BUREAU OF INDIAN STANDARDS

Program of Work

ETD 36: Tools And Equipment For Live Working

Scope: To prepare standard on electrical and mechanical characteristics as well as reliability

requirements for tools and equipment used in connections with work on energized electrical

systems.

Liaison: **IEC TC-78 (O):** Live working

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 13771 : 2023	Live Working - Conductive		-	Identical under dual
	IEC 60895 : 2020	Clothing (Second Revision)			numbering
	IEC 60895: 2020				
2	IS 13772 : 2021	Live working Hand tools for use up		-	Identical under dual
	IEC 60900 : 2018	to 1 000 V AC and 1 500 V DC			numbering
	IEC 60900 : 2018	(Second Revision)			
3	IS 13773 : 2018	Live working - Electrical insulating	May, 2024	-	Identical under dual
	IEC 60984 : 2014	sleeves (First Revision)			numbering
	Reviewed In: 2024				
	IEC 60984 : 2014				
4	IS 13774 : 2021	Live Working Gloves of Insulating		-	Identical under dual
	IEC 60903 : 2014	Material (Second Revision)			numbering
	IEC 60903: 2014				
5	IS 13961 : 1994	Insulating Poles Insulating Sticks &	December, 2014	-	Identical under dual
	IEC 60832-2:2010	Universal Tool Attachment			numbering
	Reviewed In: 2014	(Fittings) for Live Working			
	IEC 60832: 1988				
6	IS 13961 (Part 1):	Live working - Insulating Sticks	May, 2024	-	Identical under dual
	2018	and Attachable Devices- Part-1:			numbering
	IEC 61832-1:2010	Insulating Sticks			_
	Reviewed In: 2024				
	IEC 60832-1:2010				
7	IS 13961 (Part 2):	Live working - Insulating sticks	May, 2024	-	Identical under dual
	2017	and attachable devices: Part 2			numbering
	IEC 60832-2:2010	attachable devices (First Revision)			
	Reviewed In: 2024				
	IEC 60832-2:2010				
8	IS 14956 : 2014	Live working - Minimum approach	March, 2019	-	Identical under dual
	IEC 61472:2004	distances for a.c. systems in the			numbering
	Reviewed In: 2019	voltage range 72.5 kV to 800 kV -			
	IEC 61472:2014	A method of calculation (First			
		Revision)			
9	IS 14957 : 2021	Live Working Insulating Aerial		-	Identical under dual
	IEC 61057 : 2017	Devices for Mounting on a Chassis			numbering
	IEC 61057: 2017	(First Revision)			
10	IS 14981 : 2001	Live working - Earthing or earthing	April, 2024	-	Identical under dual
	IEC 61219	and short - Circuiting equipment	-		numbering

