

## 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<br>IEC 60564<br><span style="color: green;">Reviewed In : 2017<br/>IEC Publication 564<br/>( 1977 )</span> | Specification for DC bridges for measuring resistance  |              | -           | Modified/Technically Equivalent |
| 2    | IS 11067 : 1984<br><span style="color: green;">Reviewed In : 2017</span>   | Specification for DC standard resistors  |              | -           | Indigenous                      |
| 3    | IS 11212 : 1985<br><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) $i_c^{1/2}$ Specification (First Revision)   |              | -           | Indigenous                      |
| 5    | IS 12312 : 2020<br>IEC 618 : 1978<br><span style="color: green;">IEC 60618 :<br/>1978+AMD</span>                           | Inductive Voltage Dividers ( First Revision )  | -            | -           | Identical under dual numbering  |
| 6    | IS 1248 (Part 1) :<br>2021<br>IEC 60051-1: 2016<br><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 common to all parts Fifth Revision |              | -           | Identical under dual numbering  |
| 7    | IS 1248 (Part 2) :<br>2021<br>60051-2: 2018<br><span style="color: green;">60051-2: 2018</span>                            | Direct acting indicating analogue electrical measuring instruments and their accessories Part 2: Special requirements for ammeters and voltmeters                        |              | -           | Identical under dual numbering  |
| 8    | IS 1248 (Part 3) :<br>2021<br>60051-3: 2018,<br><span style="color: green;">60051-3: 2018,</span>                          | Direct acting indicating analogue electrical measuring instruments and their accessories Part 3: Special requirements for wattmeters and varimeters                      |              | -           | Identical under dual numbering  |

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|----|--|---|-------------|---|---------------------------------|
| 9  | IS 1248 (Part 4) :<br>2021<br>60051-4: 2018<br>60051-4: 2018                 | Direct acting indicating analogue electrical measuring instruments and their accessories title Part 4: Special requirements for frequency meters                            |             | - | Identical under dual numbering  |
| 10 | IS 1248 (Part 5) :<br>2021<br>60051-5: 2018<br>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 |             | - | Identical under dual numbering  |
| 11 | IS 1248 (Part 6) :<br>2021<br>60051-6:2017<br>60051-6:2017                   | DIRECT ACTING INDICATING ANALOGUE ELECTRICAL MEASURING INSTRUMENTS AND THEIR ACCESSORIES Part 6: Special requirements for ohmmeters impedance meters and conductance meters |             | - | Identical under dual numbering  |
| 12 | IS 1248 (Part 7) :<br>2021<br>60051-7: 2017<br>60051-7: 2017                 | Direct acting indicating analogue electrical measuring instruments and their accessories Part 7: Special requirements for multi-function instruments                        |             | - | Identical under dual numbering  |
| 13 | IS 1248 (Part 8) :<br>2021<br>60051-8: 2017<br>60051-8: 2017                 | Direct acting indicating analogue electrical measuring instruments and their accessories Part 8: Special requirements for accessories                                       |             | - | Identical under dual numbering  |
| 14 | IS 1248 (Part 9) :<br>2021<br>60051-9:2019<br>60051-9:2019                   | Direct acting indicating analogue electrical measuring instruments and their accessories Part 9: Recommended test methods   |             | - | Identical under dual numbering  |
| 15 | IS 14570 : 2021<br>60688: 2012<br>60688: 2012                                | ELECTRICAL MEASURING TRANSDUCERS FOR CONVERTING AC AND DC ELECTRICAL QUANTITIES TO ANALOGUE OR DIGITAL SIGNALS  |             | - | Identical under dual numbering  |
| 16 | IS 14571 : 1998<br>IEC 1028 (1991)<br>Reviewed In : 2018<br>IEC 1028 (1991)  | Electrical measuring instruments - X - Y recorders  |             | 1 | Identical under dual numbering  |
| 17 | IS 1765 : 2020<br>IEC 60523 : 1975 +<br>Amend 1 + Amend 2<br>(1997)<br>60523 | Direct-Current Potentiometers ( Third Revision )  |             | - | Identical under dual numbering  |
| 18 | IS 2419 : 2012<br>IEC 60473(74)<br>Reviewed In : 2024<br>IEC 61554 : 1999    | Panel mounted equipment - Electrical measuring instrument - Dimensions for panel mounting (Second Revision)   | April, 2024 | - | Identical under dual numbering  |
| 19 | IS 2442 : 2023   | D.C. Moving Coil Galvanometers $i_c^{1/2}$ Specification (First Revision)   |             | - | Indigenous                      |
| 20 | IS 2442 : 1963<br>Reviewed In : 2020   | Specification for DC moving coil galvanometers  | March, 2020 | 1 | Indigenous                      |
| 21 | IS 3602 : 1966<br>Reviewed In : 2017<br>B.S. 3693 ( Part-1)-<br>1964         | Recommendations for the design of scales and indexes for indicating instruments for scales of 1 to 2 percent resolution   |             | - | Modified/Technically Equivalent |

