National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TESTING LABORATORY, MEHRU ELECTRICAL & MECHANICAL ENGINEERS PVT. LTD., SP-2/180, RIICO INDUSTRIAL, KEHRANI, BHIWADI, RAJASTHAN, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6557 **Page No** 1 of 19

Validity 06/09/2022 to 05/09/2024 **Last Amended on** 26/10/2022

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- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400KV	Lightning Impulse test on Primary Terminal	Clause 7.2.3 of IS 16227 (Part 5
2	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer (Up to 400 kV)	Verification of terminal marking and polarity	IS 3156 (Part 1) Cl. No. 9.2 (Withdrawn Standard)
3	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV	Transient Response	IS 3156 (Part 4) Cl.No. 9.2.4 (Withdrawn Standard)
4	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Capacitance and tan delta measurement at power frequency	IEC 61869 (Part 5) Cl. No. 7.2.501, 7.4.3
5	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Capacitance and tan delta measurement at power frequency	IEC 61869 (PART 5) Cl. No. 7.2.501, 7.4.3
6	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Capacitance and tan delta measurement at power frequency	IS 16227 (PART 5) Cl. No. 7.2.501, 7.4.3
7	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Capacitance and tan delta measurement at power frequency	IS 3156 (Part 4) Cl. No. 9.3.1.1 (Withdrawn Standard)
8	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Capacitance and tan delta measurement at power frequency	IS 3156 (PART 4) Cl. No. 9.3.1.1 (Withdrawn Standard)
9	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Capacitance and tan delta measurement at power frequency	IS 16227 (PART 5) Cl. No. 7.2.501, 7.4.3
10	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Determination of errors according to the requirements of the appropriate designation or accuracy class (For metering Class , 0.1,0.2,0.5 & 1.0)	IEC 61869 (PART 5) Table-511,Cl. No. 7.3.5,5.4 ,7.2.6
11	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Determination of errors according to the requirements of the appropriate designation or accuracy class (For metering Class , 0.1,0.2,0.5 & 1.0)	IEC 61869 (PART 5) Table-511,Cl.No. 7.3.5,5.4 ,7.2.6

SCOPE OF ACCREDITATION

Laboratory Name : TESTING LABORATORY, MEHRU ELECTRICAL & MECHANICAL ENGINEERS PVT. LTD., SP-2/180, RIICO INDUSTRIAL, KEHRANI, BHIWADI, RAJASTHAN, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6557 **Page No** 2 of 19

Validity 06/09/2022 to 05/09/2024 **Last Amended on** 26/10/2022

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
12	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Determination of errors according to the requirements of the appropriate designation or accuracy class (For metering Class , 0.1,0.2,0.5 & 1.0)	IS 16227 (PART 5) Table-511,Cl. No. 7.3.5,5.4 ,7.2.6
13	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Determination of errors according to the requirements of the appropriate designation or accuracy class (For metering Class , 0.1,0.2,0.5 & 1.0)	IS 16227 (PART 5) Table-511,Cl.No. 7.3.5,5.4 ,7.2.6
14	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Determination of errors according to the requirements of the appropriate designation or accuracy class (For metering Class , 0.1,0.2,0.5 & 1.0)	IS 3156 (Part 4) Cl. No. 9.3.2 , 9.2.5 & IS 3156 (Part 1) Cl. No. 5.1 (Withdrawn Standards)
15	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Determination of errors according to the requirements of the appropriate designation or accuracy class (For metering Class , 0.1,0.2,0.5 & 1.0)	IS 3156 (Part 4) Cl.No 9.3.2, 9.2.5 & IS 3156 (Part 3) Cl.No. 5.1 (Withdrawn Standard)
16	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Determination of errors according to the requirements of the appropriate designation or accuracy class (For Protection Class, 3P & 6P)	IEC 61869 (PART 5) Table-511,Cl.No. 7.3.5,5.4 ,7.2.6
17	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Determination of errors according to the requirements of the appropriate designation or accuracy class (For Protection Class, 3P & 6P)	IS 16227 (PART 5) Table-511,Cl. No. 7.3.5,5.4 ,7.2.6
18	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Determination of errors according to the requirements of the appropriate designation or accuracy class (For Protection Class, 3P & 6P)	IS 16227 (PART 5) Table-511,Cl.No.7.3.5,5.4 ,7.2.6
19	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Determination of errors according to the requirements of the appropriate designation or accuracy class (For Protection Class, 3P & 6P)	IS 3156 (Part 4) Cl.No. 9.3.2, 9.2.5 & IS 3156 (Part 3) Cl.No. 5.1 & 5.2 (Withdrawn Standard)

SCOPE OF ACCREDITATION

Laboratory Name : TESTING LABORATORY, MEHRU ELECTRICAL & MECHANICAL ENGINEERS PVT. LTD., SP-2/180, RIICO INDUSTRIAL, KEHRANI, BHIWADI, RAJASTHAN, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6557 **Page No** 3 of 19

