


| EVENT ANALYSIS REPORT | | | | |
|--|-----------------------|------------------------|------------------------|-------------------------------------|
| UNIT NO : 04 | TPS : Khaperkheda TPS | | Unit Capacity : 210 MW | |
| 1. *HO Code : | Station Code : T003 | Time - 14:31 Hrs | Date - 18/10/2015 | No. of days from last sync. : 0 day |
| 2. Operating conditions at the time of Event :- | | | | |
| Load | | Coal Cycles in service | Oil Support | |
| 150 MW | | A, B, C, D&E | NIL | |
| 3. Nature of Event : Boiler tripped on "Furnace Pressure Very Low" protection and set tripped on boiler trip interlock. | | | | |
| 4. Name of First Up , Main Protections & Protection on which GCB tripped : Furnace Pressure Very High (First Up), Turbine Tripped , Gen. Protection Operated , MFT operated, GCB opened on RPP. | | | | |
| 5 A) Observations : T.A. Set was sharing 150 MW Load with five coal cycle A,B,C,D&E in service. At 14:31 Hrs, set tripped on 'Furnace Pressure Very Low'. | | | | |
| 5 B) Remedial Action/work done: - No work carried out. | | | | |
| 6. Root Cause Analysis : Due to falling of big clinker, furnace draft disturbed and increased to positive direction. Thereupon ID fan response made the draft to become more negative and ultimately set tripped on Furnace pressure very low. It is suspected that clinker formation might be due to very poor coal quality. Since last 32 hrs from the incidence reclaim plus LOCM coal was being bunkered, which was experienced to have clinkering tendency. | | | | |
| 7. Preventive action suggested (Short Term) :- | | | | |
| 8. Preventive action suggested (Long Term) :- | | | | |
| 9. Similar event occurred last time:- | | Unit No # 4 , 210MW | Time : 05:20 Hrs | Date: 30/06/2013 |
| Event : T.A. Set tripped on "Furnace Pressure Very Low". | | | | |
| 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 - 10:52 Hrs | Date- 20/10/2015 | |
| 11. T-A Set Synchronized | | Time - 16:08 Hrs | Date- 20/10/2015 | |
| 12. Remark : On dt.18.10.2015, boiler was lighted up at 15:05 hrs with oil guns CD-1&3 in service. But, due to barring gear jamming (HPC T/B - 497/472, IPC T/B - 374/472 °C) boiler banked at 16:15 hrs. Turbine was allowed to be naturally cooled for resumption of barring gear. Finally, on dt.20.10.2015 barring gear resumed at 08:45 hrs when HPC T/B - 315/285, IPC T/B - 260/178 °C. As such the delay in bringing back the unit on bar mainly caused due to barring gear jamming. | | | | |
|  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) | | | | |