



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

YASH METROLOGY LABORATORY PRIVATE LIMITED, 93/E, SECTOR-5, GANDHI NAGAR,
CHITTAURGARH, RAJASTHAN, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-16716

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Validity

05/09/2025 to 04/09/2029

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 Testing				
1	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters (Class 0.2s, 0.5s and 1s)	AC High Voltage	IS 16444 (Part 2) (Cl.6.10.6)
2	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters (Class 0.2s, 0.5s and 1s)	Insulation Resistance	IS 16444 (Part 2) (Cl.6.10.6)
3	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters (Class 0.2s, 0.5s and 1s)	Limits of Error	IS 16444 (Part 2) (Cl.6.10.6)
4	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters (Class 0.2s, 0.5s and 1s)	Meter Constant	IS 16444 (Part 2) (Cl.6.12)
5	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters (Class 0.2s, 0.5s and 1s)	No-Load Condition	IS 16444 (Part 2) (Cl.6.12)
6	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters (Class 0.2s, 0.5s and 1s)	Power Consumption Test	IS 16444 (Part 2) (Cl.6.10.1)
7	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters (Class 0.2s, 0.5s and 1s)	Repeatability of Error	IS 16444 (Part 2) (Cl.6.12)



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8	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters (Class 0.2s, 0.5s and 1s)	Starting Condition	IS 16444 (Part 2) (Cl.6.12)
9	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour Meters (Class 0.2s and 0.5s)	AC High Voltage	IS 14697 (Cl.12.7.6.1 & Cl.12.7.6.3)
10	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour Meters (Class 0.2s and 0.5s)	Limits of Error	IS 14697 (Cl.11.1)
11	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour Meters (Class 0.2s and 0.5s)	Limits of Error due to other Influence Quantity: Voltage Variation $\pm 10\%$, Frequency Variation $\pm 5\%$	IS 14697 (Cl.9.2.1 & Cl.11.2)
12	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour Meters (Class 0.2s and 0.5s)	Limits of Error due to other Influence Quantity: Waveform 10% of 3rd Harmonics in the Current Circuit	IS 14697 (Cl.11.2, Table 13)
13	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour Meters (Class 0.2s and 0.5s)	Meter Constant	IS 14697 (Cl.12.14)
14	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour Meters (Class 0.2s and 0.5s)	No-Load Condition	IS 14697 (Cl.12.12)



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15	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour Meters (Class 0.2s and 0.5s)	Power Consumption	IS 14697 (Cl.12.7.1)
16	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour Meters (Class 0.2s and 0.5s)	Repeatability of Error	IS 14697 (Cl.12.16)
17	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour Meters (Class 0.2s and 0.5s)	Starting Condition	IS 14697 (Cl.12.13)
18	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Watthour Meters (Class 1 and 2)	AC High Voltage	IS 13779 (Cl.12.7.6.3)
19	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Watthour Meters (Class 1 and 2)	Insulation Test	IS 13779 (Cl.12.7.6.4)
20	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Watthour Meters (Class 1 and 2)	Limits of Error	IS 13779 (Cl.11.1)
21	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Watthour Meters (Class 1 and 2)	Limits of Error due to other Influence Quantity: Voltage Variation $\pm 10\%$, Frequency Variation $\pm 5\%$	IS 13779 (Cl.11.2, Table 17)



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22	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Watthour Meters (Class 1 and 2)	Limits of Error due to other Influence Quantity: Waveform 10% of 3rd Harmonics in the Current Circuit	IS 13779 (Cl.11.2, Table 17)
23	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Watthour Meters (Class 1 and 2)	Meter Constant	IS 13779 (Cl.12.15)
24	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Watthour Meters (Class 1 and 2)	No-Load Condition	IS 13779 (Cl.12.13)
25	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Watthour Meters (Class 1 and 2)	Power Consumption	IS 13779 (Cl.12.7.1)
26	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Watthour Meters (Class 1 and 2)	Repeatability of Error	IS 13779 (Cl.12.17)
27	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Watthour Meters (Class 1 and 2)	Starting Conditions	IS 13779 (Cl. 12.14)
28	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for a.c. Active Energy (Class 0.5, 1 and 2)	Limits of Error due to Variation of the Current	IEC 62053-21 (Cl.7.9)