Validity 06/09/2022 to 05/09/2024 **Last Amended on** 26/10/2022

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
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Determination of errors according to the requirements of the appropriate designation or accuracy class (For Protection Class, 3P & 6P)	IS 3156 (Part 4) Cl.No. 9.3.2,9.2.5 & IS 3156 (Part 3) Cl.No.5.1 & 5.2 (Withdrawn Standard)
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Ferro resonance	IS 3156 (Part 4) Cl.No. 9.2.3 (Withdrawn Standard)
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Ferro-resonance Test	IEC 61869 (PART 5) Cl.No. 7.2.503,7.3.501 Table -506 a
23	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Ferro-resonance Test	IS 16227 (PART 5) Cl.No. 7.2.503,7.3.501 Table -506 a
24	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Measurement of Partial Discharge	IEC 61869 (PART 5) Cl.No. 7.3.2
25	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Partial Discharge	IS 3156 (Part 1) Cl.No. 9.1.2(d) (Withdrawn Standard)
26	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Power frequency withstand test on Capacitor Unit	IS 16227 (PART 5) Cl.No. 7.3.1
27	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Power frequency withstand test on Electromagnetic Unit	IEC 61869 (PART 5) Cl.No. 7.3.1.504
28	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Power frequency withstand test on Electromagnetic Unit	IS 16227 (PART 5) Cl.No. 7.3.1.504
29	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Power frequency withstand test on Electromagnetic Unit	IS 3156 (Part 4) Cl.No. 9.3.1.3 (Withdrawn Standard)
30	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Power frequency withstand test on Low voltage	IS 16227 (PART 5) Cl.No 7.3.1.503
31	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Power frequency withstand test on Low voltage	IEC 61869 (PART 5) Cl.No. 7.3.1.503
32	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Power frequency withstand test on secondary windings & between section	IEC 61869 (PART 1) Cl.No. 7.3.4, 5.3.5,7.3.3 & 5.3.4
33	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Power frequency withstand test on secondary windings & between section	IS 16227 (PART 5) Table-10
34	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Power frequency withstand test on secondary windings & between section	IS 3156 (Part 1) Cl.No. 9.4 (Withdrawn Standard)
35	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Power frequency withstand on Low voltage	IS 3156 (Part 4) Cl.No. 9.3.1 (Withdrawn Standard)

SCOPE OF ACCREDITATION

Laboratory Name :	TESTING LABORATORY, MEHRU ELECTRICAL & MECHANICAL ENGINEERS PVT. LTD., SP-2/180, RIICO INDUSTRIAL, KEHRANI, BHIWADI, RAJASTHAN, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-6557
Page No	4 of 19
Validity	06/09/2022 to 05/09/2024
Last Amended on	26/10/2022

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
36	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Separate Source withstand test on primary winding of electromagnetic unit	IEC 61869 (PART 5) Cl.No. 7.3.1
37	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Separate Source withstand test on primary winding of electromagnetic unit	IS 16227 Cl.No. 7.3.1
38	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Separate Source withstand test on primary winding of electromagnetic unit	IS 3156 (Part 1) Cl.No. 9.3.2.1 (Withdrawn Standard)
39	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Short-circuit withstand capability test	IEC 61869 (PART 5) Cl.No. 7.2.502
40	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Short-circuit withstand capability test	IS 16227 (PART 5) Cl.No.7.2.502
41	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Temperature Coefficient	IEC 358 Cl. No. 14 6.2(h)
42	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Temperature Coefficient	IEC 358 Cl.No. 14 6.2(h)
43	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Temperature Coefficient Test	IEC 60358 Cl.No. 3.2.12
44	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Temperature Coefficient Test	IEC 61869 (PART 5) Cl.No. 7.4.501
45	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Temperature Coefficient Test	IEC 358 Cl. No. 14 6.2(h)
46	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Temperature Coefficient Test	IEC 358 Cl.No. 14 6.2(h)
47	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Temperature Coefficient Test	IEC 60358 Cl. No. 3.2.12
48	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Temperature Coefficient Test	IEC 61869 (PART 5) Cl.No. 7.4.501
49	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Temperature-rise test	IEC 61869 (PART 5) Cl.No. 7.2.2.501
50	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Temperature-rise test	IS 16227 (PART 5) Cl.No 7.2.2 , 7.2.2.501
51	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Tightness design test of capacitor unit	IEC 61869 (PART 5) Cl.No.7.4.502,6.1.4.501
52	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Tightness design test of capacitor unit	IS 16227 (Part 5) Cl.No.7.4.502,6.1.4.501
53	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Tightness test of a liquid filled emu unit	IEC 61869 (Part 5) Cl.No 6.1.4.502, 7.2.8.501

SCOPE OF ACCREDITATION

Laboratory Name : TESTING LABORATORY, MEHRU ELECTRICAL & MECHANICAL ENGINEERS PVT. LTD., SP-2/180, RIICO INDUSTRIAL, KEHRANI, BHIWADI, RAJASTHAN, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6557 **Page No** 5 of 19

Validity 06/09/2022 to 05/09/2024 **Last Amended on** 26/10/2022

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
54	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Tightness test of a liquid filled emu unit	IS 16227 (PART 5) Cl.No. 6.1.4.502 ,7.2.8.501
55	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400 kV Class	Verification of terminal marking and polarity	IEC 61869 (PART 5) Cl.No. 6.13.501, 7.3.6
56	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400kV	Chopped Impulse test on Primary Terminal	Cl.7.4.1 of IS 16227 (Part 5)
57	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400KV	Chopped Impulse test on Primary Terminal	Clause 7.4.1 of IEC 61869(Part 1)
58	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400KV	Chopped Impulse test on Primary Terminal	Clause 7.4.1 of IEC 61869(Part 5)
59	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400KV	Chopped Impulse test on Primary Terminal	Clause 7.4.1 of IS 16227 (Part 1)
60	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400kV	Chopped Impulse test on Primary Terminal	Clause 7.4.1 of IS 16227 (Part 5)
61	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400KV	Lightning Impulse test on Primary Terminal	Clause 7.2.3 of IEC 61869(Part 1)
62	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400KV	Lightning Impulse test on Primary Terminal	Clause 7.2.3 of IEC 61869(Part 1)
63	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400KV	Lightning Impulse test on Primary Terminal	Clause 7.2.3 of IEC 61869(Part 5)
64	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400kV	Lightning Impulse test on Primary Terminal	Clause 7.2.3 of IS 16227 (Part 1)
65	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400KV	Lightning Impulse test on Primary Terminal	Clause 7.2.3 of IS 16227 (Part 5)
66	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400kV	Transient Response Test	IEC 61869 (PART 5) Cl.No. 7.2.504
67	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400kV	Transient Response Test	IS 16227 (part 5) Cl.No. 7.2.504
68	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400kV Class	Measurement of Partial Discharge	IS 16227 (PART 5) Cl.No. 7.3.2
69	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400kV Class	Power frequency withstand on Capacitor Unit	IS 3156 (Part 4) Cl.No. 9.3.1 (Withdrawn Standard)
70	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer up to 400kV Class	Verification of terminal marking and polarity	IS 16227 (PART 5) Cl.No. 6.13.501, 7.3.6
71	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer upto 400kV Class	Power frequency withstand test on Capacitor Unit	IEC 61869 (PART 5) Cl.No.7.3.1
72	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer upto 400kV Class	Temperature rise	IS 3156 (Part 4) Cl.No. 9.2.1 (Withdrawn Standard)

