


EVENT ANALYSIS REPORT				
UNIT NO : 02	TPS : Khaperkheda TPS		Unit Capacity : 210 MW	
1. *HO Code :	Station Code : T003	Time - 07:23 Hrs	Date - 09/04/2017	No. of days from last sync. : 17 days
2. Operating conditions at the time of Event :-				
Load		Coal Cycles in service	Oil Support	
197 MW		A, B, C, E & F	Nil	
3. Nature of Event : TA set tripped due to flame failure.				
4. Name of First Up , Main Protections & Protection on which GCB tripped : Flame Failure (First Up), Turbine Tripped, Generator protection operated, Generator Class-A operated, PT Fuse Fail.				
5 A) Observations : On dt. 09-04-17 at 07:00 hrs, set was on load at 197 MW with five coal cycles (A, B, C, E & F) in service and no oil support. Bottom ash evacuation was in progress. Due to shear pin failure of coal feeder-D at 07.10 hrs, Coal cycle-D changed over to Coal cycle-A. In the mean time furnace draft (reached to -100 mmwc) found disturbed due to sudden falling of heavy clinker. Due to this furnace flame disturbed and boiler tripped on 'Flame Failure', which ultimately resulted in unit tripping at 07.23 hrs. GCB opened on Reverse Power Protection.				
5 B) Remedial Action/work done: No work done.				
6. Root Cause Analysis: Due to sudden falling of heavy clinker, furnace draft disturbed. This resulted in flame disturbance and consequently boiler tripped on 'Flame Failure' protection.				
7. Preventive action suggested (Short Term) : Circular (No.143 dated 22-04-17) issued to all concerned to take oil support immediately in case of changeover of coal mills or failure of shear pin of coal feeder, so long as bottom ash evacuation is in progress.				
8. Preventive action suggested (Long Term) :				
9. Similar event occurred last time:-	Unit No #2, 210 MW	Time : 14:42 hrs	Date : 18/02/2015	
Event: T.A. Set tripped on "Flame Failure". Remedial Actions: No Work Done.				
9A. Implementation Status of Long Term/Short Term measures stated at Sr No 7 & 8:-				
10. Boiler lighted up	Time - 09:30 Hrs	Date - 09/04/2017		
11. T-A Set Synchronized	Time - 11:59 Hrs	Date - 09/04/2017		
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)				