



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name BARODA CALIBRATION SERVICES, 638, G.I.D.C. MAKARPURA, VADODARA, GUJARAT , INDIA

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7227 Page No. : 1 / 336

Validity 08/05/2018 to 07/05/2020 Last Amended on 21/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
1	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Direct connected & Transformer Operated Watthour & VAR-Hour Smart meter	Dielectric Strength or Ac High Voltage	CI. No. 6.10.6 of IS 16444(Part 2): 2017	1kV to 5kV
2	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Direct connected & Transformer Operated Watthour & VAR-Hour Smart meter	Influence Quantities - Voltage Variation, Frequency Variation, Phase Sequence, Voltage Unbalance, Wave Form / Harmonics Components	CI. No. 6.12 of IS 16444 (PART 2): 2017	40V to 300V, 5mA to 120A, 45Hz to 65Hz, Power Factor: 0.25 Lag to 1 & 1 to 0.25 Lead (Active & Reactive) 1PH. 2W, 3PH 3W, 3PH, 4W
3	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Electrical Energy Meter	Dielectric Strength or Ac High Voltage	CI. No. 5.4.6.3 of CBIP PUBLICATION: 325 JANUARY: 2015	1 kV to 5 kV
4	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watthour & VARhour Meters	Dielectric Strength or Ac High Voltage	CI. No. 12.7.6.3 of IS 14697 AMD. 1 TO 4: 1999	1 kV to 5 kV
5	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watthour & VARhour Meters	Effect of Self Heating	CI. No. 12.7.4 of IS 14697 AMD. 1 TO 4: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, Power Factor: 0.25LAG to 1 & 1 to 0.25LEAD (Active & Reactive) 1PH. 2W , 3PH. 3W, 3PH. 4W



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6	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watthour & VARhour Meters	Repeatability of Errors Test	CI. No. 12.16 of IS 14697 AMD. 1 TO 4: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, Power Factor: 0.25 Lag to 1 & 1 to 0.25 Lead (Active & Reactive) 1PH. 2W, 3PH 3W, 3PH, 4W
7	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour meter	Effect of Self Heating	CI. No. 12.7.4 of IS 13779 AMD. 1 TO 5: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH. 3W, 3PH. 4W
8	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour meter	Repeatability of Errors Test	CI. No. 12.17 of IS 13779 AMD. 1 TO 5: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, Power Factor: 0.25 Lag to 1 & 1 to 0.25 Lead (Active & Reactive) 1PH. 2W, 3PH 3W, 3PH, 4W
9	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour meter	Immunity to Earth Fault / Abnormal Voltage Condition	CI. 12.8 OF IS 13779 AMD. 1 TO 5: 1999	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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10	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	Dielectric Strength or Ac High Voltage	A.2.20 of NMI M 6-1: JULY : 2012	1 kV to 5 kV
11	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	EFFECT OF SELF HEATING	Cl. No. 7.3 of IEC 62053-21: 2003	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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12	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	EFFECT OF SELF HEATING	IEC 62052-11: 2003	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
13	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	EFFECT OF SELF HEATING	Cl. No. 7.6 of IEC 62055-31: 2005	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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14	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	EFFECT OF SELF HEATING	CI. No. 6.10.4 of IS 16444 (PART 2) : 2017	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
15	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	EFFECT OF SELF HEATING	CI. No. 6.10.4 of IS 16444: 2015	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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16	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	EFFECT OF SELF HEATING	CI. No. 7.3 of IEC 62053-23 : 2003	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
17	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	EFFECT OF SELF HEATING	CI. No. 6.2.2 of OIML R 46-1 AND 2:12 AUGUST : 2011	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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18	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	Effect of Self Heating	CI. No. 5.4.4 of CBIP PUBLICATION NO.: 325 , JANUARY : 2015	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
19	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	EFFECT OF SELF HEATING	CI. No. 5.4.4 of IS 15884: 2010	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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20	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	EFFECT OF SELF HEATING	CI. No. 5.4.4 of CBIP PUBLICATION: 304: 2008	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
21	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	CI. No. 6.2 of IS 16444(PART 2) : 2017	Qualitative



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22	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	CI. No. 4.2 of CBIP PUBLICATION: 304: 2008	Qualitative
23	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	IS 15707: 2006	Qualitative



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24	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	CI. No. 4.2.6 of IS 15884: 2010	Qualitative
25	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	IEC: 62053-22: 2003	Qualitative



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26	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	IEC 62053-21: 2003	Qualitative
27	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	CI. No. 6.6 of IS 13779 AMD. 1 TO 5: 1999	Qualitative



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28	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	IEC 62053-24: 2014	Qualitative
29	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	IEC 62055-31: 2005	Qualitative



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30	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	IEC 62053-23: 2003	Qualitative
31	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	CI. No. 6.6 of IS 14697 AMD. 1 TO 4: 1999	Qualitative



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32	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	NMI M 6-1: JULY: 2012	Qualitative
33	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	CI. No. 5.6 of IEC 62052-11: 2003	Qualitative



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34	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	CI. No. 4.2 of CBIP PUBLICATION NO.: 325 , JANUARY : 2015	Qualitative
35	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	CI. No. 6.2 of IS 16444 : 2015	Qualitative



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36	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	CI. 4.4.7 of CBIP PUBLICATION NO: 304: 2008	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
37	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	CI. 6.4.11 of OIML R 46-1 & 2:12 AUGUST: 2011	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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38	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	IS 15707: 2006	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
39	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	Cl. 6.10.7 of IS 16444: 2015	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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40	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	CI No. 7.4 of IEC 62053-21: 2003	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
41	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	CI 7.4 of IEC 62053-23: 2003	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
42	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	CI No. 7.4 of IEC 62053-22: 2003	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
43	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	CI. 7.2.3 of IEC 62055- 31: 2005	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
44	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	Cl.6.10.7 of IS 16444 (PART 2) : 2017	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
45	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	IEC 62053-24: 2014	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
46	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	CI. 12.17 of IS 14697 AMD. 1 TO 4: 1999	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
47	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	CI. 4.4.7 of CBIP PUBLICATION NO.: 325 , JANUARY: 2015	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
48	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	Cl. 4.4.2.6 of IS 15884: 2010	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
49	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	Cl. 7.4 of IEC: 62052- 11: 2003	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
50	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 5.4.5 of CBIP PUBLICATION NO.: 325 , JANUARY: 2015	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
51	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	IS 15707: 2006	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
52	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 6.10.5 of IS 16444(Part 2): 2017	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
53	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 5.4.5 of IS 15884: 2010	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
54	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 6.10.5 of IS 16444: 2015	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
55	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 12.7.5 of IS 13779 AMD. 1 TO 5: 1999	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
56	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	Cl. No. 7.5 of IEC 62055-31: 2005	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
57	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	IEC 62053-24: 2014	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
58	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF HEATING	IS 15707: 2006	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
59	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 5.4.5 of CBIP PUBLICATION No. : 304: 2008	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
60	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 5.4.5 of CBIP PUBLICATION NO.: 304: 2008	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
61	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	IEC 62053-24: 2014	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
62	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 6.10.5 of IS 16444: 2015	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
63	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 12.7.5 IF IS 14697 AMD. 1 TO 4: 1999	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
64	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 12.7.5 of IS 13779 AMD. 1 TO 5: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
65	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 5.4.5 of CBIP PUBLICATION: 304: 2008	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
66	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 7.5 of IEC 62055-31: 2005	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
67	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 5.4.5 of CBIP PUBLICATION NO.: 325 , JANUARY : 2015	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
68	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 6.10.5 of IS 16444(Part 2): 2017	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
69	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 5.4.5 of IS 15884: 2010	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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70	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF HEATING	IS 15707: 2006	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
71	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF HEATING	Cl. No. 5.4.5 of IS 15884: 2010	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
72	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 12.7.5 of IS 13779 AMD 1 TO 5: 1999	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
73	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 5.4.5 of CBIP PUBLICATION NO.: 325 , JANUARY: 2015	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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74	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 12.7.5 of IS 14697 AMD. 1 TO 5: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
75	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 7.5 of IEC 62055-31: 2005	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
76	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 6.10.5 IS 16444(Part 2): 2017	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
77	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 6.10.5 of IS 16444: 2015	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
78	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 12.7.5 of IS 14697 AMD. 1 TO 4: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
79	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI. No. 12.7.2 of IS 14697 AMD. 1 TO 4: 1999	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
80	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	Cl. No. 4.4.2. & 5.4.2 of IS 15884: 2010	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
81	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	Cl. No. 5.4.2 of CBIP PUBLICATION NO.: 325 , JANUARY: 2015	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
82	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	A.2.14 of NMI M 6-1: JULY: 2012	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
83	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI. No. 7.1.2 of IEC: 62052-11: 2003	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
84	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI. No. 6.4.5 of OIML R 46-1 & 2:12 AUGUST: 2011	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
85	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI. No. 5.4.2 of CBIP PUBLICATION NO.: 304: 2008	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
86	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI. No. 12.7.2 of IS 13779 AMD. 1 TO 5: 1999	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
87	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI.No. 6.10.2 of IS 16444 (PART 2): 2017	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
88	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	IEC 62053-22: 2003	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
89	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	IEC 62053-24: 2014	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
90	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	IEC 62053-23: 2003	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
91	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI. No. 6.10.2 of IS 16444: 2015	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
92	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	Cl. No. 4.4.2. & 5.4.2 of IS 15884: 2010	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
93	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	Cl. No. 12.7.2 of IS 13779 AMD. 1 TO 5: 1999	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
94	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	IEC 62053-21: 2003	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
95	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	Cl. No. 7.2.2 of IEC 62055-31: 2005	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
96	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	IEC 62053-23: 2003	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
97	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	Cl. No. 7.2.2 of IEC 62055-31: 2005	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
98	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI.No. 6.10.2 of IS 16444 (PART 2) : 2017	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
99	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	IEC 62053-22: 2003	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
100	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI. No. 5.4.2 of CBIP PUBLICATION NO.: 325 , JANUARY : 2015	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
101	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	A.2.14 of NMI M 6-1: JULY: 2012	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
102	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI. No. 6.4.5 of OIML R 46-1 & 2:12 AUGUST : 2011	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
103	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	IEC 62053-24: 2014	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
104	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI. No. 7.1.2 of IEC: 62052-11 : 2003	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
105	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI. No. 5.4.2 of CBIP PUBLICATION: 304: 2008	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
106	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI. No. 6.10.2 of IS 16444: 2015	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
107	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	IEC 62053-21: 2003	40V to 300V,45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
108	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI. No. 12.7.2 14697 AMD. 1 TO 4: 1999	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
109	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 3.3.5 of OIML R 46-1 AND 2:12 AUGUEST: 2011	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
110	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 12.11 of IS 13779 AMD. 1 TO 5: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
111	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 8.2 of IEC 62053-21: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
112	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 8 of IEC 62055-31: 2005	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
113	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 5 of NMI M 6-1:JULY: 2012	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
114	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 4.6.2 of IS 15884: 2010	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
115	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 8.2 of IEC 62053-22: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
116	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 8.2 of IEC 62053-21: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
117	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 6.12 of IS 16444: 2015	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
118	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	Cl. No. 8.2 of IEC 62053-22: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
119	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	Cl. No. 8.2 of IEC 62053-23: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
120	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 12.10 of IS 14697 AMD. 1 TO 4: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
121	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 5.6.2 of CBIP PUBLICATION: 304: 2008	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
122	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FREQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE, WAVE FORM	CI. No. 4.6.2 of IS 15884: 2010	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
123	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FREQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE, WAVE FORM	CI. No. 8.3 of IEC 62053-24: 2014	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
124	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 3.3.5 of OIML R 46-1 AND 2:12 AUGUST: 2011	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
125	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 6.12 of IS 16444(PART 2): 2017	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
126	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	IEC 62052-11: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
127	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 12.10 of IS 14697 AMD. 1 TO 4: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
128	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	IS 15707: 2006	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
129	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 12.11 of IS 13779 AMD. 1 TO 5: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
130	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FREQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE, WAVE FORM	CI. No. 8.3 of IEC 62053-24: 2014	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
131	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FREQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE, WAVE FORM	CI. No. 5.6.2 of CBIP PUBLICATION: 325 January: 2015	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
132	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FREQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE, WAVE FORM	CI. No. 6.12 of IS 16444(PART 2): 2017	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
133	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FREQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE, WAVE FORM	CI. No. 5.6.2 of CBIP PUBLICATION: 325 January: 2015	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
134	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 3.3.5 of OIML R 46-1 AND 2:12 AUGUST: 2011	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
135	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 5 of NMI M 6-1:JULY: 2012	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
136	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 5.6.2 of CBIP PUBLICATION: 304: 2008	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
137	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 8 of IEC 62055-31: 2005	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
138	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	Cl. No. 8 of IEC 62055-31: 2005	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
139	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	Cl. No. 8.2 of IEC 62053-23: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
140	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	IS 15707: 2006	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
141	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	Cl. No. 6.12 of IS 16444: 2015	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
142	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 8 of IEC 62055-31: 2005	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
143	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 5.6.2 of CBIP PUBLICATION: 325 January: 2015	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
144	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FREQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE, WAVE FORM	Cl. No. 8.2 of IEC 62053-22: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
145	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FREQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE, WAVE FORM	Cl. No. 8.2 of IEC 62053-23: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
146	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 12.10 of IS 14697 AMD. 1 TO 4: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
147	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 4.6.2 of IS 15884: 2010	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
148	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 5.6.2 of CBIP PUBLICATION: 304: 2008	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
149	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 3.3.5 of OIML R 46-1 AND 2:12 AUGUEST: 2011	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
150	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FREQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE, WAVE FORM	CI. No. 6.12 of IS 16444(PART 2): 2017	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
151	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FREQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE, WAVE FORM	IEC 62052-11: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
152	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 12.11 of IS 13779 AMD. 1 TO 5: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
153	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 8.2 of IEC 62053-21: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
154	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FREQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE, WAVE FORM	Cl. No. 6.12 of IS 16444: 2015	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
155	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FREQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE, WAVE FORM	Cl. No. 8.3 of IEC 62053-24: 2014	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
156	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	IEC 62052-11: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
157	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 12.11 of IS 13779 AMD. 1 TO 5: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
158	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FREQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE, WAVE FORM	IS 15707: 2008	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
159	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FREQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE, WAVE FORM	CI. No. 5 of NMI M 6-1:JULY: 2012	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
160	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FREQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE, WAVE FORM	IEC 62052-11: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
161	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FREQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE, WAVE FORM	CI. No. 5.6.2 of CBIP PUBLICATION: 304: 2008	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
162	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 12.10 of IS 14697 AMD. 1 TO 4: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
163	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 8.3 of IEC 62053-24: 2014	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
164	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION - FREQUENCY VARIATION - PHASE SEQUENCE - VOLTAGE UNBALANCE - WAVE FORM	CI. No. 8.2 of IEC 62053-22: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
165	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES- VOLTAGE VARIATION- FREQUENCY VARIATION- PHASE SEQUENCE- VOLTAGE UNBALANCE- WAVE FORM	CI. No. 8.2 of IEC 62053-23: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
166	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE QUANTITIES- VOLTAGE VARIATION- FREQUENCY VARIATION- PHASE SEQUENCE- VOLTAGE UNBALANCE- WAVE FORM	CI. No. 8.2 of IEC 62053-22: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
167	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE QUANTITIES- VOLTAGE VARIATION- FREQUENCY VARIATION- PHASE SEQUENCE- VOLTAGE UNBALANCE- WAVE FORM	CI. No. 4.6.2 of IS 15884: 2010	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
168	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE QUANTITIES- VOLTAGE VARIATION- FREQUENCY VARIATION- PHASE SEQUENCE- VOLTAGE UNBALANCE- WAVE FORM	CI. No. 6.12 of IS 16444: 2015	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
169	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE QUANTITIES- VOLTAGE VARIATION- FREQUENCY VARIATION- PHASE SEQUENCE- VOLTAGE UNBALANCE- WAVE FORM	IS 15707: 2006	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
170	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES- VOLTAGE VARIATION- FREQUENCY VARIATION- PHASE SEQUENCE- VOLTAGE UNBALANCE- WAVE FORM	CI. No. 5 of NMI M 6-1:JULY: 2012	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
171	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INSULATION RESISTANCE	CI. No. 5.4.6.4 of CBIP PUBLICATION : 325 JANUARY : 2015	5 MOhm TO 50 GOhm500V DC



