

<div>Checklist of Transformers</div> <div>50MW P-4 BLOCK,NTPC,SOLAR POWER PLANT,MANDSAUR,MP.</div>		
<div>Date:</div> <div>Time:</div>		
S.No	Description	Remarks
1	Observe for normal operation / noise. If any abnormality observed, take necessary action / report to superior.	
2	Check the oil level in conservator and top up with tested oil if the level is fallen below minimum level, note down the quantity of oil used for top up.	
3	Check for any oil leakages at radiator flange, HV bushings, LV bushings tank cover etc and take necessary action.	
4	Clean transformer body, radiator etc. Ensure that all the radiator valves are open.	
5	Check for any rust / paint peel off etc and take necessary action. Replace corroded hard wares.	
6	Clean with dry cotton cloth. Use cleaning agents like acetone if necessary.	
7	Examine for surface cracks. If found, bushing to be replaced.	
8	If any oil leakage / seepage observed from bushing pocket, tighten bushing fixing screws / take necessary action such as replacing of gasket, as required.	
9	Check the color of silica gel. If it is pink / white, replace with reactivated / new silica gel.	
10	Check the oil level in the cup and top up if necessary.	
11	Check the condition of terminal connections for signs of overheating / looseness LV1, LV2 & HV. If found, take necessary action such as tightening. Badly heated / burnt lugs to be replaced.	
12	Check that the LV cable box is weather proof. Replace damaged gasket, replace rusted bolts / nuts etc. Check and ensure cable glands are in good condition.	
13	Check that the diaphragm is not punctured / Cracked. If so, replace.	
14	Observe oil in Buchholz relay, If found any gas / air in the relay sight glass, same shall be brought to the notice of superiors.	
15	Note down the oil temperature at the time of maintenance.	
16	Note down the maximum oil temperature.	
17	Ensure that oil is present in the thermo well pocket.	
18	Check the IR value: Primary - Earth	
	Secondary - Earth	
	Primary - Secondary	
19	Switch position of Tap changer.	
20	Water content of oil.	
21	Acidity of the transformer oil.	
22	Earthing connection.	
23	Cleanup of dyke for any water / Scarp.	
24	Check the connections on marshalling box.	

Note: 1.Use safety devices such as safety gloves, earth rods etc.

2.Isolate and earth the working section before starting the maintenance. For connecting earth rods, connect earth connections first and then connect to line.

3.Keep all necessary tools and tackles ready.

4.Note down the Sl. No. of transformer / location etc.

5.This maintenance checklist is applicable for all conventional (i.e. with conservator & breather) transformers

Manpower Utilization: TM:

Helper:

Spared / Tools Used:

Outage\_\_day