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

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

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9	IS 1248 (Part 4):	Direct Acting Indicating Analogue		-	Identical under dual
	2021	Electrical Measuring Instruments			numbering
	60051-4: 2018	and their Accessories Part 4			
	IEC 60051-4: 2018	Special Requirements for			
		Frequency Meters (Fourth			
		Revision)			
10	IS 1248 (Part 5):	Direct Acting Indicating Analogue		-	Identical under dual
	2021	Electrical Measuring Instruments			numbering
	60051-5: 2018	and their Accessories Part 5			
	IEC 60051-5: 2018	Special Requirements for Phase			
	120 00031 3. 2010	Meters, Power Factor Meters and			
		Synchroscopes (Fourth Revision)			
11	IS 1248 (Part 6):	Direct Acting Indicating Analogue			Identical under dual
11	2021	Electrical Measuring Instruments			numbering
	60051-6:2017	and their Accessories Part 6			numbering
	IEC 60051-6:2017				
	IEC 00031-0:2017	Special Requirements for			
		Ohmmeters (Impedance meters)			
		and Conductance Meters (Fourth			
12	IC 1040 (D . =)	Revision)			T1 (1 1 1 1 1
12	IS 1248 (Part 7):	Direct Acting Indicating Analogue		-	Identical under dual
	2021	Electrical Measuring Instruments			numbering
	60051-7: 2017	and their Accessories Part 7			
	IEC 60051-7: 2017	Special Requirements for Multi-			
		Function Instruments (Fourth			
		Revision)			
13	IS 1248 (Part 8):	Direct Acting Indicating Analogue		-	Identical under dual
	2021	Electrical Measuring Instruments			numbering
	60051-8: 2017	and their Accessories Part 8			
	IEC 60051-8: 2017	Special Requirements for			
		Accessories (Fourth Revision)			
14	IS 1248 (Part 9):	Direct Acting Indicating Analogue		-	Identical under dual
	2021	Electrical Measuring Instruments			numbering
	60051-9:2019	and their Accessories Part 9			
	IEC 60051-9: 2019	Recommended Test Methods			
		(Fourth Revision)			
15	IS 14570 : 2021	Electrical Measuring Transducers		_	Identical under dual
-	60688: 2012	for Converting A.C and D.C			numbering
	IEC 60688:2021	Electrical Quantities to Analogue			
		or Digital Signals (Second			
		Revision)			
16	IS 14570 : 2024	Electrical Measuring Transducers		_	Identical under dual
	IEC 60688:2021	for Converting A.C and D.C			numbering
	IEC 60688:2021	Electrical Quantities to Analogue			numbering
	12.00000.2021	or Digital Signals (Third Revision)			
17	IS 14571 : 1998	Electrical measuring instruments -		1	Identical under dual
1/	IEC 1028 (1991)	X - Y recorders		1	numbering
	Reviewed In : 2018	A - 1 recorders			numbering
	IEC 1028 (1991)				
18	IS 1765 : 2020	Direct-Current Potentiometers (+	Identical under dual
10	IEC 60523 : 1975 +	`		_	
		Third Revision)			numbering
	Amend 1 + Amend 2				
	(1997)				
10	60523	Danal magazita di anci	A!1 - 0.00 4		Idame:1 J 1 1
19	IS 2419 : 2012	Panel mounted equipment -	April, 2024	-	Identical under dual
	IEC 60473(74)	Electrical measuring instrument -			numbering
	Reviewed In: 2024	Dimensions for panel mounting			
20	IEC 61554 : 1999	(Second Revision)		-	T "
20	IS 2442 : 2023	D.C. Moving Coil Galvanometers -		-	Indigenous
		Specification (First Revision)			
•	-		•	•	•

