

## BUREAU OF INDIAN STANDARDS

### Program of Work

#### ETD 12 : Measuring Equipment For Basic Electrical Quantities

**Scope:** To prepare standards for direct and indirect acting analogue and digital indicating and recording instruments and their accessories, also transducers having electrical inputs and outputs for measuring electrical quantities by any method on direct current and alternating current at distribution system frequencies and their harmonics To prepare standards for primary reference apparatus, operating on direct current and alternating current at distribution frequencies and their harmonics for the purpose of measurement, traceability and intercomparison

**Liaison:** **IEC TC-85 (P):** *Measuring equipment for electrical and electromagnetic quantities*

### Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10659 : 1983 IEC 60564 <span style="color: green;">Reviewed In : 2017</span> <span style="color: green;">IEC 60564: 1977</span>	Specification for DC bridges for measuring resistance		-	Modified/Technically Equivalent
2	IS 11067 : 1984 <span style="color: green;">Reviewed In : 2017</span>	Specification for DC standard resistors		-	Indigenous
3	IS 11212 : 1985 <span style="color: green;">Reviewed In : 2017</span>	Specification for direct current resistive volt ratio boxes		-	Indigenous
4	IS 11287 : 2023	Bridge Insulations Testers (Magneto Generator Type) - Specification (First Revision)		-	Indigenous
5	IS 12312 : 2020 IEC 618 : 1978 <span style="color: green;">IEC 60618 : 1978+AMD</span>	Inductive Voltage Dividers ( First Revision )	-	-	Identical under dual numbering
6	IS 1248 (Part 1) : 2021 IEC 60051-1: 2016 <span style="color: green;">IEC 60051-1: 2016</span>	Direct Acting Indicating Analogue Electrical Measuring Instruments and their Accessories Part 1 Definitions and General Requirements ( Fifth Revision )		-	Identical under dual numbering
7	IS 1248 (Part 2) : 2021 60051-2: 2018 <span style="color: green;">IEC 60051-2: 2018</span>	Direct Acting Indicating Analogue Electrical Measuring Instruments and their Accessories Part 2 Special Requirements for Ammeters and Voltmeters ( Fourth Revision )		-	Identical under dual numbering
8	IS 1248 (Part 3) : 2021 60051-3: 2018, <span style="color: green;">IEC 60051-3: 2018</span>	Direct Acting Indicating Analogue Electrical Measuring Instruments and their Accessories Part 3 Special Requirements for Wattmeters and Varmeters ( Fourth Revision )		-	Identical under dual numbering