SCOPE OF ACCREDITATION

Laboratory Name : TESTING LABORATORY, MEHRU ELECTRICAL & MECHANICAL ENGINEERS PVT. LTD., SP-2/180, RIICO INDUSTRIAL, KEHRANI, BHIWADI, RAJASTHAN, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6557 **Page No** 6 of 19

Validity 06/09/2022 to 05/09/2024 **Last Amended on** 26/10/2022

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
73	ELECTRICAL- INDUCTORS & TRANSFORMERS	Coupling Capacitors up to 400 kV Class	A.C. Voltage test between low voltage terminal and the earth terminal	IEC 60358 (PART 1) Cl. No. 9.2.5
74	ELECTRICAL- INDUCTORS & TRANSFORMERS	Coupling Capacitors up to 400 kV Class	A.C. Voltage test between low voltage terminal and the earth terminal	IS 9348 Cl.No. 10
75	ELECTRICAL- INDUCTORS & TRANSFORMERS	Coupling Capacitors up to 400 kV Class	A.C. Voltage test, dry	IEC 60358 (PART 1) Cl. No. 9.2.3.1
76	ELECTRICAL- INDUCTORS & TRANSFORMERS	Coupling Capacitors up to 400 kV Class	A.C. Voltage test, dry	IS 9348 Cl. No. 9.2.1
77	ELECTRICAL- INDUCTORS & TRANSFORMERS	Coupling Capacitors up to 400 kV Class	Capacitance Measurement at power frequency	IEC 60358 (PART 1) Cl. No. 9.2.2 ,6.2.5
78	ELECTRICAL- INDUCTORS & TRANSFORMERS	Coupling Capacitors up to 400 kV Class	Capacitance Measurement at power frequency	IS 9348 Cl. No. 7
79	ELECTRICAL- INDUCTORS & TRANSFORMERS	Coupling Capacitors up to 400 kV Class	Capacitor loss measurement	IEC 60358 (PART 1) Cl. No. 6.2.6
80	ELECTRICAL- INDUCTORS & TRANSFORMERS	Coupling Capacitors up to 400 kV Class	Capacitor loss measurement (tan delta measurement)	IS 9348 Cl. No. 8
81	ELECTRICAL- INDUCTORS & TRANSFORMERS	Coupling Capacitors up to 400 kV Class	High frequency capacitance and equivalent series resistance measurements in the range of rated temperature category (15 KHZ TO 1000 KHZ)	IS 9348 Cl. No. 12.1
82	ELECTRICAL- INDUCTORS & TRANSFORMERS	Coupling Capacitors up to 400 kV Class	High frequency capacitance and equivalent series resistance measurements in the range of rated temperature category (15 KHZ TO 1000 KHZ)	IS 9348 Cl. No. 12.1
83	ELECTRICAL- INDUCTORS & TRANSFORMERS	Coupling Capacitors up to 400 kV Class	High frequency capacitance and equivalent series resistance measurements in the range of rated temperature category (15 kHz To 1000 kHz)	IEC 358 Cl. No. 12.1, 6.2(a) (Withdrawn Standard)
84	ELECTRICAL- INDUCTORS & TRANSFORMERS	Coupling Capacitors up to 400 kV Class	High frequency capacitance and equivalent series resistance measurements in the range of rated temperature category (15khz to 1000 khz)	IEC 358 Cl. No. 12.1, 6.2(a)
85	ELECTRICAL- INDUCTORS & TRANSFORMERS	Coupling Capacitors up to 400 kV Class	Partial discharge test	IEC 60358 (PART 1) Cl. No. 9.2.4

SCOPE OF ACCREDITATION

Laboratory Name :	TESTING LABORATORY, MEHRU ELECTRICAL & MECHANICAL ENGINEERS PVT. LTD., SP-2/180, RIICO INDUSTRIAL, KEHRANI, BHIWADI, RAJASTHAN, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6557	**Page No**	7 of 19
Validity	06/09/2022 to 05/09/2024	**Last Amended on**	26/10/2022

