## **Preventive Maintenance Checklist for Transformers**

## **Transformer Maintenance Checklist**

	<b>ForumEle</b>	ctrical.Com	
Date:			
<b>Substation Numb</b>	er:		
Transformer Num	iber:	Voltage Ratio:	

Serial	Activities	Ch	ecks Exe	cuted	Remarks
No		С	NC	N/A	
1	Receive LC from Substation				
	Operation				
2	Check that location for any				
	indications of oil leakage.				
3	Make sure the oil level in				
	the conservator tank has				
	reached up to the 3/4 <sup>th</sup> -				
	mark before proceeding				
4	Check the condition of the				
	Breathers.				
5	Check the condition of the				
	Silica Gel.				
6	Remove impurities from the				
	body				
7	When open the terminal				
	box, make sure the				
	following is correct:				
	a) The level of tichtness of				
	a) The level of tightness of the terminal connection				
	the terminal connection				
	b) The condition of the				
	bushings in the LV side of				
	transformer				
	transiormer				
	c). Any indication that the				
	transformer is overheating.				
8	Check any possibility of				
	unplugged holes or missing				
	bolts.				
9	Check the tightness of each				

	terminal box.		
10	Check the temperature		
	settings for the oil and the		
	windings.		
11	Check the oil for dielectric		
1 11	strength and break down		
	voltage (the oil should be		
	able to sustain 40 KV BDV		
	for 1 minute with a spacing		
	of 2.5 mm across the		
	electrodes in oil testing kit).		
12	Verify that the earthing		
12	system is correct and		
	unbroken.		
13	Check the support for the		
13	cables.		
14	Check the Insulation		
14	Resistance (IR) value		
	Resistance (IR) value		
	a) Primary : P-E		
	a) I I I I I I I I I I I I I I I I I I I		
	b) Secondary : P-E		
15	Perform simulations of all		
10	protective devices in the		
	field to ensure that all		
	protective devices withstand		
	testing.		
16	Make sure that the		
	following are checked and		
	verified for the tap changer.		
	a) The oil's inherent		
	dielectric properties.		
	b) The crucible's general		
	state of cleanliness.		
	c) Checking all moving and		
	fixed contacts for signs of		
	wear and tear.		
	d) Proper alignment of the		
	shaft.		
	e) The motor trips both		
	below the first tap and after		
	the last tap.		
	f) The tightness of the		

Date		
Data		Pale
		Date
Desig	nation	Designation
Signa	ture	Signature
Name		Name
	Checked By	Verified By
Overa	ıll Review:	
	occurrences	
18	Substation to turn on the transformer.  Any other unexpected	
17	types of fasteners.  After finishing the work, return LC to the Electrical	
	clamps, bolt nuts, and other	