


EVENT ANALYSIS REPORT

UNIT NO : 02					TPS : Khaperkheda TPS		Unit Capacity : 210 MW		
1. *HO Code :		Station Code : T003		Time - 21:29Hrs		Date - 22/05/2016		No. of days from last sync. : 39 days.	
2. Operating conditions at the time of Event :									
Load			Coal Cycles in service				Oil Support		
68 MW			A, B & C				AB-2 & CD-1		
3. Nature of Event : Set withdrawn (hand tripped) due to ID Fan-2A bearing temperature high.									
4. Name of First Up , Main Protections & Protection on which GCB tripped : Hand Tripped, [First Up], Turbine Trip to Boiler Trip, Gen. Protection Operated, Load Shedding Relay Operated.									
5A) Observations : On date 22/05/2016 at 17:00 hrs, set was on load at 165 MW with five coal cycles (E-U/P) in service and no oil support. At 17.10 hrs, ID Fan-2A DE bearing temperature very high indication appeared. At 17:35 hrs Coal cycle-2F & 2D withdrawn introducing oil support. At 17:43 hrs, ID Fan-2A tripped on DE bearing temperature very high (70 °C). To carry out work on ID Fan-2A DE bearing, TA set forced withdrawn at 21:29 hrs when load was 68 MW with coal mills-A, B & C in service. Boiler hot-banked.									
5B) Remedial Action/Work done: (1) Polishing the exposed surface of lower half of babitted housing and blue matching. (2) Checking of water leakages at water jackets and found ok. (3) Checking of water leakages at suction & discharge pipes and found ok.									
6. Root Cause Analysis : Breaking of lubricating oil film at driving end bearing of ID Fan-2A might be the root cause for bearing temperature very high, which resulted in tripping of ID fan-2A attributing towards mud/ sludge in G.S water obstructing smooth flow to bearing jackets.									
7. Preventive action suggested (Short Term) :- (1) Periodical checking of lubricating oil level. (2) Periodical checking of external cooling.									
8. Preventive action suggested (Long Term) :- Cleaning of water jackets by carbonic acid during forthcoming AOH.									
9. Similar event occurred last time:-				Unit No # 2 , 210 MW		Time : 10:07Hrs		Date 13/04/2016	
Event: Set withdrawn (hand tripped) for extension of boiler validity and ID fan A brg. Work. Remedial Actions: ID fan 2A DE bearing replaced. NDE bearing clearances checked. Coupling brushes replaced. Fan casing leakages attended. For extension of boiler validity statutory hydraulic test carried out in presence of Joint Director of Steam Boiler, Nagpur at 201.88 Kg/cm2 and found satisfactory.									
9A. Implementation Status of Long Term/Short Term measures stated at Sr. No 7 & 8 :- The above corrective action will be implemented in July-16 by BM-I section.									
10. Boiler lighted up				Time - 07:53 Hrs			Date - 23/05/2016		
11. T-A Set Synchronized				Time - 10:20 Hrs			Date - 23/05/2016		
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)									