



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

JSL INSTRUMENT TRANSFORMER LABORATORY

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

JSL INDUSTRIES LTD., N.H.NO.8, MOGAR, ANAND, GUJARAT, INDIA

in the field of

TESTING

Certificate Number: TC-11859

Issue Date: 04/07/2023

Valid Until:

03/07/2025

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : JSL INDUSTRIES LTD.

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

JSL INSTRUMENT TRANSFORMER LABORATORY, JSL INDUSTRIES LTD., N.H.NO.8, MOGAR, ANAND, GUJARAT, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-11859

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Validity

04/07/2023 to 03/07/2025

Last Amended on

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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	Current Transformers : Voltage rating : 11 kV to 72.5 kV, Ratio : 40 A to 1200A, Accuracy Class : 0.2 S to 3	Determination of the instrument security factor (FS) of measuring current transformers	IEC 61869-2, Cl.No.7.5.2
2	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers : Voltage rating : 11 kV to 72.5 kV, Ratio : 40 A to 1200A, Accuracy Class : 0.2 S to 3	Determination of the instrument security factor (FS) of measuring current transformers	IS 16227 (Part 2), Cl.No.7.5.2
3	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers : Voltage rating : 11 kV to 72.5 kV, Ratio : 40 A to 1200A, Accuracy Class : 0.2 S to 3	Determination of the secondary winding resistance	IEC 61869-2, Cl.No.7.3.201
4	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers : Voltage rating : 11 kV to 72.5 kV, Ratio : 40 A to 1200A, Accuracy Class : 0.2 S to 3	Determination of the secondary winding resistance	IS 16227 (Part 2), Cl.No.7.3.201
5	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers : Voltage rating : 11 kV to 72.5 kV, Ratio : 40 A to 1200A, Accuracy Class : 0.2 S to 3	Inter - turn over voltage test	IEC 61869-2, Cl.No.7.3.204
6	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers : Voltage rating : 11 kV to 72.5 kV, Ratio : 40 A to 1200A, Accuracy Class : 0.2 S to 3	Inter - turn over voltage test	IS 16227 (Part 2), Cl.No.7.3.204
7	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers : Voltage rating : 11 kV to 72.5 kV, Ratio : 40 A to 1200A, Accuracy Class : 0.2 S to 3	Measurement of capacitance	IEC 61869-2, Cl.No.7.4.3
8	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers : Voltage rating : 11 kV to 72.5 kV, Ratio : 40 A to 1200A, Accuracy Class : 0.2 S to 3	Measurement of capacitance	IS 16227 (Part 2), Cl.No.7.4.3
9	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers : Voltage rating : 11 kV to 72.5 kV, Ratio : 40 A to 1200A, Accuracy Class : 0.2 S to 3	Measurement of dielectric dissipation factor	IEC 61869-2, Cl.No.7.4.3
10	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers : Voltage rating : 11 kV to 72.5 kV, Ratio : 40 A to 1200A, Accuracy Class : 0.2 S to 3	Measurement of dielectric dissipation factor	IS 16227 (Part 2), Cl.No.7.4.3
11	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers : Voltage rating : 11 kV to 72.5 kV, Ratio : 40 A to 1200A, Accuracy Class : 0.2 S to 3	Measurement of Insulation resistance	JITL-11, Issue no 01, Issue date: 28.04.2022
12	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers : Voltage rating : 11 kV to 72.5 kV, Ratio : 40 A to 1200A, Accuracy Class : 0.2 S to 3	Partial discharge Measurement	IEC 61869-2, Cl.No. 7.3.2
13	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers : Voltage rating : 11 kV to 72.5 kV, Ratio : 40 A to 1200A, Accuracy Class : 0.2 S to 3	Partial discharge Measurement	IS 16227 (Part 2), Cl.No. 7.3.2
14	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers : Voltage rating : 11 kV to 72.5 kV, Ratio : 40 A to 1200A, Accuracy Class : 0.2 S to 3	Power frequency voltage withstand test on secondary terminal	IEC 61869-2, Cl.No. 7.3.4
15	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers : Voltage rating : 11 kV to 72.5 kV, Ratio : 40 A to 1200A, Accuracy Class : 0.2 S to 3	Power frequency voltage withstand test on secondary terminal	IS 16227 (Part 2), Cl.No. 7.3.4
16	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers : Voltage rating : 11 kV to 72.5 kV, Ratio : 40 A to 1200A, Accuracy Class : 0.2 S to 3	Power frequency voltage withstand tests between sections	IEC 61869-2, Cl.No. 7.3.3