I	Reviewed In: 2024	using lances as a short - Circuiting		I	1
	IEC 61219 (1993)	device - Lance earthing			
11	IS 14993 : 2017	Live working - Saddles, stick	May, 2024	-	Modified/Technically
	IEC 61236 : 2010	clamps and their accessories (First	•		Equivalent
	Reviewed In: 2024	Revision)			1
	IEC 61236 : 2010	,			
12	IS 15405 (Part 1):	Live working - Flame - Resistant	November, 2013	-	Identical under dual
	2003	materials for clothing for thermal			numbering
	IEC 61482-1	protection of workers - Thermal			
	Reviewed In: 2013	hazards of an electric arc: Part 1			
	IEC 61482-1 (2002)	test methods			
13	IS 15416 : 2017	Live working - Terminology for	December, 2022	-	Identical under dual
	IEC 60743 : 2013	tools, devices and equipment (First			numbering
	Reviewed In: 2022	Revision)			
	IEC 60743 : 2013				
14	IS 16155 : 2023	Live Working Methods for		-	Identical under dual
	IEC 61318: 2021	Assessment of Defects And			numbering
	IEC 61318: 2021	Verification of Performance			
		Applicable To Tools Devices And			
1.5	IC 16167 (P. +4)	Equipment (Second Revision)	NA 2024		T.1
15	IS 16167 (Part 1):	Live working - Insulating foam -	May, 2024	-	Identical under dual
	2018 IEC 60855-1:2016	Filled tubes and solid rods: Part 1			numbering
	Reviewed In : 2024	tubes and rods of a circular cross -			
	IEC 60855-1 : 2016	Sec (Second Revision)			
16	IS 16619 (Part 1):	Live Working Voltage Detectors			Identical under dual
10	` '	Part 1: Capacitive Type to Be Used		_	numbering
	IEC 61243-1 : 2021	For Voltages Exceeding 1 KV AC			numbering
	IEC 61243-1 : 2021	(First Revision)			
17	IS 16619 (Part 2):	Live working - Voltage detectors:		_	Identical under dual
1,	2018	Part 2 resistive type to be used for			numbering
	2010	voltages of 1 kV to 36 kV a.c.			nume vinig
	IEC 61243-2 : 1995				
18		Live working - Voltage Detectors -		-	Identical under dual
	2021	Part 3 : Two-Pole Low Voltage			numbering
	IEC 61243-3: 2009	Type			
	IEC 61243-3: 2009				
19	IS 16619 (Part 5):	Live working- voltages Detectors -		-	Identical under dual
	2021	Part 5 : Voltage Detecting Systems			numbering
	IEC 61243-5 : 1997	(VDS)			
	IEC 61243-5: 1997				
20		Live working - Voltage detectors -		-	Identical under dual
	2021	Part 6: Guidelines on non-contact			numbering
	IEC TR 61243-6:	voltage detectors NCVD for use at			
	2017	nominal voltages above 1 kV ac			
	IEC TR 61243-6:				
21	2017	Live weeking Translating 1-11			Idontical d 11
21	IS 16622 : 2019 IEC 61235 : 1993	Live working - Insulating hollow		-	Identical under dual
	IEC 61235 : 1993	tubes for electrical purposes			numbering
22	IS 16624 : 2017	Live working - Portable equipment	April, 2024	_	Identical under dual
	IEC 61230 : 2008	for earthing or earthing and short -	11pm, 2027		numbering
	Reviewed In : 2024	Circuiting			numbering
	IEC 61230 : 2008	Circuiting			
23	IS 16631 : 2023	Live Working Guidelines For The		-	Identical under dual
	IEC TR 61328 :	Installation of Transmission And			numbering
	2017	Distribution Line Conductors And			
	IEC TR 61328 :	Earth Wires Stringing Equipment			
	2017	And Accessory Items (First			
I		·		I	1

		Revision)		
24	IS 17674 : 2021	Live working Guidelines for the	-	Identical under dual
	IEC TR 62263:	installation and maintenance of		numbering
	2005	optical fibre cables on overhead		
	IEC TR 62263:	power lines		
	2005			
25	IS 18320 : 2023	Live Working - Electrical	-	Identical under dual
	IEC 61112 : 2009	Insulating Blankets		numbering
	IEC 61112 : 2009			
26	IS 18341 : 2023	Rigid Protective Covers for Live	-	Identical under dual
	IEC 61229 : 2002	Working on A.C. Installation		numbering
	(Ed 1.2)			
	IEC 61229 : 2002			
	(Ed 1.2)			
27	IS 18504 : 2024	Live working Insulating ropes	-	Identical under dual
	62192:2009			numbering
	62192:2009			
28	IS 18506 : 2024	Live Working Ladders of	-	Identical under dual
	61478:2003	Insulating Material		numbering
	61478:2003			
29	IS 18515 : 2024	Live working Telescopic sticks and	-	Identical under dual
	62193:2003	Telescopic measuring sticks		numbering
	62193:2003			

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.	Doc No.	Title
No Records Found		

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

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 36 (22682)	Live working Electrical insulating matting

Total Published Standards:24 Total Standards Under development:1

Aspect Wise Report

Product: 18
Code of Practices: 2
Methods of Test: 3
Terminology: 1
Dimensions: 0
System Standard: 0
Safety Standard: 4

