Laboratory

Insulating Oil Testing Laboratory, Power Grid Corporation of India Limited, HVDC Back to Back Station & 400 kV Sub-Station, Sumthana

Post, Bhadrawati Tashil, District Chandrapur, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7965 Page 1 of 1

Validity 10.10.2018 to 09.10.2020 Last Amended on --

ļ	SI.	Product / Material	Specific Test Performed	Test Method Specification	Range of Testing /
ı		of Test		against which tests are	Limits of Detection
1				performed	

ELECTRICAL TESTING

I.	ELECTRICAL MATE			
1.	New Insulating Oil	Water Content	IEC 60814-08 ASTM D 1533 (Clause 5.4) IS 1866 IS 13567	1 mg/kg to 200 mg/kg
2.	Inhibited mineral Insulating Oil	Flash Point	ASTM D 6450 (Clause 5.11) IS 1866 (Clause 3.1) IS 335	10 °C to 400 °C
3.	Mineral Insulating Oil in Equipment	Dissolved Gas Analysis (DGA)	IEC 60567–10 ASTM D 3612	
		H ₂	IEEE C57.104	1 μl/l to 100000 μl/l
İ		CH ₄		1 μl/l to 100000 μl/l
		C ₂ H ₄		1 μl/l to 100000 μl/l
		C ₂ H ₆		1 μl/l to 100000 μl/l
		C ₂ H ₂		1 μl/l to 100000 μl/l
		CO		1 μl/l to 100000 μl/l
		CO ₂		25 μl/l to 100000 μl/l
		O2		500 μl/l to 500000 μl/l
		N ₂		2000 μl/l to 1000000 μl/l

Naveen Jangra Convenor