1	l	1	1	ı	1
21	IS 3602 : 1966	Recommendations for the design		-	Modified/Technically
		of scales and indexes for indicating			Equivalent
	B.S. 3693 (Part-1)-	instruments for scales of 1 to 2			
	1964	percent resolution			
22	IS 3635 : 1966	Methods of test for resistance of	March, 2020	-	Indigenous
	Reviewed In: 2020	metallic electrical resistance			
		material			
23	IS 3636 : 1966	Method of test for temperature	March, 2020	-	Modified/Technically
	Reviewed In: 2020	coefficient of precision resistor			Equivalent
	se only, New	wires			1
24	IS/IEC 61010-2- 020	Safety requirements for electrical	August, 2024	-	Identical under single
	: 2016	equipment for measurement,			numbering
	IEC 61010-2-020:	control, and laboratory use: Part 2 -			
	2016	020 particular requirements for			
	Reviewed In: 2024	laboratory centrifuges			
	IEC 61010-20 : 2016	· ·			
25	IS/IEC 61557-1 :	Electrical Safety in Low Voltage		_	Identical under single
	2019	Distribution Systems Up to 1 000		1	numbering
	61557 : Part 1: 2019	* *		1	numbering
		Equipment for Testing, Measuring		1	
	2019	or Monitoring of Protective		1	
	2019	Measures Part 1 General			
26	IC/IEC/(1557.2	Requirements (First Revision)			Tilendien Leen den eine Le
26	IS/IEC 61557-2:	Electrical Safety in Low Voltage		-	Identical under single
	2019	Distribution Systems Up to 1 000			numbering
	61557 : Part 2: 2019				
		Equipment for Testing, Measuring			
	2019	or Monitoring of Protective			
		Measures Part 2 Insulation			
		Resistance (First Revision)			
27	IS/IEC 61557-3:	Electrical Safety in Low Voltage		-	Identical under single
	2019	Distribution Systems up to 1 000 V			numbering
	IEC 61557-3: 2019	a.c. and 1 500 V d.c Equipment			
	IEC 61557-3: 2019	for Testing, Measuring or			
		Monitoring of Protective Measures			
		Part 3 Loop Impedance			
28	IS/IEC 61557-4:	Electrical safety in low voltage		-	Identical under single
	2019	distribution systems up to 1 000 V			numbering
	IEC 61557-4: 2019	ac and 1 500 V dc Equipment for			
	IEC 61557-4: 2019	testing measuring or monitoring of		1	
		protective measures Part 4:		1	
		Resistance of earth connection and		1	
		equipotential bonding		1	
29	IS/IEC 61557-5 :	Electrical Safety in Low Voltage		-	Identical under single
	2019	Distribution Systems up to 1 000 V		1	numbering
	IEC 61557-5 : 2019	a.c. and 1 500 V d.c Equipment		1	
	IEC 61557-5 : 2019			1	
		Monitoring of Protective Measures		1	
		Part 5 Resistance to Earth (First		1	
		Revision)		1	
30	IS/IEC 61557-5 :	Electrical safety in low voltage		_	Identical under single
30	2007	distribution systems up to 1000 V		I -	numbering
	IEC 61557 : Part	a.c. and 1500 V d.c Equipment		1	numbering
				1	
	5:2007	for testing, measuring or		1	
		monitoring of protective measures:		1	
21	IEC 61557-5 : 2019			-	Idantical and 1
31	IS/IEC 61557-6:	Electrical Safety in Low Voltage		-	Identical under single
	2019	Distribution Systems up to 1 000 V		1	numbering
	IEC 61557-6:2019	a.c. and 1 500 V d.c Equipment		1	
	•	•	1	•	•

	•	1	•		
	IEC 61557-6:2019	, E			
		Monitoring of Protective Measures			
		Part 6 Effectiveness of Residual			
		Current Devices (RCD) in TT, TN			
		and IT Systems			
32	IS/IEC 61557-7:	Electrical Safety in Low Voltage		=	Identical under single
	2019	Distribution Systems up to 1 000 V			numbering
	IEC 61557-7:2019	ac and 1 500 V dc Equipment for			
	IEC 61557-7:2019	Testing Measuring or Monitoring			
		of Protective Measures Part 7			
		Phase Sequence			
33	IS/IEC 61557-8:	Electrical Safety in Low Voltage		-	Identical under single
	2014	Distribution Systems up to 1 000 V			numbering
	IEC 61557-8:2014	ac and 1 500 V dc Equipment for			
	IEC 61557-8:2014	Testing Measuring or Monitoring			
		of Protective Measures Part 8:			
		Insulation Monitoring Devices for			
		IT Systems			
34	IS/IEC 61557-10 :	Electrical Safety in Low voltage		_	Identical under single
		Distribution Systems up to 1 000 V			numbering
		a.c and 1 500 V d.c Equipment for			namoernig
	IEC 61557-10. 2015	Testing Measuring or Monitoring			
	2013	of Protective Measures Part 10:			
	2015				
		Combined Measuring Equipment			
		for Testing Measuring or			
25	10/IEC (1555 11	Monitoring of Protective Measures			T1 (' 1 1 ' 1
35	IS/IEC 61557-11:	Electrical Safety in Low Voltage		-	Identical under single
	2020	Distribution Systems up to 1 000 V			numbering
	IEC 61557 ϊ¿½ 11 :	a.c. and 1 500 V d.c Equipment			
	2020	for Testing, Measuring or			
		Monitoring of Protective Measures			
	2020	Part 11 Effectiveness of Residual			
		Current Monitors (RCM) In TT,			
		TN and IT Systems			
36	IS/IEC 61557-12 :	Electrical Safety in Low Voltage		-	Identical under single
		Distribution Systems up to 1 000 V			numbering
	IEC 61557 � 12 :	a.c. and 1 500 V d.c Equipment			
	2018	for Testing, Measuring or			
	IEC 61557 - 12:	Monitoring of Protective Measures			
	2018	Part 12 Power Metering and			
		Monitoring Devices (PWD)			
37	IS/IEC 61557-13:	Electrical Safety in Low Voltage		-	Identical under single
	2023	Distribution Systems Up to 1 000			numbering
	IEC 61557 � 13 :	V a.c and 1 500 V d.c Equipment			_
	2023	for Testing Measuring or			
	IEC 61557 – 13 :	Monitoring of Protective			
	2023	Measures- Part 13 Hand- Held and			
		Hand-Manipulated Current Clamps			
		and Sensors for Measurement of			
		Leakage Currents in Electrical			
		Distribution Systems			
38	IS/IEC 61557-14:	Electrical Safety in Low Voltage		_	Identical under single
	2023	Distribution Systems Up To 1 000			numbering
	IEC 61557 � 14 :	V ac and 1 500 V dc Equipment			numbering
	2023	for Testing Measuring or			
		Monitoring of Protective Measures			
	2023	Part 14 Equipment for testing the			
	2023	safety of electrical equipment for			
<u> </u>		machinery			