Others: 1
Service Specification: 0
Process Specification: 0
Unclassified: 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
1	IS 13770 : 1993	Insulating foam-filled tubes and solid rods for live working
	IEC 60855	
	Reviewed In: 2009 IEC	
	60855	
2	IS 13985 : 1994	Terminology for tools and equipment to be used in live working
	Reviewed In: 1999	
3	IS 14994 : 2001	Design and construction of floor and roof with precast reinforced concrete planks and joists -
	IEC 61318	Code of practice
	Reviewed In: 2011	
4	IS 15407 : 2003	Live working - Guidelines for dielectric testing of tools and equipment
	IEC 61278	
	Reviewed In: 2013 IEC	
	61278 : 1997	

Annexure-II : List of Indian Product Standards

SI. No.	IS No. & Year	Title
1	IS 13772 : 2021	Live working Hand tools for use up to 1 000 V AC and 1 500 V DC Second Revision
	IEC 60900 : 2018	
	ISO 18692-1 : 2018	
2	IS 13773 : 2018	Live working - Electrical insulating sleeves First Revision
	IEC 60984 : 2014	
	Reviewed In: 2024 IEC	
	60984 : 2014	
3	IS 13774 : 2021	Live Working Gloves of Insulating Material Second Revision
	IEC 60903 : 2014	
	ISO/IEC 18000-61:201	
4	IS 13961 : 1994	Insulating Poles Insulating Sticks Universal Tool Attachment Fittings for Live Working
	IEC 60832-2 : 2010	
	Reviewed In: 2014 IEC	
	60832 : 1988	
5	IS 13961 (Part 1): 2018	Live working - Insulating Sticks and Attachable Devices- Part-1 Insulating Sticks
	IEC 61832-1 : 2010	
	Reviewed In: 2024 20761:	
	2018	
6	IS 13961 (Part 2): 2017	Live working - Insulating sticks and attachable devices Part 2 attachable devices First Revision
	IEC 60832-2 : 2010	
	Reviewed In: 2024 IEC	
	60832-2 : 2010	
7	IS 14957 : 2021	Live Working Insulating Aerial Devices for Mounting on a Chassis First Revision
	IEC 61057 : 2017	