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
172	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INSULATION RESISTANCE	IS 15707: 2006	5 MOhm TO 50 GOhm500V DC
173	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INSULATION RESISTANCE	CL. No. 6.10.6 of IS 16444(PART 2): 2017	5 MOhm TO 50 GOhm500V DC



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
174	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INSULATION RESISTANCE	Cl. No. 6.10.6 of IS 16444: 2015	5 MOhm TO 50 GOhm500V DC
175	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INSULATION RESISTANCE	Cl. No. 5.4.6.4 of CBIP Publication No. :304: 2008	5 MOhm TO 50 GOhm500V DC



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
176	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INSULATION RESISTANCE	Cl. No. 12.7.6.4 of IS 14697 AMD 1 TO 4: 1999	5 MOhm TO 50 GOhm500V DC
177	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INSULATION RESISTANCE	Cl. No. 5.4.6.4 of IS 15884: 2010	5 MOhm TO 50 GOhm500V DC



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
178	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	Cl. No. 8.6 of IEC 62053-23 : 2003	Qualitative
179	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	Cl. No. 8.6 of IEC 62053-22: 2003	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
180	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	CI. No. 8.7 of IEC 62053-24: 2014	Qualitative
181	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	CI. No. 5.6.6 of IS 15884 : 2010	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
182	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	CI. No. 12.16 of IS 13779 AMD. 1 TO 5: 1999	Qualitative
183	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	CI. No. 5.6.7 of CBIP PUBLICATION: 304: 2008	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
184	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	CI. No. 6.12 of IS 16444: 2015	Qualitative
185	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	CI. No. 12.15 of IS 14697 AMD. 1 TO 4: 1999	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
186	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	CI. No. 5.6.7 of CBIP PUBLICATION NO.: 325 JANUARY : 2015	Qualitative
187	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	IS 15707: 2006	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
188	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	CI. No. 8.6 of IEC 62053-21: 2003	Qualitative
189	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	IEC: 62052-11: 2003	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
190	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	Cl. No. 8 of IEC 62055- 31: 2005	Qualitative
191	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	Cl. No. 6.12 of IS 16444(PART 2) : 2017	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
192	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	CI. No. 3.3 of OIML R 46-1 AND 2:12 AUGUST: 2011	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
193	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	CI. No. 8 of IEC 62055- 31: 2005	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
194	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	IS 15707: 2006	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
195	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	Cl. No. 6.12 of IS 16444(PART 2) : 2017	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
196	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	Cl. 4.6.1 of IS 15884: 2010	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
197	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	Cl. 6.12 of IS 16444: 2015	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
198	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	CI. NO. 8.1 of IEC 62053-23: 2003	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
199	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	CI. 8.1 of IEC 62053- 21: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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200	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	CI. 4.6.3 of CBIP PUBLICATION: 304: 2008	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
201	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	CI. No. 8.2 of IEC 62053-24 : 2014	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
202	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	CI. No. 4.8 of NMI M 6- 1:JULY : 2012	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
203	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	CI. 11.1 OF IS 13779 AMD: 1 TO 5: 1999	40V to 300V (P-N),5mA to 120A,45 Hz to 65 Hz0.25 lag to 1 & 1 to0.25 Lead,(Active & Reactive)1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
204	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	CI. No. 8.1 of IEC 62053-22: 2003	40V to 300V (P-N), 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
205	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	CI. 11.1 OF IS 14697 AMD: 1 TO 4: 1999	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
206	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	IEC 62052-11 : 2003	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
207	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	CI. 4.6.2 of CBIP PUBLICATION NO.: 325 JANUARY : 2015	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
208	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	Cl. No. 8.5 of IEC 62053-24: 2014	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
209	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	Cl. No. 5.6.5 of IS 15884: 2010	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
210	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	IS 15707: 2006	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
211	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	CI. No. 4.6 of NMI M 6- 1:JULY: 2012	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
212	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	CI. No. 6.12 of IS 16444: 2015	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
213	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	CI. No. 6.2.5 of OIML R 46-1 AND 2: 12 AUGUST: 2011	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
214	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	Cl. No. 8 of IEC 62055- 31 : 2005	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
215	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	Cl. 8.4 of IEC 62053- 23: 2003	40V to 300V(P-N), 5mA to 120A, 45Hz to 65Hz, POWER FACTOR: 0.25 LAG to 1 & 1 to 0.25 LEAD, (ACTIVE & REACTIVE) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
216	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	CI. No. 8.4 of IEC 62053-22: 2003	40V to 300V (P-N), 5mA to 120A, 45Hz to 65Hz , POWER FACTOR: 0.25 LAG. to 1 & 1 to 0.25 LEAD. (ACTIVE & REACTIVE) 1PH 2W, 3PH 3W, 3PH 4W
217	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	CI. No. 6.12 of IS 16444(PART 2) : 2017	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
218	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	IEC: 62052-11 : 2003	RANGE: 40V to 300V (P-N), 5mA to 120A, 45Hz to 65Hz , POWER FACTOR: 0.25LAG. to 1 & 1 to 0.25LEAD. (ACTIVE & REACTIVE) 1PH 2W, 3PH 3W, 3PH 4W
219	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	CI. No. 8.4 of IEC 62053-21: 2003	RANGE: 40V to 300V (P-N), 5mA to 120A, 45Hz to 65Hz , POWER FACTOR: 0.25 LAG. to 1 & 1 to 0.25 LEAD. (ACTIVE & REACTIVE) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
220	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	CI. No. 12.15 of IS 13779 AMD.1 TO 5: 1999	40V to 300V (P-N), 5mA to 120A, 45Hz to 65Hz , POWER FACTOR: 0.25LAG. to 1 & 1 to 0.25LEAD. (ACTIVE & REACTIVE) 1PH 2W, 3PH 3W, 3PH 4W
221	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	CI. No. 12.14 of IS 14697 AMD 1 TO 4: 1999	RANGE: 40V to 300V (P-N), 5mA to 120A, 45Hz to 65Hz , POWER FACTOR: 0.25LAG. to 1 & 1 to 0.25LEAD. (ACTIVE & REACTIVE) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
222	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	CI. No. 5.6.6 of CBIP PUBLICATION NO.: 325 , JANUARY: 2015	RANGE: 40V to 300V (P-N), 5mA to 120A, 45Hz to 65Hz , POWER FACTOR: 0.25LAG. to 1 & 1 to 0.25LEAD. (ACTIVE & REACTIVE) 1PH 2W, 3PH 3W, 3PH 4W
223	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	CI. No. 5.6.6 of CBIP PUBLICATION: 304: 2008	RANGE: 40V to 300V (P-N), 5mA to 120A, 45Hz to 65Hz , POWER FACTOR: 0.25LAG. to 1 & 1 to 0.25LEAD. (ACTIVE & REACTIVE) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
224	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	REPEATABILITY OF ERRORS TEST	IS 15707: 2006	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
225	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	REPEATABILITY OF ERRORS TEST	Cl. No. 6.12 of IS 16444: 2015	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
226	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	REPEATABILITY OF ERRORS TEST	CI. No. 6.12 of IS 16444(PART 2): 2017	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
227	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	REPEATABILITY OF ERRORS TEST	CI. No. 5.6.7 of IS 15884: 2010	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
228	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	REPEATABILITY OF ERRORS TEST	CI. No. 5.6.9 of CBIP PUBLICATION NO.: 325 , JANUARY : 2015	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
229	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	REPEATABILITY OF ERRORS TEST	CI. No. 5.6.9 of CBIP PUBLICATION: 304 : 2008	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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230	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 8.3 of IEC 62053-22: 2003	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
231	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 8.3 of IEC 62053-21: 2003	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
232	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	IEC: 62052-11: 2003	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
233	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 5.6.4 of CBIP PUBLICATION: 304 : 2008	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
234	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 6.2.4 of OIML R 46-1 AND 2:12 AUGUST: 2011	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
235	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	IS 15707: 2006	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
236	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 5.6.4 of CBIP PUBLICATION NO.: 325 , JANUARY : 2015	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
237	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 6.12 of IS 16444: 2015	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
238	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 8.3 of IEC 62053-23: 2003	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
239	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 12.13 of IS 13779 AMD. 1 TO 5: 1999	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
240	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 8 of IEC 62055- 31: 2005	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
241	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 5.7 of NMI M 6- 1:JULY: 2012	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
242	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 5.6.3 of IS 15884 : 2010	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
243	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 12.12 of IS 14697 AMD. 1 TO 4: 1999	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
244	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 8.4 of IEC 62053-24: 2014	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
245	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 6.12 of IS 16444(PART 2): 2017	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
246	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	IEC: 62052-11 : 2003	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
247	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	CI. No. 5.6.5 of CBIP PUBLICATION: 304: 2008	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
248	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	CI. No. 8.3 of IEC 62053-23: 2003	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
249	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	CI. No. 5.7 of NMI M 6- 1:JULY: 2012	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
250	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	CI. No. 12.13 of IS 14697 AMD. 1 TO 4: 1999	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
251	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	CI. No. 8 of IEC 62055- 31: 2005	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
252	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	CI. No. 8.3 of IEC 62053-21: 2003	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
253	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	CI. No. 6.2.3 of OIML R 46-1 AND 2:12 AUGUST : 2011	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
254	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	IS 15707: 2006	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
255	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	CI. No. 5.6.5 of CBIP PUBLICATION NO.: 325 , JANUARY : 2015	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
256	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	CI. No. 8.3 of IEC 62053-22: 2003	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
257	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	CI. No. 8.4 of IEC 62053-24: 2014	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
258	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	Cl. No. 6.12 of IS 16444(PART 2) : 2017	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
259	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	Cl. No. 6.12 of IS 16444: 2015	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
260	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	CI. No. 5.6.4 of IS 15884 : 2010	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
261	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	CI. No. 12.14 of IS 13779 AMD. 1 TO 5: 1999	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
262	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	IEC 62052-11: 2003	0.5W to 100W, 0.5VA to 100VA
263	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	Cl. No. 7.2 of IEC 62053-24: 2014	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
264	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 7.3 of 62055-31: 2005	0.5W to 100W, 0.5VA to 100VA
265	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 7.2 of IEC 62053-24: 2014	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
266	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 5.4.1 of IS 15884: 2010	0.5W to 100W, 0.5VA to 100VA
267	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	IEC 62052-11: 2003	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
268	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 5.4.1 of CBIP Publication No. : 325 January: 2015	0.5W to 100W, 0.5VA to 100VA
269	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 12.7.1 of IS 14697 AMD. 1 TO 4: 1999	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
270	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 5.4.1 of CBIP Publication No. : 325 January: 2015	0.5W to 100W, 0.5VA to 100VA
271	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 6.10.1 of IS 16444: 2015	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
272	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	Cl. No. 6.10.1 of IS 16444(Part 2): 2017	0.5W to 100W, 0.5VA to 100VA
273	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	Cl. No. 7.1 of IEC 62053-22: 2003	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
274	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 7.1 of IEC 62053-21: 2003	0.5W to 100W, 0.5VA to 100VA
275	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	IS 15707: 2006	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
276	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 7.1 of IEC 62053-23: 2003	0.5W to 100W, 0.5VA to 100VA
277	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 7.3 of IEC 62055-31: 2005	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
278	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 7.1 of IEC 62053-23: 2003	0.5W to 100W, 0.5VA to 100VA.
279	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 12.7.1 of IS 14697 AMD. 1 TO 4: 1999	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
280	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 12.7.1 of IS 13779 AMD. 1 TO 5: 1999	0.5W to 100W, 0.5VA to 100VA
281	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 7.1 of IEC: 62053-22: 2003	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
282	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 12.7.1 of IS 13779 AMD. 1 TO 5: 1999	0.5W to 100W, 0.5VA to 100VA.
283	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 7.1 of IEC: 62053-21: 2003	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
284	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	IS 15707: 2006	0.5W to 100W, 0.5VA to 100VA
285	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	Cl. No. 5.4.1 of IS 15884: 2010	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
286	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 5.4.1 of CBIP Publication No. 304: 2008	0.5W to 100W, 0.5VA to 100VA
287	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 5.4.1 of CBIP Publication No. : 304: 2008	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
288	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	Cl. No. 6.10.1 of IS 16444 (Part 2): 2017	0.5W to 100W, 0.5VA to 100VA
289	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	Cl. No. 6.10.1 of IS 16444: 2017	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
290	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	CI. No. 5.12 of IEC: 62052-11 : 2003	Qualitative
291	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	CI. No. 5.13 of IEC 62055-31: 2005	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
292	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	IS 15707: 2006	Qualitative
293	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	CI. No. 3.5 of OIML R 46-1 AND 2:12 AUGUST : 2011	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
294	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	IEC 62053-21: 2003	Qualitative
295	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	CI. No. 8 of NMI M 6-1: JULY: 2012	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
296	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	CI. No. 4.2.2.11 of CBIP PUBLICATION NO.: 325 , JANUARY : 2015	Qualitative
297	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	CI. No. 6.8 of IS 16444 (PART 2) : 2017	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
298	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	IEC 62053-22: 2003	Qualitative
299	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	IEC 62053-23: 2003	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
300	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	CI. No. 4.2.2.11 of CBIP PUBLICATION: 304: 2008	Qualitative
301	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	CI. No. 6.8 of IS 16444 : 2015	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
302	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	CI. No. 7 of IS 13779 AMD. 1 OT 5: 1999	Qualitative
303	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	CI. No. 4.2.11 of IS 15884: 2010	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
304	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	CI. No. 7 of IS 14697 AMD. 1 TO 4: 1999	Qualitative
305	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	IEC 62053-24: 2014	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
306	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments with its CT PT Unit	Tamper Testing	DERC Supply Codes and Performance Standards Regulations, 2017; PROC T-34:2018; Cl. No. 6.2, 6.3, 6.4 & 6.5 & Cl. 11.1 IS 13779:1999 Amd. 1 to 5; Cl. No. 6.2, 6.3, 6.4 & 6.5, Cl. 11.1, Annexure G, G-10 of IS 14697:1999 Amd. 1 to 4; IS 15707:2006; NMI M 6-1:July 2012; Cl. No. 4.2.2, 4.2.3, 4.2.4 & 4.2.5 of IS 15884:2010; Cl. No. 6.2, 6.12 of IS 16444:2015; Cl. No. 6.2, 6.12 of IS 16444 (Part 2): 2017: 2017	40V to 300V (P-N), 10mA to 120A, 45 Hz to 55 Hz 0.5 lag to 1 & 1 to 0.8 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
307	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff and load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	DIELECTRIC STRENGTH OR AC HIGH VOLTAGE	Cl. 12.7.6.3 of IS 13779 AMD. 1 TO 5: 1999	1 kV to 5 kV



