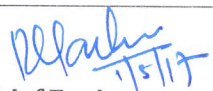


EVENT ANALYSIS REPORT				
UNIT NO : 04	TPS : Khaperkheda TPS		Unit Capacity : 210 MW	
1. *HO Code :	Station Code : T003	Time - 22:22 Hrs	Date - 27/04/2017	No. of days from last sync. : 11 days
2. Operating conditions at the time of Event :-				
Load 80 MW		Coal Cycles in service C & D	Oil Support NIL	
3. Nature of Event : TA set withdrawn to attend clutch problem of Air Heater - 4B.				
4. Name of First Up , Main Protections & Protection on which GCB tripped : Drum Level Very High (First Up), Turbine Tripped, Generator Class-A Trip, Generator Protection Operated.				
5 A) Observations : On dt.27/04/2017 at 15:00 hrs, set was on load with five coal cycles in service and no oil support. At 15.13 hrs, 'AH-4B Rotor Stopped' indication appeared on vertical panel and RPM of the air heater found zero. Flue gas temperature at outlet of AH-4B found rising rapidly. Main electric motor of AH-4B stopped due to which its air motor picked up on auto. AH-4B was continued to run on air motor. On checking by concerned maintenance staff, clutch assembly of AH-4B found disengaged. At 21:00 hrs, set was on load at 174 MW with five coal cycles in service (F - Stand-by) and no oil support. For attending clutch problem of AH-4B, load reduced gradually by withdrawing coal cycles (A, E & B) one by one. Boiler tripped on 'Drum Level Very High' protection when the load was 80 MW with coal cycle - C & D in service. This was led to tripping of unit at 22.22 hrs. GCB opened on reverse power protection.				
5 B) Remedial Action/work done : <u>Work carried out :</u> (1) Replacement of uni-directional over-running clutch assembly. (2) Checking fluid coupling and replacement of oil. (3) Resilience plate checking and tightening of bolts (4) Coupling & trial of AC motor. (5) AC main motor of APH-4B checked electrically and found ok.				
6. Root Cause Analysis : Failure of uni-directional over-running clutch assembly of main drive mechanism of APH-4B is the root cause of failure of AC motor drive.				
7. Preventive action suggested (Short Term) : Servicing / Replacement of (1) AC main drive mechanism fluid coupling (2) Main drive gear box and (3) Air motor will be carried out during overhaul (July-17) of Unit-4.				
8. Preventive action suggested (Long Term) :				
9. Similar event occurred last time :	Unit No # 4 , 210 MW	Time : Hrs	Date :	
Event : No similar event found.				
Remedial Actions :				
9A. Implementation Status of Long Term/Short Term measures stated at Sr No 7 & 8 :-				
10. Boiler lighted up	Time - 03:00 Hrs	Date - 28/04/2017		
11. T-A Set Synchronized	Time - 05:59 Hrs	Date - 28/04/2017		
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)				