National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : COLUMBIA PETROCHEM PVT. LTD. - LIQUID DIELECTRIC TESTING LABORATORY, SURVEY NO. 144/1/1,PLOT NO.12-13-14, SILVASSA, DADRA AND NAGAR HAVELI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7209 **Page No** 1 of 3

Validity 26/04/2022 to 25/04/2024 **Last Amended on** 23/09/2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil	2-Furfural and related compounds content	IS 15668:2006, IEC 61198
2	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil	Acidity	IEC 62021-2:2007, IEC 62021-1
3	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil	Appearance	IS 335:2018, IEC 60296:2020
4	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil	Breakdown voltage b) After Filtration	IEC 60156:2018, IS 6792
5	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil	Breakdown voltage a) New Unfiltered oil	IEC 60156:2018, IS 6792
6	ELECTRICAL- INSULATING MATERIALS & INSULATORS	MIneral Insulating Oil	Carbon type composition Aromatic %	IS 13155 :1991, IEC - 60590
7	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil	Colour	ISO 2049
8	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Insulating OIl	Density at 20°C	IS 1448 (Part-16):1990, ISO 12185:1996, ISO 3675:1998, ASTM D 7042
9	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Insulating oil	Detection of Metal passivator additive	IS 13631: 2017, IEC 60666
10	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil	Dielectric Dissipation factor (DDF) (Tan delta) @ 90°C	IEC 60247:2004, IEC 61620:1998, IS 16086
11	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil	Flash Point	ISO 2719:2016, IS 1448 (P-21):2019, ASTM D 92
12	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil	Interfacial Tension	ASTM D971-12 :2020 , IS 6104 : 1971, IEC 62961
13	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil	Kinematic Viscosity at 0°C	IS 1448 (Part 25),

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14	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil	Kinematic Viscosity at -30°C	ISO 3104:2020, ASTM D 7042:2020,IS 1448 (Part 25)
15	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil	Kinematic Viscosity at 40°C	IS 16084:2013,IEC 61868
16	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil	Oxidation Stability sludge	1.9.1 of IS 12422:2017,4.8.1 of IEC 61125
17	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil	Oxidation Stability Total sludge	1.9.1 of IS 12422
18	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil	Oxidation Stability Dielectric Dissipation factor (DDF) (Tan delta) @ 90°C	4.8.5 of IEC 61125
19	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil	Oxidation Stability (Rotating Bomb test)	IS 12958:1990, ASTM D 2112
20	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil	PCA content	IP 346
21	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil	PCB content	IEC 61619:1997, IS 16082
22	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil	Potentially Corrosive sulfur	IEC 62535:2008, IS 16310
23	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil	Pour Point	ISO 3016:2019, IS 1448 (P-10)/Sec-2
24	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil	Presence of oxidation inhibitor	IEC 60666:2010, IS 13631
25	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil	Presence of Oxidation inhibitor	IS 13631:1993,IEC 60666
26	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral insulating Oil	Specific Resistance at 27°c	IS 6103
27	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral insulating Oil	Specific Resistance at 90°c	IS 6103

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28	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Insulating oil	Total Acidity in Oxidation Stability	4.8.4 of IEC 61125:2018, 1.9.4 of IS 12422
29	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral Insulating oil	Total Sulphur Content	ISO 14596:2007, ISO 8754:2003 ASTM D 4294
30	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral insulating Oil	Water Content	IEC 60814:1997, IS 13631
31	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Minerals Insulating Oil	Carbon type composition	IEC 60590:1977, IS 13155
32	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Minerals Insulating Oil	Corrosive sulfur	DIN 51353
33	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Minerals Insulating Oil	Density @ 29.5°C	IS:1448(Part-16):1990, ISO 12185:1996, ISO 3675:1998, ASTM D7042