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
308	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff and load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INSULATION RESISTANCE(500V DC)	Cl. No. 12.7.6.4 of IS 13779 AMD 1 TO 5: 1999	5 MOhm TO 50 GOhm500V DC
309	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ELECTRICAL AND ELECTRONIC (STATIC) ENERGY METERSElectrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE QUNTITIES- VOLTAGE VARIATION- FREQUENCY VARIATION- PHASE SEQUENCE- VOLTAGE UNBALANCE- WAVE FORM	Cl. No. 8.2 of IEC 62053-21: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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310	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Metering Equipment, Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments, Static Energy Meter for Reactive Energy	Influence of Heating	IEC 62053-24: 2014	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
311	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Metering Equipment, Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments, Static Energy Meter for Reactive Energy	Influence Quantities - Voltage Variation, Frequency Variation, Phase Sequence, Voltage Unbalance, Wave Form / Harmonics Components	CI. No. 5.6.2 of CBIP PUBLICATION: 325 January: 2015	40V to 300V, 5mA to 120A, 45Hz to 65Hz, Power Factor: 0.25 Lag to 1 & 1 to 0.25 Lead (Active & Reactive) 1PH. 2W, 3PH 3W, 3PH, 4W
312	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Metering Equipment, Tariff & load control equipment, Static Energy Meter for Reactive Energy	Dielectric Strength or Ac High Voltage	CI. No. 7.4 of IEC 62053-22: 2003	1 kV to 5 kV
313	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Metering Equipment, Tariff & load control equipment, Static Energy Meter for Reactive Energy	Dielectric Strength or Ac High Voltage	IS 15707: 2006	1 kV to 5 kV



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314	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Metering Equipment, Tariff & load control equipment, Static Energy Meter for Reactive Energy	Dielectric Strength or Ac High Voltage	Cl. No. 5.4.6.3 of IS 15884: 2010	1 kV to 5 kV
315	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Metering Equipment, Tariff & load control equipment, Static Energy Meter for Reactive Energy	Dielectric Strength OR AC High Voltage	Cl. No. 7.5 of IEC 62053-24: 2014	1 kV to 5 kV
316	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Metering Equipment, Tariff & load control equipment, Static Energy Meter for Reactive Energy	Dielectric Strength or Ac High Voltage	Cl. No. 7.4 of IEC 62053 - 21: 2003	1 kV to 5 kV
317	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Metering Equipment, Tariff & load control equipment, Static Energy Meter for Reactive Energy	Dielectric Strength or Ac High Voltage	Cl. No. 7.7 of IEC 62055-31: 2005	1 kV to 5 kV
318	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Metering Equipment, Tariff & load control equipment, Static Energy Meter for Reactive Energy	Dielectric Strength or Ac High Voltage	Cl.No. 7.3.3 of IEC: 62052 - 11: 2003	1 kV to 5 kV
319	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Metering Equipment, Tariff & load control equipment, Static Energy Meter for Reactive Energy	Dielectric Strength or Ac High Voltage	Cl. No. 7.4 of IEC 62053-23: 2003	1 kV to 5 kV



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
320	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Metering Equipment, Tariff & load control equipment, Static Energy Meter for Reactive Energy	Dielectric Strength or Ac High Voltage	Cl. No. 6.10.6 of IS 16444: 2015	1 kV to 5 kV
321	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Metering Equipment, Tariff & load control equipment, Static Energy Meter for Reactive Energy	Effect of Self Heating	Cl. No. 7.4 of IEC 62053-24: 2014	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
322	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Metering Equipment, Tariff & load control equipment, Static Energy Meter for Reactive Energy	Effect of Self Heating	Cl. No. 7.3 of IEC 62053-22 : 2003	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
323	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Meters	Effect of Self Heating	IS 15707: 2006	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
324	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST ON SECONDARY TERMINALS	CL. NO. 7.3.4 OF IS 16227 (PART 1): 2016	1kV TO 5 kV AC
325	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	RATED KNEE POINT E.M.F. AND MAXIMUM EXCITING CURRENT	CL. NO. 7.3.203 OF IEC 61869 – 2: 2012	1 V to 6.6 kV ; 1 mA to 10 A



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326	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	TEST FOR ACCURACY	CL. NO. 7.3.5 OF IEC 61869 – 4: 2013	1A to 600A/5A & 1A; 220 V to 33 kV/110V & 220V/ v3 / 110V/v3 to 33kV/v3 /110V/v3
327	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	TEST FOR ACCURACY	CL. NO. 7.3.5 OF IEC 61869 – 4: 2013	1A to 600A/5A & 1A; 220 V to 33 kV/110V & 220V/ v3 / 110V/v3 to 33kV/v3 /110V/v3
328	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	TEST FOR ACCURACY	CL. NO. 7.3.5 OF IS 16227 (PART 4): 2015	1A to 600A/5A & 1A; 220 V to 33 kV/110V & 220V/ v3 / 110V/v3 to 33kV/v3 /110V/v3
329	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	TEST FOR ACCURACY	CL. NO. 7.3.5 OF IEC 61869 – 4: 2013	1A to 600A/5A & 1A; 220 V to 33 kV/110V & 220V/ v3 / 110V/v3 to 33kV/v3 /110V/v3
330	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	TEST FOR ACCURACY	CL. NO. 7.3.5 OF IS 16227 (PART 4): 2015	1A to 600A/5A & 1A; 220 V to 33 kV/110V & 220V/ v3 / 110V/v3 to 33kV/v3 /110V/v3
331	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	DETERMINATION OF INSTRUMENT SECURITY FACTOR	CL. NO. 7.2.6.202 OF IEC 61869 – 2: 2012	1 V to 750 V ; 1 mA to 10 A
332	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	DETERMINATION OF INSTRUMENT SECURITY FACTOR	CL. NO. 7.2.6.202 OF IS 16227 (PART 2): 2016	1 V to 750 V ; 1 mA to 10 A



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
333	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	DETERMINATION OF SECONDARY WINDING RESISTANCE	CL. NO. 7.3.201 OF IS 16227 (PART 2): 2016	0.1 mOHM TO 50 OHM
334	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	DETERMINATION OF SECONDARY WINDING RESISTANCE	CL. NO. 7.3.201 OF IEC 61869 – 2: 2012	0.1 mOHM TO 50 OHM
335	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	INTER -TURN OVERVOLTAGE TEST	CL. NO. 7.3.204 OF IEC 61869 – 2: 2012	1 A to 10 A ; 1 V to 6.6 kV
336	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	INTER -TURN OVERVOLTAGE TEST	CL. NO. 7.3.204 OF IS 16227 (PART 2): 2016	1 A to 10 A ; 1 V to 6.6 kV
337	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	INTER -TURN OVERVOLTAGE TEST	CL. NO. 7.3.204 OF IEC 61869 – 2: 2012	1 A to 10 A ; 1 V to 6.6 kV
338	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	INTER -TURN OVERVOLTAGE TEST	CL. NO. 7.3.204 OF IS 16227 (PART 2): 2016	1 A to 10 A ; 1 V to 6.6 kV
339	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	PARTIAL DISCHARGE MEASUREMENT	CL. NO. 7.3.2 OF IEC 61869 – 3: 2011	1 kV to 150 kV AC ; 2 pC to 100 pC



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
340	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	PARTIAL DISCHARGE MEASUREMENT	CL. NO. 7.3.2 OF IS 16227 (PART 1): 2016	1 kV to 150 kV AC ; 2 pC to 100 pC
341	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	PARTIAL DISCHARGE MEASUREMENT	CL. NO. 7.3.2 OF IS 16227 (PART 3): 2015	1 kV to 150 kV AC ; 2 pC to 100 pC
342	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	PARTIAL DISCHARGE MEASUREMENT	CL. NO. 7.3.2 OF IEC 61869 – 1: 2007	1 kV to 150 kV AC ; 2 pC to 100 pC
343	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST BETWEEN SECTIONS	CL. NO. 7.3.3 OF IS 16227 (PART 1): 2016	1kV TO 5 kV AC
344	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST BETWEEN SECTIONS	CL. NO. 7.3.3 OF IEC 61869 – 1: 2007	1kV TO 5 kV AC
345	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST ON PRIMARY TERMINALS	CL. NO. 7.3.1 OF IEC 61869 – 4 : 2013	1 kV to 150 kV AC
346	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST ON PRIMARY TERMINALS	CL. NO. 7.3.1 OF IS 16227 (PART 4): 2015	1 kV to 150 kV AC



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347	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST ON SECONDARY TERMINALS	CL. NO. 7.3.4 OF IEC 61869 – 1 : 2007	1kV TO 5 kV AC
348	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	RATED KNEE POINT E.M.F. AND MAXIMUM EXCITING CURRENT	CL. NO. 7.3.203 OF IS 16227 (PART 2): 2016	1 V to 6.6 kV ; 1 mA to 10 A
349	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	TEST FOR ACCURACY	CL. NO. 7.3.5 OF IEC 61869 – 4: 2013	1A to 600A/5A & 1A; 220 V to 33 kV/110V & 220V/ v3 / 110V/v3 to 33kV/v3 /110V/v3
350	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	TEST FOR ACCURACY	CL. NO. 7.3.5 OF IS 16227 (PART 4): 2015	1A to 600A/5A & 1A; 220 V to 33 kV/110V & 220V/ v3 / 110V/v3 to 33kV/v3 /110V/v3
351	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	TEST FOR ACCURACY	CL. NO. 7.3.5 OF IS 16227 (PART 4): 2015	1A to 600A/5A & 1A; 220 V to 33 kV/110V & 220V/ v3 / 110V/v3 to 33kV/v3 /110V/v3
352	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	VERIFICATION OF MARKINGS	CL. NO. 7.3.6 OF IEC 61869 – 1 : 2007	Qualitative
353	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	VERIFICATION OF MARKINGS	CL. NO. 7.3.6 OF IS 16227 (PART 1): 2016	Qualitative



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354	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	RATED KNEE POINT E.M.F. AND MAXIMUM EXCITING CURRENT	CL. NO. 7.3.203 OF IEC 61869 – 2: 2012	1 V to 6.6 kV ; 1 mA to 10 A
355	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	RATED KNEE POINT E.M.F. AND MAXIMUM EXCITING CURRENT	CL. NO. 7.3.203 OF IS 16227 (PART 2): 2016	1 V to 6.6 kV ; 1 mA to 10 A
356	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMER	DETERMINATION OF ERROR ACCORDING TO REQUIREMENTS OF APPROPRIATE ACCURACY CLASS	IS 2705 (Part 2&3) , Cl. No. 7.1.1 & 7.2.1: 1992	0.005 Min to 199 Min. (P.A.E.)
357	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMER	DETERMINATION OF ERROR ACCORDING TO REQUIREMENTS OF APPROPRIATE ACCURACY CLASS	IS 2705 (Part 2&3) , Cl. No. 7.1.1 & 7.2.1: 1992	0.005 % to 10 % (R.E.)
358	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMER	DETERMINATION OF ERROR ACCORDING TO REQUIREMENTS OF APPROPRIATE ACCURACY CLASS	IS 2705 (Part 2&3) , Cl. No. 7.1.1 & 7.2.1: 1992	0.005 Min. to 199 Min.
359	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMER	COMPOSITE ERROR MEASUREMENT	IS 2705 (Part 3) , Cl.No.7.1.2 & 7.2.2: 1992	0.1 % to 10 %
360	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMER	DETERMINATION OF ERROR ACCORDING TO REQUIREMENTS OF APPROPRIATE ACCURACY CLASS	IS 2705 (Part 2&3) , Cl. No. 7.1.1 & 7.2.1: 1992	0.005 % to 10 % (R.E.)



