

<b>FIELD INSPECTION REPORT</b> Quality Control Form	ITP No.:		
	Inspection Gr.		
	Report No.		
	Date		
INSPECTION TYPE  <b>INSPECTION- POWER TRANSFORMER</b>	WORK No.		
	UNIT NO.		
	ITEM No.		
	LOCATION		
DATE/NAMES/SIGNATURE			
INSPECTION NOTICE NO.:	COMPANY	CONTRACTOR	SUBCONTR
DRAWING NO(S):	/ /	/ /	/ /
MANUFACTURER:			
ENCLOSURE:			
RATING:			
SERIAL NO.:			
VECTOR GROUP	CURRENT: _____ / _____ A		
VOLTAGE: _____ / _____ V			
TEST EQUIPMENT:			

Note: (1) Test in Italics are to be carried out under the supervision of Vendor Engineer as part of Pre-commissioning

**1. Verify inspection of the switchgear transformer feeder unit completed:**

Sheet No.: \_\_\_\_\_ Protection Relay setting: \_\_\_\_\_

**2. I.R. Test:**

Test Point	Cable		Test Voltage	I.R.	Meter Used
HV Winding - Earth	INCL	EXCL	V	MΩ	
LV Winding – Earth	INCL	EXCL	V	MΩ	
HV Winding- LV Winding	INCL	EXCL	V	MΩ	

**3. Continuity Test – Tap Changer:** After moving tap changer switch set at Tap No.:

Continuity Test (MΩ) (HV winding)	L1 – L2	L2 – L3	L3 – L1	Remarks

**4. Earthing:** Check the condition – neutral earthing –

Test Point	Neutral Earthing	Equipment Earthing	Remarks
Measured continuity (MΩ)			

**5. Protection Device / Auxiliary Equipment Perform Function Test**

	Set at	Alarm	Trip	Remarks
1. Buchoiz alarm operation				
2. Temperature relay alarm operation (°C)				
3. Verify liquid level relay & gauges				

Legend NA.: Not Applicable

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**6. Oil Dielectric Strength Test**      Oil Temp. At Testing: \_\_\_\_\_      Amb. Temp.: \_\_\_\_\_

Sample No.	Breakdown Voltage in kV						Average
	Test- 1	Test- 2	Test- 3	Test -4	Test - 5	Test - 6	
1							

Oil to be used in equipment identified below

Sample No.1	
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**7. Voltage Ratio Test**

Tap No.	High Voltage Side			Low Voltage Side			Rated Ratio	Measured Ratio		
	U1-V1	VI-W1	U1-W1	U1-V1	V1-W1	U1-W1				
1										
2										
3										
4										
5										

**8. DC Resistance Test:**

Tap Position	H.V. ( $\mu\Omega$ )			L.V. ( $\mu\Omega$ )			Remarks
	Vw	Uw	Uv	UN	VN	WN	
1							
2							
3							
4							
5							

**9. No Load Current Test**

Tap No.	Iu1 (Ma)		IV1 (Ma)		Iw1 (Ma)		Remarks
1							
2							
3							
4							
5							

**10. Breathing Type Transformer.**

a) Check the position of the conservator valve: \_\_\_\_\_

b) Check the silica gel condition / color: \_\_\_\_\_

c) Result of the oil test:-      1) Main tank: \_\_\_\_\_

2) Conservator: \_\_\_\_\_

e) Check thermometer: \_\_\_\_\_      Reset max. indicator: \_\_\_\_\_

**11. Check Signal core Bonding:** \_\_\_\_\_

**12. Inspection of Electrical System of Cooling Fans / Pumps:** \_\_\_\_\_

**13. Attachment (If required other inspection / test):** \_\_\_\_\_

Legend      NA.: Not Applicable

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<b>14. Installation Inspection:</b>			
No.	Item to Check	Result	Remarks
1.	Check nameplate for rating, impedance and taps.		
2.	Check area classification.		
3.	Check padlock facilities and available keys. (if required)		
4.	Check weatherproofing and sunshades as per drawing.		
5.	Check leveling, clamping to the foundation.		
6.	Check damages and cleanliness of all components.		
7.	Inspect tank, cooling fan and gaskets for oil leakage preventing.		
8.	Inspect bushing and seals.		
9.	Inspect valve and pipe plugs.		
10.	Check oil level.		
11.	Check temperature indicator and pressure gauge.		
12.	Inspect breathing device silica-gel filling.		
13.	Inspect operation tap changer.		
14.	Inspect equipment grounding connections.		
15.	Check neutral connection to earth.		
16.	Inspect cable connections and gland plate. (polarity of terminals)		
<b>15. Remarks:</b>			

Legend    NA.: Not Applicable