


# **EVENT ANALYSIS REPORT**

<b>UNIT NO : 04</b>		<b>TPS : Khaperkheda TPS</b>		<b>Unit Capacity : 210 MW</b>	
<b>1. *HO Code :</b>	<b>Station Code :</b> T003	<b>Time -</b> 06:18 Hrs	<b>Date -</b> 07/10/2017	<b>No. of days from last sync. :</b> 1 days	
<b>2. Operating conditions at the time of Event :-</b>					
<b>Load</b>		<b>Coal Cycles in service</b>		<b>Oil Support</b>	
55 MW		A & B		LDO AB 2/4	
<b>3. Nature of Event:</b> TA set hand tripped due to high shaft vibration.					
<b>4. Name of First Up , Main Protections &amp; Protection on which GCB tripped :</b> Hand Tripped (First Up), Turbine Tripped, MFT Operated, Generator Protection.					
<b>5 A) Observations:</b> As Unit-4 shaft vibrations was on higher side (210/159). Set hand tripped on 06:18 Hrs.					
<b>5 B) Remedial Action/work done:</b> Trim balancing work of HPT & IPT carried out.					
<b>6. Root Cause Analysis:</b> Due to high shaft vibration of unit-4 set was hand tripped.					
<b>7. Preventive action suggested (Short Term) :</b>					
<b>8. Preventive action suggested (Long Term) :</b>					
<b>9. Similar event occurred last time :</b>		<b>Unit No # 4 , 210 MW</b>	<b>Time : 21:56 Hrs</b>	<b>Date : 09/01/2017</b>	
<b>Event:</b> T. A. set tripped due to axial shift very high.					
<b>Remedial Actions:</b> Internal inspection of turbine bearing no.2 & 4 carried out after dismantling the same. Heavy pitting marks observed on axial keys of generator side & adjacent side faces where the axial keys are located and also on the pedestal of bearing no.2. Heavy pitting marks observed also on torous & support of bearing no.2 & 4. Primary & secondary pressure grouting of bearing no.2 & 4 carried out. Complete matching of torous & support contact of both the bearings and blue matching of bearing no.2 axial keys & key faces done. LPT rear gland box centering done.					
<b>9A. Implementation Status of Long Term/Short Term measures stated at Sr No 7 &amp; 8 :-</b>					
<b>10. Boiler lighted up</b>		<b>Time - 12:00Hrs</b>	<b>Date - 07//10/2017</b>		
<b>11. T-A Set Synchronized</b>		<b>Time - 16:13 Hrs</b>	<b>Date - 08/10/2017</b>		
<b>12. Remark :</b>					
 <b>Chief Engineer</b>					
<b>13. Recommendations of Works Section :</b>					
<b>1. Procurement/Replacement Plan:</b>					
<b>2. Operational Error:</b>					
<b>3. Delay in Maintenance:</b>					
<b>4. Delay in bringing back the Unit:</b>					
<b>5. Training of Staff:</b>					
<b>6. Whether remedial action is completed satisfactory &amp; point is closed:</b>					
<b>C E/Dy C E (Works)</b>					