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|----|---|---|-------------|---|----------------------------------|
| 22 | IS 3635 : 1966<br>Reviewed In : 2020  | Methods of test for resistance of metallic electrical resistance material   | March, 2020 | - | Indigenous                       |
| 23 | IS 3636 : 1966<br>Reviewed In : 2020<br>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<br>IEC 61010-2-020 : 2016<br>Reviewed In : 2024<br>IEC 61010-20 : 2016 | Safety requirements for electrical equipment for measurement, control, and laboratory use: Part 2 - 020 particular requirements for laboratory centrifuges  | July, 2024  | - | Identical under single numbering |
| 25 | IS/IEC 61557-1 : 2019<br>61557 : Part 1: 2019<br>61557 : Part 1: 2019                             | ELECTRICAL SAFETY IN LOW VOLTAGE DISTRIBUTION SYSTEMS UP TO 1000 V AC AND 1500 V DC - EQUIPMENT FOR TESTING MEASURING OR MONITORING OF PROTECTIVE MEASURES: PART 1 GENERAL REQUIREMENTS   |             | - | Identical under single numbering |
| 26 | IS/IEC 61557-2 : 2019<br>61557 : Part 2: 2019<br>61557 : Part 2: 2019                             | ELECTRICAL SAFETY IN LOW VOLTAGE DISTRIBUTION SYSTEMS UP TO 1000 V AC AND 1500 V DC - EQUIPMENT FOR TESTING MEASURING OR MONITORING OF PROTECTIVE MEASURES: PART 2 INSULATION RESISTANCE  |             | - | Identical under single numbering |
| 27 | IS/IEC 61557-3 : 2019<br>IEC 61557-3: 2019<br>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<br>IEC 61557-4 : 2019<br>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 : 2007<br>IEC 61557 : Part 5:2007<br>Reviewed In : 2017<br>IEC 61557 : Part 5      | 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 |
| 30 | IS/IEC 61557-6 : 2019<br>IEC 61557-6:2019<br>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 |             | - | Identical under single numbering |
| 31 | IS/IEC 61557-7 : 2019   | Electrical Safety in Low Voltage Distribution Systems up to 1 000 V   |             | - | Identical under single numbering |

