

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 IEC 60895 : 2020 <i>IEC 60895 : 2020</i>	Live Working - Conductive Clothing (Second Revision)		-	Identical under dual numbering
2	IS 13772 : 2021 IEC 60900 : 2018 <i>IEC 60900 : 2018</i>	Live working Hand tools for use up to 1 000 V AC and 1 500 V DC (Second Revision)		-	Identical under dual numbering
3	IS 13773 : 2018 IEC 60984 : 2014 <i>Reviewed In : 2024</i> <i>IEC 60984 : 2014</i>	Live working - Electrical insulating sleeves (First Revision)	May, 2024	-	Identical under dual numbering
4	IS 13774 : 2021 IEC 60903 : 2014 <i>IEC 60903 : 2014</i>	Live Working Gloves of Insulating Material (Second Revision)		-	Identical under dual numbering
5	IS 13961 : 1994 IEC 60832-2 : 2010 <i>Reviewed In : 2014</i> <i>IEC 60832 : 1988</i>	Insulating Poles Insulating Sticks & Universal Tool Attachment (Fittings) for Live Working	December, 2014	-	Identical under dual numbering
6	IS 13961 (Part 1) : 2018 IEC 61832-1 : 2010 <i>Reviewed In : 2024</i> <i>IEC 60832-1 : 2010</i>	Live working - Insulating Sticks and Attachable Devices- Part-1 : Insulating Sticks	May, 2024	-	Identical under dual numbering
7	IS 13961 (Part 2) : 2017 IEC 60832-2 : 2010 <i>Reviewed In : 2024</i> <i>IEC 60832-2 : 2010</i>	Live working - Insulating sticks and attachable devices: Part 2 attachable devices (First Revision)	May, 2024	-	Identical under dual numbering
8	IS 14956 : 2014 IEC 61472:2004 <i>Reviewed In : 2019</i> <i>IEC 61472:2014</i>	Live working - Minimum approach distances for a.c. systems in the voltage range 72.5 kV to 800 kV - A method of calculation (First Revision)	March, 2019	-	Identical under dual numbering
9	IS 14957 : 2021 IEC 61057 : 2017 <i>IEC 61057 : 2017</i>	Live Working Insulating Aerial Devices for Mounting on a Chassis (First Revision)		-	Identical under dual numbering
10	IS 14981 : 2001 IEC 61219	Live working - Earthing or earthing and short - Circuiting equipment	April, 2024	-	Identical under dual numbering