9	IS 1248 (Part 4) : 2021 60051-4: 2018 IEC 60051-4: 2018	Direct Acting Indicating Analogue Electrical Measuring Instruments and their Accessories Part 4 Special Requirements for Frequency Meters ( Fourth Revision )		-	Identical under dual numbering
10	IS 1248 (Part 5) : 2021 60051-5: 2018 IEC 60051-5: 2018	Direct Acting Indicating Analogue Electrical Measuring Instruments and their Accessories Part 5 Special Requirements for Phase Meters, Power Factor Meters and Synchrosopes ( Fourth Revision )		-	Identical under dual numbering
11	IS 1248 (Part 6) : 2021 60051-6:2017 IEC 60051-6:2017	Direct Acting Indicating Analogue Electrical Measuring Instruments and their Accessories Part 6 Special Requirements for Ohmmeters ( Impedance meters ) and Conductance Meters (Fourth Revision)		-	Identical under dual numbering
12	IS 1248 (Part 7) : 2021 60051-7: 2017 IEC 60051-7: 2017	Direct Acting Indicating Analogue Electrical Measuring Instruments and their Accessories Part 7 Special Requirements for Multi- Function Instruments ( Fourth Revision )		-	Identical under dual numbering
13	IS 1248 (Part 8) : 2021 60051-8: 2017 IEC 60051-8: 2017	Direct Acting Indicating Analogue Electrical Measuring Instruments and their Accessories Part 8 Special Requirements for Accessories ( Fourth Revision )		-	Identical under dual numbering
14	IS 1248 (Part 9) : 2021 60051-9:2019 IEC 60051-9: 2019	Direct Acting Indicating Analogue Electrical Measuring Instruments and their Accessories Part 9 Recommended Test Methods (Fourth Revision)		-	Identical under dual numbering
15	IS 14570 : 2021 60688: 2012 IEC 60688:2021	Electrical Measuring Transducers for Converting A.C and D.C Electrical Quantities to Analogue or Digital Signals (Second Revision)		-	Identical under dual numbering
16	IS 14570 : 2024 IEC 60688:2021 IEC 60688:2021	Electrical Measuring Transducers for Converting A.C and D.C Electrical Quantities to Analogue or Digital Signals (Third Revision)		-	Identical under dual numbering
17	IS 14571 : 1998 IEC 1028 (1991) Reviewed In : 2018 IEC 1028 (1991)	Electrical measuring instruments - X - Y recorders		1	Identical under dual numbering
18	IS 1765 : 2020 IEC 60523 : 1975 + Amend 1 + Amend 2 (1997) 60523	Direct-Current Potentiometers ( ) Third Revision )		-	Identical under dual numbering
19	IS 2419 : 2012 IEC 60473(74) Reviewed In : 2024 IEC 61554 : 1999	Panel mounted equipment - Electrical measuring instrument - Dimensions for panel mounting (Second Revision)	April, 2024	-	Identical under dual numbering
20	IS 2442 : 2023	D.C. Moving Coil Galvanometers - Specification (First Revision)		-	Indigenous

21	IS 3602 : 1966 Reviewed In : 2017 B.S. 3693 ( Part-1)- 1964	Recommendations for the design of scales and indexes for indicating instruments for scales of 1 to 2 percent resolution		-	Modified/Technically Equivalent
22	IS 3635 : 1966 Reviewed In : 2020	Methods of test for resistance of metallic electrical resistance material	March, 2020	-	Indigenous
23	IS 3636 : 1966 Reviewed In : 2020 se only, New	Method of test for temperature coefficient of precision resistor wires	March, 2020	-	Modified/Technically Equivalent
24	IS/IEC 61010-2- 020 : 2016 IEC 61010-2-020 : 2016 Reviewed In : 2024 IEC 61010-20 : 2016	Safety requirements for electrical equipment for measurement, control, and laboratory use: Part 2 - 020 particular requirements for laboratory centrifuges	August, 2024	-	Identical under single numbering
25	IS/IEC 61557-1 : 2019 61557 : Part 1: 2019 IEC 61557 : Part 1: 2019	Electrical Safety in Low Voltage Distribution Systems Up to 1 000 V a.c. and 1 500 V d.c. - Equipment for Testing, Measuring or Monitoring of Protective Measures Part 1 General Requirements ( First Revision )		-	Identical under single numbering
26	IS/IEC 61557-2 : 2019 61557 : Part 2: 2019 IEC 61557 : Part 2: 2019	Electrical Safety in Low Voltage Distribution Systems Up to 1 000 V a.c. and 1 500 V d.c. - Equipment for Testing, Measuring or Monitoring of Protective Measures Part 2 Insulation Resistance ( First Revision )		-	Identical under single numbering
27	IS/IEC 61557-3 : 2019 IEC 61557-3: 2019 IEC 61557-3: 2019	Electrical Safety in Low Voltage Distribution Systems up to 1 000 V a.c. and 1 500 V d.c. - Equipment for Testing, Measuring or Monitoring of Protective Measures Part 3 Loop Impedance		-	Identical under single numbering
28	IS/IEC 61557-4 : 2019 IEC 61557-4 : 2019 IEC 61557-4 : 2019	Electrical safety in low voltage distribution systems up to 1 000 V ac and 1 500 V dc Equipment for testing measuring or monitoring of protective measures Part 4: Resistance of earth connection and equipotential bonding		-	Identical under single numbering
29	IS/IEC 61557-5 : 2019 IEC 61557-5 : 2019 IEC 61557-5 : 2019	Electrical Safety in Low Voltage Distribution Systems up to 1 000 V a.c. and 1 500 V d.c. - Equipment for Testing, Measuring or Monitoring of Protective Measures Part 5 Resistance to Earth (First Revision)		-	Identical under single numbering
30	IS/IEC 61557-5 : 2007 IEC 61557 : Part 5:2007 Reviewed In : 2017 IEC 61557-5 : 2019	Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. - Equipment for testing, measuring or monitoring of protective measures: Part 5 resistance to earth		-	Identical under single numbering
31	IS/IEC 61557-6 : 2019 IEC 61557-6:2019	Electrical Safety in Low Voltage Distribution Systems up to 1 000 V a.c. and 1 500 V d.c. - Equipment		-	Identical under single numbering