|    |   |   |             |   |                                  |
|----|---|---|-------------|---|----------------------------------|
|    | IEC 61557-7:2019<br>IEC 61557-7:2019  | ac and 1 500 V dc Equipment for Testing Measuring or Monitoring of Protective Measures Part 7 Phase Sequence  |             |   |                                  |
| 32 | IS 6236 : 2020<br>IEC 258 : 1968<br>IEC 60258 : 1968+AMD                          | Direct Recording Electrical Measuring Instruments and Their Accessories ( First Revision )  | -           | - | Identical under dual numbering   |
| 33 | IS/IEC 62586-1 : 2017<br>62586-1:2017<br>62586-1:2017                             | Power Quality Measurement in Power Supply Systems Part 1 Power Quality Instruments (Pqi)  |             | - | Identical under single numbering |
| 34 | IS/IEC 62586-2 : 2017<br>62586-2:2017<br>62586-2:2017                             | Power Quality Measurement in Power Supply Systems Part 2: Functional tests and uncertainty requirements   |             | - | Identical under single numbering |
| 35 | IS 7889 : 1975<br>Reviewed In : 2020  | Specification for vibration galvanometers   | March, 2020 | - | Indigenous                       |
| 36 | IS 7889 : 2023  | Vibration Galvanometers $i_c^{1/2}$ Specification (First Revision)  |             | - | Indigenous                       |
| 37 | IS 7890 : 2023  | Ballistic Galvanometers $i_c^{1/2}$ Specification (First Revision)  |             | - | Indigenous                       |
| 38 | IS 8143 : 2023  | Plugs and Keys for Resistance Boxes $i_c^{1/2}$ Specification (First Revision)  |             | - | Indigenous                       |
| 39 | IS 8160 : 2023  | Tangent Galvanometers $i_c^{1/2}$ Specification ( First Revision )  |             | - | Indigenous                       |
| 40 | IS 8197 : 1976<br>Reviewed In : 2020  | Terminal markings for electrical measuring instruments and their accessories  | March, 2020 | - | Indigenous                       |
| 41 | IS 8525 : 1977<br>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                       |
| 42 | IS 9051 : 2023  | Rheostats $i_c^{1/2}$ Specification (First Revision)  |             | - | Indigenous                       |
| 43 | IS 9249 (Part 1) : 1979<br>iec 60414<br>Reviewed In : 2017<br>IEC Pub 414 ( 1973) | Safety requirements for indicating and recording electrical measuring instruments and their accessories: Part 1 common safety requirements for instruments                              |             | - | Modified/Technically Equivalent  |
| 44 | IS 9249 (Part 2) : 1982<br>iec 60414<br>Reviewed In : 2017<br>IEC Pub 414 ( 1973) | Safety requirements for 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 |
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No Records Found

### Drafts Standards in WC Stage

| SI. No.          | Doc No. | Title |
|------------------|---------|-------|
| No Records Found |         |       |

### Draft Standards Completed WC Stage

| SI. No. | Doc No.        | Title   |
|---------|----------------|---|
| 1       | ETD 12 (24306) | Electrical safety in low voltage distribution systems up to 1000 V ac and 1500 V dc Equipment for testing measuring or monitoring of protective measures Part 9 Equipment for insulation fault location in IT systems |

### Finalized Draft Indian Standard

| SI. No.          | Doc No. | Title |
|------------------|---------|-------|
| No Records Found |         |       |

### Finalized Draft Indian Standards under Print

| SI. No. | Doc No.                                       | Title   |
|---------|---|---|
| 1       | ETD 12 (24293) Revision of: IS/IEC 61557:2007 | 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  |
| 2       | ETD 12 (24295) Revision of: IS 14570:2021     | Electrical Measuring Transducers for Converting A C and D C Electrical Quantities to Analogue or Digital Signals Third Revision   |
| 3       | ETD 12 (24304)                                | 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  |
| 4       | ETD 12 (24308)                                | 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  |
| 5       | ETD 12 (24310)                                | 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   |
| 6       | ETD 12 (24311)                                | 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  |
| 7       | ETD 12 (24313)                                | 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 13 Hand- Held and Hand-Manipulated Current Clamps and Sensors for Measurement of Leakage Currents in Electrical Distribution Systems           |
| 8       | ETD 12 (24314)                                | 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   |
| 9       | ETD 12 (24315)                                | 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 |
| 10      | ETD 12 (24316)                                | 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           |
| 11      | ETD 12 (24317)                                | 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   |

### Aspect Wise Report

Product : 31  
 Code of Practices : 0  
 Methods of Test : 5  
 Terminology : 0  
 Dimensions : 1  
 System Standard : 0  
 Safety Standard : 0  
 Others : 5  
 Service Specification : 0  
 Process Specification : 0  
 Unclassified : 0

