



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name MEGHA POWER SOLUTIONS, GROUND FLOOR, SAI GANESH BLDG, THANE, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5388 Page No. : 1 / 4

Validity 24/05/2019 to 23/05/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
<b>Permanent Facility</b>					
1	ELECTRICAL-INSULATING MATERIALS & INSULATORS	Mineral insulating oil	Appearance	IS 335 :1993 RA: 2010	Qualitative(Visual Examination)
2	ELECTRICAL-INSULATING MATERIALS & INSULATORS	MINERAL INSULATING OIL	Density	IS 1448 ( Part-16) 1990 RA: 2014	0.800 g/cm <sup>3</sup> to 0.900 g/cm <sup>3</sup>
3	ELECTRICAL-INSULATING MATERIALS & INSULATORS	MINERAL INSULATING OIL	Dielectric Dissipation Factor (tan Delta )	IS 6262 :1971 RA: 2011	0.000001 to 9.99
4	ELECTRICAL-INSULATING MATERIALS & INSULATORS	MINERAL INSULATING OIL	Dissolve Gas Analysis ( C2H2 Gas)	IS 9434:1992 RA: 2008	1 µl/L to 1000000 µl/L
5	ELECTRICAL-INSULATING MATERIALS & INSULATORS	MINERAL INSULATING OIL	Dissolve Gas Analysis ( C2H4 Gas)	IS 9434:1992 RA: 2008	1 µl/L to 1000000 µl/L
6	ELECTRICAL-INSULATING MATERIALS & INSULATORS	MINERAL INSULATING OIL	Dissolve Gas Analysis ( C2H6 Gas)	IS 9434:1992 RA: 2008	1 µl/L to 1000000 µl/L
7	ELECTRICAL-INSULATING MATERIALS & INSULATORS	MINERAL INSULATING OIL	Dissolve Gas Analysis ( CH4 Gas)	IS 9434:1992 RA: 2008	1 µl/L to 1000000 µl/L



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8	ELECTRICAL-INSULATING MATERIALS & INSULATORS	MINERAL INSULATING OIL	Dissolve Gas Analysis ( CO Gas)	IS 9434:1992 RA: 2008	1 µ/L to 1000000 µ/L
9	ELECTRICAL-INSULATING MATERIALS & INSULATORS	MINERAL INSULATING OIL	Dissolve Gas Analysis ( CO2 Gas)	IS 9434:1992 RA: 2008	1 µ/L to 1000000 µ/L
10	ELECTRICAL-INSULATING MATERIALS & INSULATORS	MINERAL INSULATING OIL	Dissolve Gas Analysis ( Oxygen Gas)	IS 9434:1992 RA: 2008	1 µ/L to 1000000 µ/L
11	ELECTRICAL-INSULATING MATERIALS & INSULATORS	MINERAL INSULATING OIL	Dissolve Gas Analysis (H2 Gas)	IS 9434:1992 RA: 2008	1 µ/L to 1000000 µ/L
12	ELECTRICAL-INSULATING MATERIALS & INSULATORS	MINERAL INSULATING OIL	Dissolve Gas Analysis (Nitrogen Gas)	IS 9434:1992 RA: 2008	1 µ/L to 1000000 µ/L
13	ELECTRICAL-INSULATING MATERIALS & INSULATORS	MINERAL INSULATING OIL	Electrical breakdown voltage (BDV)	IS 6792:1971 RA: 2008	2 kV to 100 kV
14	ELECTRICAL-INSULATING MATERIALS & INSULATORS	MINERAL INSULATING OIL	Flash Point	IS 1448 ( P-21):1992 RA: 2012	27 °C to 360 °C



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15	ELECTRICAL-INSULATING MATERIALS & INSULATORS	MINERAL INSULATING OIL	Furan Analysis ( 5 HMF)	ASTM D 5837: 2015	0.004 mg/L to 20 mg/L
16	ELECTRICAL-INSULATING MATERIALS & INSULATORS	MINERAL INSULATING OIL	Furan Analysis ( 5MFF)	ASTM D 5837: 2015	0.004 mg/kg to 20 mg/kg
17	ELECTRICAL-INSULATING MATERIALS & INSULATORS	MINERAL INSULATING OIL	Furan Analysis (2 FOL)	ASTM D 5837: 2015	0.004 mg/kg to 20 mg/kg
18	ELECTRICAL-INSULATING MATERIALS & INSULATORS	MINERAL INSULATING OIL	Furan Analysis (2ACF)	ASTM D 5837: 2015	0.004 mg/kg to 20 mg/kg
19	ELECTRICAL-INSULATING MATERIALS & INSULATORS	MINERAL INSULATING OIL	Furan Analysis (2FAL)	ASTM D 5837: 2015	0.004 mg/kg to 20 mg/kg
20	ELECTRICAL-INSULATING MATERIALS & INSULATORS	MINERAL INSULATING OIL	Interfacial Tension	IS 6104:1971 RA: 2011	1 mN/m to 90 mN/m
21	ELECTRICAL-INSULATING MATERIALS & INSULATORS	MINERAL INSULATING OIL	Moisture Content	IS 13567:1992 RA: 2008	01 mg / kg to 4000 mg / kg



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22	ELECTRICAL-INSULATING MATERIALS & INSULATORS	MINERAL INSULATING OIL	Neutralization value	IS 1448 ( P-2):2007 RA: 2008	0.0001 mg KOH/ gm to 3.0000 mg KOH/ gm
23	ELECTRICAL-INSULATING MATERIALS & INSULATORS	MINERAL INSULATING OIL	Sediment & Sludge	IS 1866 (Annx-A):2000: 2015	0.1 mg to 1000 mg
24	ELECTRICAL-INSULATING MATERIALS & INSULATORS	MINERAL INSULATING OIL	Specific Resistance (Resistivity)	IS 6103:1971 RA: 2011	1000000000 Ohm-cm to 9990000000000000 Ohm-cm