


# EVENT ANALYSIS REPORT

UNIT NO : 03	TPS : Khaperkheda TPS	Unit Capacity : 210 MW		
1. *IO Code :	Station Code : T003	Time - 22:47 Hrs.	Date - 06/09/2017	No. of days from last sync. : 6 days.
2. Operating conditions at the time of Event :				
Load		Coal Cycles in service		Oil Support
145 MW		A, B, C, D, E		Nil
3. Nature of Event: Set tripped on drum level very low protection.				
4. Name of First Up , Main Protections & Protection on which GCB tripped : Drum Level Very Low [First Up], MFT operated, Trip Gear Operated, Turbine Trip.				
5A) Observations: On dt. 29/08/2017 at 22:47 hrs, set was on load at 145 MW with five coal cycles in service (C/c - F-S/by) and no oil support. Considerable variation in feed flow was observed, with abnormal sound at 42.8 mtr. in Economizer hopper and also near LRSB 78. Drum level found dropping and DM make-up found increased to 80 TPH. Boiler drum level come down to -190 mm with furnace draft increased to + 25 mmwc and set tripped on drum level very low protection.				
5B) Remedial Action/Work done: <u>Primary Failure:</u> Economizer upper bank coil no. 63 tube no. 3 found puncture. <u>Secondary Failure:</u> No secondary failures are observed. <u>Work carried out:</u> 1) Economizer coil no.63 attended by welding hemispherical spool at economizer intermediate & economizer inlet header. <b>Total no. of H.P weld joints =02 Nos.</b>				
6. Root Cause Analysis: Localized flue gas erosion of tube no. 3 of economizer coil no.63 is the root cause of failure.				
7. Preventive action suggested (Short Term) :-				
8. Preventive action suggested (Long Term):- Replacement of all Eco. Coils will be carried out during SSD or during AOH of Unit-3 .				
9. Similar event occurred last time:-	Unit No # 2 , 210 MW	Time: 16:57 Hrs.	Date: 29/08/2017	
Event: TA set forced withdrawn due to boiler tube leakage at Economiser zone. <b>Remedial Actions:</b> <u>Primary Failure:</u> Economizer upper bank coil no. 66 tube no. 18 found punctured at rear end inside the cassette baffle. <u>Secondary Failure:</u> No secondary failures are observed. <u>Work carried out:</u> 1) Economizer coil no.66 attended by welding hemispherical spool at economizer intermediate & economizer inlet header. <b>Total no. of H.P weld joints =02 Nos.</b>				
9A. Implementation Status of Long Term/Short Term measures stated at Sr. No 7 & 8 :-				
10. Boiler lighted up	Time - 17:35 Hrs	Date - 07/09/2017		
11. T-A Set Synchronized	Time - 21:35Hrs	Date - 07/09/2017		
12. Remark :				
<div style="text-align: right;">   <b>Chief Engineer</b> </div>				
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)				