	Reviewed In : 2024 IEC 61219 (1993)	using lances as a short - Circuiting device - Lance earthing			
11	IS 14993 : 2017 IEC 61236 : 2010 Reviewed In : 2024 IEC 61236 : 2010	Live working - Saddles, stick clamps and their accessories (First Revision)	May, 2024	-	Modified/Technically Equivalent
12	IS 15405 (Part 1) : 2003 IEC 61482-1 Reviewed In : 2013 IEC 61482-1 (2002)	Live working - Flame - Resistant materials for clothing for thermal protection of workers - Thermal hazards of an electric arc: Part 1 test methods	November, 2013	-	Identical under dual numbering
13	IS 15416 : 2017 IEC 60743 : 2013 Reviewed In : 2022 IEC 60743 : 2013	Live working - Terminology for tools, devices and equipment (First Revision)	December, 2022	-	Identical under dual numbering
14	IS 16155 : 2023 IEC 61318: 2021 IEC 61318: 2021	Live Working Methods for Assessment of Defects And Verification of Performance Applicable To Tools Devices And Equipment (Second Revision)		-	Identical under dual numbering
15	IS 16167 (Part 1) : 2018 IEC 60855-1:2016 Reviewed In : 2024 IEC 60855-1 : 2016	Live working - Insulating foam - Filled tubes and solid rods: Part 1 tubes and rods of a circular cross - Sec (Second Revision)	May, 2024	-	Identical under dual numbering
16	IS 16619 (Part 1) : 2023 IEC 61243-1 : 2021 IEC 61243-1 : 2021	Live Working Voltage Detectors Part 1: Capacitive Type to Be Used For Voltages Exceeding 1 KV AC (First Revision)		-	Identical under dual numbering
17	IS 16619 (Part 2) : 2018 IEC 61243-2 : 1995	Live working - Voltage detectors: Part 2 resistive type to be used for voltages of 1 kV to 36 kV a.c.		-	Identical under dual numbering
18	IS 16619 (Part 3) : 2021 IEC 61243-3 : 2009 IEC 61243-3 : 2009	Live working - Voltage Detectors - Part 3 : Two-Pole Low Voltage Type		-	Identical under dual numbering
19	IS 16619 (Part 5) : 2021 IEC 61243-5 : 1997 IEC 61243-5 : 1997	Live working- voltages Detectors - Part 5 : Voltage Detecting Systems (VDS)		-	Identical under dual numbering
20	IS 16619 (Part 6) : 2021 IEC TR 61243-6 : 2017 IEC TR 61243-6 : 2017	Live working - Voltage detectors - Part 6: Guidelines on non-contact voltage detectors NCVD for use at nominal voltages above 1 kV ac		-	Identical under dual numbering
21	IS 16622 : 2019 IEC 61235 : 1993 IEC 61235 : 1993	Live working - Insulating hollow tubes for electrical purposes		-	Identical under dual numbering
22	IS 16624 : 2017 IEC 61230 : 2008 Reviewed In : 2024 IEC 61230 : 2008	Live working - Portable equipment for earthing or earthing and short - Circuiting	April, 2024	-	Identical under dual numbering
23	IS 16631 : 2023 IEC TR 61328 : 2017 IEC TR 61328 : 2017	Live Working Guidelines For The Installation of Transmission And Distribution Line Conductors And Earth Wires Stringing Equipment And Accessory Items (First		-	Identical under dual numbering

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

Standards under Development

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

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

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

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

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

Finalized Draft Indian Standards under Print		
Sl. No.	Doc No.	Title
1	ETD 36 (22682)	Live working Electrical insulating matting

Total Published Standards:24	Total Standards Under development:1
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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

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

Annexure-II :List of Indian Product Standards

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

	ISO 8102-1:2020	
8	IS 14981 : 2001 IEC 61219 Reviewed In : 2024 IEC 61219 (1993)	Live working - Earthing or earthing and short - Circuiting equipment using lances as a short - Circuiting device - Lance earthing
9	IS 14993 : 2017 IEC 61236 : 2010 Reviewed In : 2024 IEC 61236 : 2010	Live working - Saddles stick clamps and their accessories First Revision
10	IS 16619 (Part 2) : 2018 IEC 61243-2 : 1995	Live working - Voltage detectors Part 2 resistive type to be used for voltages of 1 kV to 36 kV a c
11	IS 16619 (Part 3) : 2021 IEC 61243-3 : 2009 ISO 13611	Live working - Voltage Detectors - Part 3 Two-Pole Low Voltage Type
12	IS 16619 (Part 5) : 2021 IEC 61243-5 : 1997 ISO 11318:2002	Live working- voltages Detectors - Part 5 Voltage Detecting Systems VDS
13	IS 16622 : 2019 IEC 61235 : 1993 IEC 61235 : 1993	Live working - Insulating hollow tubes for electrical purposes
14	IS 18320 : 2023 IEC 61112 : 2009	Live Working - Electrical Insulating Blankets
15	IS 18341 : 2023 IEC 61229 : 2002 (Ed 1.2)	Rigid Protective Covers for Live Working on A C Installation
16	IS 18504 : 2024 62192:2009	Live working Insulating ropes
17	IS 18506 : 2024 61478:2003	Live Working Ladders of Insulating Material
18	IS 18515 : 2024 62193:2003	Live working Telescopic sticks and Telescopic measuring sticks