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
86	ELECTRICAL- INDUCTORS & TRANSFORMERS	Coupling Capacitors up to 400 kV Class	Stray Capacitance and stray conductance measurements of low voltage terminal (15 KHZ to 1000 KHZ)	IEC 358 Cl. No.12.2, 6.2 (b)
87	ELECTRICAL- INDUCTORS & TRANSFORMERS	Coupling Capacitors up to 400 kV Class	Stray Capacitance and stray conductance measurements of low voltage terminal (15 KHZ to 1000 KHZ)	IS 9348 Cl. No.12.2
88	ELECTRICAL- INDUCTORS & TRANSFORMERS	Coupling Capacitors up to 400 kV Class	Stray Capacitance and stray conductance measurements of low voltage terminal (15 kHz To 1000 kHz)	IEC 358 Cl. No. 12.2, 6.2 (b) (Withdrawn Standard)
89	ELECTRICAL- INDUCTORS & TRANSFORMERS	Coupling Capacitors up to 400 kV Class	Stray Capacitance and stray conductance measurements of low voltage terminal (15 KHZ To 1000 KHZ)	IS 9348 Cl. No. 12.2
90	ELECTRICAL- INDUCTORS & TRANSFORMERS	Coupling Capacitors up to 400 kV Class	Temperature coefficient	IEC 358 6.2(h) Cl. No. 14
91	ELECTRICAL- INDUCTORS & TRANSFORMERS	Coupling Capacitors up to 400 kV Class	Temperature coefficient Test	IEC 358 6.2(h), Cl. No. 14
92	ELECTRICAL- INDUCTORS & TRANSFORMERS	Coupling Capacitors up to 400 kV Class	Temperature coefficient Test	IEC 358 6.2(h) Cl. No. 14
93	ELECTRICAL- INDUCTORS & TRANSFORMERS	Coupling Capacitors up to 400 kV Class	Temperature coefficient Test	IEC 358 6.2(h), Cl. No. 14
94	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV) Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Thermal Stability	C.ENGG/SPEC/SWGR/R9
95	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Chopped Impulse voltage withstand test on Primary Terminal	Clause 7.4.1 of IEC 61869(Part 1)
96	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Chopped Impulse voltage withstand test on Primary Terminal	Clause 7.4.1 of IS 16227 (Part 1)
97	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Instrument Security Current	IS 2705 (Part 2) Cl.No. 7.1.2 (Withdrawn Standard)
98	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Instrument Security Current Test	IEC 61869(PART 2) Cl.No. 7.2.6.202,7.5.2
99	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Instrument Security Current Test	IS 16227 (PART 2) Cl.No. 7.2.6.202,7.5.2
100	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Lightning impulse voltage with stand test on Primary Terminal	Clause 7.2.3 of IEC 16227 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name : TESTING LABORATORY, MEHRU ELECTRICAL & MECHANICAL ENGINEERS PVT. LTD., SP-2/180, RIICO INDUSTRIAL, KEHRANI, BHIWADI, RAJASTHAN, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6557 **Page No** 8 of 19

Validity 06/09/2022 to 05/09/2024 **Last Amended on** 26/10/2022

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
101	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Lightning impulse voltage withstand test on primary terminal	Clause 7.2.3 of IEC 61869(Part 1)
102	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Lightning Impulse voltage withstand test on Primary Terminal	Clause 7.2.3 of IEC 61869(Part 1)
103	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Lightning Impulse voltage withstand test on Primary Terminal	Clause 7.2.3 of IS 16227 (Part 1)
104	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Lightning impulse voltage withstand test on primary terminal	Clause 7.2.3 of IS 16227 (Part 1)
105	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Lightning Impulse voltage withstand test on Primary Terminal	Clause 7.2.3 of IS 16227 (Part 1)
106	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Measurement of Composite Error	IEC 61869 (PART 2) Cl.No. 7.2.6.203, 7.3.5
107	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Measurement of Composite Error	IS 16227 (PART 2) Cl.No. 7.2.6.203
108	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Measurement of Composite Error	IEC 61869 (PART 2) Cl.No. 7.2.6.203, 7.3.5
109	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Measurement of Composite Error	IS 16227 (PART 2) Cl.No. 7.2.6.203
110	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Measurement of Composite Error	IS 2705 (Part 3) Cl.No. 7.1.2.2 (Withdrawn Standard)
111	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Measurement of Knee-Point Voltage and Exciting Current	IEC 61869 (PART 2) Cl.No. 7.3.203
112	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Measurement of Knee-Point Voltage and Exciting Current	IEC 61869 (PART 2) Cl. No. 7.3.203
113	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Measurement of Knee-Point Voltage and Exciting Current	IS 16227 (PART 2) Cl.No. 7.2.6.203
114	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Measurement of Knee-Point Voltage and Exciting Current	IS 16227 (PART 2) Cl.No. 7.3.203
115	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Measurement of Knee-Point Voltage and Exciting Current	IS 2705 (PART 4) Cl.No. 6.1 (Withdrawn Standard)
116	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Measurement of Secondary Winding Resistance	IS 16227 (PART 2) Cl.No. 7.3.201
117	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Measurement of Secondary Winding Resistance	IEC 61869 (PART 2) Cl.No. 7.3.201

SCOPE OF ACCREDITATION

Laboratory Name : TESTING LABORATORY, MEHRU ELECTRICAL & MECHANICAL ENGINEERS PVT. LTD., SP-2/180, RIICO INDUSTRIAL, KEHRANI, BHIWADI, RAJASTHAN, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6557 **Page No** 9 of 19