	IEC 61557-6:2019	for Testing, Measuring or Monitoring of Protective Measures Part 6 Effectiveness of Residual Current Devices (RCD) in TT, TN and IT Systems			
32	IS/IEC 61557-7 : 2019 IEC 61557-7:2019 IEC 61557-7:2019	Electrical Safety in Low Voltage Distribution Systems up to 1 000 V ac and 1 500 V dc Equipment for Testing Measuring or Monitoring of Protective Measures Part 7 Phase Sequence		-	Identical under single numbering
33	IS/IEC 61557-8 : 2014 IEC 61557-8:2014 IEC 61557-8:2014	Electrical Safety in Low Voltage Distribution Systems up to 1 000 V ac and 1 500 V dc Equipment for Testing Measuring or Monitoring of Protective Measures Part 8: Insulation Monitoring Devices for IT Systems		-	Identical under single numbering
34	IS/IEC 61557-10 : 2013 IEC 61557-10: 2013 IEC 61557-10: 2013	Electrical Safety in Low voltage Distribution Systems up to 1 000 V a.c and 1 500 V d.c Equipment for Testing Measuring or Monitoring of Protective Measures Part 10: Combined Measuring Equipment for Testing Measuring or Monitoring of Protective Measures		-	Identical under single numbering
35	IS/IEC 61557-11 : 2020 IEC 61557 i½ 11 : 2020 IEC 61557 - 11 : 2020	Electrical Safety in Low Voltage Distribution Systems up to 1 000 V a.c. and 1 500 V d.c. - Equipment for Testing, Measuring or Monitoring of Protective Measures Part 11 Effectiveness of Residual Current Monitors (RCM) In TT, TN and IT Systems		-	Identical under single numbering
36	IS/IEC 61557-12 : 2018 IEC 61557 i½ 12 : 2018 IEC 61557 - 12 : 2018	Electrical Safety in Low Voltage Distribution Systems up to 1 000 V a.c. and 1 500 V d.c. - Equipment for Testing, Measuring or Monitoring of Protective Measures Part 12 Power Metering and Monitoring Devices (PWD)		-	Identical under single numbering
37	IS/IEC 61557-13 : 2023 IEC 61557 i½ 13 : 2023 IEC 61557 – 13 : 2023	Electrical Safety in Low Voltage Distribution Systems Up to 1 000 V a.c and 1 500 V d.c Equipment for Testing Measuring or Monitoring of Protective Measures- Part 13 Hand- Held and Hand-Manipulated Current Clamps and Sensors for Measurement of Leakage Currents in Electrical Distribution Systems		-	Identical under single numbering
38	IS/IEC 61557-14 : 2023 IEC 61557 i½ 14 : 2023 IEC 61557 - 14 : 2023	Electrical Safety in Low Voltage Distribution Systems Up To 1 000 V ac and 1 500 V dc Equipment for Testing Measuring or Monitoring of Protective Measures Part 14 Equipment for testing the safety of electrical equipment for machinery		-	Identical under single numbering