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361	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMER	HIGH VOLTAGE POWER FREQUENCY TEST (ON PRIMARY WINDING)	IS 2705 (Part1), Cl. No.9.3 : 1992	1 kV AC to 150 kV AC
362	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMER	HIGH VOLTAGE POWER FREQUENCY TEST (ON SECONDARY WINDING)	IS 2705 (Part1), Cl. No. 9.4: 1992	1 kV AC to 5 kV AC
363	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMER	INSTRUMENT SECURITY FACTOR	IS 2705(Part 2), Cl. No 7.1.2: 1992	1 to 15
364	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMER	MEASUREMENT OF KNEE POINT VOLTAGE AND EXCITING CURRENT	IS 2705 (Part 4), Cl. NO.6.1: 1992	5 mA to 15 A
365	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMER	MEASUREMENT OF KNEE POINT VOLTAGE AND EXCITING CURRENT	IS 2705 (Part 4), Cl. NO.6.1: 1992	1 V to 6.6 kV
366	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMER	MEASUREMENT OF WINDING RESISTANCE	IS: 2705 (PART 4) :Cl. No. 6.2: 1992	0.1 mOHM to 50 OHM
367	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMER	OVER VOLTAGE INTER TURN TEST	IS 2705(Part 1) , Cl. No.9.5: 1992	1 A to 15 A



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368	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMER	OVER VOLTAGE INTERN TURN TEST	IS 2705(Part 1) , Cl. No.9.5: 1992	1 V to 6.6 kV
369	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMER	PARTIAL DISCHARGE MEASUREMENT	IS 11322 : 1985	2 pC to 1000 pC
370	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMER	PARTIAL DISCHARGE MEASUREMENT	IS 2705 (Part I) CL. 9.1.2(e): 1992	2 pC to 1000 pC
371	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMER	TURNS RATIO TEST	IS 2705 (Part 4),Cl.No.6.3: 1992	0.1 % to 10 %
372	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMER	VERIFICATION OF TERMINAL MARKING & POLARITY	IS 2705, PART-I, CL. NO. 9.2: 1992	Qualitative
373	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	DETERMINATION OF THE SECONDARY WINDING RESISTANCE	CL. NO. 7.3.201 OF IS 16227 (PART 2): 2016	0.1 mOHM TO 50OHM
374	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	DETERMINATION OF THE SECONDARY WINDING RESISTANCE	CL. NO. 7.3.201 OF IEC 61869 – 2: 2012	0.1 mOHM TO 50 OHM



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375	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	INTER-TURN OVER VOLTAGE TEST	CL. NO. 7.3.204 OF IS 16227 (PART 2): 2016	1 A to 10 A ; 1 V to 6.6 kV
376	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	INTER-TURN OVER VOLTAGE TEST	CL. NO. 7.3.204 OF IS 16227 (PART 2): 2016	1 A to 10 A ; 1 V to 6.6 kV
377	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	INTER-TURN OVER VOLTAGE TEST	CL. NO. 7.3.204 OF IEC 61869 – 2: 2012	1 A to 10 A ; 1 V to 6.6 kV
378	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	INTER-TURN OVER VOLTAGE TEST	CL. NO. 7.3.204 OF IEC 61869 – 2: 2012	1 A to 10 A ; 1 V to 6.6 kV
379	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	PARTIAL DISCHARGE MEASUREMENT	CL. NO. 7.3.2 OF IS 16227 (PART 1): 2016	1 kV to 150 kV AC ; 2 pC to 100 pC
380	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	PARTIAL DISCHARGE MEASUREMENT	CL. NO. 7.3.2 OF IEC 61869 – 1: 2007	1 kV to 150 kV AC ; 2 pC to 100 pC
381	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST BETWEEN SECTIONS	CL. NO. 7.3.3 OF IS 16227 (PART 1): 2016	1kV TO 5kV AC



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382	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST BETWEEN SECTIONS	CL. NO. 7.3.3 OF IEC 61869 – 1: 2007	1kV TO 5kV AC
383	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST ON PRIMARY TERMINALS	CL. NO. 7.3.1 OF IS 16227(PART 2): 2016	1 kV to 150 kV AC
384	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST ON PRIMARY TERMINALS	CL. NO. 7.3.1 OF IEC 61869 - 2: 2012	1 kV to 150 kV AC
385	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST ON SECONDARY TERMINALS	CL. NO. 7.3.4 OF IEC 61869 – 1: 2007	1 kV TO 5 kV AC
386	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST ON SECONDARY TERMINALS	CL. NO. 7.3.4 OF IS 16227 (PART 1): 2016	1 kV TO 5 kV AC
387	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	TEST FOR RATED KNEE POINT E.M.F. AND EXCITING CURRENT AT RATED KNEE POINT E.M.F.	CL. NO. 7.3.203 OF IEC 61869 – 2: 2012	1V TO 6.6kV,1mA TO 10A



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388	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	TEST FOR RATED KNEE POINT E.M.F. AND EXCITING CURRENT AT RATED KNEE POINT E.M.F.	CL. NO. 7.3.203 OF IS 16227 (PART 2): 2016	1V TO 6.6kV,1mA TO 10A
389	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	TEST FOR RATED KNEE POINT E.M.F. AND EXCITING CURRENT AT RATED KNEE POINT E.M.F.	CL. NO. 7.3.203 OF IS 16227 (PART 2): 2016	1V TO 6.6kV,1mA TO 10A
390	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	TEST FOR RATED KNEE POINT E.M.F. AND EXCITING CURRENT AT RATED KNEE POINT E.M.F.	CL. NO. 7.3.203 OF IEC 61869 – 2: 2012	1V TO 6.6kV,1mA TO 10A
391	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	VERIFICATION OF MARKINGS	CL. NO. 7.3.6 OF IEC 61869-1: 2007	Qualitative
392	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	DETERMINATION OF INSTRUMENT SECURITY FACTOR	CL. NO. 7.2.6.202 OF IS 16227 (PART 2): 2016	1 V to 750 V ; 1 mA to 10 A
393	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	DETERMINATION OF INSTRUMENT SECURITY FACTOR	CL. NO. 7.2.6.202 OF IEC 61869 - 2: 2012	1 V to 750 V ; 1 mA to 10 A
394	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	TEST FOR ACCURACY (TEST FOR COMPOSITE ERROR)	CL. NO. 7.3.5.203 OF IS 16227 (PART 2): 2016	0.1% TO 10%



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395	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	TEST FOR ACCURACY (TEST FOR COMPOSITE ERROR)	CL. NO. 7.3.5.203 OF IEC 61869 – 2: 2012	0.1% TO 10%
396	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	TEST FOR ACCURACY (TEST FOR RATIO ERROR & PHASE DISPLACEMENT)	CL. NO. 7.3.5.201, 7.3.5.202, 7.3.5.204 OF IS 16227 (PART 2): 2016	1A TO 3200A / 5A & 1A
397	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	TEST FOR ACCURACY (TEST FOR RATIO ERROR & PHASE DISPLACEMENT)	CL. NO. 7.3.5.201, 7.3.5.202, 7.3.5.204 OF IEC 61869 - 2: 2012	1A TO 3200A / 5A & 1A
398	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	TEST FOR ACCURACY (TEST FOR RATIO ERROR & PHASE DISPLACEMENT)	CL. NO. 7.3.5.201, 7.3.5.202, 7.3.5.204 OF IEC 61869 - 2: 2012	1A TO 3200A / 5A & 1A
399	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	TEST FOR ACCURACY (TEST FOR RATIO ERROR & PHASE DISPLACEMENT)	CL. NO. 7.3.5.201, 7.3.5.202, 7.3.5.204 OF IS 16227 (PART 2): 2016	1A TO 3200A / 5A & 1A
400	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	TEST FOR ACCURACY (TEST FOR TURNS RATIO ERROR)	CL. NO. 7.3.5.206 OF IEC 61869 – 2: 2012	1A TO 3200A
401	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	TEST FOR ACCURACY (TEST FOR TURNS RATIO ERROR)	CL. NO. 7.3.5.206 OF IS 16227 (PART 2): 2016	1 A TO 3200A



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
402	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	VERIFICATION OF MARKINGS	CL. NO. 7.3.6 OF IS 16227 (PART 1): 2016	Qualitative
403	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	TEST FOR ACCURACY	CL. NO. 7.3.5 OF IEC 61869 – 3: 2011	220V TO 33kV/110V & 220V/v3 // 110V/v3 TO 66kV/v3 // 110V/v3
404	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	PARTIAL DISCHARGE MEASUREMENT	CL. NO. 7.3.2 OF IEC 61869 – 3: 2011	1 kV to 150 kV AC ; 2 pC to 100 pC
405	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	PARTIAL DISCHARGE MEASUREMENT	CL. NO. 7.3.2 OF IS 16227 (PART 3): 2015	1 kV to 150 kV AC ; 2 pC to 100 pC
406	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST BETWEEN SECTIONS	CL. NO. 7.3.3 OF IS 16227 (PART 1): 2016	1kV TO 5kV AC
407	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST BETWEEN SECTIONS	CL. NO. 7.3.3 OF IEC 61869 – 1: 2007	1kV TO 5 kV AC



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408	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST ON PRIMARY TERMINALS [COMMON MODE - (SEPARATE SOURCE) POWER FREQUENCY WITHSTAND TEST ON PRIMARY TERMINALS	CL. NO. 7.3.1.302 OF IEC 61869 – 3: 2011	1 kV to 5 kV AC ; 1 kV to 150 kV AC
409	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST ON PRIMARY TERMINALS [COMMON MODE - (SEPARATE SOURCE) POWER FREQUENCY WITHSTAND TEST ON PRIMARY TERMINALS	CL. NO. 7.3.1.302 OF IS 16227 (PART 3): 2015	1 kV to 5 kV AC ; 1 kV to 150 kV AC
410	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST ON PRIMARY TERMINALS [DIFFERENTIAL MODE (INDUCED) AC VOLTAGE TEST ON PRIMARY TERMINALS]	CL. NO. 7.3.1.303 OF IS 16227 (PART 3): 2015	1V to 400 V AC ; 1 kV to 150 kV AC



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
411	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST ON PRIMARY TERMINALS [DIFFERENTIAL MODE (INDUCED) AC VOLTAGE TEST ON PRIMARY TERMINALS]	CL. NO. 7.3.1.303 OF IEC 61869 – 3: 2011	1 V to 400 V AC ; 1 kV to 150 kV AC
412	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST ON PRIMARY TERMINALS [DIFFERENTIAL MODE (INDUCED) AC VOLTAGE TEST ON PRIMARY TERMINALS]	CL. NO. 7.3.1.303 OF IS 16227 (PART 3): 2015	1V to 400 V AC ; 1 kV to 150 kV AC
413	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST ON PRIMARY TERMINALS [DIFFERENTIAL MODE (INDUCED) AC VOLTAGE TEST ON PRIMARY TERMINALS]	CL. NO. 7.3.1.303 OF IEC 61869 – 3: 2011	1V to 400 V AC ; 1 kV to 150 kV AC



