


EVENT ANALYSIS REPORT				
UNIT NO : 02	TPS : Khaperkheda TPS		Unit Capacity : 210 MW	
1. *HO Code :	Station Code : T003	Time - 18:53 Hrs	Date - 08/08/2017	No. of days from last sync. : 0 days
2. Operating conditions at the time of Event :				
Load		Coal Cycles in service	Oil Support	
100 MW		A & B	AB-1, 3 Oil gun I/s	
3. Nature of Event: TA set tripped on Generator Over Voltage Protection.				
4. Name of First Up, Main Protections & Protection on which GCB tripped : Generator Field Failure(First Up), Load Shedding Relay, LTR In Action.				
5 A) Observations: Set was on load at 100 MW with two coal cycles in service. The voltage at generator terminal is around 9.96 KV. Class -B lock out relay operated and set tripped on generator field failure.				
5 B) Remedial Action/work done : It was concluded that load angle limiter was preventing the voltage from getting lowered. This limiter was kept out of service. Also original UN 2010 card (Control amplifier) of regulation panel was restored. It was also ensured that both auto and manual channels input/ output voltages were balanced. Root cause of previous 2 nos. tripping was malfunction of load angle limiter of AVR. Hence this limiter was kept out of service.				
6. Root Cause Analysis : Due to problem in AVR hunting in load & generator voltage observed and set tripped on generator over voltage protection.				
7. Preventive action suggested (Short Term) :				
8. Preventive action suggested (Long Term) :				
9. Similar event occurred last time :		Unit No #2, 210 MW	Time : 07:08 Hrs	Date : 08/08/2017
Event: Set tripped on Generator Protection.				
Remedial Actions :				
1) Generator VT filter (A100) bypassed.				
2) All the connections and TB's in AVR panel checked for any looseness.				
3) Under excitation limiter card XZ9302 was removed.				
4) Test supply made on pulse checked at both auto and manual channel. Also voltages were checked at both auto and manual channels for any unbalance. Voltages were also measured at pulse final stage & power unit.				
9A. Implementation Status of Long Term/Short Term measures stated at Sr No 7 & 8:-				
10. Boiler lighted up		Time - 19:05 Hrs	Date - 08/08/2017	
11. T-A Set Synchronized		Time - 21:17 Hrs	Date - 08/08/2017	
12. Remark :				
 Chief Engineer				
13. Recommendations of Works Section:				
1. Procurement/Replacement Plan:				
2. Operational Error:				
3. Delay in Maintenance:				
4. Delay in bringing back the Unit:				
5. Training of Staff:				
6. Whether remedial action is completed satisfactory & point is closed:				
C E/Dy C E (Works)				