39		Electrical Safety in Low Voltage Distribution Systems up to 1 000 V		-	Identical under single
		Distribution Systems up to 1 000 VI			
	IEC 61557 :: 1615 .	Distribution Systems up to 1 000 v			numbering
	IEC 61557 �15 :	a.c. and 1 500 V d.c Equipment			
	2014	for Testing, Measuring or			
	IEC 61557 -15:	Monitoring of Protective Measures			
	2014	Part 15 Functional Safety			
		Requirements for Insulation			
		Monitoring Devices in IT Systems			
		and Equipment for Insulation Fault			
		Location in IT Systems			
40	IS/IEC 61557-16 :				Identical under ainele
40		Electrical Safety in Low Voltage		-	Identical under single
		Distribution Systems up to 1 000 V			numbering
	IEC 61557-16:2023	a.c. and 1 500 V d.c Equipment			
	IEC 61557-16:2023	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			
41	IS/IEC 61557-17:	Electrical Safety in Low Voltage		-	Identical under single
••		Distribution Systems up to 1 000 V			numbering
		a.c. and 1 500 V d.c Equipment			indinioe inig
	IEC 61557-17 :	for Testing, Measuring or			
	2021				
	2021	Monitoring of Protective Measures			
		Part 17 Non-Contact a.c. Voltage			
12	YG (22 (2020	Indicators			
42	IS 6236 : 2020	Direct Recording Electrical	-	-	Identical under dual
	IEC 258 : 1968	Measuring Instruments and Their			numbering
	IEC 60258:	Accessories (First Revision)			
	1968+AMD				
43	IS/IEC 62586-1:	Power Quality Measurement in		-	Identical under single
	2017	Power Supply Systems Part 1			numbering
	62586-1:2017	Power Quality Instruments (Pqi)			
	62586-1:2017				
44	IS/IEC 62586-2 :	Power Quality Measurement in		_	Identical under single
	2017	Power Supply Systems Part 2:			numbering
	62586-2:2017	Functional tests and uncertainty			
	62586-2:2017	requirements			
45	IS 7889 : 2023	Vibration Galvanometers -		_	Indigenous
73	15 / 567 . 2023	Specification (First Revision)		_	margenous
46	IS 7890 : 2023	Ballistic Galvanometers -		1	Indigenous
40	15 / 690 . 2025			_	muigenous
47	IC 0142 - 2022	Specification (First Revision)			To die co
47	IS 8143 : 2023	Plugs and Keys for Resistance		-	Indigenous
		Boxes - Specification (First			
<u> </u>	****	Revision)			
48	IS 8160 : 2023	Tangent Galvanometers -		-	Indigenous
		Specification (First Revision)			
49	IS 8197 : 1976	Terminal markings for electrical	March, 2020	-	Indigenous
	Reviewed In: 2020	measuring instruments and their			
<u> </u>		accessories			
50	IS 8525 : 1977	Recommendations for design of		-	Indigenous
	Reviewed In: 2017	linear scales and indexes for			
		indicating instruments to be read to			
		0.33 - 1.25 percent resolution			
51	IS 9051 : 2023	Rheostats - Specification (First		_	Indigenous
"	15 > 051 . 2025	Revision)			margonous
<u> </u>	IS 9249 (Part 1):	Safety requirements for indicating		_	Modified/Technically
l 52	10 72 T7 (1 all 1).	• •		1	
52	1979	and recording electrical measuring			Equivalent