39	IS/IEC 61557-15 : 2014 IEC 61557-15 : 2014 IEC 61557-15 : 2014	Electrical Safety in Low Voltage Distribution Systems up to 1 000 V a.c. and 1 500 V d.c. - Equipment for Testing, Measuring or Monitoring of Protective Measures Part 15 Functional Safety Requirements for Insulation Monitoring Devices in IT Systems and Equipment for Insulation Fault Location in IT Systems		-	Identical under single numbering
40	IS/IEC 61557-16 : 2023 IEC 61557-16:2023 IEC 61557-16:2023	Electrical Safety in Low Voltage Distribution Systems up to 1 000 V a.c. and 1 500 V d.c. - Equipment for Testing, Measuring or Monitoring of Protective Measures Part 16 Equipment for Testing the Effectiveness of the Protective Measures of Electrical Equipment and/or Medical Electrical Equipment		-	Identical under single numbering
41	IS/IEC 61557-17 : 2021 IEC 61557-17 : 2021 IEC 61557-17 : 2021	Electrical Safety in Low Voltage Distribution Systems up to 1 000 V a.c. and 1 500 V d.c. - Equipment for Testing, Measuring or Monitoring of Protective Measures Part 17 Non-Contact a.c. Voltage Indicators		-	Identical under single numbering
42	IS 6236 : 2020 IEC 258 : 1968 IEC 60258 : 1968+AMD	Direct Recording Electrical Measuring Instruments and Their Accessories ( First Revision )	-	-	Identical under dual numbering
43	IS/IEC 62586-1 : 2017 62586-1:2017 62586-1:2017	Power Quality Measurement in Power Supply Systems Part 1 Power Quality Instruments (Pqi)		-	Identical under single numbering
44	IS/IEC 62586-2 : 2017 62586-2:2017 62586-2:2017	Power Quality Measurement in Power Supply Systems Part 2: Functional tests and uncertainty requirements		-	Identical under single numbering
45	IS 7889 : 2023	Vibration Galvanometers - Specification (First Revision)		-	Indigenous
46	IS 7890 : 2023	Ballistic Galvanometers - Specification (First Revision)		-	Indigenous
47	IS 8143 : 2023	Plugs and Keys for Resistance Boxes - Specification (First Revision)		-	Indigenous
48	IS 8160 : 2023	Tangent Galvanometers - Specification ( First Revision )		-	Indigenous
49	IS 8197 : 1976 Reviewed In : 2020	Terminal markings for electrical measuring instruments and their accessories	March, 2020	-	Indigenous
50	IS 8525 : 1977 Reviewed In : 2017	Recommendations for design of linear scales and indexes for indicating instruments to be read to 0.33 - 1.25 percent resolution		-	Indigenous
51	IS 9051 : 2023	Rheostats - Specification (First Revision)		-	Indigenous
52	IS 9249 (Part 1) : 1979	Safety requirements for indicating and recording electrical measuring		-	Modified/Technically Equivalent

	iec 60414 Reviewed In : 2017 IEC Pub 414 ( 1973)	instruments and their accessories: Part 1 common safety requirements for instruments		
53	IS 9249 (Part 2) : 1982 iec 60414 Reviewed In : 2017 IEC 60414 : 1973	Safety requirementsfor indicating and recording electrical measuring instruments and their accessories: Part 2 safety requirements or instruments for instruments using a mains supply		- Modified/Technically Equivalent

