22	8	58	228
Biy 01	-98	-54	296	226
Biy 02	-96	-54	298	226

(b). Nature of failure:

Equipment	Govnor (Ep1/Ep2 ) (auto/Manual)	Time of tripping	Indications/Remarks
Unit 3	Auto ep1	13:39	<p>At Power House</p> <ul style="list-style-type: none"><li>• Emergency Shutdown</li><li>• Generator air cooler cold air temp high</li><li>• Turbine governor fault</li><li>• Inlet Valve Closing trip</li></ul> <p>At Control Room</p> <ul style="list-style-type: none"><li>• Mechanical Trip Relay Operated</li><li>• Emergency Shutdown</li><li>• Gen. Air temp high</li></ul>

**3. Restoration**

Equipment	Restored time
Unit 3	15:04 hrs

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

At 13:39 hrs, Unit 03 tripped during an external Earth fault event in 11 kV auxiliary power system. After the Earth fault was cleared by protection of HAD 1 (O/H line) auxiliary supply was normal.

*[Signature]*  
02/12/16  
ENG. D.R.K. BOWATTE  
Electrical Engineer (Operations)  
Kotmale Power Station

**5. Remedial actions taken to avoid reoccurrence of such failure / [EE (C&I/ EEM)'s note]:**

Root cause under investigation.

*[Signature]*  
06/12/16  
ENG. U.S. DUNBKENIYA  
Electrical Engineer (Maintenance)  
Kotmale Power Station

**6. Remarks**

Unit 03 has tripped due to auxiliary system failure. root cause under investigation

*[Signature]*

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Officer In-Charge of the Power Station

ENG. C.G.S. GUNASEKARA  
Chief Engineer  
Kotmale Power Station

Date: 02/12/2016

Copy: DGM (MC) – f.i. PI.