REPORT ON SYSTEM DISTURBANCE / PLANT FAILURE

Power Station: Kotmale Power Station Date: 19/06/2014

Time: 08:00 hrs

Failure at a Glance: At 08:00 hrs Unit 01 at Kotmale power Station tripped with indication Electrical Trip Relay operated and AVR failure.

Pre-fault condition:

Generators

Unit No.	MW	MVAr	Voltage kV	AVR on/off	Governor	Remarks
01	50	5	13.5	ON	Auto,ep1	Frequency control
02	-	_	-	-	-	-
03	-	_	_	-	-	

Transmission Lines

Transmission Line	MW	MVAr	, A	kV
Vic 01	06	12	0.04	230
Vic 02	05	11	0.04	228
Anu 01	-22	20	0.60	228
Anu 02	off	off	off	off
Biy 01	-23	-29	0.09	227
Biy 02	-20	-28	0.10	227
UK 01	03	04	0.007	229
UK 02	. 03	03	0.009	229

(b). Nature of failure:

Equipment	Auto/ Man trip	Time of tripping	Indications/Remarks
Unit 01	Auto	08:00 hrs	At Power House
			Red Indications: Generator protection operated Inlet Valve close Trip
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			White indications: • Excitation system fault
			Generator protection relay codes(for
			Prot.Eng reference)
			 @07:59.02. 833 054 40 Start ON 843 002 DX9.Trip ON
			• 948 005 Gen Trip ON
			• 959 053 40 Trip off
			At Control Room

	White Indications: • Electrical trip relay operated. • AVR failure • Non urgent electrical fault	
	 Non urgent mechanical fault	

3. Restoration

Equipment	Restored time		
Unit 01	08:57 hrs(19/06/2014)		

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

The Unit 01 which was at frequency control operation tripped at 08:00 hrs on 19/06/2014. The indications were Electrical trip relay operated/ AVR failure. The incident was initiated with the auxiliary power change over from HAD 05 to HAD 06.

The generator protection relay unit was reset and problem disappeared after that. No indications of alarms were available at AVR alarm list.

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

The trip signal was initiated by supply -Low voltage signal from the excitation system.

checkeel, supply loses, mes for FCR supply, mes he tax supply to thyrista convertor and verified that no hult at the excring system. Rend cause under somesting about.

6. Remarks Under investigation to find out whether this has occurred due to the occent the selfigs of protection onelay by AMHE brank.

Motivale Power Station
Caylon Electricity Board
Caylon Electricity Board

Officer In-Charge of the Power Station

Date: 2014/06/19

Copy: DGM (MC) – f.i. Pl.