### Standards under Development

#### Projects Approved

SI. No.	Doc No.	Title
<i>No Records Found</i>		

#### Preliminary Draft Standards

SI. No.	Doc No.	Title
<i>No Records Found</i>		

#### Drafts Standards in WC Stage

SI. No.	Doc No.	Title
<i>No Records Found</i>		

#### Draft Standards Completed WC Stage

SI. No.	Doc No.	Title
<i>No Records Found</i>		

#### Finalized Draft Indian Standard

SI. No.	Doc No.	Title
<i>No Records Found</i>		

#### Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
1	ETD 12 (24306)	Electrical Safety in Low Voltage Distribution Systems up to 1 000 V A C and 1 500 V D C Equipment for Testing Measuring or Monitoring of Protective Measures Part 9 Equipment for Insulation Fault Location in IT Systems

**Total Published Standards:36 Total Standards Under development:1**

### Aspect Wise Report

Product : 40  
Code of Practices : 0  
Methods of Test : 5  
Terminology : 0  
Dimensions : 1  
System Standard : 0  
Safety Standard : 0  
Others : 5  
Service Specification : 0

**Annexure-I :List of Indian Standards Withdrawn/Superseded**

Sl. No.	IS No. & Year	Title
1	IS 11576 : 1986 Reviewed In : 1991	Barlow s wheel
2	IS 11599 : 1986 Reviewed In : 2002	Portable ac clip-on-ammeters
3	IS 11994 : 1986 Reviewed In : 2017	Code of practice for use of screed board concrete vibrators
4	IS 12784 (Part 1) : 1989 Reviewed In : 2005	Electrical Measuring Transducers For Converting Ac Electrical Quantities Into Dc Electrical Quantities Part 1 General Purpose Transducers
5	IS 1565 : 1966	Electrical Apparatus Comprising Resistors revised
6	IS 2992 : 1987 Reviewed In : 2015	Insulation resistance testers hand operated magneto generator type
7	IS H2992 : 1987 Reviewed In : 2010	Insulation resistance testers hand operated magneto generator type HINDI
8	IS 3107 : 1974 Reviewed In : 2010	Portable multi purpose direct acting electrical indicating instruments
9	IS 7914 : 1975 iec 60428 Reviewed In : 2015	Standard Cells
10	IS 9223 : 1989 iec 61557 Reviewed In : 2015	Portable Earth Resistance Meters

**Annexure-II :List of Indian Product Standards**

Sl. No.	IS No. & Year	Title
1	IS 10659 : 1983 IEC 60564 Reviewed In : 2017 IEC 60564: 1977	Specification for DC bridges for measuring resistance
2	IS 11067 : 1984 Reviewed In : 2017	Specification for DC standard resistors
3	IS 11212 : 1985 Reviewed In : 2017	Specification for direct current resistive volt ratio boxes
4	IS 11287 : 2023	Bridge Insulations Testers Magneto Generator Type - Specification First Revision
5	IS 12312 : 2020 IEC 618 : 1978 IEC 60618 : 1978+AMD	Inductive Voltage Dividers First Revision
6	IS 1248 (Part 1) : 2021 IEC 60051-1: 2016 ISO 8274: 2005	Direct Acting Indicating Analogue Electrical Measuring Instruments and their Accessories Part 1 Definitions and General Requirements Fifth Revision
7	IS 1248 (Part 2) : 2021 60051-2: 2018 ISO 15099: 2003	Direct Acting Indicating Analogue Electrical Measuring Instruments and their Accessories Part 2 Special Requirements for Ammeters and Voltmeters Fourth Revision
8	IS 1248 (Part 3) : 2021 60051-3: 2018, ISO 13314 : 2011	Direct Acting Indicating Analogue Electrical Measuring Instruments and their Accessories Part 3 Special Requirements for Wattmeters and Varmeters Fourth Revision
9	IS 1248 (Part 4) : 2021 60051-4: 2018 ISO/IEC 10561:1999	Direct Acting Indicating Analogue Electrical Measuring Instruments and their Accessories Part 4 Special Requirements for Frequency Meters Fourth Revision
10	IS 1248 (Part 5) : 2021	Direct Acting Indicating Analogue Electrical Measuring Instruments and their Accessories Part 5