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

| SI. No. | IS No. & Year                                     | Title   |
|---------|---|---|
| 1       | IS 11576 : 1986<br>Reviewed In : 1991             | Barlow s wheel  |
| 2       | IS 11599 : 1986<br>Reviewed In : 2002             | Portable ac clip-on-ammeters  |
| 3       | IS 11994 : 1986<br>Reviewed In : 2017             | Code of practice for use of screed board concrete vibrators   |
| 4       | IS 12784 (Part 1) : 1989<br>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<br>Reviewed In : 2015              | Insulation resistance testers hand operated magneto generator type  |
| 7       | IS H2992 : 1987<br>Reviewed In : 2010             | Insulation resistance testers hand operated magneto generator type HINDI  |
| 8       | IS 3107 : 1974<br>Reviewed In : 2010              | Portable multi purpose direct acting electrical indicating instruments  |
| 9       | IS 7914 : 1975<br>iec 60428<br>Reviewed In : 2015 | Standard Cells  |
| 10      | IS 9223 : 1989<br>iec 61557<br>Reviewed In : 2015 | Portable Earth Resistance Meters  |

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

| SI. No. | IS No. & Year  | Title   |
|---------|--|---|
| 1       | IS 10659 : 1983<br>IEC 60564<br>Reviewed In : 2017 IEC<br>Publication 564 ( 1977 ) | Specification for DC bridges for measuring resistance   |
| 2       | IS 11067 : 1984<br>Reviewed In : 2017  | Specification for DC standard resistors   |
| 3       | IS 11212 : 1985<br>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<br>IEC 618 : 1978<br>IEC 60618 : 1978+AMD                          | Inductive Voltage Dividers First Revision   |
| 6       | IS 1248 (Part 1) : 2021  | Direct acting indicating analogue electrical measuring instruments and their accessories Part 1 |