Validity 06/09/2022 to 05/09/2024 **Last Amended on** 26/10/2022

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
118	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Measurement of Secondary Winding Resistance	IS 2705 (PART 4) Cl.No. 6.2 (Withdrawn Standard)
119	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Over Voltage inter turn	IS 2705 (Part 1) Cl.No. 9.5.2 1992 (Withdrawn Standard)
120	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Over-voltage inter-turn test	IEC 61869 (PART 2) Cl.No. 7.3.204
121	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Over-voltage inter-turn test	IEC 61869 (PART 2) Cl.No. 7.3.204
122	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Over-voltage inter-turn test	IS 16227 (PART 2) Cl.No. 7.3.204
123	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Over-voltage inter-turn test	IS 16227 (PART 2) Cl.No. 7.3.204
124	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Over-voltage inter-turn test	IS 2705 (PART 2) Cl.No. 9.5.2 (Withdrawn Standard)
125	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Partial discharge	IS 2705 (Part 1) Cl.No. 9.1.2e 1992 (Withdrawn Standard)
126	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Partial discharge test	IEC 61869 (PART 2) Cl.No. 7.3.2
127	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Partial discharge test	IS 16227 (PART 1) Cl.No. 7.3.2
128	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Partial discharge test	IEC 60270
129	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Partial discharge test	IS 11322
130	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Power frequency dry withstand tests on primary windings	IEC 61869 (PART 2) Cl.No 7.3.1
131	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Power frequency dry withstand tests on primary windings	IS 2705 (Part 1) Cl.No 9.3
132	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Power frequency dry withstand tests on primary windings	IS 16227 (PART 2) Cl.No 7.3.1
133	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Power frequency dry withstand tests on primary windings	IS 2705 (Part 1) Cl.No 9.3 1992 (Withdrawn Standard)
134	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Power frequency dry withstand tests on secondary windings & between section	IEC 61869 (PART 1) Cl.No 7.3.4,5.3.5, 7.3.3, 5.3.4
135	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Power frequency dry withstand tests on secondary windings & between section	IS 16227 (PART 1) Cl.No 7.3.4,5.3.5, 7.3.3, 5.3.4

SCOPE OF ACCREDITATION

Laboratory Name : TESTING LABORATORY, MEHRU ELECTRICAL & MECHANICAL ENGINEERS PVT. LTD., SP-2/180, RIICO INDUSTRIAL, KEHRANI, BHIWADI, RAJASTHAN, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6557 **Page No** 10 of 19

Validity 06/09/2022 to 05/09/2024 **Last Amended on** 26/10/2022

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
136	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Power frequency dry withstand tests on secondary windings & between section	IS 2705 (Part 1) Cl.No 9.4 1992 (Withdrawn Standard)
137	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Temperature Rise	IS 2705 (Part 1) Cl.No 9.7 (Withdrawn Standard)
138	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Temperature-Rise Test (1 Amp To 4000 Amp)	IS 16227 (PART 1) Cl.No 7.2.2,6.4.1
139	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Temperature-Rise Test (1 Amp To 4000 Amp)	IEC 61869 (PART 1) Cl.No 7.2.2,6.4.1
140	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Verification of terminal marking and polarity	IEC 61869 (PART 1) Cl.No 7.3.6
141	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Verification of terminal marking and polarity	IS 16227 (PART 1) Cl.No 7.3.6
142	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Verification of Terminal marking and polarity	IS 2705 (Part 1) Cl.No 9.2 (Withdrawn Standard)
143	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformers (7.5 A To 3000 Amp / 0.577- 1-5 Amp)	Determination of errors according to the requirements of the appropriate designation or accuracy class (For metering class Core 0.1,0.2s,0.2,0.5,0.5s, 1.0,3.0 & 5.0)	IS 2705 (PART 2) Cl.No 7.1 & 7.2 (Withdrawn Standard)
144	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformers (7.5 A To 3000 Amp / 0.577- 1-5 Amp)	Determination of errors according to the requirements of the appropriate designation or accuracy class (For metering class Core 0.1,0.2s,0.2,0.5,0.5s, 1.0,3.0 & 5.0)	IEC 61869 (PART 2) Cl.No 7.3.5 & 7.2.6
145	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformers (7.5 A To 3000 Amp / 0.577- 1-5 Amp)	Determination of errors according to the requirements of the appropriate designation or accuracy class (For metering class Core 0.1,0.2s,0.2,0.5,0.5s, 1.0,3.0 & 5.0)	IEC 61869 (PART 2) Cl. No. 7.3.5, 7.2.6
146	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformers (7.5 A To 3000 Amp / 0.577- 1-5 Amp)	Determination of errors according to the requirements of the appropriate designation or accuracy class (For metering class Core 0.1,0.2s,0.2,0.5,0.5s, 1.0,3.0 & 5.0)	IS 16227 (PART 2) Cl.No 7.2.6 & 7.3.5

SCOPE OF ACCREDITATION

Laboratory Name :	TESTING LABORATORY, MEHRU ELECTRICAL & MECHANICAL ENGINEERS PVT. LTD., SP-2/180, RIICO INDUSTRIAL, KEHRANI, BHIWADI, RAJASTHAN, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-6557
Page No	11 of 19
Validity	06/09/2022 to 05/09/2024
Last Amended on	26/10/2022

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
147	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformers (7.5 A To 3000 Amp / 0.577- 1-5 Amp)	Determination of errors according to the requirements of the appropriate designation or accuracy class (For metering class Core 0.1,0.2s,0.2,0.5,0.5s, 1.0,3.0 & 5.0)	IS 16227 (PART 2) Cl.No. 7.3.5, 7.2.6
148	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformers (7.5 A To 3000 Amp / 0.577- 1-5 Amp)	Determination of errors according to the requirements of the appropriate designation or accuracy class (For metering class Core 0.1,0.2s,0.2,0.5,0.5s, 1.0,3.0 & 5.0)	IS 2705 (PART 2) Cl.No 7.1 & 7.2
149	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformers (7.5 A To 3000 Amp / 0.577- 1-5 Amp)	Determination of errors according to the requirements of the appropriate designation or accuracy class (For protection class Core 5P,10P,15P)	IEC 61869 (PART 2) Cl. No. 7.3.5, 7.2.6
150	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformers (7.5 A To 3000 Amp / 0.577- 1-5 Amp)	Determination of errors according to the requirements of the appropriate designation or accuracy class (For protection class Core 5P,10P,15P)	IEC 61869 (PART 2) Cl.No. 7.3.5, 7.2.6
151	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformers (7.5 A To 3000 Amp / 0.577- 1-5 Amp)	Determination of errors according to the requirements of the appropriate designation or accuracy class (For protection class Core 5P,10P,15P)	IS 16227 (PART 2) Cl. No. 7.3.5, 7.2.6
152	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformers (7.5 A To 3000 Amp / 0.577- 1-5 Amp)	Determination of errors according to the requirements of the appropriate designation or accuracy class (For protection class Core 5P,10P,15P)	IS 16227 (PART 2) Cl.No. 7.3.5, 7.2.6
153	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformers (7.5 A To 3000 Amp / 0.577- 1-5 Amp)	Determination of errors according to the requirements of the appropriate designation or accuracy class (For protection class Core 5P,10P,15P)	IS 2705 (PART 3) Cl. No. 7.1 & 7.2 (Withdrawn Standard)