	60051-5: 2018 ISO/IEC 18000-2	Special Requirements for Phase Meters Power Factor Meters and Synchrosopes Fourth Revision
11	IS 1248 (Part 6) : 2021 60051-6:2017 ISO/IEC 18000-3:2010	Direct Acting Indicating Analogue Electrical Measuring Instruments and their Accessories Part 6 Special Requirements for Ohmmeters Impedance meters and Conductance Meters Fourth Revision
12	IS 1248 (Part 7) : 2021 60051-7: 2017 ISO/IEC 18000-4:2018	Direct Acting Indicating Analogue Electrical Measuring Instruments and their Accessories Part 7 Special Requirements for Multi-Function Instruments Fourth Revision
13	IS 1248 (Part 8) : 2021 60051-8: 2017 ISO/IEC 18000-6:2013	Direct Acting Indicating Analogue Electrical Measuring Instruments and their Accessories Part 8 Special Requirements for Accessories Fourth Revision
14	IS 14570 : 2024 IEC 60688:2021	Electrical Measuring Transducers for Converting A C and D C Electrical Quantities to Analogue or Digital Signals Third Revision
15	IS 14571 : 1998 IEC 1028 (1991) Reviewed In : 2018 IEC 1028 (1991)	Electrical measuring instruments - X - Y recorders
16	IS 1765 : 2020 IEC 60523 : 1975 + Amend 1 + Amend 2 (1997) 60523	Direct-Current Potentiometers Third Revision
17	IS 2442 : 2023	D C Moving Coil Galvanometers - Specification First Revision
18	IS/IEC 61010-2- 020 : 2016 IEC 61010-2-020 : 2016 Reviewed In : 2024 IEC 61010-20 : 2016	Safety requirements for electrical equipment for measurement control and laboratory use Part 2 - 020 particular requirements for laboratory centrifuges
19	IS/IEC 61557-1 : 2019 61557 : Part 1: 2019 ISO 12866: 1999 + AMD 1: 2008	Electrical Safety in Low Voltage Distribution Systems Up to 1 000 V a c and 1 500 V d c - Equipment for Testing Measuring or Monitoring of Protective Measures Part 1 General Requirements First Revision
20	IS/IEC 61557-3 : 2019 IEC 61557-3: 2019	Electrical Safety in Low Voltage Distribution Systems up to 1 000 V a c and 1 500 V d c - Equipment for Testing Measuring or Monitoring of Protective Measures Part 3 Loop Impedance
21	IS/IEC 61557-4 : 2019 IEC 61557-4 : 2019	Electrical safety in low voltage distribution systems up to 1 000 V ac and 1 500 V dc Equipment for testing measuring or monitoring of protective measures Part 4 Resistance of earth connection and equipotential bonding
22	IS/IEC 61557-5 : 2019 IEC 61557-5 : 2019	Electrical Safety in Low Voltage Distribution Systems up to 1 000 V a c and 1 500 V d c - Equipment for Testing Measuring or Monitoring of Protective Measures Part 5 Resistance to Earth First Revision
23	IS/IEC 61557-6 : 2019 IEC 61557-6:2019	Electrical Safety in Low Voltage Distribution Systems up to 1 000 V a c and 1 500 V d c - Equipment for Testing Measuring or Monitoring of Protective Measures Part 6 Effectiveness of Residual Current Devices RCD in TT TN and IT Systems
24	IS/IEC 61557-7 : 2019 IEC 61557-7:2019	Electrical Safety in Low Voltage Distribution Systems up to 1 000 V ac and 1 500 V dc Equipment for Testing Measuring or Monitoring of Protective Measures Part 7 Phase Sequence
25	IS/IEC 61557-8 : 2014 IEC 61557-8:2014	Electrical Safety in Low Voltage Distribution Systems up to 1 000 V ac and 1 500 V dc Equipment for Testing Measuring or Monitoring of Protective Measures Part 8 Insulation Monitoring Devices for IT Systems
26	IS/IEC 61557-10 : 2013 IEC 61557-10: 2013	Electrical Safety in Low voltage Distribution Systems up to 1 000 V a c and 1 500 V d c Equipment for Testing Measuring or Monitoring of Protective Measures Part 10 Combined Measuring Equipment for Testing Measuring or Monitoring of Protective Measures
27	IS/IEC 61557-11 : 2020 IEC 61557 i <sub>c</sub> /2 11 : 2020	Electrical Safety in Low Voltage Distribution Systems up to 1 000 V a c and 1 500 V d c - Equipment for Testing Measuring or Monitoring of Protective Measures Part 11 Effectiveness of Residual Current Monitors RCM In TT TN and IT Systems
28	IS/IEC 61557-12 : 2018 IEC 61557 i <sub>c</sub> /2 12 : 2018	Electrical Safety in Low Voltage Distribution Systems up to 1 000 V a c and 1 500 V d c - Equipment for Testing Measuring or Monitoring of Protective Measures Part 12 Power Metering and Monitoring Devices PWD



