EVENT ANALYSIS REPORT							
UNIT NO: 04	Unit Ca	Unit Capacity : 210 MW					
1. *HO Code :	Station Code : T003	Time - 06:32 Hrs	Date - 23/05/201	1	No. of days from	m last sync.:	
2. Operating conditions at the time of Event :-							
Load Coal Cycles in service Oil Support							
130 MW		A, C, D & E			NIL		
3. Nature of Event: Unit withdrawn to attend broken bolts of LPT rear gland box.							
4. Name of First Up, Main Protections & Protection on which GCB tripped:							
Hand Tripped (First Up), MFT Operated, Turbine Tripped, Generator Class-A Operated.							
5 A) Observations: At 06:00 hrs on date 23/05/2017, unit was on load at 162 MW with 5 Coal cycles							
(Coal mill – B standby) in service. At 06.20 hrs, load was started reducing by withdrawing coal cycle – F in order							
to withdraw the unit for replacing broken bolts (2 Nos – A & E) of LPT rear gland box and turbine bearing no.4							
having high vibrations. Finally, set hand tripped at 06:32 hrs on date 23/05/2017 when load was 130 MW with							
four coal cycles in service. GCB opened on 'Reverse Power Protection'.							
5 B) Remedial Action/work done :							
<ul><li>(1) Two nos of broken bolts (A &amp; E) of LPT rear gland box, replaced with new ones.</li><li>(2) Centering of gland box done.</li></ul>							
6. Root Cause Analysis: LPT rear gland box bolts (2 Nos – A & E) found damaged due to high axial vibrations							
(Displacement – 318 microns and Velocity – 50.5 mm/s as on dt.19.05.17) of turbine bearing No.4.							
At about 05:00 hrs on dt. 23/05/2017, bearing vibrations (microns): $X_4 = 49$ , $Y_4 = 56$ .							
7. Preventive action suggested (Short Term):							
8. Preventive action suggested (Long Term): During U-4 overhaul (Jul-17), following works will be taken up. (1) LPT rotor run-out removal and high speed balancing work. (2) New gland box installation work. (3) Pedestal No.4 regrouting work.							
9. Similar event occurred last time :		Unit	<b>No # 4</b> , 210MW	, 210MW <b>Time:</b> 00:17 Hrs		<b>Date</b> : 17/05/2017	
Event: Unit withdrawn to attend broken bolts of LPT rear gland box.							
Remedial Actions: (1) All the bolts (8 Nos) of LPT rear gland box, replaced with new ones.							
(2) Gland sealing pipes, inlet as well as outlet, re-welded after stress removal.							
(3) Centering of gland box done with new washers and new keys.							
9A. Implementation Status of Long Term/Short Term measures stated at Sr No 7 & 8:-							
10. Boiler lighted up		Time	<b>Time</b> – 13:27 Hrs		Date - 23/05/2017		
		Time	e – 17:12 Hrs	17:12 Hrs		<b>Date</b> - 23/05/2017	
12. Remark :					Ch	Maly 316 itef Engineer	
13. Recommendat	tions of Works Sec	tion:					
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)							