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414	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST ON SECONDARY TERMINALS	CL. NO. 7.3.4 OF IEC 61869 – 1: 2007	1kV TO 5 kV AC
415	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST ON SECONDARY TERMINALS	CL. NO. 7.3.4 OF IS 16227 (PART 1): 2016	1kV TO 5 kV AC
416	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	TEST FOR ACCURACY	CL. NO. 7.3.5 OF IS 16227 (PART 3): 2015	220V TO 33kV / 110V & 220V/v3 // 110V/v3 TO 66kV/v3 //110V/v3
417	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	TEST FOR ACCURACY	CL. NO. 7.3.5 OF IEC 61869 – 3: 2011	220V TO 33kV/110V & 220V/v3 // 110V/v3 TO 66kV/v3 // 110V/v3
418	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	TEST FOR ACCURACY	CL. NO. 7.3.5 OF IS 16227 (PART 3): 2015	220V TO 33kV/110V & 220V/v3 // 110V/v3 TO 66kV/v3 // 110V/v3
419	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	VERIFICATION OF MARKINGS	CL. NO. 7.3.6 OF IS 16227 (PART 1): 2016	Qualitative
420	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	VERIFICATION OF MARKINGS	CL. NO. 7.3.6 OF IEC 61869 - 1: 2007	Qualitative



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421	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL TRANSFORMER	DETERMINATION OF ERRORS ACCORDING TO THE REQUIREMENTS OF APPROPRIATE ACCURACY CLASS	IS 3156 (Part2), Cl. No. 8.1.1 & 8.2.1 & IS 3156 (Part3), Cl.No. 10.1.1.2 & 10.1.2.1: 1992	0.05 % R.E. to 10 % R.E.
422	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL TRANSFORMER	DETERMINATION OF ERRORS ACCORDING TO THE REQUIREMENTS OF APPROPRIATE ACCURACY CLASS	IS 3156 (Part2), Cl. No. 8.1.1 & 8.2.1 & IS 3156 (Part3), Cl.No. 10.1.1.2 & 10.1.2.1: 1992	0.05 %R.E. to 10 % R.E.
423	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL TRANSFORMER	DETERMINATION OF ERRORS ACCORDING TO THE REQUIREMENTS OF APPROPRIATE ACCURACY CLASS	IS 3156 (Part2), Cl. No. 8.1.1 & 8.2.1 & IS 3156 (Part3), Cl.No. 10.1.1.2 & 10.1.2.1: 1992	0.05 % R.E. to 10 % R.E.
424	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL TRANSFORMER	DETERMINATION OF ERRORS ACCORDING TO THE REQUIREMENTS OF APPROPRIATE ACCURACY CLASS	IS 3156 (Part2), Cl. No. 8.1.1 & 8.2.1 & IS 3156 (Part3), Cl.No. 10.1.1.2 & 10.1.2.1: 1992	0.1 MIN to 199 MIN. (P.A.E.)
425	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL TRANSFORMER	DETERMINATION OF ERRORS ACCORDING TO THE REQUIREMENTS OF APPROPRIATE ACCURACY CLASS	IS 3156 (Part2), Cl. No. 8.1.1 & 8.2.1 & IS 3156 (Part3), Cl.No. 10.1.1.2 & 10.1.2.1: 1992	0.1 MIN to 199 MIN. (P.A.E.)



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426	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL TRANSFORMER	DETERMINATION OF ERRORS ACCORDING TO THE REQUIREMENTS OF APPROPRIATE ACCURACY CLASS	IS 3156 (Part 2), Cl. No. 8.1.1 & 8.2.1, IS 3156 (Part3), Cl. No. 10.1.1.2 & 10.1.2.1: 1992	0.1 Min. (P.A.E.) to 199 Min (P.A.E.)
427	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL TRANSFORMER	HIGH VOLTAGE POWER FREQUENCY TEST (ON PRIMARY WINDING)	IS 3156 (Part1), Cl. No. 9.3 : 1992	1 kV AC to 150 kV AC
428	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL TRANSFORMER	HIGH VOLTAGE POWER FREQUENCY TEST (ON SECONDARY SIDE)	IS 3156 (Part 1), Cl. No. 9.4: 1992	1 kV AC to 5 kV AC
429	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL TRANSFORMER	INDUCED OVER VOLTAGE WITHSTAND TEST	IS 3156 (Part1),Cl. No.9.3.1.2 & 9.3.2.2: 1992	1 Volt to 1000 Volt @ 150Hz
430	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL TRANSFORMER	INDUCED OVER VOLTAGE WITHSTAND TEST	IS 3156 (Part1),Cl. No.9.3.1.2 & 9.3.2.2: 1992	1 Volt to 1000 Volt @ 150Hz
431	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL TRANSFORMER	MEASUREMENT OF WINDING RESISTANCE	IS 3156 (Part1), Cl. No. 9.5: 1992	0.1 mOHM to 50 OHM
432	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL TRANSFORMER	PARTIAL DISCHARGE MEASUREMENT	IS 11322: 1985	2 pC to 1000 pC



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433	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL TRANSFORMER	PARTIAL DISCHARGE MEASUREMENT	IS 3156 (Part1) Cl. No. 9.1.2(d) : 1992	2 pC to 1000 pC
434	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL TRANSFORMER	SEPARATE SOURCE VOLTAGE WITHSTAND TEST	IS 3156 (Part1) : , Cl. No. 9.3.1.1 & 9.3.2.1: 1992	1 kV AC to 140 kV AC
435	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL TRANSFORMER	SEPARATE SOURCE VOLTAGE WITHSTAND TEST	IS 3156 (Part1) : , Cl. No. 9.3.1.1 & 9.3.2.1 : 1992	1 kV AC to 5 kV AC
436	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL TRANSFORMER	VERIFICATION OF TERMINAL MARKING & POLARITY	IS 3156(Part 1) , Cl. No.9.2: 1992	Qualitative



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Site Facility					
1	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Direct connected & Transformer Operated Watthour & VAR-Hour Smart meter	Dielectric Strength or Ac High Voltage	Cl. No. 6.10.6 of IS 16444(Part 2): 2017	1kV to 5kV
2	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Direct connected & Transformer Operated Watthour & VAR-Hour Smart meter	Influence Quantities - Voltage Variation, Frequency Variation, Phase Sequence, Voltage Unbalance, Wave Form / Harmonics Components	Cl. No. 6.12 of IS 16444 (PART 2): 2017	40V to 300V, 5mA to 120A, 45Hz to 65Hz, Power Factor: 0.25 Lag to 1 & 1 to 0.25 Lead (Active & Reactive) 1PH. 2W, 3PH 3W, 3PH, 4W
3	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Electrical Energy Meter	Dielectric Strength or Ac High Voltage	Cl. No. 5.4.6.3 of CBIP PUBLICATION: 325 JANUARY: 2015	1 kV to 5 kV
4	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watthour & VARhour Meters	Dielectric Strength or Ac High Voltage	Cl. No. 12.7.6.3 of IS 14697 AMD. 1 TO 4: 1999	1 kV to 5 kV
5	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watthour & VARhour Meters	Effect of Self Heating	Cl. No. 12.7.4 of IS 14697 AMD. 1 TO 4: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, Power Factor: 0.25LAG to 1 & 1 to 0.25LEAD (Active & Reactive) 1PH. 2W , 3PH. 3W, 3PH. 4W



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6	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watthour & VARhour Meters	Repeatability of Errors Test	CI. No. 12.16 of IS 14697 AMD. 1 TO 4: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, Power Factor: 0.25 Lag to 1 & 1 to 0.25 Lead (Active & Reactive) 1PH. 2W, 3PH 3W, 3PH, 4W
7	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour meter	Effect of Self Heating	CI. No. 12.7.4 of IS 13779 AMD. 1 TO 5: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH. 3W, 3PH. 4W
8	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour meter	Repeatability of Errors Test	CI. No. 12.17 of IS 13779 AMD. 1 TO 5: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, Power Factor: 0.25 Lag to 1 & 1 to 0.25 Lead (Active & Reactive) 1PH. 2W, 3PH 3W, 3PH, 4W
9	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour meter	Immunity to Earth Fault / Abnormal Voltage Condition	CI. 12.8 OF IS 13779 AMD. 1 TO 5: 1999	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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10	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	Dielectric Strength or Ac High Voltage	A.2.20 of NMI M 6-1: JULY : 2012	1 kV to 5 kV
11	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	EFFECT OF SELF HEATING	Cl. No. 7.3 of IEC 62053-21: 2003	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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12	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	EFFECT OF SELF HEATING	IEC 62052-11: 2003	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
13	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	EFFECT OF SELF HEATING	Cl. No. 7.6 of IEC 62055-31: 2005	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
14	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	EFFECT OF SELF HEATING	CI. No. 6.10.4 of IS 16444 (PART 2) : 2017	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
15	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	EFFECT OF SELF HEATING	CI. No. 6.10.4 of IS 16444: 2015	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
16	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	EFFECT OF SELF HEATING	CI. No. 7.3 of IEC 62053-23 : 2003	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
17	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	EFFECT OF SELF HEATING	CI. No. 6.2.2 of OIML R 46-1 AND 2:12 AUGUST : 2011	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
18	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	Effect of Self Heating	CI. No. 5.4.4 of CBIP PUBLICATION NO.: 325 , JANUARY : 2015	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
19	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	EFFECT OF SELF HEATING	CI. No. 5.4.4 of IS 15884: 2010	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
20	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	EFFECT OF SELF HEATING	CI. No. 5.4.4 of CBIP PUBLICATION: 304: 2008	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
21	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	CI. No. 6.2 of IS 16444(PART 2) : 2017	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
22	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	CI. No. 4.2 of CBIP PUBLICATION: 304: 2008	Qualitative
23	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	IS 15707: 2006	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
24	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	CI. No. 4.2.6 of IS 15884: 2010	Qualitative
25	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	IEC: 62053-22: 2003	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
26	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	IEC 62053-21: 2003	Qualitative
27	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	CI. No. 6.6 of IS 13779 AMD. 1 TO 5: 1999	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
28	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	IEC 62053-24: 2014	Qualitative
29	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	IEC 62055-31: 2005	Qualitative



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30	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	IEC 62053-23: 2003	Qualitative
31	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	CI. No. 6.6 of IS 14697 AMD. 1 TO 4: 1999	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
32	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	NMI M 6-1: JULY: 2012	Qualitative
33	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	CI. No. 5.6 of IEC 62052-11: 2003	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
34	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	CI. No. 4.2 of CBIP PUBLICATION NO.: 325 , JANUARY : 2015	Qualitative
35	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	GENERAL & CONSTRUCTIONAL REQUIREMENTS	CI. No. 6.2 of IS 16444 : 2015	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
36	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	CI. 4.4.7 of CBIP PUBLICATION NO: 304: 2008	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
37	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	CI. 6.4.11 of OIML R 46-1 & 2:12 AUGUST: 2011	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
38	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	IS 15707: 2006	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
39	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	Cl. 6.10.7 of IS 16444: 2015	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
40	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	CI No. 7.4 of IEC 62053-21: 2003	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
41	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	CI 7.4 of IEC 62053-23: 2003	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
42	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	CI No. 7.4 of IEC 62053-22: 2003	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
43	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	CI. 7.2.3 of IEC 62055-31: 2005	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
44	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	CI.6.10.7 of IS 16444 (PART 2) : 2017	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
45	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	IEC 62053-24: 2014	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
46	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	CI. 12.17 of IS 14697 AMD. 1 TO 4: 1999	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
47	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	CI. 4.4.7 of CBIP PUBLICATION NO.: 325 , JANUARY: 2015	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
48	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	Cl. 4.4.2.6 of IS 15884: 2010	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
49	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	IMMUNITY TO EARTH FAULT / ABNORMAL VOLTAGE CONDITION	Cl. 7.4 of IEC: 62052- 11: 2003	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
50	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 6.10.5 of IS 16444(Part 2): 2017	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
51	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 5.4.5 of IS 15884: 2010	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
52	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 6.10.5 of IS 16444: 2015	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
53	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 12.7.5 of IS 13779 AMD. 1 TO 5: 1999	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
54	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	Cl. No. 7.5 of IEC 62055-31: 2005	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
55	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	IEC 62053-24: 2014	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
56	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF HEATING	IS 15707: 2006	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
57	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 5.4.5 of CBIP PUBLICATION No. : 304: 2008	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
58	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 5.4.5 of CBIP PUBLICATION NO.: 304: 2008	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
59	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF HEATING	IEC 62053-24: 2014	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
60	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 6.10.5 of IS 16444: 2015	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
61	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 12.7.5 IF IS 14697 AMD. 1 TO 4: 1999	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
62	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 12.7.5 of IS 13779 AMD. 1 TO 5: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
63	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 5.4.5 of CBIP PUBLICATION: 304: 2008	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
64	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 7.5 of IEC 62055-31: 2005	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
65	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 5.4.5 of CBIP PUBLICATION NO.: 325 , JANUARY : 2015	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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66	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 6.10.5 of IS 16444(Part 2): 2017	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
67	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 5.4.5 of IS 15884: 2010	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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68	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF HEATING	IS 15707: 2006	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
69	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF HEATING	Cl. No. 5.4.5 of IS 15884: 2010	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
70	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 12.7.5 of IS 13779 AMD 1 TO 5: 1999	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
71	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 5.4.5 of CBIP PUBLICATION NO.: 325 , JANUARY: 2015	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
72	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 12.7.5 of IS 14697 AMD. 1 TO 5: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
73	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 7.5 of IEC 62055-31: 2005	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
74	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 6.10.5 IS 16444(Part 2): 2017	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
75	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 6.10.5 of IS 16444: 2015	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
76	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF HEATING	CI. No. 12.7.5 of IS 14697 AMD. 1 TO 4: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
77	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI. No. 12.7.2 of IS 14697 AMD. 1 TO 4: 1999	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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78	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	Cl. No. 4.4.2. & 5.4.2 of IS 15884: 2010	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
79	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	Cl. No. 5.4.2 of CBIP PUBLICATION NO.: 325 , JANUARY: 2015	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
80	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	A.2.14 of NMI M 6-1: JULY: 2012	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
81	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI. No. 7.1.2 of IEC: 62052-11: 2003	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
82	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI. No. 6.4.5 of OIML R 46-1 & 2:12 AUGUST: 2011	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
83	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI. No. 5.4.2 of CBIP PUBLICATION NO.: 304: 2008	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
84	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI. No. 12.7.2 of IS 13779 AMD. 1 TO 5: 1999	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
85	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI.No. 6.10.2 of IS 16444 (PART 2): 2017	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
86	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	IEC 62053-22: 2003	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
87	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	IEC 62053-24: 2014	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
88	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	IEC 62053-23: 2003	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
89	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI. No. 6.10.2 of IS 16444: 2015	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
90	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	Cl. No. 4.4.2. & 5.4.2 of IS 15884: 2010	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
91	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	Cl. No. 12.7.2 of IS 13779 AMD. 1 TO 5: 1999	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
92	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	IEC 62053-21: 2003	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
93	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	Cl. No. 7.2.2 of IEC 62055-31: 2005	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
94	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	IEC 62053-23: 2003	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
95	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	Cl. No. 7.2.2 of IEC 62055-31: 2005	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
96	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI.No. 6.10.2 of IS 16444 (PART 2) : 2017	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
97	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	IEC 62053-22: 2003	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
98	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI. No. 5.4.2 of CBIP PUBLICATION NO.: 325 , JANUARY : 2015	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
99	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	A.2.14 of NMI M 6-1: JULY: 2012	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
100	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI. No. 6.4.5 of OIML R 46-1 & 2:12 AUGUST : 2011	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
101	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	IEC 62053-24: 2014	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
102	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI. No. 7.1.2 of IEC: 62052-11 : 2003	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
103	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI. No. 5.4.2 of CBIP PUBLICATION: 304: 2008	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
104	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI. No. 6.10.2 of IS 16444: 2015	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
105	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	IEC 62053-21: 2003	40V to 300V,45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
106	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE OF SUPPLY VOLTAGE / VOLTAGE DIPS AND INTERRUPTIONS	CI. No. 12.7.2 14697 AMD. 1 TO 4: 1999	40V to 300V, 45Hz to 65Hz (1PH. 2W , 3PH. 3W, 3PH. 4W)
107	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 3.3.5 of OIML R 46-1 AND 2:12 AUGUEST: 2011	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
108	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	Cl. No. 12.11 of IS 13779 AMD. 1 TO 5: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
109	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	Cl. No. 8.2 of IEC 62053-21: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
110	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 8 of IEC 62055-31: 2005	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
111	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 5 of NMI M 6-1:JULY: 2012	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
112	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FREQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE, WAVE FORM	CI. No. 4.6.2 of IS 15884: 2010	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
113	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FREQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE, WAVE FORM	CI. No. 8.2 of IEC 62053-22: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
114	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 8.2 of IEC 62053-21: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
115	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 6.12 of IS 16444: 2015	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
116	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	Cl. No. 8.2 of IEC 62053-22: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
117	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	Cl. No. 8.2 of IEC 62053-23: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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Laboratory Name BARODA CALIBRATION SERVICES, 638, G.I.D.C. MAKARPURA, VADODARA, GUJARAT , INDIA