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29	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for a.c. Active Energy (Class 1s, 0.2s and 0.5s)	Limits of Error due to Variation of the Current	IEC 62053-22 (Cl.8.1)
30	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for Fundamental Component Reactive Energy (Class 0.5s, 1s, 1, 2 and 3)	Limits of Error due to Variation of the Current	IEC 62053-24 (Cl.8.2)
31	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformers (Protection) (5P, 10P, 15P)	Accuracy Limit Factor	IS 16227 (Part 1 & Part 2) (Cl.3.4.208)
32	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformers (Protection) (5P, 10P, 15P)	Knee Voltage	IS 16227 (Part 1 & Part 2) (Cl.7.3.203)
33	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformers - Metering & Protection (LT, 0.72 kV HSV) (Class 0.2s, 0.2, 0.5, 0.5s, 1, 5P, 10P, 15P)	High Voltage Power Frequency	IS 16227 (Part 1) (Cl.7.3.1, Cl.7.3.3, Cl.7.3.4)
34	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformers - Metering & Protection (LT, 0.72 kV HSV) (Class 0.2s, 0.2, 0.5, 0.5s, 1, 5P, 10P, 15P)	Instrument Security Factor	IS 16227 (Part 1 & Part 2) (Cl.7.2.6.202, Cl.7.5.2)
35	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformers - Metering & Protection (LT, 0.72 kV HSV) (Class 0.2s, 0.2, 0.5, 0.5s, 1, 5P, 10P, 15P)	Verification of Terminal Markings	IS 16227 (Part 1) (Cl.7.3.6), IS 16227 (Part 2) (Cl.6.13.201) (by Primary Injection Method)
36	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformers - Metering & Protection (LT, 0.72 kV HSV) (Class 0.2s, 0.2, 0.5, 0.5s, 1, 5P, 10P, 15P)	Winding Resistance	IS 16227 (Part 1 & Part 2) (Cl.7.3.201)
37	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformers - Metering & Protection (LT, 0.72 kV HSV) (Class 0.2s, 0.2, 0.5, 0.5s, 1, 5P, 10P, 15P)	Composite Error of Class (P and PR)	IS 16227 (Part 1 & Part 2) (Cl.7.2.6.203, Cl.7.3.5.203)
38	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformers - Metering & Protection (LT, 0.72kV HSV) (Class 0.2s, 0.2, 0.5, 0.5s, 1, 5P, 10P, 15P)	Test for Accuracy	IS 16227 (Part 1) (Cl.7.2.6) & IS 16227 (Part 2) (Cl.7.2.6 & Cl.7.3.5) (by Primary Injection Method)



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39	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage Transformer - Metering (6.6 kV to 132 kV) (Class 0.2, 0.5, 1)	Limits of Voltage Error and Phase Displacement for Measuring Voltage Transformers	IS 16227 (Part 1) (Cl.7.2.6) & IS 16227 (Part 3) (Cl.7.2.6 & Cl.7.3.5) (by Primary Injection Method)
40	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage Transformer - Metering (6.6 kV to 220 kV) (Class 0.2, 0.5, 1)	Verification of Terminal Markings	IS 16227 (Part 1) (Cl.7.3.6), IS 16227 (Part 3) (Cl.6.13.301) (by Primary Injection Method)



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Site Testing				
1	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters (Class 0.2s, 0.5s and 1s)	AC High Voltage	IS 16444 (Part 2) (Cl.6.10.6)
2	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters (Class 0.2s, 0.5s and 1s)	Insulation Resistance	IS 16444 (Part 2) (Cl.6.10.6)
3	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters (Class 0.2s, 0.5s and 1s)	Limits of Error	IS 16444 (Part 2) (Cl.6.10.6)
4	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters (Class 0.2s, 0.5s and 1s)	Meter Constant	IS 16444 (Part 2) (Cl.6.12)
5	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters (Class 0.2s, 0.5s and 1s)	No-Load Condition	IS 16444 (Part 2) (Cl.6.12)
6	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters (Class 0.2s, 0.5s and 1s)	Power Consumption Test	IS 16444 (Part 2) (Cl.6.10.1)
7	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters (Class 0.2s, 0.5s and 1s)	Repeatability of Error	IS 16444 (Part 2) (Cl.6.12)



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8	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour and Var-Hour Smart Meters (Class 0.2s, 0.5s and 1s)	Starting Condition	IS 16444 (Part 2) (Cl.6.12)
9	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour Meters (Class 0.2s and 0.5s)	AC High Voltage	IS 14697 (Cl.12.7.6.1 & Cl.12.7.6.3)
10	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour Meters (Class 0.2s and 0.5s)	Limits of Error	IS 14697 (Cl.11.1)
11	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour Meters (Class 0.2s and 0.5s)	Limits of Error due to other Influence Quantity: Voltage Variation $\pm 10\%$, Frequency Variation $\pm 5\%$	IS 14697 (Cl.9.2.1 & Cl.11.2)
12	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour Meters (Class 0.2s and 0.5s)	Limits of Error due to other Influence Quantity: Waveform 10% of 3rd Harmonics in the Current Circuit	IS 14697 (Cl.11.2, Table 13)
13	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour Meters (Class 0.2s and 0.5s)	Meter Constant	IS 14697 (Cl.12.14)
14	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour Meters (Class 0.2s and 0.5s)	No-Load Condition	IS 14697 (Cl.12.12)



