

C.E. (System Control Centre),



REPORT ON SYSTEM DISTURBANCE / PLANT FAILURE

Power Station: **Kotmale Power Station** Date: 14/05/2015 Time: 16:40 hrs

Failure at a Glance: At 16:40 hrs. Unit 02 at Kotmale Power Station tripped with the indication AVR failure.

Pre-fault condition:

Generators:

Readings at 16:30 hrs

Unit No.	MW	MVar	Voltage kV	AVR on/off	Governor	Remarks
01	40	35	14	ON	Auto,ep1	Freq control
02	50	35	14	ON	Auto,ep2	@16:40 unit was loaded to 50 MW
03	60	20	13.8	ON	Auto,ep2	-

Transmission Lines:

Readings at 16:00 hrs

Transmission Line	MVar	MW	A	kV
Vic 01	65	135	409	222
Vic 02	63	134	405	221
Anu 01	33	-1	96	220
Anu 02	33	-1	95	220
UK 01	16	40	107	222
UK 02	14	40	109	222
Biy 01	-149	-264	815	220
Biy 02	-155	-257	819	220

(b). Nature of failure:

Equipment	Auto/Man trip	Time of tripping	Indications/Remarks
Unit 02	Auto	16:40	At Power House Red Indications: <ul style="list-style-type: none">• Inlet Valve Closing Trip• Inlet Valve Low Pressure ,Low Level• Excitation system faulty White Indications(Alarm): <ul style="list-style-type: none">• Excitation System Faulty At Control Room White Indications <ul style="list-style-type: none">• Electrical Trip Relay Operated

			<ul style="list-style-type: none"> • AVR failure • Non Urgent electrical Fault • Fuse failure +HAB
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3. Restoration

Equipment	Restored time
Unit 02	17:44hrs on 15/05/2015

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

At 16:40 hrs, Unit 02 at Kotmale Power Station tripped with indication AVR failure. The AVR shunt Transformer has been damaged due to the fault. Unit was isolated and all maintenance engineers were informed.

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

The AVR shunt transformer was damaged. Generator stator, rotor & cable IRs were measured and verified that all are acceptable. New spare transformer was installed. However, root cause for the failure is under investigation.

[Signature]
15/05/2015

6. Remarks

Root cause of the failure is under investigation but, most probably the reason may be due to failure of the shunt transformer due to insulation failure.

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Officer In-Charge of the Power Station

Date: 15/05/2015

CHIEF ENGINEER

Kotmale Power Station
Copy: DGM (MC) - E.P. Electricity Board
MAWATURA