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7227 Page No. : 230 / 336

Validity 08/05/2018 to 07/05/2020 Last Amended on 21/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
118	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 12.10 of IS 14697 AMD. 1 TO 4: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
119	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 5.6.2 of CBIP PUBLICATION: 304: 2008	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
120	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 4.6.2 of IS 15884: 2010	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
121	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 8.3 of IEC 62053-24: 2014	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
122	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 3.3.5 of OIML R 46-1 AND 2:12 AUGUEST: 2011	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
123	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 6.12 of IS 16444(PART 2): 2017	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
124	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	IEC 62052-11: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
125	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 12.10 of IS 14697 AMD. 1 TO 4: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
126	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	IS 15707: 2006	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
127	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 12.11 of IS 13779 AMD. 1 TO 5: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
128	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FREQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE, WAVE FORM	CI. No. 8.3 of IEC 62053-24: 2014	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
129	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FREQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE, WAVE FORM	CI. No. 5.6.2 of CBIP PUBLICATION: 325 January: 2015	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
130	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 6.12 of IS 16444(PART 2): 2017	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
131	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 5.6.2 of CBIP PUBLICATION: 325 January: 2015	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
132	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 3.3.5 of OIML R 46-1 AND 2:12 AUGUEST: 2011	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
133	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 5 of NMI M 6- 1:JULY: 2012	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
134	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 5.6.2 of CBIP PUBLICATION: 304: 2008	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
135	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 8 of IEC 62055- 31: 2005	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
136	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	Cl. No. 8 of IEC 62055-31: 2005	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
137	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	Cl. No. 8.2 of IEC 62053-23: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
138	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FREQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE, WAVE FORM	IS 15707: 2006	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
139	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FREQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE, WAVE FORM	Cl. No. 6.12 of IS 16444: 2015	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
140	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FREQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE, WAVE FORM	CI. No. 8 of IEC 62055-31: 2005	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
141	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FREQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE, WAVE FORM	CI. No. 5.6.2 of CBIP PUBLICATION: 325 January: 2015	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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142	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	Cl. No. 8.2 of IEC 62053-22: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
143	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	Cl. No. 8.2 of IEC 62053-23: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
144	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 12.10 of IS 14697 AMD. 1 TO 4: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
145	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 4.6.2 of IS 15884: 2010	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
146	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 5.6.2 of CBIP PUBLICATION: 304: 2008	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
147	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 3.3.5 of OIML R 46-1 AND 2:12 AUGUEST: 2011	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
148	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 6.12 of IS 16444(PART 2): 2017	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
149	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	IEC 62052-11: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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150	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 12.11 of IS 13779 AMD. 1 TO 5: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
151	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 8.2 of IEC 62053-21: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
152	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	Cl. No. 6.12 of IS 16444: 2015	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
153	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	Cl. No. 8.3 of IEC 62053-24: 2014	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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154	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	IEC 62052-11: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
155	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 12.11 of IS 13779 AMD. 1 TO 5: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
156	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	IS 15707: 2008	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
157	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 5 of NMI M 6- 1:JULY: 2012	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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158	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	IEC 62052-11: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
159	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 5.6.2 of CBIP PUBLICATION: 304: 2008	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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160	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 12.10 of IS 14697 AMD. 1 TO 4: 1999	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
161	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION, FRIQUENCY VARIATION, PHASE SEQUENCE, VOLTAGE UNBALANCE,WAVE FORM	CI. No. 8.3 of IEC 62053-24: 2014	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
162	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES - VOLTAGE VARIATION - FREQUENCY VARIATION - PHASE SEQUENCE - VOLTAGE UNBALANCE - WAVE FORM	Cl. No. 8.2 of IEC 62053-22: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
163	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES- VOLTAGE VARIATION- FREQUENCY VARIATION- PHASE SEQUENCE- VOLTAGE UNBALANCE- WAVE FORM	Cl. No. 8.2 of IEC 62053-23: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
164	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES- VOLTAGE VARIATION- FREQUENCY VARIATION- PHASE SEQUENCE- VOLTAGE UNBALANCE- WAVE FORM	CI. No. 8.2 of IEC 62053-22: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
165	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES- VOLTAGE VARIATION- FREQUENCY VARIATION- PHASE SEQUENCE- VOLTAGE UNBALANCE- WAVE FORM	CI. No. 4.6.2 of IS 15884: 2010	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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166	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE QUANTITIES- VOLTAGE VARIATION- FREQUENCY VARIATION- PHASE SEQUENCE- VOLTAGE UNBALANCE- WAVE FORM	CI. No. 6.12 of IS 16444: 2015	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
167	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INFLUENCE QUANTITIES- VOLTAGE VARIATION- FREQUENCY VARIATION- PHASE SEQUENCE- VOLTAGE UNBALANCE- WAVE FORM	IS 15707: 2006	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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168	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUANTITIES- VOLTAGE VARIATION- FREQUENCY VARIATION- PHASE SEQUENCE- VOLTAGE UNBALANCE- WAVE FORM	CI. No. 5 of NMI M 6-1:JULY: 2012	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
169	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INSULATION RESISTANCE	CI. No. 5.4.6.4 of CBIP PUBLICATION : 325 JANUARY : 2015	5 MOhm TO 50 GOhm500V DC



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
170	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INSULATION RESISTANCE	IS 15707: 2006	5 MOhm TO 50 GOhm500V DC
171	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INSULATION RESISTANCE	CL. No. 6.10.6 of IS 16444(PART 2): 2017	5 MOhm TO 50 GOhm500V DC



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172	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INSULATION RESISTANCE	Cl. No. 6.10.6 of IS 16444: 2015	5 MOhm TO 50 GOhm500V DC
173	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INSULATION RESISTANCE	Cl. No. 5.4.6.4 of CBIP Publication No. :304: 2008	5 MOhm TO 50 GOhm500V DC



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174	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INSULATION RESISTANCE	Cl. No. 12.7.6.4 of IS 14697 AMD 1 TO 4: 1999	5 MOhm TO 50 GOhm500V DC
175	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INSULATION RESISTANCE	Cl. No. 5.4.6.4 of IS 15884: 2010	5 MOhm TO 50 GOhm500V DC



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176	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	CI. No. 8.6 of IEC 62053-23 : 2003	Qualitative
177	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	CI. No. 8.6 of IEC 62053-22: 2003	Qualitative