SCOPE OF ACCREDITATION

Laboratory Name :	TESTING LABORATORY, MEHRU ELECTRICAL & MECHANICAL ENGINEERS PVT. LTD., SP-2/180, RIICO INDUSTRIAL, KEHRANI, BHIWADI, RAJASTHAN, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6557	**Page No**	12 of 19
Validity	06/09/2022 to 05/09/2024	**Last Amended on**	26/10/2022

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
154	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformers (7.5 A To 3000 Amp / 0.577- 1-5 Amp)	Determination of errors according to the requirements of the appropriate designation or accuracy class (For protection class Core 5P,10P,15P)	IS 2705 (Part 3) Cl.No 7.1 & 7.2 (Withdrawn Standard)
155	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformers (7.5 A To 3000 Amp / 0.577- 1-5 Amp)	Determination of errors according to the requirements of the appropriate designation or accuracy class (For PS Class)	IEC 61869 (PART 2) Cl. No. 7.3.5, 7.2.6
156	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformers (7.5 A To 3000 Amp / 0.577- 1-5 Amp)	Determination of errors according to the requirements of the appropriate designation or accuracy class (For PS Class)	IEC 61869 (PART 2) Cl. No. 7.3.5, 7.2.6
157	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformers (7.5 A To 3000 Amp / 0.577- 1-5 Amp)	Determination of errors according to the requirements of the appropriate designation or accuracy class (For PS Class)	IS 16227 (PART 2) Cl. No. 7.3.5, 7.2.6
158	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformers (7.5 A To 3000 Amp / 0.577- 1-5 Amp)	Determination of errors according to the requirements of the appropriate designation or accuracy class (For PS Class)	IS 16227 (PART 2) Cl. No. 7.3.5, 7.2.6
159	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformers (7.5 A To 3000 Amp / 0.577- 1-5 Amp)	Determination of errors according to the requirements of the appropriate designation or accuracy class (For PS Class)	IS 2705 (Part 4) Cl. No 6.3 (Withdrawn Standard)
160	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)& Dry Type (up to 33 kV)Current Transformers (7.5 A To 3000 Amp / 0.577- 1-5 Amp)	Determination of errors according to the requirements of the appropriate designation or accuracy class (For PS Class)	IS 2705 (Part 4) Cl. No. 6.3 (Withdrawn Standard)
161	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Multiple Chopped Impulse test on Primary Terminal	Clause 7.4.2 of IEC 61869(Part 1)
162	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Dielectric Dissipation Factor	IS 2705 (Part1) Cl. No. 9.12 (Withdrawn Standard)
163	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Enclouser Tightness test	IEC 61869 (PART 1) Cl.No. 7.3.7
164	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Enclouser Tightness Test	IS 16227 (PART 1) Cl.No. 7.3.7

SCOPE OF ACCREDITATION

Laboratory Name : TESTING LABORATORY, MEHRU ELECTRICAL & MECHANICAL ENGINEERS PVT. LTD., SP-2/180, RIICO INDUSTRIAL, KEHRANI, BHIWADI, RAJASTHAN, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6557 **Page No** 13 of 19

Validity 06/09/2022 to 05/09/2024 **Last Amended on** 26/10/2022

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
165	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Measurement of Capacitance	IEC 61869 (PART 2) Cl.No. 7.4.3
166	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Measurement of Capacitance	IS 16227 (PART 2) Cl.No. 7.4.3
167	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Measurement of Capacitance	IS 2705 (Part 1) Cl.No. 9.12 (Withdrawn Standard)
168	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Measurement of Dielectric Dissipation Factor	IEC 61869 (PART 2) Cl.No. 7.4.3
169	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Measurement of Dielectric Dissipation Factor	IS 16227 (PART 2) Cl.No. 7.4.3
170	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Measurement of Dielectric Dissipation Factor.	IS 2705 (PART 1) Cl. No. 9.12
171	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Multiple Chopped Impulse test on Primary Terminal	Clause 7.4. 2 of IEC 61869(Part 1)
172	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Multiple Chopped Impulse test on Primary Terminal	Clause 7.4.2 of IS 16227 (Part 1)
173	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Temperature Coefficient	C.ENGG/SPEC/SWGR/R9
174	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Temperature Coefficient Test	C. ENGG/SPEC/SWGR/R9
175	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Temperature Coefficient Test	C.ENGG/SPEC/SWGR/R9
176	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled (up to 400 kV)Current Transformer (class 0.1,0.2s,0.2,0.5,0.5s ,5P,10P,15P,PS.)	Thermal Stability (1 A to 4000 A & 1 V to 750 kV)	C.ENGG/SPEC/SWGR/R9
177	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV	Short-circuit withstand capability test (3.3 kV to 400kV)	IS 16227 (PART 3) Cl. No. 7.2.301,6.301
178	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV	Enclosure Tightness test	IEC 61869 (PART 1) Cl.No 7.3.7
179	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV	Induced Over voltage withstand Test at 150 Hz on primary winding	IEC 61869 (PART 3) Cl. No. 7.3.1
180	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV	Induced Over voltage withstand Test at 150 Hz on primary winding	IS 16227 (PART 3) Cl. No. 7.3.1
181	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV	Partial discharge test	IS 16227 (PART 3) Cl.No. 7.3.2