ISO 8102-1:2020			
IEC 61219 Reviewed In: 2024 IEC 61219 (1993)			
Reviewed In : 2024 IEC 61219 (1993)	8		
18		•	Circuiting device - Lance earthing
S 14993 : 2017 EC 61236 : 2010 Reviewed In : 2024 IEC 61236 : 2010 10			
IEC 61236 : 2010 Reviewed In : 2024 IEC 61236 : 2010 10		` ′	
Reviewed In : 2024 IEC 61236 : 2010 Live working - Voltage detectors Part 2 resistive type to be used for voltages of 1 kV to 36 k' IEC 61243-2 : 1995	9		Live working - Saddles stick clamps and their accessories First Revision
10			
IS 16619 (Part 2): 2018			
IEC 61243-2:1995		61236 : 2010	
11	10	IS 16619 (Part 2): 2018	Live working - Voltage detectors Part 2 resistive type to be used for voltages of 1 kV to 36 kV a c
11			
IEC 61243-3 : 2009 ISO 13611			
ISO 13611 IS 16619 (Part 5): 2021 Live working- voltages Detectors - Part 5 Voltage Detecting Systems VDS IEC 61243-5: 1997 ISO 11318:2002 Live working - Insulating hollow tubes for electrical purposes IEC 61235: 1993 IEC 61235: 1993 IEC 61235: 1993 IEC 61212: 2009 Live Working - Electrical Insulating Blankets IEC 61112: 2009 Rigid Protective Covers for Live Working on A C Installation IEC 61229: 2002 (Ed 1.2) IS 18341: 2023 Rigid Protective Covers for Live Working on A C Installation IEC 61229: 2002 (Ed 1.2) Live working Insulating ropes IS 18504: 2024 Live Working Ladders of Insulating Material 61478: 2003 Live Working Telescopic sticks and Telescopic measuring sticks IS 18515: 2024 Live working Telescopic sticks and Telescopic measuring sticks IS 18515: 2024 Live working Telescopic sticks and Telescopic measuring sticks IS 18515: 2024 Live working Telescopic sticks and Telescopic measuring sticks IS 18515: 2024 Live working Telescopic sticks and Telescopic measuring sticks IS 18515: 2024 Live working Telescopic sticks and Telescopic measuring sticks IS 18515: 2024 Live working Telescopic sticks and Telescopic measuring sticks IS 18515: 2024 Live working Telescopic sticks and Telescopic measuring sticks IS 18515: 2024 IS 18515: 2024	11	` /	Live working - Voltage Detectors - Part 3 Two-Pole Low Voltage Type
12		IEC 61243-3 : 2009	
IEC 61243-5 : 1997 ISO 11318:2002			
ISO 11318:2002 Live working - Insulating hollow tubes for electrical purposes IEC 61235 : 1993 IEC 61235 : 1993 IEC 61235 : 1993 IEC 61112 : 2009 Live Working - Electrical Insulating Blankets IEC 61112 : 2009 Rigid Protective Covers for Live Working on A C Installation IEC 61229 : 2002 (Ed 1.2) Live working Insulating ropes 62192:2009 Live Working Ladders of Insulating Material 61478:2003 Live Working Telescopic sticks and Telescopic measuring sticks Live working Telescopic sticks and Telescopic measuring sticks Live working Telescopic sticks and Telescopic measuring sticks Live working Telescopic sticks Live working Telescopic measuring sticks Live working Telescopic sticks Live working Telescopic measuring sticks Live working Telescopic sticks Live working Telescopic measuring sticks Live working Telescopic sticks Live working Telescopic measuring sticks Live working Telescopic sticks Live working Telescopic measuring sticks Live working Telescopic sticks Live working Telescopic measuring sticks Live working Telescopic sticks Live working Tel	12	` ′	Live working- voltages Detectors - Part 5 Voltage Detecting Systems VDS
13			
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IEC 61235 : 1993	13		Live working - Insulating hollow tubes for electrical purposes
14			
IEC 61112 : 2009 Rigid Protective Covers for Live Working on A C Installation IEC 61229 : 2002 (Ed 1.2) Live working Insulating ropes 62192:2009 Live Working Ladders of Insulating Material 61478:2003 Live working Telescopic sticks and Telescopic measuring sticks Live working Telescopic sticks Live working Telescopic measuring sticks Live working Telescopic sticks Live working Telescopic measuring sticks Live working Telescopi			
15	14		Live Working - Electrical Insulating Blankets
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16 IS 18504 : 2024 62192:2009 17 IS 18506 : 2024 61478:2003 18 IS 18515 : 2024 Live Working Ladders of Insulating Material Live Working Ladders of Insulating Material	15		Rigid Protective Covers for Live Working on A C Installation
62192:2009 IS 18506: 2024 61478:2003 Live Working Ladders of Insulating Material 61478:2003 Live working Telescopic sticks and Telescopic measuring sticks		IEC 61229 : 2002 (Ed 1.2)	
17 IS 18506 : 2024 Live Working Ladders of Insulating Material 61478:2003 18 IS 18515 : 2024 Live working Telescopic sticks and Telescopic measuring sticks	16	IS 18504 · 2024	Live working Inculating range
17 IS 18506 : 2024 Live Working Ladders of Insulating Material 61478:2003 18 IS 18515 : 2024 Live working Telescopic sticks and Telescopic measuring sticks	10	•	Live working insulating topes
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61478:2003 18 IS 18515: 2024 Live working Telescopic sticks and Telescopic measuring sticks	17	IS 18506 : 2024	Live Working Ladders of Insulating Material
18 IS 18515 : 2024 Live working Telescopic sticks and Telescopic measuring sticks	1		2210 Holling 2 words of mounting framering
		01.70.2000	
	18	IS 18515 : 2024	Live working Telescopic sticks and Telescopic measuring sticks
		62193:2003	