29	IS/IEC 61557-13 : 2023 IEC 61557 i <sub>6</sub> ½ 13 : 2023	Electrical Safety in Low Voltage Distribution Systems Up to 1 000 V a c and 1 500 V d c Equipment for Testing Measuring or Monitoring of Protective Measures- Part 13 Hand- Held and Hand-Manipulated Current Clamps and Sensors for Measurement of Leakage Currents in Electrical Distribution Systems
30	IS/IEC 61557-14 : 2023 IEC 61557 i <sub>6</sub> ½ 14 : 2023	Electrical Safety in Low Voltage Distribution Systems Up To 1 000 V ac and 1 500 V dc Equipment for Testing Measuring or Monitoring of Protective Measures Part 14 Equipment for testing the safety of electrical equipment for machinery
31	IS/IEC 61557-15 : 2014 IEC 61557 i <sub>6</sub> ½ 15 : 2014	Electrical Safety in Low Voltage Distribution Systems up to 1 000 V a c and 1 500 V d c - Equipment for Testing Measuring or Monitoring of Protective Measures Part 15 Functional Safety Requirements for Insulation Monitoring Devices in IT Systems and Equipment for Insulation Fault Location in IT Systems
32	IS/IEC 61557-16 : 2023 IEC 61557-16:2023	Electrical Safety in Low Voltage Distribution Systems up to 1 000 V a c and 1 500 V d c - Equipment for Testing Measuring or Monitoring of Protective Measures Part 16 Equipment for Testing the Effectiveness of the Protective Measures of Electrical Equipment and or Medical Electrical Equipment
33	IS/IEC 61557-17 : 2021 IEC 61557-17 : 2021	Electrical Safety in Low Voltage Distribution Systems up to 1 000 V a c and 1 500 V d c - Equipment for Testing Measuring or Monitoring of Protective Measures Part 17 Non-Contact a c Voltage Indicators
34	IS 6236 : 2020 IEC 258 : 1968 IEC 60258 : 1968+AMD	Direct Recording Electrical Measuring Instruments and Their Accessories First Revision
35	IS/IEC 62586-1 : 2017 62586-1:2017	Power Quality Measurement in Power Supply Systems Part 1 Power Quality Instruments Pqi
36	IS 7889 : 2023	Vibration Galvanometers - Specification First Revision
37	IS 7890 : 2023	Ballistic Galvanometers - Specification First Revision
38	IS 8143 : 2023	Plugs and Keys for Resistance Boxes - Specification First Revision
39	IS 8160 : 2023	Tangent Galvanometers - Specification First Revision
40	IS 9051 : 2023	Rheostats - Specification First Revision