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17	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers : Voltage rating : 11 kV to 72.5 kV, Ratio : 40 A to 1200A, Accuracy Class : 0.2 S to 3	Power frequency voltage withstand tests between sections	IS 16227 (Part 2), Cl.No. 7.3.3
18	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers : Voltage rating : 11 kV to 72.5 kV, Ratio : 40 A to 1200A, Accuracy Class : 0.2 S to 3	Power frequency voltage withstand tests on primary terminals	IEC 61869-2, Cl.No. 7.3.1
19	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers : Voltage rating : 11 kV to 72.5 kV, Ratio : 40 A to 1200A, Accuracy Class : 0.2 S to 3	Power frequency voltage withstand tests on primary terminals	IS 16227 (Part 2), Cl.No. 7.3.1
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers : Voltage rating : 11 kV to 72.5 kV, Ratio : 40 A to 1200A, Accuracy Class : 0.2 S to 3	Test for Accuracy - Phase Angle Error	IEC 61869-2, Cl.No.7.3.5
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers : Voltage rating : 11 kV to 72.5 kV, Ratio : 40 A to 1200A, Accuracy Class : 0.2 S to 3	Test for Accuracy - Phase Angle Error	IS 16227 (Part 2), Cl.No.7.3.5
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers : Voltage rating : 11 kV to 72.5 kV, Ratio : 40 A to 1200A, Accuracy Class : 0.2 S to 3	Test for Accuracy - Ratio Error	IEC 61869-2, Cl.No.7.3.5
23	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers : Voltage rating : 11 kV to 72.5 kV, Ratio : 40 A to 1200A, Accuracy Class : 0.2 S to 3	Test for Accuracy - Ratio Error	IS 16227 (Part 2), Cl.No.7.3.5
24	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers : Voltage rating : 11 kV to 72.5 kV, Ratio : 40 A to 1200A, Accuracy Class : 0.2 S to 3	Verification of marking	IEC 61869-2, Cl.No. 7.3.6
25	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers : Voltage rating : 11 kV to 72.5 kV, Ratio : 40 A to 1200A, Accuracy Class : 0.2 S to 3	Verification of marking	IS 16227 (Part 2), Cl.No. 7.3.6
26	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage transformer Rating 33 kV to 72.5 kV, Accuracy class : 0.2 to 3	Measurement of Insulation resistance	JITL-38, Issue no 01, Issue date 28.04.2022
27	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage transformer Rating 33 kV to 72.5 kV, Accuracy class : 0.2 to 3	Measurement of capacitance	IEC 61869-3, Cl.No. 7.4.3
28	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage transformer Rating 33 kV to 72.5 kV, Accuracy class : 0.2 to 3	Measurement of capacitance	IS:16227 (Part 3), Cl.No. 7.4.3
29	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage transformer Rating 33 kV to 72.5 kV, Accuracy class : 0.2 to 3	Measurement of dielectric dissipation factor	IEC 61869-3, Cl.No. 7.4.3
30	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage transformer Rating 33 kV to 72.5 kV, Accuracy class : 0.2 to 3	Measurement of dielectric dissipation factor	IS:16227 (Part 3), Cl.No. 7.4.3
31	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage transformer Rating 33 kV to 72.5 kV, Accuracy class : 0.2 to 3	Partial discharge Measurement	IEC 61869-3, Cl.No. 7.3.2
32	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage transformer Rating 33 kV to 72.5 kV, Accuracy class : 0.2 to 3	Partial discharge Measurement	IS:16227 (Part 3), Cl.No. 7.3.2
33	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage transformer Rating 33 kV to 72.5 kV, Accuracy class : 0.2 to 3	Power frequency voltage withstand test on secondary terminals	IEC 61869-3, Cl.No. 7.3.4



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34	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage transformer Rating 33 kV to 72.5 kV, Accuracy class : 0.2 to 3	Power frequency voltage withstand test on secondary terminals	IS:16227 (Part 3), Cl.No. 7.3.4
35	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage transformer Rating 33 kV to 72.5 kV, Accuracy class : 0.2 to 3	Power frequency withstand test between sections	IEC 61869-3, Cl.No. 7.3.3
36	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage transformer Rating 33 kV to 72.5 kV, Accuracy class : 0.2 to 3	Power frequency withstand test between sections	IS:16227 (Part 3), Cl.No. 7.3.3
37	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage transformer Rating 33 kV to 72.5 kV, Accuracy class : 0.2 to 3	Power-frequency voltage withstand tests on primary terminals - Common mode (separate source) power-frequency withstand test	IEC 61869-3, Cl.No. 7.3.1 & 7.3.1.302
38	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage transformer Rating 33 kV to 72.5 kV, Accuracy class : 0.2 to 3	Power-frequency voltage withstand tests on primary terminals - Common mode (separate source) power-frequency withstand test	IS:16227 (Part 3), Cl.No. 7.3.1 & 7.3.1.302
39	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage transformer Rating 33 kV to 72.5 kV, Accuracy class : 0.2 to 3	Power-frequency voltage withstand tests on primary terminals - Differential mode (Induced) AC Voltage test	IEC 61869-3, Cl.No. 7.3.1 & 7.3.1.303
40	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage transformer Rating 33 kV to 72.5 kV, Accuracy class : 0.2 to 3	Power-frequency voltage withstand tests on primary terminals - Differential mode (Induced) AC Voltage test	IS:16227 (Part 3), Cl.No. 7.3.1 & 7.3.1.303
41	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage transformer Rating 33 kV to 72.5 kV, Accuracy class : 0.2 to 3	Test for Accuracy - Phase Angle Error	IEC 61869-3, Cl.No. 7.3.5
42	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage transformer Rating 33 kV to 72.5 kV, Accuracy class : 0.2 to 3	Test for Accuracy - Phase Angle Error	IS:16227 (Part 3), Cl.No. 7.3.5
43	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage transformer Rating 33 kV to 72.5 kV, Accuracy class : 0.2 to 3	Test for Accuracy - Ratio Error	IEC 61869-3, Cl.No. 7.3.5
44	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage transformer Rating 33 kV to 72.5 kV, Accuracy class : 0.2 to 3	Test for Accuracy - Ratio Error	IS:16227 (Part 3), Cl.No. 7.3.5
45	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage transformer Rating 33 kV to 72.5 kV, Accuracy class : 0.2 to 3	Verification of marking	IEC 61869-3, Cl.No. 7.3.6 & 6.13
46	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage transformer Rating 33 kV to 72.5 kV, Accuracy class : 0.2 to 3	Verification of marking	IS:16227 (Part 3), Cl.No. 7.3.6 & 6.13