BUREAU OF INDIAN STANDARDS

Program of Work

ETD 22: Electrical Apparatus For Explosive Atmosphere

Scope: To prepare guidelines and requirements for electrical apparatus for use where there is a hazard

due to the possible presence of ignitable gas, vapour liquid particles or dust in the atmosphere.

Liaison: **IEC TC-31 (P):** Equipment for explosive atmospheres **IEC TC-31**

SC-31G (P): Intrinsically-safe apparatus IEC TC-31 SC-31J (P): Classification of hazardous areas and installation requirements IEC TC-31 SC-31M (P): Non-electrical equipment and protective systems for explosive atmospheres

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 11333:1985	Specification for flameproof dry	January, 2021	-	Indigenous
	Reviewed In: 2021	type transformers for use in mines			
	BS 5067 : 1974				
2	IS 16724:2018	Explosive atmospheres - Electrical	June, 2023	-	Modified/Technically
		installations design, selection and			Equivalent
	Reviewed In: 2023	erection			
	IEC 60079-14 : 2013				
3	IS 2772:1982	Specification for non - Flameproof	September, 2022	-	Indigenous
	Reviewed In: 2022	mining transformers for use below			
		ground (First Revision)			
4	IS 4051:2025	Installation and Maintenance of		-	Indigenous
		Electrical Equipment in Mines -			
		Code of Practice (First Revision)			
5	IS 4051:1967	Code of practice for installation	June, 2022	1	Indigenous
	Reviewed In: 2022	and maintenance of electrical			
		equipment in mines			
6	IS 5572:2009	Classification of hazardous areas	January, 2024	1	Modified/Technically
	IEC 60079-10:2002	(Other Than Mines) having			Equivalent
	Reviewed In: 2024	flammable gases and vapours for			
	IEC 60079-10: 2002	`			
	*****	Revision)			
7	IS/IEC	Explosive Atmospheres Part 0	-	-	Identical under single
	60079-0:2017	Equipment — General			numbering
	IEC 60079-0 : 2017	Requirements (Third Revision)			
	IEC 60079-0 : 2017		T. 1. 2024		X1 1 1 1 1
8	IS/IEC	Explosive Atmospheres - Part 1 :	July, 2024	-	Identical under single
	60079-1:2014	Equipment Protection by			numbering
	IEC 60079-1 : 2014	Flameproof Enclosures "d"			
	Reviewed In : 2024				
9	IEC 60079-1:2014 IS/IEC	Eurologiya atmagabanga Bart 2	Contambon 2022	1	Identical under air ale
9		Explosive atmospheres: Part 2	September, 2022	1	Identical under single
	60079-2:2014	equipment protection by			numbering
	IEC 60079-2 : 2014	pressurized enclosure "p" (First			
	Reviewed In: 2022	Revision)			
I	I	ı		I	l l

1	IEC 60079-2:2014	l l			
10	IS/IEC	Explosive Atmospheres Part 5		-	Identical under single
	60079-5:2015	Equipment Protection by Powder			numbering
	IEC 60079-5:2015+	Filling "qâ€🏿 (Second			
	AMD1:2022	Revision)			
	IEC 60079-5:2015+				
	AMD1:2022				
11	IS/IEC	Explosive atmospheres - Part 6:		=	Identical under single
	60079-6:2020	Equipment protection by liquid			numbering
	IEC	immersion "o" (Second Revision)			
	60079-6:2020(Ed				
	4.1)				
	IEC				
	60079-6:2020(Ed				
	4.1)				
12	IS/IEC	Explosive atmospheres - Part 7:		-	Identical under single
	60079-7:2017	Equipment protection by increased			numbering
	IEC 60079-7:2017	safety "e" (Second Revision)			
	(Ed 5.1)				
	IEC 60079-7:2017				
12	(Ed 5.1)	E-placing of 1 B 110	D 1 2022		Td.,,,41, 1, 1, 1, 1
13	IS/IEC	Explosive atmospheres: Part 10	December, 2022	-	Identical under single
	60079-10-2:2015	classification of areas: Sec 2			numbering
	IEC 60079-10-2 : 2015	explosive dust atmospheres (First			
		Revision)			
	Reviewed In: 2022				
	IEC 60079 : Part 10 :				
14	Sec 2 : 2015 IS/IEC	Evalusiva Atmosphanas Pout 11			Identical under single
14	60079-11:2023	Explosive Atmospheres Part 11 Equipment Protection by Intrinsic		-	numbering
	IEC 60079-11:2023	Safety "iâ€🛚 (Second			numbering
	IEC 60079-11:2023	Revision)			
15	IS/IEC	Explosive Atmospheres Part 13		_	Identical under single
	60079-13:2017	Equipment Protection by			numbering
	IEC 60079-13 : 2017	·			namoernig
	IEC 60079-13 :	Artificially Ventilated Room "v" (
	2017	First Revision)			
16	IS/IEC	EXPLOSIVE ATMOSPHERES		-	Identical under single
	60079-15:2017	PART 15 EQUIPMENT			numbering
	IEC 60079-15:2017	PROTECTION BY TYPE OF			
	IEC 60079-15:	PROTECTION "n" (Second			
	2017	Revision)			
17	IS/IEC	Electrical apparatus for explosive	April, 2023	-	Identical under single
	60079-16:1990	gas atmospheres: Part 16 artificial			numbering
	IEC 60079-16 : 1990	-			
	Reviewed In: 2023	analyzer(S) houses			
	IEC 60079-16:1990				
18	IS/IEC	Explosive atmospheres: Part 17	December, 2022	-	Identical under single
	60079-17:2013	electrical installations inspection			numbering
	IEC 60079-17 : 2013	and maintenance (First Revision)			
	IEC 60079-17:				
10	2013	Employees 1 B 110	D 1 2022	1	T.1
19	IS/IEC	Explosive atmospheres: Part 18	December, 2022	1	Identical under single
	60079-18:2014	equipment protection by			numbering
	IEC 60079-18 : 2014	•			
20	IEC 60079-18:2014 IS/IEC	Revision)			Identical under single
20	60079-19:2019	Explosive atmospheres - Part 19: Equipment repair overhaul and		_	Identical under single
	IEC 60079-19:2019	reclamation (Second Revision)			numbering
	120 000/3-19.2019	reciamation (Second Revision)			

