


| EVENT ANALYSIS REPORT  |                       |                         |                        |   |
|--|-----------------------|-------------------------|------------------------|---|
| UNIT NO : 02   | TPS : Khaperkheda TPS |                         | Unit Capacity : 210 MW |   |
| 1. *HO Code :  | Station Code : T003   | Time -<br>10:36 Hrs     | Date -<br>26/12/2015   | No. of days from last sync. :<br>3 days |
| 2. Operating conditions at the time of Event :-  |                       |                         |                        |   |
| Load   |                       | Coal Cycles in service  |                        | Oil Support                             |
| 75 MW  |                       | C & D                   |                        | NIL                                     |
| 3. Nature of Event : Set withdrawn to replace AC motor of Air Pre-heater-2A.   |                       |                         |                        |   |
| 4. Name of First Up , Main Protections & Protection on which GCB tripped :<br>Gen. Protection Operated, Load Shedding Relay Operated, Generator Reverse Power Protection Operated.   |                       |                         |                        |   |
| 5A) Observations : At 10:00 hrs on dt. 26.12.2015 set was on load at 165 MW with five coal cycles (A, C, D, E & F) in service. Load started reducing by withdrawing coal cycles one by one in order to withdraw the set for replacing AC motor of APH-2A. Set hand tripped at 10:36 hrs on dt. 26.12.2015 when load was 75 MW with coal cycles - C & D in service. |                       |                         |                        |   |
| 5B) Remedial Action/Work done : Air heater main drive motor - 2A replaced with spare motor as its stator winding found earthed and its power fuses (2 Nos) blown off. After completion of replacement work its decoupled & coupled trial taken and found ok.   |                       |                         |                        |   |
| 6. Root Cause Analysis : Stator winding of AC motor of Air heater - 2A found earthed and its power fuses (2 Nos) blown off.  |                       |                         |                        |   |
| 7. Preventive action suggested (Short Term) :-   |                       |                         |                        |   |
| 8. Preventive action suggested (Long Term) :-  |                       |                         |                        |   |
| 9. Similar event occurred last time:-  |                       | Unit No # 2 ,<br>210 MW | Time :                 | Date :                                  |
| Event : NIL<br>Remedial Actions :  |                       |                         |                        |   |
| 9A. Implementation Status of Long Term/Short Term measures stated at Sr. No 7 & 8 :-   |                       |                         |                        |   |
| 10. Boiler lighted up  |                       | Time - 16:16 Hrs        | Date - 26/12/2015      |   |
| 11. T-A Set Synchronized   |                       | Time - 17:56 Hrs        | Date - 26/12/2015      |   |
| 12. Remark :-  |                       |                         |                        |   |
| <br>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)   |                       |                         |                        |   |