SCOPE OF ACCREDITATION

Laboratory Name : TESTING LABORATORY, MEHRU ELECTRICAL & MECHANICAL ENGINEERS PVT. LTD., SP-2/180, RIICO INDUSTRIAL, KEHRANI, BHIWADI, RAJASTHAN, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6557 **Page No** 14 of 19

Validity 06/09/2022 to 05/09/2024 **Last Amended on** 26/10/2022

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
182	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV	Power frequency dry withstand tests on secondary winding & between section	IEC 61869 (PART 1) Cl. No. 7.3.4,5.3.5,7.3.3 & 5.3.4
183	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV	Power frequency dry withstand tests on secondary winding & between section	IEC 61869 (PART 1) Cl. No. 7.3.4,5.3.5,7.3.3 & 5.3.4
184	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV	Power frequency dry withstand tests on secondary winding & between section	IS 3156 (PART 1) Cl. No. 9.4
185	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV	Power frequency dry withstand tests on secondary windings & between section	IS 16227 (PART 1) Cl. No. 7.3.4,5.3.5,7.3.3 & 5.3.4
186	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV	Separate Source withstand test	IEC 61869 (PART 3) Cl. No. 7.3.1
187	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV	Separate Source withstand test	IS 16227 (PART 3) Cl. No. 7.3.1
188	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV	Verification of terminal marking and polarity	IEC 61869 (PART 1) Cl. No. 7.3.6
189	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV	Verification of terminal marking and polarity	IS 16227 (PART 1) Cl. No. 7.3.6
190	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV Class	Determination of errors according to the requirements of the appropriate designation or accuracy class (For metering Class , 0.1,0.2,0.5 & 1.0 For Protection Class, 3P & 6P) 3.3 kV to 400 kV	IS 16227 (PART 3) Cl. No. 7.2.6, 7.3.5
191	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV Class	Determination of errors according to the requirements of the appropriate designation or accuracy class (For metering Class , 0.1,0.2,0.5 & 1.0 For Protection Class, 3P & 6P) 3.3 kV to 400 kV	IS 16227 (PART 3) Cl. No.7.2.6, 7.3.5
192	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV Class	Determination of errors according to the requirements of the appropriate designation or accuracy class (For metering Class , 0.1,0.2,0.5 & 1.0 For Protection Class, 3P & 6P) 3.3 KV To 400KV	IEC 61869 (PART 3) Cl. No. 7.2.6, 7.3.5

SCOPE OF ACCREDITATION

Laboratory Name : TESTING LABORATORY, MEHRU ELECTRICAL & MECHANICAL ENGINEERS PVT. LTD., SP-2/180, RIICO INDUSTRIAL, KEHRANI, BHIWADI, RAJASTHAN, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6557 **Page No** 15 of 19

Validity 06/09/2022 to 05/09/2024 **Last Amended on** 26/10/2022

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
193	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV Class	Determination of errors according to the requirements of the appropriate designation or accuracy class (For metering Class , 0.1,0.2,0.5 & 1.0 For Protection Class, 3P & 6P) 3.3KV To 400KV	IEC 61869 (PART 3) Cl. No. 7.2.6, 7.3.5
194	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV Class	Enclouser Tightness Test	IS 16227 (PART 1) Cl. No. 7.3.7
195	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV Class	Short-circuit withstand capability test (3.3 kV to 400 kV)	IEC 61869 (PART 3) Cl. No. 7.2.301,6.301
196	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400kV	Capacitance Measurement Test	IS 16227 (PART 3) Cl. No. 7.4.3
197	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400kV	Dielectric Dissipation Factor	IEC 61869 (PART 3) Cl. No. 7.4.3
198	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400kV	Dielectric Dissipation Factor	IS 16227 (PART 3) Cl. No. 7.4.3
199	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400kV	Partial discharge test	IEC 61869 (PART 3) Cl. No. 7.3.2
200	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400kV	Power frequency dry withstand tests on secondary windings & between section	IEC 61869 (PART 1) Cl. No. 7.3.4,5.3.5,7.3.3 & 5.3.4
201	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400kV	Temperature-Rise Test	IEC 61869 (PART 3) Cl. No.7.2.2
202	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400kV	Temperature-Rise Test	IS 16227 (PART 3) Cl. No. 7.2.2
203	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400kV Class	Capacitance Measurement Test	IEC 61869 (PART 3) Cl. No. 7.4.3
204	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV	Determination of errors according to the requirements of the appropriate designation or accuracy class (0.1,0.2,0.5 & 1.0 for Metering For Protection Class, 3P & 6P) 3.3 kV To 400kV	IS 3156 (PART 2 & 3)
205	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV	Partial discharge test	IS 3156 (PART 1) Cl. No. 9.1.2(d)
206	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV	Separate Source withstand	IS 3156 (Part 1) Cl. No.9.3.1.1 (Withdrawn Standard)

SCOPE OF ACCREDITATION

Laboratory Name : TESTING LABORATORY, MEHRU ELECTRICAL & MECHANICAL ENGINEERS PVT. LTD., SP-2/180, RIICO INDUSTRIAL, KEHRANI, BHIWADI, RAJASTHAN, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6557 **Page No** 16 of 19

