


EVENT ANALYSIS REPORT				
UNIT NO : 04	TPS : Khaperkheda TPS		Unit Capacity : 210 MW	
1. *HO Code : *	Station Code : T003	Time - 10:46 Hrs	Date - 24/11/2015	No. of days from last sync. : 10 days
2. Operating conditions at the time of Event :-				
Load		Coal Cycles in service	Oil Support	
95 MW		C, D	NIL	
3. Nature of Event: Unit withdrawn to replace gland box sheared-off bolts at LPT.				
4. Name of First Up , Main Protections & Protection on which GCB tripped : Hand Tripped (First Up), Generator Class "A" Trip, Generator Protection Operated, Generator Low Forward Power Protection Operated, Emergency Turbine Tripped.				
5 A) Observations:- At 10:00 hrs on date 24/11/2015, unit was on load at 143 MW with 5 Coal cycles (A, B, C, D & E) in service. The load was started reducing by withdrawing coal cycles one by one in order to withdraw the unit for replacing sheared off bolts of LPT gland box. Set Hand Tripped at 10:46 hrs on date 24/11/2015 when load was 95 MW with coal cycles C & D in service.				
5 B) Remedial Action/work done: - 02 Nos broken bolts of LPT rear gland box replaced with new ones. One of the bolts was found cracked during DPT test, so, the same also replaced with new one (Total three no. of bolts replaced).				
6. Root Cause Analysis:- LPT rear gland box bolts damaged due to high vibrations of turbine shaft & bearings. At about 10:00 hrs on dt. 24/11/2015, Shaft vibrations (microns) : $X_2 = 132$, $Y_2 = 52$, $X_4 = 88$, $Y_4 = 116$ Bearing vibrations (microns) : $X_4 = 28$, $Y_4 = 32$				
7. Preventive action suggested (Short Term) :-				
8. Preventive action suggested (Long Term) :-				
9. Similar event occurred last time:-		Unit No # 4 , 210MW	Time : 12:25 Hrs	Date: 13/11/2015
Event: Unit withdrawn to replace gland box sheared-off bolt at LPT.				
Remedial Actions: - 4 Nos of gland box bolts replaced with new ones. Centering done, washer clearance adjusted and kept 0.5 mm along the shaft and gland box.				
9A. Implementation Status of Long Term/Short Term measures stated at Sr No 7 & 8 :-				
10. Boiler lighted up		Time - 22:45 Hrs	Date- 24/11/2015	
11. T-A Set Synchronized		Time - 02:36 Hrs	Date- 24/11/2015	
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:				
6. Whether remedial action is completed satisfactory & point is closed:				
C E/Dy C E (Works)				