


# **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> 16:10 Hrs	<b>Date -</b> 09/01/2017	<b>No. of days from last sync. :</b> 11 Days
<b>2. Operating conditions at the time of Event :-</b>				
<b>Load</b>		<b>Coal Cycles in service</b>		<b>Oil Support</b>
135 MW		B, C & D		NIL
<b>3. Nature of Event :</b> T. A. set forced withdrawn due to GTR-4 'Y' phase CT oil leakage in 220 KV yard (GCR).				
<b>4. Name of First Up , Main Protections &amp; Protection on which GCB tripped :</b> Hand Tripped (First Up), Generator Class A, MFT Operated, Turbine Tripped.				
<b>5 A) Observations:</b> On dt. 09/01/17 at 15.00 hrs, set was on load at 189 MW with five coal cycles in service (E – S/by) and no oil support. At 14.52 hrs email received from GCR regarding 'Y' phase CT oil leakage of GTR-4. Coal mills – A & F were withdrawn one by one for reducing load in order to withdraw the set. Finally, set withdrawn at 16:10 hrs when the load was 135 MW with coal cycle – B, C & D in service. GCB opened on Reverse Power Protection.				
<b>5 B) Remedial Action/work done:</b> GTR-4 Line Isolator, LBB Link opened at both, GCR & PCR end. Local earthing provided at generator side (HV side of GTR). CT oil leakage of GTR-4 'Y' phase attended by GCR by means of applying steel putty on sealing of its collar nut bolts (22 Nos). Earthing removed & isolations normalized after attending the oil leakage.				
<b>6. Root Cause Analysis :</b> CT oil leakage of GTR-4 'Y' phase due to ageing of gasket / seal ring of its oil tank collar nut bolts.				
<b>7. Preventive action suggested (Short Term) :</b> A letter ( No.15151 dtd. 04.02.17.) is sent to GCR, Khaperkheda for preventive maintenance schedule for CTs of all the GTRs to prepare and follow. CT connections of GTR of all the units (1 to 4) along with gasket / seal ring of collar nut bolts to be checked & attended in the possible opportunities.				
<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: 12:32 Hrs</b>	<b>Date: 22/11/16</b>
<b>Event :</b> T. A. set forced withdrawn due to GTR-4 'R' phase CT oil leakage in 220 KV yard (GCR). <b>Remedial Action / work done :</b> GTR-4 Line Isolator, LBB Link opened at both, GCR & PCR end. Local earthing provided at generator side (HV side of GTR). CT oil leakage of GTR-4 'R' phase attended by GCR by means of tightening its stud nut bolt. Earthing removed & isolations normalized after attending the oil leakage. A letter (No.623 dtd. 07.12.16) is sent to GCR, Khaperkheda for preventive maintenance schedule for CTs to follow.				
<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 - 19:35Hrs</b>	<b>Date - 09/01/2017</b>	
<b>11. T-A Set Synchronized</b>		<b>Time - 21:40 Hrs</b>	<b>Date - 09/01/2017</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>				

KHG / Dy.CE-I / 210 MW /

15151

Date: 04 FEB 2017

To,  
Addl. Ex. Engineer,  
Mahatransco, GCR,  
Khaperkheda.

**Kind Attention : Sh M.P.Kolte.**

**Sub :** Preventive maintenance of collar nut bolts of oil tank of CTs.

**Ref :** CT oil leakage of GTR-4 'Y' phase on dt.09.01.17.

Dear Sir,

With reference to above, it is requested to prepare preventive maintenance schedule for CTs of all the GTRs. Looking at the outage of Unit-4 on dt.09.01.17 for attending CT oil leakage of GTR-4 'Y' phase, gaskets / seal ring of nut bolts of GTR of all the units of Khaperkheda need to be checked & attended in the possible opportunities to come.

Thanking You.

  
**Dy. Chief Engineer-I**  
**Khaperkheda TPS**

**Copy s.w.r. to :**

The Chief Engineer, MSPGCL, Khaperkheda.

**Copy to :**

- (1) SE (O-I) / SE (M-I), Khaperkheda.
- (2) EE (General) / (OS-I) / EE (EM-I), Khaperkheda.

Received on 07.02.17

  
**Addl. Executive Engineer**  
**220KV, Khaparkheda, Sub-Station**