


EVENT ANALYSIS REPORT				
UNIT NO : 03	TPS : Khaperkheda TPS		Unit Capacity : 210 MW	
1. *HO Code :	Station Code : T003	Time - 20:30Hrs	Date - 11/11/2016	No. of Days from last sync. : 19 days
2. Operating conditions at the time of Event :-				
Load	Coal Cycles in service		Oil Support	
110MW	A, B&D		Nil	
3. Nature of Event: T.A. Set forced withdrawn due to generator transformer Y-phase HV bushing problem.				
4. Name of First Up , Main Protections & Protection on which GCB tripped : Hand Tripped (First Up),MFT Operated, Turbine Tripped, Turbine Trip Gear Operated.				
5A)Observations: Since last one month generator transformer Y-phase clamp temperature was observed increasing up to 180°C. The clamp was checked on dt.10.11.16 & tightened on-line by the Mahatransco Hot Line Group but still the temperature was found not dropping. Finally, it was decided to withdraw set for attending the hot spot. On dt. 11/11/16 at 20:00 hrs, set was on load at 158 MW with four coal cycles in service(C&E-U/P) and no oil support. Coal mill - F was withdrawn at 20.25 hrs to reduce the load in order to withdraw set for PG clamp work. Finally, set was hand tripped at 20:30 Hrs. when the load was 110 MW with coal cycle-A, B& D in service.GCB opened on Reverse Power Protection.				
5B) Remedial Action/work done: Both high voltage and low voltage side connections of generator transformer removed. HV winding resistance of the transformer measured and found ok. Clamps removed, necessary checking & cleaning carried out and then the clamps refitted after testing of transformer. High voltage and low voltage side connections normalized. Subsequently, Y-phase clamp temperature found maintaining around 90-100°C.				
6. Root Cause Analysis: Y-phase jumper of HV side is short as compared to R & B phase, which is putting additional load on the clamp and thereby caused increase in the clamp junction temperature.				
7. Preventive action suggested (Short Term): Thermography of HV side connections is being taken on regular basis. Due to short length, Y-phase jumper of HV side (220KV) will be replaced by GCR staff.				
8. Preventive action suggested (Long Term) :				
9. Similar event occurred last time:-	U-3,210 MW	Time-Hrs	Date:	
Event: No similar event found.				
Remedial Action/work done:				
9A. Implementation Status of Long Term/Short Term measures stated at Sr. No 7&8 :				
10. Boiler lighted up	Time - 3:50Hrs	Date-12/11/2016		
11. T-A Set Synchronized	Time -07:16Hrs	Date-12/11/2016		
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)				