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|----|---|---|
|    | IEC 60051-1: 2016<br>ISO 8274: 2005   | Definitions and general requirements common to all parts Fifth Revision   |
| 7  | IS 1248 (Part 2) : 2021<br>60051-2: 2018<br>ISO 15099: 2003                                       | Direct acting indicating analogue electrical measuring instruments and their accessories Part 2<br>Special requirements for ammeters and voltmeters   |
| 8  | IS 1248 (Part 3) : 2021<br>60051-3: 2018,<br>ISO 13314 : 2011                                     | Direct acting indicating analogue electrical measuring instruments and their accessories Part 3<br>Special requirements for wattmeters and varmeters  |
| 9  | IS 1248 (Part 4) : 2021<br>60051-4: 2018<br>ISO/IEC 10561:1999                                    | Direct acting indicating analogue electrical measuring instruments and their accessories title Part 4<br>Special requirements for frequency meters  |
| 10 | IS 1248 (Part 5) : 2021<br>60051-5: 2018<br>ISO/IEC 18000-2                                       | Direct acting indicating analogue electrical measuring instruments and their accessories Part 5<br>Special requirements for phase meters power factor meters and synchrosopes   |
| 11 | IS 1248 (Part 6) : 2021<br>60051-6:2017<br>ISO/IEC 18000-3:2010                                   | DIRECT ACTING INDICATING ANALOGUE ELECTRICAL MEASURING INSTRUMENTS<br>AND THEIR ACCESSORIES Part 6 Special requirements for ohmmeters impedance meters and<br>conductance meters  |
| 12 | IS 1248 (Part 7) : 2021<br>60051-7: 2017<br>ISO/IEC 18000-4:2018                                  | Direct acting indicating analogue electrical measuring instruments and their accessories Part 7<br>Special requirements for multi-function instruments  |
| 13 | IS 1248 (Part 8) : 2021<br>60051-8: 2017<br>ISO/IEC 18000-6:2013                                  | Direct acting indicating analogue electrical measuring instruments and their accessories Part 8<br>Special requirements for accessories   |
| 14 | IS 14570 : 2021<br>60688: 2012<br>ISO 21586:2020  | ELECTRICAL MEASURING TRANSDUCERS FOR CONVERTING AC AND DC<br>ELECTRICAL QUANTITIES TO ANALOGUE OR DIGITAL SIGNALS   |
| 15 | IS 14571 : 1998<br>IEC 1028 (1991)<br>Reviewed In : 2018 IEC<br>1028 (1991)                       | Electrical measuring instruments - X - Y recorders  |
| 16 | IS 1765 : 2020<br>IEC 60523 : 1975 + Amend<br>1 + Amend 2 (1997)<br>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<br>IEC 61010-2-020 : 2016<br>Reviewed In : 2024 IEC<br>61010-20 : 2016 | Safety requirements for electrical equipment for measurement control and laboratory use Part 2 -<br>020 particular requirements for laboratory centrifuges  |
| 19 | IS/IEC 61557-1 : 2019<br>61557 : Part 1: 2019<br>ISO 12866: 1999 + AMD<br>1: 2008                 | ELECTRICAL SAFETY IN LOW VOLTAGE DISTRIBUTION SYSTEMS UP TO 1000 V AC<br>AND 1500 V DC - EQUIPMENT FOR TESTING MEASURING OR MONITORING OF<br>PROTECTIVE MEASURES PART 1 GENERAL REQUIREMENTS  |
| 20 | IS/IEC 61557-3 : 2019<br>IEC 61557-3: 2019  | Electrical Safety in Low Voltage Distribution Systems up to 1 000 V a c and 1 500 V d c -<br>Equipment for Testing Measuring or Monitoring of Protective Measures Part 3 Loop Impedance   |
| 21 | IS/IEC 61557-4 : 2019<br>IEC 61557-4 : 2019   | Electrical safety in low voltage distribution systems up to 1 000 V ac and 1 500 V dc Equipment<br>for testing measuring or monitoring of protective measures Part 4 Resistance of earth connection<br>and equipotential bonding                  |
| 22 | IS/IEC 61557-5 : 2007<br>IEC 61557 : Part 5:2007<br>Reviewed In : 2017 IEC<br>61557 : Part 5      | Electrical safety in low voltage distribution systems up to 1000 V a c and 1500 V d c - Equipment<br>for testing measuring or monitoring of protective measures Part 5 resistance to earth  |
| 23 | IS/IEC 61557-6 : 2019<br>IEC 61557-6:2019   | Electrical Safety in Low Voltage Distribution Systems up to 1 000 V a c and 1 500 V d c -<br>Equipment for Testing Measuring or Monitoring of Protective Measures Part 6 Effectiveness of<br>Residual Current Devices RCD in TT TN and IT Systems |
| 24 | IS/IEC 61557-7 : 2019<br>IEC 61557-7:2019   | Electrical Safety in Low Voltage Distribution Systems up to 1 000 V ac and 1 500 V dc Equipment<br>for Testing Measuring or Monitoring of Protective Measures Part 7 Phase Sequence   |

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| 25 | IS 6236 : 2020<br>IEC 258 : 1968<br>IEC 60258 : 1968+AMD | Direct Recording Electrical Measuring Instruments and Their Accessories First Revision |
| 26 | IS/IEC 62586-1 : 2017<br>62586-1:2017                    | Power Quality Measurement in Power Supply Systems Part 1 Power Quality Instruments Pqi |
| 27 | IS 7889 : 2023   | Vibration Galvanometers Specification First Revision                                   |
| 28 | IS 7890 : 2023   | Ballistic Galvanometers Specification First Revision                                   |
| 29 | IS 8143 : 2023   | Plugs and Keys for Resistance Boxes Specification First Revision                       |
| 30 | IS 8160 : 2023   | Tangent Galvanometers Specification First Revision                                     |
| 31 | IS 9051 : 2023   | Rheostats Specification First Revision   |