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178	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	Cl. No. 8.7 of IEC 62053-24: 2014	Qualitative
179	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	Cl. No. 5.6.6 of IS 15884 : 2010	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
180	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	CI. No. 12.16 of IS 13779 AMD. 1 TO 5: 1999	Qualitative
181	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	CI. No. 5.6.7 of CBIP PUBLICATION: 304: 2008	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
182	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	CI. No. 6.12 of IS 16444: 2015	Qualitative
183	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	CI. No. 12.15 of IS 14697 AMD. 1 TO 4: 1999	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
184	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	CI. No. 5.6.7 of CBIP PUBLICATION NO.: 325 JANUARY : 2015	Qualitative
185	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	IS 15707: 2006	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
186	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	CI. No. 8.6 of IEC 62053-21: 2003	Qualitative
187	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	IEC: 62052-11: 2003	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
188	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	Cl. No. 8 of IEC 62055- 31: 2005	Qualitative
189	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	INTERPRETATION OF TEST RESULTS AND ADJUSTMENTS	Cl. No. 6.12 of IS 16444(PART 2) : 2017	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
190	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	CI. No. 3.3 of OIML R 46-1 AND 2:12 AUGUST: 2011	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
191	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	CI. No. 8 of IEC 62055- 31: 2005	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
192	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	IS 15707: 2006	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
193	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	Cl. No. 6.12 of IS 16444(PART 2) : 2017	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
194	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	Cl. 4.6.1 of IS 15884: 2010	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
195	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	Cl. 6.12 of IS 16444: 2015	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
196	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	CI. NO. 8.1 of IEC 62053-23: 2003	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
197	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	CI. 8.1 of IEC 62053- 21: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
198	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	CI. 4.6.3 of CBIP PUBLICATION: 304: 2008	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
199	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	CI. No. 8.2 of IEC 62053-24 : 2014	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
200	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	CI. No. 4.8 of NMI M 6- 1:JULY : 2012	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
201	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	CI. 11.1 OF IS 13779 AMD: 1 TO 5: 1999	40V to 300V (P-N),5mA to 120A,45 Hz to 65 Hz0.25 lag to 1 & 1 to0.25 Lead,(Active & Reactive)1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
202	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	CI. No. 8.1 of IEC 62053-22: 2003	40V to 300V (P-N), 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W
203	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	CI. 11.1 OF IS 14697 AMD: 1 TO 4: 1999	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
204	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	IEC 62052-11 : 2003	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
205	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	LIMITS OF ERRORS / ACCURACY REQUIREMENT	CI. 4.6.2 of CBIP PUBLICATION NO.: 325 JANUARY : 2015	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
206	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	Cl. No. 8.5 of IEC 62053-24: 2014	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
207	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	Cl. No. 5.6.5 of IS 15884: 2010	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
208	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	METER CONSTANT	IS 15707: 2006	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
209	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	METER CONSTANT	CI. No. 4.6 of NMI M 6-1:JULY: 2012	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
210	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	CI. No. 6.12 of IS 16444: 2015	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
211	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	CI. No. 6.2.5 of OIML R 46-1 AND 2: 12 AUGUST: 2011	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
212	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	Cl. No. 8 of IEC 62055- 31 : 2005	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
213	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	Cl. 8.4 of IEC 62053- 23: 2003	40V to 300V(P-N), 5mA to 120A, 45Hz to 65Hz, POWER FACTOR: 0.25 LAG to 1 & 1 to 0.25 LEAD, (ACTIVE & REACTIVE) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
214	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	METER CONSTANT	CI. No. 8.4 of IEC 62053-22: 2003	40V to 300V (P-N), 5mA to 120A, 45Hz to 65Hz , POWER FACTOR: 0.25 LAG. to 1 & 1 to 0.25 LEAD. (ACTIVE & REACTIVE) 1PH 2W, 3PH 3W, 3PH 4W
215	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	METER CONSTANT	CI. No. 6.12 of IS 16444(PART 2) : 2017	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
216	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	IEC: 62052-11 : 2003	RANGE: 40V to 300V (P-N), 5mA to 120A, 45Hz to 65Hz , POWER FACTOR: 0.25LAG. to 1 & 1 to 0.25LEAD. (ACTIVE & REACTIVE) 1PH 2W, 3PH 3W, 3PH 4W
217	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	CI. No. 8.4 of IEC 62053-21: 2003	RANGE: 40V to 300V (P-N), 5mA to 120A, 45Hz to 65Hz , POWER FACTOR: 0.25 LAG. to 1 & 1 to 0.25 LEAD. (ACTIVE & REACTIVE) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
218	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	CI. No. 12.15 of IS 13779 AMD.1 TO 5: 1999	40V to 300V (P-N), 5mA to 120A, 45Hz to 65Hz , POWER FACTOR: 0.25LAG. to 1 & 1 to 0.25LEAD. (ACTIVE & REACTIVE) 1PH 2W, 3PH 3W, 3PH 4W
219	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	CI. No. 12.14 of IS 14697 AMD 1 TO 4: 1999	RANGE: 40V to 300V (P-N), 5mA to 120A, 45Hz to 65Hz , POWER FACTOR: 0.25LAG. to 1 & 1 to 0.25LEAD. (ACTIVE & REACTIVE) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
220	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	CI. No. 5.6.6 of CBIP PUBLICATION NO.: 325 , JANUARY: 2015	RANGE: 40V to 300V (P-N), 5mA to 120A, 45Hz to 65Hz , POWER FACTOR: 0.25LAG. to 1 & 1 to 0.25LEAD. (ACTIVE & REACTIVE) 1PH 2W, 3PH 3W, 3PH 4W
221	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	METER CONSTANT	CI. No. 5.6.6 of CBIP PUBLICATION: 304: 2008	RANGE: 40V to 300V (P-N), 5mA to 120A, 45Hz to 65Hz , POWER FACTOR: 0.25LAG. to 1 & 1 to 0.25LEAD. (ACTIVE & REACTIVE) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
222	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	REPEATABILITY OF ERRORS TEST	IS 15707: 2006	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
223	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	REPEATABILITY OF ERRORS TEST	Cl. No. 6.12 of IS 16444: 2015	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
224	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	REPEATABILITY OF ERRORS TEST	CI. No. 6.12 of IS 16444(PART 2): 2017	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
225	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	REPEATABILITY OF ERRORS TEST	CI. No. 5.6.7 of IS 15884: 2010	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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226	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	REPEATABILITY OF ERRORS TEST	CI. No. 5.6.9 of CBIP PUBLICATION NO.: 325 , JANUARY : 2015	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
227	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	REPEATABILITY OF ERRORS TEST	CI. No. 5.6.9 of CBIP PUBLICATION: 304 : 2008	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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228	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 8.3 of IEC 62053-22: 2003	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
229	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 8.3 of IEC 62053-21: 2003	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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230	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	IEC: 62052-11: 2003	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
231	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 5.6.4 of CBIP PUBLICATION: 304 : 2008	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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232	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 6.2.4 of OIML R 46-1 AND 2:12 AUGUST: 2011	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
233	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	IS 15707: 2006	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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234	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 5.6.4 of CBIP PUBLICATION NO.: 325 , JANUARY : 2015	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
235	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 6.12 of IS 16444: 2015	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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236	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 8.3 of IEC 62053-23: 2003	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
237	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 12.13 of IS 13779 AMD. 1 TO 5: 1999	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
238	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 8 of IEC 62055- 31: 2005	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
239	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 5.7 of NMI M 6- 1:JULY: 2012	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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240	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 5.6.3 of IS 15884 : 2010	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
241	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 12.12 of IS 14697 AMD. 1 TO 4: 1999	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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242	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 8.4 of IEC 62053-24: 2014	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
243	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	RUNNING WITH NO LOAD / NO-LOAD CONDITION	CI. No. 6.12 of IS 16444(PART 2): 2017	40V to 300V (P-N), 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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244	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	IEC: 62052-11 : 2003	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
245	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	CI. No. 5.6.5 of CBIP PUBLICATION: 304: 2008	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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246	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	CI. No. 8.3 of IEC 62053-23: 2003	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
247	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	CI. No. 5.7 of NMI M 6- 1:JULY: 2012	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
248	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	CI. No. 12.13 of IS 14697 AMD. 1 TO 4: 1999	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
249	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	CI. No. 8 of IEC 62055- 31: 2005	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
250	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	CI. No. 8.3 of IEC 62053-21: 2003	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
251	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	CI. No. 6.2.3 of OIML R 46-1 AND 2:12 AUGUST : 2011	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
252	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	IS 15707: 2006	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
253	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	CI. No. 5.6.5 of CBIP PUBLICATION NO.: 325 , JANUARY : 2015	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
254	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	STARTING CONDITIONS, START UP	CI. No. 8.3 of IEC 62053-22: 2003	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
255	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	STARTING CONDITIONS, START UP	CI. No. 8.4 of IEC 62053-24: 2014	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
256	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	Cl. No. 6.12 of IS 16444(PART 2) : 2017	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
257	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	Cl. No. 6.12 of IS 16444: 2015	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
258	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	CI. No. 5.6.4 of IS 15884 : 2010	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
259	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	STARTING CONDITIONS, START UP	CI. No. 12.14 of IS 13779 AMD. 1 TO 5: 1999	40V to 300V (P-N), 1mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
260	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	IEC 62052-11: 2003	0.5W to 100W, 0.5VA to 100VA
261	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 7.2 of IEC 62053-24: 2014	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
262	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 7.3 of 62055- 31: 2005	0.5W to 100W, 0.5VA to 100VA
263	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 7.2 of IEC 62053-24: 2014	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
264	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 5.4.1 of IS 15884: 2010	0.5W to 100W, 0.5VA to 100VA
265	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	IEC 62052-11: 2003	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
266	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 5.4.1 of CBIP Publication No. : 325 January: 2015	0.5W to 100W, 0.5VA to 100VA
267	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 12.7.1 of IS 14697 AMD. 1 TO 4: 1999	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
268	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 5.4.1 of CBIP Publication No. : 325 January: 2015	0.5W to 100W, 0.5VA to 100VA
269	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 6.10.1 of IS 16444: 2015	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
270	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	Cl. No. 6.10.1 of IS 16444(Part 2): 2017	0.5W to 100W, 0.5VA to 100VA
271	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	Cl. No. 7.1 of IEC 62053-22: 2003	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
272	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 7.1 of IEC 62053-21: 2003	0.5W to 100W, 0.5VA to 100VA
273	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	IS 15707: 2006	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
274	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 7.1 of IEC 62053-23: 2003	0.5W to 100W, 0.5VA to 100VA
275	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 7.3 of IEC 62055-31: 2005	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
276	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 7.1 of IEC 62053-23: 2003	0.5W to 100W, 0.5VA to 100VA.
277	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 12.7.1 of IS 14697 AMD. 1 TO 4: 1999	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
278	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 12.7.1 of IS 13779 AMD. 1 TO 5: 1999	0.5W to 100W, 0.5VA to 100VA
279	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 7.1 of IEC: 62053-22: 2003	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
280	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 12.7.1 of IS 13779 AMD. 1 TO 5: 1999	0.5W to 100W, 0.5VA to 100VA.
281	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 7.1 of IEC: 62053-21: 2003	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
282	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	IS 15707: 2006	0.5W to 100W, 0.5VA to 100VA
283	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	Cl. No. 5.4.1 of IS 15884: 2010	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
284	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 5.4.1 of CBIP Publication No. 304: 2008	0.5W to 100W, 0.5VA to 100VA
285	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	CI. No. 5.4.1 of CBIP Publication No. : 304: 2008	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
286	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	Cl. No. 6.10.1 of IS 16444 (Part 2): 2017	0.5W to 100W, 0.5VA to 100VA
287	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	TEST OF POWER CONSUMPTION / POWER LOSS	Cl. No. 6.10.1 of IS 16444: 2017	0.5W to 100W, 0.5VA to 100VA



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
288	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	CI. No. 5.12 of IEC: 62052-11 : 2003	Qualitative
289	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	CI. No. 5.13 of IEC 62055-31: 2005	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
290	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	IS 15707: 2006	Qualitative
291	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	CI. No. 3.5 of OIML R 46-1 AND 2:12 AUGUST : 2011	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
292	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	IEC 62053-21: 2003	Qualitative
293	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	CI. No. 8 of NMI M 6-1: JULY: 2012	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
294	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	CI. No. 4.2.2.11 of CBIP PUBLICATION NO.: 325 , JANUARY : 2015	Qualitative
295	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	CI. No. 6.8 of IS 16444 (PART 2) : 2017	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
296	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	IEC 62053-22: 2003	Qualitative
297	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	IEC 62053-23: 2003	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
298	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	CI. No. 4.2.2.11 of CBIP PUBLICATION: 304: 2008	Qualitative
299	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	CI. No. 6.8 of IS 16444 : 2015	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
300	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	CI. No. 7 of IS 13779 AMD. 1 OT 5: 1999	Qualitative
301	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	CI. No. 4.2.11 of IS 15884: 2010	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
302	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	CI. No. 7 of IS 14697 AMD. 1 TO 4: 1999	Qualitative
303	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi- function Measuring Instruments	VERIFICATION OF MARKING	IEC 62053-24: 2014	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
304	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments with its CT PT Unit	Tamper Testing	DERC Supply Codes and Performance Standards Regulations, 2017; PROC T-34:2018; Cl. No. 6.2, 6.3, 6.4 & 6.5 & Cl. 11.1 IS 13779:1999 Amd. 1 to 5; Cl. No. 6.2, 6.3, 6.4 & 6.5, Cl. 11.1, Annexure G, G-10 of IS 14697:1999 Amd. 1 to 4; IS 15707:2006; NMI M 6-1:July 2012; Cl. No. 4.2.2, 4.2.3, 4.2.4 & 4.2.5 of IS 15884:2010; Cl. No. 6.2, 6.12 of IS 16444:2015; Cl. No. 6.2, 6.12 of IS 16444 (Part 2): 2017: 2017	40V to 300V (P-N), 10mA to 120A, 45 Hz to 55 Hz 0.5 lag to 1 & 1 to 0.8 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
305	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff and load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	DIELECTRIC STRENGTH OR AC HIGH VOLTAGE	Cl. 12.7.6.3 of IS 13779 AMD. 1 TO 5: 1999	1 kV to 5 kV



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
306	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff and load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INSULATION RESISTANCE(500V DC)	Cl. No. 12.7.6.4 of IS 13779 AMD 1 TO 5: 1999	5 MOhm TO 50 GOhm500V DC
307	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ELECTRICAL AND ELECTRONIC (STATIC) ENERGY METERSElectrical and Electronic (Static) Energy Meters, Prepayment Meters, Smart Meters and Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments	INFLUENCE QUNTITIES- VOLTAGE VARIATION- FREQUENCY VARIATION- PHASE SEQUENCE- VOLTAGE UNBALANCE- WAVE FORM	Cl. No. 8.2 of IEC 62053-21: 2003	40V to 300V, 5mA to 120A, 45Hz to 65Hz, POWER FACTOR : 0.25LAG to 1 & 1 to 0.25LEAD (ACTIVE & REACTIVE) 1PH. 2W , 3PH 3W, 3PH, 4W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
308	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Metering Equipment, Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments, Static Energy Meter for Reactive Energy	Influence of Heating	IEC 62053-24: 2014	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
309	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Metering Equipment, Tariff & load control equipment, Electrical/Electronic Equipment, Electrical & Electronic Multi-function Measuring Instruments, Static Energy Meter for Reactive Energy	Influence Quantities - Voltage Variation, Frequency Variation, Phase Sequence, Voltage Unbalance, Wave Form / Harmonics Components	CI. No. 5.6.2 of CBIP PUBLICATION: 325 January: 2015	40V to 300V, 5mA to 120A, 45Hz to 65Hz, Power Factor: 0.25 Lag to 1 & 1 to 0.25 Lead (Active & Reactive) 1PH. 2W, 3PH 3W, 3PH, 4W
310	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Metering Equipment, Tariff & load control equipment, Static Energy Meter for Reactive Energy	Dielectric Strength or Ac High Voltage	CI. No. 7.4 of IEC 62053-22: 2003	1 kV to 5 kV
311	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Metering Equipment, Tariff & load control equipment, Static Energy Meter for Reactive Energy	Dielectric Strength or Ac High Voltage	IS 15707: 2006	1 kV to 5 kV



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
312	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Metering Equipment, Tariff & load control equipment, Static Energy Meter for Reactive Energy	Dielectric Strength or Ac High Voltage	Cl. No. 5.4.6.3 of IS 15884: 2010	1 kV to 5 kV
313	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Metering Equipment, Tariff & load control equipment, Static Energy Meter for Reactive Energy	Dielectric Strength OR AC High Voltage	Cl. No. 7.5 of IEC 62053-24: 2014	1 kV to 5 kV
314	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Metering Equipment, Tariff & load control equipment, Static Energy Meter for Reactive Energy	Dielectric Strength or Ac High Voltage	Cl. No. 7.4 of IEC 62053 - 21: 2003	1 kV to 5 kV
315	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Metering Equipment, Tariff & load control equipment, Static Energy Meter for Reactive Energy	Dielectric Strength or Ac High Voltage	Cl. No. 7.7 of IEC 62055-31: 2005	1 kV to 5 kV
316	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Metering Equipment, Tariff & load control equipment, Static Energy Meter for Reactive Energy	Dielectric Strength or Ac High Voltage	Cl.No. 7.3.3 of IEC: 62052 - 11: 2003	1 kV to 5 kV
317	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Metering Equipment, Tariff & load control equipment, Static Energy Meter for Reactive Energy	Dielectric Strength or Ac High Voltage	Cl. No. 7.4 of IEC 62053-23: 2003	1 kV to 5 kV