Validity 06/09/2022 to 05/09/2024 **Last Amended on** 26/10/2022

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
207	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV	Separate Source withstand test	IS 3156 (PART 1) Cl. No.9.3.1.1
208	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV Class	Determination of errors according to the requirements of the appropriate designation or accuracy class .For metering Class , 0.1,0.2,0.5 & 1.0 For Protection Class, 3P & 6P (3.3 kV to 400kV)	IS : 3156 (PART 2 & PART 3)
209	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400kV	Induced Over voltage withstand Test at 150 Hz on primary winding	IS 3156 (Part 1) Cl. No. 9.3.1.2 (Withdrawn Standard)
210	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400kV	Power frequency dry withstand tests on secondary winding & between section	IS 3156 (Part 1) Cl. No. 9.4 (Withdrawn Standard)
211	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV	Determination of errors according to the requirements of the appropriate designation or accuracy class (0.1,0.2,0.5 & 1.0 for Metering For Protection Class, 3P & 6P) 3.3 kV To 400kV	IS 3156 (Part 2 & 3) (Withdrawn Standard)
212	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV	Partial discharge	IS 3156 (Part 1) Cl. No. 9.1.2(d) (Withdrawn Standard)
213	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV	Temperature-Rise	IS 3156 (Part 1) Cl. No. 9.5 (Withdrawn Standard)
214	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV	Verification of terminal marking and polarity	IS 3156 (Part 1) Cl. No. 9.2 (Withdrawn Standard)
215	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer Up to 400 kV Class	Determination of errors according to the requirements of the appropriate designation or accuracy class For metering Class , 0.1,0.2,0.5 & 1.0 For Protection Class, 3P & 6P (3.3 kV to 400kV)	IS 3156 (Part 2 & Part 3) (Withdrawn Standard)
216	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer up to 400KV	Chopped Impulse test on Primary Terminal	Clause 7.4.1 of IEC 61869(Part 1)
217	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer up to 400KV	Chopped Impulse test on Primary Terminal	Clause 7.4.1 of IS 16227 (Part 1)
218	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer up to 400KV	Multiple Chopped Impulse test on Primary Terminal	Clause 7.4.2 of IS 16227 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name :	TESTING LABORATORY, MEHRU ELECTRICAL & MECHANICAL ENGINEERS PVT. LTD., SP-2/180, RIICO INDUSTRIAL, KEHRANI, BHIWADI, RAJASTHAN, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6557	**Page No**	17 of 19
Validity	06/09/2022 to 05/09/2024	**Last Amended on**	26/10/2022

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
219	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer up to 400KV	Chopped Impulse test on Primary Terminal	Clause 7.4.1 of IEC 61869(Part 1)
220	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer up to 400KV	Lightning Impulse test on Primary Terminal	Clause 7.2.3 of IEC 61869(Part 1)
221	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer up to 400KV	Lightning Impulse test on Primary Terminal	Clause 7.2.3 of IS 16227 (Part 1)
222	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer up to 400KV	Multiple Chopped Impulse test on Primary Terminal	Clause 7.4.2 of IEC 61869(Part 1)
223	ELECTRICAL- INDUCTORS & TRANSFORMERS	Potential Transformer up to 400KV	Multiple Chopped Impulse test on Primary Terminal	Clause 7.4.2 of IS 16227 (Part 1)
224	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis (Acetylene)	IEC 60599
225	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis (Acetylene)	IS 9434
226	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis: (Acetylene)	IS 16085
227	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis: (Carbon Dioxide)	IS 16085
228	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis: (Carbon Monoxide)	IS 16085
229	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis: (Ethane)	IEC 60599
230	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis: (Ethylene)	IEC 60599
231	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis: (Ethylene)	IS 16085
232	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis: (Methane)	IEC 60599
233	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis: (Nitrogen)	IEC 60599

SCOPE OF ACCREDITATION

Laboratory Name :	TESTING LABORATORY, MEHRU ELECTRICAL & MECHANICAL ENGINEERS PVT. LTD., SP-2/180, RIICO INDUSTRIAL, KEHRANI, BHIWADI, RAJASTHAN, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6557	**Page No**	18 of 19
Validity	06/09/2022 to 05/09/2024	**Last Amended on**	26/10/2022

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
234	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis: (Carbon Monoxide)	IS 9434
235	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis: (Carbon Monoxide)	IEC 60599
236	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis: (Hydrogen)	IEC 60599
237	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis: (Hydrogen)	IS 16085
238	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis: (Methane)	IS 16085
239	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis: (Methane)	IS:9434
240	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis: (Nitrogen)	IS 16085
241	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis: (Nitrogen)	IS 9434
242	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis: (Oxygen)	IEC 60599
243	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Dissolved Gas Analysis (Carbon Dioxide)	IEC 60599
244	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Dissolved Gas Analysis (Carbon Dioxide)	IS 9434
245	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Dissolved Gas Analysis (Ethane)	IS 16085
246	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Dissolved Gas Analysis (Ethylene)	IS 9434
247	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Dissolved Gas Analysis (Ethane)	IS 9434

SCOPE OF ACCREDITATION

Laboratory Name :	TESTING LABORATORY, MEHRU ELECTRICAL & MECHANICAL ENGINEERS PVT. LTD., SP-2/180, RIICO INDUSTRIAL, KEHRANI, BHIWADI, RAJASTHAN, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6557	**Page No**	19 of 19
Validity	06/09/2022 to 05/09/2024	**Last Amended on**	26/10/2022

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
248	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Dissolved Gas Analysis (Hydrogen)	IS 9434
249	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Dissolved Gas Analysis (Methane)	IS:9434
250	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Dissolved Gas Analysis (Oxygen)	IS 16085
251	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Dissolved Gas Analysis (Oxygen)	IS 9434
252	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Dissolved Gas Analysis(Nitrogen)	IS 16085
253	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oils	Dissolved Gas Analysis: (Ethane)	IS 16085