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15	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour Meters (Class 0.2s and 0.5s)	Power Consumption	IS 14697 (Cl.12.7.1)
16	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour Meters (Class 0.2s and 0.5s)	Repeatability of Error	IS 14697 (Cl.12.16)
17	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Transformer Operated Watthour Meters (Class 0.2s and 0.5s)	Starting Condition	IS 14697 (Cl.12.13)
18	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Watthour Meters (Class 1 and 2)	AC High Voltage	IS 13779 (Cl.12.7.6.3)
19	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Watthour Meters (Class 1 and 2)	Insulation Test	IS 13779 (Cl.12.7.6.4)
20	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Watthour Meters (Class 1 and 2)	Limits of Error	IS 13779 (Cl.11.1)
21	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Watthour Meters (Class 1 and 2)	Limits of Error due to other Influence Quantity: Voltage Variation $\pm 10\%$, Frequency Variation $\pm 5\%$	IS 13779 (Cl.11.2, Table 17)



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22	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Watthour Meters (Class 1 and 2)	Limits of Error due to other Influence Quantity: Waveform 10% of 3rd Harmonics in the Current Circuit	IS 13779 (Cl.11.2, Table 17)
23	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Watthour Meters (Class 1 and 2)	Meter Constant	IS 13779 (Cl.12.15)
24	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Watthour Meters (Class 1 and 2)	No-Load Condition	IS 13779 (Cl.12.13)
25	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Watthour Meters (Class 1 and 2)	Power Consumption	IS 13779 (Cl.12.7.1)
26	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Watthour Meters (Class 1 and 2)	Repeatability of Error	IS 13779 (Cl.12.17)
27	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c. Static Watthour Meters (Class 1 and 2)	Starting Conditions	IS 13779 (Cl. 12.14)
28	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for a.c. Active Energy (Class 0.5, 1 and 2)	Limits of Error due to Variation of the Current	IEC 62053-21 (Cl.7.9)



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29	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for a.c. Active Energy (Class 1s, 0.2s and 0.5s)	Limits of Error due to Variation of the Current	IEC 62053-22 (Cl.8.1)
30	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for Fundamental Component Reactive Energy (Class 0.5s, 1s, 1, 2 and 3)	Limits of Error due to Variation of the Current	IEC 62053-24 (Cl.8.2)
31	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformers (Protection) (5P, 10P, 15P)	Accuracy Limit Factor	IS 16227 (Part 1 & Part 2) (Cl.3.4.208)
32	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformers (Protection) (5P, 10P, 15P)	Knee Voltage	IS 16227 (Part 1 & Part 2) (Cl.7.3.203)
33	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformers - Metering & Protection (LT, 0.72 kV HSV) (Class 0.2s, 0.2, 0.5, 0.5s, 1, 5P, 10P, 15P)	High Voltage Power Frequency	IS 16227 (Part 1) (Cl.7.3.1, Cl.7.3.3, Cl.7.3.4)
34	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformers - Metering & Protection (LT, 0.72 kV HSV) (Class 0.2s, 0.2, 0.5, 0.5s, 1, 5P, 10P, 15P)	Instrument Security Factor	IS 16227 (Part 1 & Part 2) (Cl.7.2.6.202, Cl.7.5.2)
35	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformers - Metering & Protection (LT, 0.72 kV HSV) (Class 0.2s, 0.2, 0.5, 0.5s, 1, 5P, 10P, 15P)	Verification of Terminal Markings	IS 16227 (Part 1) (Cl.7.3.6), IS 16227 (Part 2) (Cl.6.13.201) (by Primary Injection Method)
36	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformers - Metering & Protection (LT, 0.72 kV HSV) (Class 0.2s, 0.2, 0.5, 0.5s, 1, 5P, 10P, 15P)	Winding Resistance	IS 16227 (Part 1 & Part 2) (Cl.7.3.201)
37	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformers - Metering & Protection (LT, 0.72 kV HSV) (Class 0.2s, 0.2, 0.5, 0.5s, 1, 5P, 10P, 15P)	Composite Error of Class (P and PR)	IS 16227 (Part 1 & Part 2) (Cl.7.2.6.203, Cl.7.3.5.203)



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YASH METROLOGY LABORATORY PRIVATE LIMITED, 93/E, SECTOR-5, GANDHI NAGAR,
CHITTAURGARH, RAJASTHAN, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-16716

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Validity

05/09/2025 to 04/09/2029

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
38	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformers - Metering & Protection (LT, 0.72kV HSV) (Class 0.2s, 0.2, 0.5, 0.5s, 1, 5P, 10P, 15P)	Test for Accuracy	IS 16227 (Part 1) (Cl.7.2.6) & IS 16227 (Part 2) (Cl.7.2.6 & Cl.7.3.5) (by Primary Injection Method)
39	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage Transformer - Metering (6.6 kV to 132 kV) (Class 0.2, 0.5, 1)	Limits of Voltage Error and Phase Displacement for Measuring Voltage Transformers	IS 16227 (Part 1) (Cl.7.2.6) & IS 16227 (Part 3) (Cl.7.2.6 & Cl.7.3.5) (by Primary Injection Method)
40	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage Transformer - Metering (6.6 kV to 220 kV) (Class 0.2, 0.5, 1)	Verification of Terminal Markings	IS 16227 (Part 1) (Cl.7.3.6), IS 16227 (Part 3) (Cl.6.13.301) (by Primary Injection Method)