Laboratory	Sreeja Electricals, Transformer	Oil Testing Lab, Plot No. S-122, Phase-III,
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Verna Industrial Estate, Verna, Goa

Accreditation Standard ISO/IEC 17025: 2005

Discipline Electrical Testing Issue Date 31.07.2015

Certificate Number T-2501 Valid Until 30.07.2017

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection	
I.	ELECTRICAL MATERIALS - LIQUID DIELECTRIC MATERIALS				
1.	Transformer Oil	Interfacial Tension Test	IS 6104: 1971	0 to 90 mN/m	
		Flash Point	IS 1448 (P:21)1992	27 °C to 170 °C	
		Neutralization Value	IS 1448 (P:2) 2007	0 to 1 mg of KOH/g	
		Breakdown Voltage	IS 6792:1992 RA 2003	2 kV to 100 kV	
		Dielectric Dissipation Factor	IS 6262: 1971 RA 2001	0.00001 to 10	
		Specific Resistance	IS 6103: 1971 RA 2001	$10^7~\Omega$ -cm to $10^{15}~\Omega$ -cm	
		Water Content	IS 13567: 1992	4 mg/kg to 1000 mg/kg	
		Sludge (%)	IS 1866: 2000 Annexure "A"	0 to 2 %	
		Dissolved Gas Analysis CO CH <sub>4</sub> CO <sub>2</sub> C <sub>2</sub> H <sub>4</sub> C <sub>2</sub> H <sub>6</sub> C <sub>2</sub> H <sub>2</sub> H <sub>2</sub> N <sub>2</sub> O <sub>2</sub>	IS 9434: 1992 & IS:10593: 2006	10 ml/l to 1000 ml/l 1 ml/l to 4000 ml/l 10 ml/l to 10000 ml/l 1 ml/l to 4000 ml/l 1 ml/l to 4000 ml/l 1 ml/l to 4000 ml/l 10 ml/l to 1000 ml/l 25 ml/l to 200000 ml/l 25 ml/l to 100000 ml/l	