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
318	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Metering Equipment, Tariff & load control equipment, Static Energy Meter for Reactive Energy	Dielectric Strength or Ac High Voltage	Cl. No. 6.10.6 of IS 16444: 2015	1 kV to 5 kV
319	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Metering Equipment, Tariff & load control equipment, Static Energy Meter for Reactive Energy	Effect of Self Heating	Cl. No. 7.4 of IEC 62053-24: 2014	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
320	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Metering Equipment, Tariff & load control equipment, Static Energy Meter for Reactive Energy	Effect of Self Heating	Cl. No. 7.3 of IEC 62053-22 : 2003	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
321	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electricity Meters	Effect of Self Heating	IS 15707: 2006	40V to 300V (P-N), 5mA to 120A, 45 Hz to 65 Hz 0.25 lag to 1 & 1 to 0.25 Lead, (Active & Reactive) 1PH 2W, 3PH 3W, 3PH 4W
322	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST ON SECONDARY TERMINALS	CL. NO. 7.3.4 OF IS 16227 (PART 1): 2016	1kV TO 5 kV AC
323	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	TEST FOR ACCURACY	CL. NO. 7.3.5 OF IEC 61869 – 4: 2013	1A to 600A/5A & 1A; 220 V to 33 kV/110V & 220V/ v3 / 110V/v3 to 33kV/v3 /110V/v3



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
324	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	TEST FOR ACCURACY	CL. NO. 7.3.5 OF IEC 61869 – 4: 2013	1A to 600A/5A & 1A; 220 V to 33 kV/110V & 220V/ v3 / 110V/v3 to 33kV/v3 /110V/v3
325	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	TEST FOR ACCURACY	CL. NO. 7.3.5 OF IS 16227 (PART 4): 2015	1A to 600A/5A & 1A; 220 V to 33 kV/110V & 220V/ v3 / 110V/v3 to 33kV/v3 /110V/v3
326	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	TEST FOR ACCURACY	CL. NO. 7.3.5 OF IEC 61869 – 4: 2013	1A to 600A/5A & 1A; 220 V to 33 kV/110V & 220V/ v3 / 110V/v3 to 33kV/v3 /110V/v3
327	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	TEST FOR ACCURACY	CL. NO. 7.3.5 OF IS 16227 (PART 4): 2015	1A to 600A/5A & 1A; 220 V to 33 kV/110V & 220V/ v3 / 110V/v3 to 33kV/v3 /110V/v3
328	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	DETERMINATION OF SECONDARY WINDING RESISTANCE	CL. NO. 7.3.201 OF IS 16227 (PART 2): 2016	0.1 mOHM TO 50 OHM
329	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	DETERMINATION OF SECONDARY WINDING RESISTANCE	CL. NO. 7.3.201 OF IEC 61869 – 2: 2012	0.1 mOHM TO 50 OHM
330	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST BETWEEN SECTIONS	CL. NO. 7.3.3 OF IS 16227 (PART 1): 2016	1kV TO 5 kV AC



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
331	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST BETWEEN SECTIONS	CL. NO. 7.3.3 OF IEC 61869 – 1: 2007	1kV TO 5 kV AC
332	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST ON SECONDARY TERMINALS	CL. NO. 7.3.4 OF IEC 61869 – 1 : 2007	1kV TO 5 kV AC
333	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	TEST FOR ACCURACY	CL. NO. 7.3.5 OF IEC 61869 – 4: 2013	1A to 600A/5A & 1A; 220 V to 33 kV/110V & 220V/ v3 / 110V/v3 to 33kV/v3 /110V/v3
334	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	TEST FOR ACCURACY	CL. NO. 7.3.5 OF IS 16227 (PART 4): 2015	1A to 600A/5A & 1A; 220 V to 33 kV/110V & 220V/ v3 / 110V/v3 to 33kV/v3 /110V/v3
335	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	TEST FOR ACCURACY	CL. NO. 7.3.5 OF IS 16227 (PART 4): 2015	1A to 600A/5A & 1A; 220 V to 33 kV/110V & 220V/ v3 / 110V/v3 to 33kV/v3 /110V/v3
336	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	VERIFICATION OF MARKINGS	CL. NO. 7.3.6 OF IEC 61869 – 1 : 2007	Qualitative
337	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	COMBINED INSTRUMENT TRANSFORMERS	VERIFICATION OF MARKINGS	CL. NO. 7.3.6 OF IS 16227 (PART 1): 2016	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
338	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMER	DETERMINATION OF ERROR ACCORDING TO REQUIREMENTS OF APPROPRIATE ACCURACY CLASS	IS 2705 (Part 2&3) , Cl. No. 7.1.1 & 7.2.1: 1992	0.005 Min to 199 Min. (P.A.E.)
339	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMER	DETERMINATION OF ERROR ACCORDING TO REQUIREMENTS OF APPROPRIATE ACCURACY CLASS	IS 2705 (Part 2&3) , Cl. No. 7.1.1 & 7.2.1: 1992	0.005 % to 10 % (R.E.)
340	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMER	DETERMINATION OF ERROR ACCORDING TO REQUIREMENTS OF APPROPRIATE ACCURACY CLASS	IS 2705 (Part 2&3) , Cl. No. 7.1.1 & 7.2.1: 1992	0.005 Min. to 199 Min.
341	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMER	DETERMINATION OF ERROR ACCORDING TO REQUIREMENTS OF APPROPRIATE ACCURACY CLASS	IS 2705 (Part 2&3) , Cl. No. 7.1.1 & 7.2.1: 1992	0.005 % to 10 % (R.E.)
342	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMER	HIGH VOLTAGE POWER FREQUENCY TEST (ON SECONDARY WINDING)	IS 2705 (Part1) , Cl. No. 9.4: 1992	1 kV AC to 5 kV AC
343	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMER	MEASUREMENT OF WINDING RESISTANCE	IS: 2705 (PART 4) :Cl. No. 6.2: 1992	0.1 mOHM to 50 OHM



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
344	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMER	TURNS RATIO TEST	IS 2705 (Part 4),Cl.No.6.3: 1992	0.1 % to 10 %
345	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMER	VERIFICATION OF TERMINAL MARKING & POLARITY	IS 2705, PART-I, CL. NO. 9.2: 1992	Qualitative
346	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	DETERMINATION OF THE SECONDARY WINDING RESISTANCE	CL. NO. 7.3.201 OF IS 16227 (PART 2): 2016	0.1 mOHM TO 50OHM
347	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	DETERMINATION OF THE SECONDARY WINDING RESISTANCE	CL. NO. 7.3.201 OF IEC 61869 – 2: 2012	0.1 mOHM TO 50 OHM
348	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST BETWEEN SECTIONS	CL. NO. 7.3.3 OF IS 16227 (PART 1): 2016	1kV TO 5kV AC
349	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST BETWEEN SECTIONS	CL. NO. 7.3.3 OF IEC 61869 – 1: 2007	1kV TO 5kV AC
350	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST ON SECONDARY TERMINALS	CL. NO. 7.3.4 OF IEC 61869 – 1: 2007	1 kV TO 5 kV AC



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
351	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST ON SECONDARY TERMINALS	CL. NO. 7.3.4 OF IS 16227 (PART 1): 2016	1 kV TO 5 kV AC
352	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	VERIFICATION OF MARKINGS	CL. NO. 7.3.6 OF IEC 61869-1: 2007	Qualitative
353	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	TEST FOR ACCURACY (TEST FOR RATIO ERROR & PHASE DISPLACEMENT)	CL. NO. 7.3.5.201, 7.3.5.202, 7.3.5.204 OF IS 16227 (PART 2): 2016	1A TO 3200A / 5A & 1A
354	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	TEST FOR ACCURACY (TEST FOR RATIO ERROR & PHASE DISPLACEMENT)	CL. NO. 7.3.5.201, 7.3.5.202, 7.3.5.204 OF IEC 61869 - 2: 2012	1A TO 3200A / 5A & 1A
355	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	TEST FOR ACCURACY (TEST FOR RATIO ERROR & PHASE DISPLACEMENT)	CL. NO. 7.3.5.201, 7.3.5.202, 7.3.5.204 OF IEC 61869 - 2: 2012	1A TO 3200A / 5A & 1A
356	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	TEST FOR ACCURACY (TEST FOR RATIO ERROR & PHASE DISPLACEMENT)	CL. NO. 7.3.5.201, 7.3.5.202, 7.3.5.204 OF IS 16227 (PART 2): 2016	1A TO 3200A / 5A & 1A



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
357	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	TEST FOR ACCURACY (TEST FOR TURNS RATIO ERROR)	CL. NO. 7.3.5.206 OF IEC 61869 – 2: 2012	1A TO 3200A
358	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	TEST FOR ACCURACY (TEST FOR TURNS RATIO ERROR)	CL. NO. 7.3.5.206 OF IS 16227 (PART 2): 2016	1 A TO 3200A
359	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CURRENT TRANSFORMERS	VERIFICATION OF MARKINGS	CL. NO. 7.3.6 OF IS 16227 (PART 1): 2016	Qualitative
360	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	TEST FOR ACCURACY	CL. NO. 7.3.5 OF IEC 61869 – 3: 2011	220V TO 33kV/110V & 220V/v3 // 110V/v3 TO 66kV/v3 // 110V/v3
361	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST BETWEEN SECTIONS	CL. NO. 7.3.3 OF IS 16227 (PART 1): 2016	1kV TO 5kV AC
362	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST BETWEEN SECTIONS	CL. NO. 7.3.3 OF IEC 61869 – 1: 2007	1kV TO 5 kV AC
363	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST ON SECONDARY TERMINALS	CL. NO. 7.3.4 OF IEC 61869 – 1: 2007	1kV TO 5 kV AC



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
364	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	POWER FREQUENCY VOLTAGE WITHSTAND TEST ON SECONDARY TERMINALS	CL. NO. 7.3.4 OF IS 16227 (PART 1): 2016	1kV TO 5 kV AC
365	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	TEST FOR ACCURACY	CL. NO. 7.3.5 OF IS 16227 (PART 3): 2015	220V TO 33kV / 110V & 220V/v3 // 110V/v3 TO 66kV/v3 //110/v3
366	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	TEST FOR ACCURACY	CL. NO. 7.3.5 OF IEC 61869 – 3: 2011	220V TO 33kV/110V & 220V/v3 // 110V/v3 TO 66kV/v3 // 110V/v3
367	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	TEST FOR ACCURACY	CL. NO. 7.3.5 OF IS 16227 (PART 3): 2015	220V TO 33kV/110V & 220V/v3 // 110V/v3 TO 66kV/v3 // 110V/v3
368	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	VERIFICATION OF MARKINGS	CL. NO. 7.3.6 OF IS 16227 (PART 1): 2016	Qualitative
369	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL / VOLTAGE TRANSFORMERS	VERIFICATION OF MARKINGS	CL. NO. 7.3.6 OF IEC 61869 - 1: 2007	Qualitative
370	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL TRANSFORMER	DETERMINATION OF ERRORS ACCORDING TO THE REQUIREMENTS OF APPROPRIATE ACCURACY CLASS	IS 3156 (Part2), Cl. No. 8.1.1 & 8.2.1 & IS 3156 (Part3), Cl.No. 10.1.1.2 & 10.1.2.1: 1992	0.05 % R.E. to 10 % R.E.



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
371	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL TRANSFORMER	DETERMINATION OF ERRORS ACCORDING TO THE REQUIREMENTS OF APPROPRIATE ACCURACY CLASS	IS 3156 (Part2), Cl. No. 8.1.1 & 8.2.1 & IS 3156 (Part3), Cl.No. 10.1.1.2 & 10.1.2.1: 1992	0.05 %R.E. to 10 % R.E.
372	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL TRANSFORMER	DETERMINATION OF ERRORS ACCORDING TO THE REQUIREMENTS OF APPROPRIATE ACCURACY CLASS	IS 3156 (Part2), Cl. No. 8.1.1 & 8.2.1 & IS 3156 (Part3), Cl.No. 10.1.1.2 & 10.1.2.1: 1992	0.05 % R.E. to 10 % R.E.
373	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL TRANSFORMER	DETERMINATION OF ERRORS ACCORDING TO THE REQUIREMENTS OF APPROPRIATE ACCURACY CLASS	IS 3156 (Part2), Cl. No. 8.1.1 & 8.2.1 & IS 3156 (Part3), Cl.No. 10.1.1.2 & 10.1.2.1: 1992	0.1 MIN to 199 MIN. (P.A.E.)
374	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL TRANSFORMER	DETERMINATION OF ERRORS ACCORDING TO THE REQUIREMENTS OF APPROPRIATE ACCURACY CLASS	IS 3156 (Part2), Cl. No. 8.1.1 & 8.2.1 & IS 3156 (Part3), Cl.No. 10.1.1.2 & 10.1.2.1: 1992	0.1 MIN to 199 MIN. (P.A.E.)
375	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL TRANSFORMER	DETERMINATION OF ERRORS ACCORDING TO THE REQUIREMENTS OF APPROPRIATE ACCURACY CLASS	IS 3156 (Part 2), Cl. No. 8.1.1 & 8.2.1, IS 3156 (Part3), Cl. No. 10.1.1.2 & 10.1.2.1: 1992	0.1 Min. (P.A.E.) to 199 Min (P.A.E.)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
376	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL TRANSFORMER	HIGH VOLTAGE POWER FREQUENCY TEST (ON SECONDARY SIDE)	IS 3156 (Part 1), Cl. No. 9.4: 1992	1 kV AC to 5 kV AC
377	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	POTENTIAL TRANSFORMER	VERIFICATION OF TERMINAL MARKING & POLARITY	IS 3156(Part 1) , Cl. No.9.2: 1992	Qualitative