



TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED
(An ISO 9001:2008 Certified Company)

OIL TESTING LABORATORY :: VIJAYAWADA
TRANSFORMER OIL TEST REPORT

SS Name : **BAPATLA-132/33KV-SUBSTATION**

OTR No: VJA10002395

Ref: OTLVJA2306515

Equipment: 31.5 MVA 132/33KV PTR(BOTTOM)

Equipment Details		SAMPLE Details	
Make : INDOTECH	Capacity : 31.5 MVA	Sample Dt : 15.06.2023	Oil Temp : 57.0°C
Sl.no : IT-43120	Equipment : 10034983	Recpt Dt : 16.06.2023	Load@Sample : 9.56
YOM : 2008	HV level : 132KV	Test Dt : 16.06.2023	
Total Quantity of Oil in(Litres)		Equipment :	0.00 Container : 2.00

TEST RESULTS

Reference standard as per IS: 1866-2017

Sl.no	Parameter	Measured Value	UoM	Violation limit	Test method
01	Appearance & Colour	P.YELLOW			
02	Methane(CH4)	ND	ppm		
03	Ethane(C2H6)	ND	ppm		
04	Acetylene(C2H2)	ND	ppm		
05	Resistivity @ 90 °C	80.55	GOM	>0.20	
06	B.D.V@ 61.8Hz,with stirrer)	70.3	kV	>40.00	
07	Hydrogen (H2)	5.83	ppm		
08	Ethylene(C2H4)	5.66	ppm		
09	Carbon Dioxide(CO2)	3404.21	ppm		
10	Nitrogen (N2)	3162.55	ppm		
11	Carbon Monoxide (CO)	256.42	ppm		
12	Oxygen (O2)	1457.74	ppm		
13	Water content	13.0	mg/kg	<30.00	
14	Tan Delta @ 90 °C, 55Hz	0.007135		<0.500	

Environmental Conditions		Room temp	25.0°C	Rel Humidity	40
NT NOT TESTED		ND	NOT DETECTED		
Test conditions for BDV: Oil Temp: 28.0°C freq: 61.8 Hz, Electrode type: Hemispherical brass, 6 test values: 83.6, 78.2, 77.7, 69.0, 57.3, 55.8			Test conditions for DDF: elec.stress: 1kv/mm, freq: 55 HZ. Test conditions for Resistivity: elec.stress: 250kv/mm, electrification time: 60 sec.		