


EVENT ANALYSIS REPORT				
UNIT NO : 04	TPS : Khaperkheda TPS		Unit Capacity : 210 MW	
1. *HO Code :	Station Code : T003	Time - 01:02 Hrs	Date - 15/05/2016	No. of days from last sync. : 02 days
2. Operating conditions at the time of Event :-				
Load 109 MW		Coal Cycles in service B, C & D		Oil Support NIL
3. Nature of Event : TA set tripped (hand tripped) due to boiler tube leakage at economizer zone.				
4. Name of First Up , Main Protections & Protection on which GCB tripped : Hand Tripped (First Up), Turbine Tripped, MFT Operated				
5 A) Observations : - On Dt.15/05/2016 at 00.00 hrs, set was on load at 207 MW with five coal cycles in service (F-standby) and no oil support. At 00.15 hrs, abnormal sound like tube leakage observed in economizer zone near LRSB-71, also water observed at ESP hopper. Drum level found dropped to low level with sudden increase in DM make-up. Due to this load started reducing by withdrawing coal cycles- 4E & 4A, one by one. Set hand tripped at 01:02 hrs when the load was 109 MW with coal mills-B, C, & D in service and no oil support.				
5 B) Remedial Action/work done : - <u>Primary Failure</u> - Economizer upper bank coil no. 99, tube No.3 found fish mouth opening punctured and coil No. 113, tube No.8 found pin hole punctured. Economizer coil No. 99 & 113 plugged by providing hemispherical spools at economizer intermediate & inlet header. (Total Joints - 04 Nos) <u>Secondary failure</u> - There is no secondary failure observed.				
6. Root Cause Analysis: - Localized and concentrated flue gas erosion might be the root cause of failure of tube no.3 of economizer upper bank coil no.99 and tube no. 8 of economizer upper bank coil no. 133.				
7. Preventive action suggested (Short Term) :- 1) Normalization of dummied coil No.99 & 133 during forthcoming AOH of Unit-4. 2) Replacement of eroded & dummied coils will be carried out during forthcoming AOH of Unit-4.				
8. Preventive action suggested (Long Term) :-				
9. Similar event occurred last time:-	Unit No # 4 , 210 MW	Time : 03:00 Hrs	Date: 11/05/2016	
Event : TA Set withdrawn to attend Boiler Tube Leakage at Economizer Zone.				
Remedial Actions : Economizer upper bank coil No. 156 & 112 attended by welding hemispherical spools at economizer intermediate and inlet header.				
9A. Implementation Status of Long Term/Short Term measures stated at Sr No 7 & 8 :- The above corrective action will be implemented in September-16 by BM-I section.				
10. Boiler lighted up	Time - 04:10 Hrs	Date - 16/05/2016		
11. T-A Set Synchronized	Time - 07:46 Hrs	Date - 16/05/2016		
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)				