EVENT ANALYSIS REPORT							
UNIT NO: 01	TPS: Khaperkhe	Unit Capacity : 210				T	
1. *HO Code:	Station Code: T003		Time - 22:26 Hrs		Pate - 09/2015	No. of	days from last sync. : 17 days
2. Operating conditions at the time of Event :-							
Load			Coal Cycles in service			Oil Support	
38 MW			Nil				Nil
3. Nature of Event:	T.A. Set withdrawn du	er tube leakage	at econo	omizer side.			
4. Name of First Up, Main Protections & Protection on which GCB tripped: Flame Failure Trip. (First Up): Turbine Tripped, Generator Reverse Power Relay Operated, Generator Protection Operated.							
5A) Observations : At 21:42 hrs, Set was running with five coal mills in service. Suddenly, furnace draft found rising to +35 mmwc and drum level found decreasing. DM make up also found increased to 135 T/hr. To control these parameters, coal mill D, E & C withdrawn one by one. After ensuring boiler tube leakage, remaining coal mills, i.e., C/M-B & A and oil support was started withdrawing. Set tripped on "Flame Failure Trip" while withdrawing the set due to boiler tube leakage.							
5 B) Remedial Action/work done: Economiser upper bank Coil No.105, 106 & 108 plugged by providing hemispherical spool at economiser intermediate and at Economizer inlet header. (Total Number of Joints = 6 Nos)							
 6. Root Cause Analysis: Concentrated flue gas erosion might be the root cause of failure of Tube No.3 of economizer upper bank coil No.106, as thin lip burst was observed. (1) Primary failure: Tube No.3 of economiser upper bank coil No.106 found bent & fish mouth opening punctured. (2) Secondary failure: (i) Tube No.3 & 4 of economiser upper bank coil No.105 found eroded. (ii) Tube No.3 & 4 of economiser upper bank coil No.108 found eroded. (iii) Tube No.2 of economiser upper bank coil No.109 found deep groove marked. 							
7. Preventive action suggested (Short Term): During forth coming AOH of Unit No.1 - (1) Dummied economiser coil No. 105, 106 & 108 will be normalized. (2) Erosion profile mapping of economiser coils will be carried out. (3) Cold air velocity test (CAVT) will be carried out.							
8. Preventive action	n suggested (Long Te	rm) :-	4	·		8	
9. Similar event occurred last time:- Unit l		No # 1, 210 MW		Time :		Date:	
Event: - No such event found.							
9A. Implementation Status of Long Term/Short Term measures stated at Sr No 7 & 8:-							
10. Boiler lighted up			Time - 14:25 Hrs			Date- 08/09/2015	
11. T-A Set Synchronized			Time - 19:30 Hrs		Date- 08/09/2015		
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:							
	al action is completed	l satisfa	ctory & point	is closed	d:		
C E/Dy C E (Works)							