

C.E. (System Control Centre),

REPORT ON SYSTEM DISTURBANCE / PLANT FAILURE

Power Station: **Kotmale Power Station** Date: 08/02/2016 Time: 14:39 hrs

Failure at a Glance: At 14:39 hrs. Unit 03 –tripped

Pre-fault condition:

Generators:

Readings at 14:30 hrs

Unit No.	MW	MVar	Voltage kV	AVR on/off	Governor	Remarks
01	-	-	-	-	-	
02	-	-	-	-	-	
03	40	10		ON	Auto,ep2	

Transmission Lines:

Readings at 14:00 hrs

Transmission Line	MVar	MW	A	kV
Vic 01	28	62	185	228
Vic 02	26	61	181	227
Anu 01	23	6	73	226
Anu 02	23	6	73	226
UK 01	4	22	51	228
UK 02	2	22	53	228
Biy 01	-59	-122	355	226
Biy 02	-60	-118	358	226

(b). Nature of failure:

Equipment	Auto/Man trip	Time of tripping	Indications/Remarks
Unit 03	Auto	14:39	<p>At Power House</p> <ul style="list-style-type: none"> • Inlet Valve close trip • Emergency shut down • Turbine governor fault • Generator cable pilot wire fault <p>At Relay room</p> <ul style="list-style-type: none"> • Pilot wire protection operated (reset indicator only) • Communication loss –pilot wire protection relay <p>At Control Room</p> <p>White Indications</p> <ul style="list-style-type: none"> • Mechanical trip relay operated

			<ul style="list-style-type: none"> • None –urgent Mechanical .fault • Cable protection faulty • Emergency shutdown • Bay 3- 1st main protection faulty, 1st main protection carrier –fail. • Bay 4- 1st main protection faulty , 1st main protection carrier fail • 220 kV bus bar protection device (heavy faulty) • 220 kV bus bar protection (light faulty) • BBP bay unit failure <p>Common 1</p> <ul style="list-style-type: none"> • 220 DC system faulty • 220 kV +CA.6 AC/DC supply fail • 220 kV +Ju.421 AC/DC supply fail <p>Common 2</p> <ul style="list-style-type: none"> • 11 kV Aux supply faulty • BPF Blocked. • AR Unit device fault.
--	--	--	--

3. Restoration

Equipment	Restored time
Unit 03	15:20hrs on 08/02/2016

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

At 14:39 hrs, Unit 03 at Kotmale Power Station tripped with indication mentioned above.

[Signature]
2016/02/08

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

Root cause under investigation, CE (Protection - AMHE) was informed.

[Signature]
10/02/2016

6. Remarks

SCADA system is under defect liability period & maintained by the contractor under supervision of upper kotmale project. New protection scheme was commissioned by AMHE branch. & fault is under investigation.

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

Date: 08/02/2016

Copy: DGM (MC) – f.i. Pl.