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

Standards under Development

		Projects Approved		
SI. No.	SI. No. Doc No. Title			
No Records Found				

		Preliminary Draft Standards			
SI. No.	SI. No. Doc No. Title				
No Records Found					

	Drafts Standards in WC Stage				
SI. No.	SI. No. Doc No. Title				
No Records Found					

		Draft Standards Completed WC Stage		
SI. No.	SI. No. Doc No. Title			
No Records Found				

	Finalized Draft Indian Standard			
SI. No.	SI. No. Doc No. Title			
No Records Found				

	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

Process Specification: 0 Unclassified: 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

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

Annexure-II :List of Indian Product Standards

SI. No.	IS No. & Year	Title
1	IS 10659 : 1983	Specification for DC bridges for measuring resistance
	IEC 60564	
	Reviewed In: 2017 IEC	
	60564: 1977	
2	IS 11067 : 1984	Specification for DC standard resistors
	Reviewed In: 2017	
3	IS 11212 : 1985	Specification for direct current resistive volt ratio boxes
	Reviewed In: 2017	
4	IS 11287 : 2023	Bridge Insulations Testers Magneto Generator Type - Specification First Revision
5	IS 12312 : 2020	Industiva Valtaga Dividare Eiret Pavisian
3	IEC 618 : 1978	Inductive Voltage Dividers First Revision
(IEC 60618 : 1978+AMD	Direct Acting Indicating Analogue Floatnical Magazinian Instruments and their Accessories Dort 1
6	IS 1248 (Part 1): 2021 IEC 60051-1: 2016	Direct Acting Indicating Analogue Electrical Measuring Instruments and their Accessories Part 1
		Definitions and General Requirements Fifth Revision
7	ISO 8274: 2005	Digget A sting Indicating Anglogue Floatgied Massyging Instruments and their A accessories Dog 2
/	IS 1248 (Part 2) : 2021	Direct Acting Indicating Analogue Electrical Measuring Instruments and their Accessories Part 2
	60051-2: 2018	Special Requirements for Ammeters and Voltmeters Fourth Revision
0	ISO 15099: 2003	Direct Acting Indicating Analogue Floatnical Magazinia Instruments and their Accessories Don't
8	IS 1248 (Part 3): 2021	Direct Acting Indicating Analogue Electrical Measuring Instruments and their Accessories Part 3
	60051-3: 2018,	Special Requirements for Wattmeters and Varmeters Fourth Revision
0	ISO 13314 : 2011	
9	IS 1248 (Part 4): 2021	Direct Acting Indicating Analogue Electrical Measuring Instruments and their Accessories Part 4
	60051-4: 2018	Special Requirements for Frequency Meters Fourth Revision
10	ISO/IEC 10561:1999	
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 Synchroscopes 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 Equipmen 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 Equipmen 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 � 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 � 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	Electrical Safety in Low Voltage Distribution Systems Up to 1 000 V a c and 1 500 V d c
	IEC 61557 � 13 : 2023	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	Electrical Safety in Low Voltage Distribution Systems Up To 1 000 V ac and 1 500 V dc
	IEC 61557 � 14 : 2023	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	Electrical Safety in Low Voltage Distribution Systems up to 1 000 V a c and 1 500 V d c -
	IEC 61557 �15 : 2014	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	Electrical Safety in Low Voltage Distribution Systems up to 1 000 V a c and 1 500 V d c -
	IEC 61557-16:2023	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	Electrical Safety in Low Voltage Distribution Systems up to 1 000 V a c and 1 500 V d c -
	IEC 61557-17: 2021	Equipment for Testing Measuring or Monitoring of Protective Measures Part 17 Non-Contact a c
		Voltage Indicators
34	IS 6236 : 2020	Direct Recording Electrical Measuring Instruments and Their Accessories First Revision
	IEC 258: 1968	
	IEC 60258 : 1968+AMD	
35	IS/IEC 62586-1 : 2017	Power Quality Measurement in Power Supply Systems Part 1 Power Quality Instruments Pqi
	62586-1:2017	
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