EVENT ANALYSIS REPORT				
UNIT NO : 03	**TPS : Khaperkheda TPS**		**Unit Capacity : 210 MW**	
1. *HO Code :	**Station Code : T003**	**Time – 00:20 Hrs**	**Date - 02/02/2016**	**No. of Days from last sync. : 43 days**

2. Operating conditions at the time of Event :-

Load	Coal Cycles in service	Oil Support
75 MW	A, B & C	Nil

3. Nature of Event: T.A. Set withdrawn for Bottom Ash Hopper & related work.

4. Name of First Up , Main Protections & Protection on which GCB tripped :
Hand Tripped **(First Up)**, MFT Operated, Turbine Trip, Trip Gear Operated.

5A) Observations: At 00:00 Hrs on dt 02/02/15, set was on load at 136 MW with five coal cycles (A, B, D, E and F) in service. Coal cycle-C was standby. Load reduced by withdrawing coal cycles E & F one by one in order to withdraw the set for bottom ash hopper and related works. Finally, Set withdrawn at 00:20 Hrs on dt. 02/02/16, when load was 75 MW with 3 coal cycles A, B & C in service.

5B) Remedial Action/work done: -
(1) Loose refractory of bottom ash hopper at vertical wall bottom portion removed after breaking the same and necessary repairing of the hopper carried out. Fresh refractory applied then to front slant portion @ 500 mm X 18000 mm and to rear slant portion of BAH @ 500 mm X 12000 mm.
(2) 12 Nos seal plates (chimney side) were found detached, refitted the same.
(3) Seal trough corner leakage attended by repairing seal trough and application of stiffeners.

6. Root Cause Analysis: Sudden falling of heavy clinkers due to worn out coal nozzles might be the root cause of failure of Bottom Ash Hopper slant and dome portion.

7. Preventive action suggested (Short Term):-

8. Preventive action suggested (Long Term) :-
(1) Thorough cleaning of furnace water wall, rear arch, burner panel, primary super heater and reheater slant.
(2) Replacement of all worn out coal Compartments.
(3) Repair & strengthening of Bottom Ash Hopper.

9. Similar event occurred last time:-	**U - 3, 210 MW**	**Time- 02:13 Hrs**	**Date: 07/12/2013**

Event: T.A. Set tripped on "Furnace Pr. V. High"& Outage extended to attend B.A. Hopper & Seal Trough leakages .
Remedial Action/work done: **BM:**

1. Seal Trough fabricated 90⁰ 'J' Profile piece replaced at Corner No.4
2. Seal Trough fabricated 90⁰ 'J' Profile piece replaced at Corner No.1
3. Dome Portion of Front side Bottom Ash Hopper repaired by removal of Refractory, Welding and Repair of Mother Plate and application of refractory.
4. Rear Side LHS Hopper & RHS Hopper repaired by Welding Overlapping plates and replacement of ISMB – 350 mm structure Column. (ISMB – Indian Standard Medium Beam)

9A. Implementation Status of Long Term/Short Term measures stated at Sr. No 7 & 8:- The above preventive actions will be implemented by April - 2016.

10. Boiler lighted up	**Time – 16:00 Hrs**	**Date- 05/02/2016**
11. T-A Set Synchronized	**Time – 20:13 Hrs**	**Date- 05/02/2016**

12. Remark: - Boiler hydraulic test carried out and found ok.

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)