

C.E. (System Control Centre),

REPORT ON SYSTEM DISTURBANCE / PLANT FAILURE

Power Station: **Kotmale Power Station**

Date: 17/10/2016

Time: 17.33 hrs

Failure at a Glance:

At 17.33 hrs, Unit 01 was tripped due to mechanical trip relay operated.

Pre-fault condition:

Generators:

Readings at 17:32:40 hrs (MW & MVar from SCADA trend graphs, other readings are as per operator observations)

Unit No.	MW	MVar	Voltage kV	AVR on/off	Governor	Remarks
01	46.9	5.4	13.8	ON	Auto,ep2	
02	42.4	1.3	13.9	ON	Auto,ep2	
03	38.7	-0.2	13.9	ON	Auto,ep1	

Transmission Lines:

Readings at 17:32:40 hrs (as per SCADA trend graphs)

Transmission Line	MW	MVar	A	kV
Anu 01	-96.8	20.6	250	224.5
Anu 02	-96.5	20.3	249	225.6
Vic 01	49.5	18.3	139	225.7
Vic 02	48.7	17.3	138	225.0
UK 01	-32.4	-4.1	74	226.9
UK 02	-32.2	-2.2	75	226.4
Biy 01	48.6	50.6	177	225.1
Biy 02	46.3	49.9	179	224.7

(b). Nature of failure:

Equipment	Auto/Man trip	Time of tripping	Indications/Remarks
Unit 2	Auto	17.33	At Control Room <ul style="list-style-type: none"> • Mechanical Trip Relay Operated At Power House Annunciator: <ul style="list-style-type: none"> • Inlet Valve Closing trip • Turbine G.B. Metal Temp. High

3. Restoration

Equipment	Restored time
Unit 1	18:39 hrs

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

At 17.33 hrs, Unit 01 was tripped due to mechanical trip relay operated. During the investigation, it was found that Turbine G.B. Metal Temp. High tripping was initiated by RANVA Temp. monitoring system without prior alarm indication of T.G.B. Metal Temp High. At that time T.G.B. Metal temperature was recorded as 75°C at RANVA Temp. monitoring system and 66°C at Dial Thermometer.

At 18:39 hrs Unit 1 was started after clearing all the indications and alarms.

5. Remedial actions taken to avoid reoccurrence of such failure / [EE (C&I/ EEM)'s note]:**6. Remarks**

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Officer In-Charge of the Power Station

Date: 17/10/2016

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