I	IEC 60079-19:2019	l l		1	1
21	IS/IEC	Explosive atmospheres - Part 25:		_	Identical under single
	60079-25:2020	Intrinsically safe electrical systems			numbering
	IEC 60079-25:2020	· · · · · · · · · · · · · · · · · · ·			
	IEC 60079-25:2020	` ′			
22	IS/IEC	Explosive atmospheres - Part 26:		-	Identical under single
	60079-26:2021	Equipment with Separation			numbering
	IEC 60079-26:2021	Elements or combined Levels of			
	IEC 60079-26:2021	Protection (Second Revision)			
23	IS/IEC	Explosive atmospheres: Part 28	October, 2023	1	Identical under single
	60079-28:2015	protection of equipment and	,		numbering
	IEC 60079-28 : 2015	transmission systems using optical			
	Reviewed In: 2023	radiation (First Revision)			
	IEC 60079-28:2015	, , ,			
24	IS/IEC	Explosive Atmospheres Part 29		-	Identical under single
	60079-29-3):2014	Gas Detectors Section 3 Guidance			numbering
	IEC	on Functional Safety of Fixed Gas			
	60079-29-3:2014	Detection Systems			
	IEC				
	60079-29-3:2014				
25	IS/IEC	Explosive atmospheres: Part 29 gas	December, 2024	-	Identical under single
	60079-29-4:2009	detectors: Sec 4 performance			numbering
	IEC 60079-29-4:	requirements of open path			
	2009	detectors for flammable gases			
	Reviewed In: 2024				
	IEC				
	60079-29-4:2009				
26	IS/IEC	Explosive atmospheres Part 29 Gas	June, 2024	1	Identical under single
	60079-29-1:2016	detectors Section 1 Performance			numbering
	IEC 60079-29-1:	Requirements of Detectors for			
	2016	Flammable Gases (First Revision)			
	Reviewed In: 2024				
	IEC 60079-29-1:				
	2016				
27	IS/IEC	Explosive atmospheres: Part 29 gas	December, 2022	-	Identical under single
	60079-29-2:2015	detectors: Sec 2 selection,			numbering
	IEC 60079-29-2 :	installation, use and maintenance			
	2015	of detectors for flammable gases			
	Reviewed In: 2022	and oxygen (First Revision)			
	IEC				
20	60079-29-2:2015	Emplosing stars on the con-			Identical and an air at
28	IS/IEC/IEEE	Explosive atmospheres - Part 30		_	Identical under single
	60079-30-2):2015	Electrical resistance trace heating Section 2 Application guide for			numbering
	IEC/IEEE 60079-30-2:2015	design, installation and			
	IEC/IEEE	maintenance (First revision)			
	60079-30-2:2015	maintenance (First Tevision)			
29	IS/IEC/IEEE	Explosive Atmospheres Part 30	July, 2023	_	Identical under single
		Electrical Resistance Trace Heating	July, 2023		numbering
	IEC/IEEE60079-30-	1			numbering
	1:2015	requirements (First Revision)			
	Reviewed In: 2023	ioquirements (Tilst Revision)			
	IEC/IEEE				
	60079-30-1 : 2015				
30	IS/IEC	Explosive atmospheres - Part 31:		-	Identical under single
	60079-31:2022	Equipment dust ignition protection			numbering
1		by enclosure "t" (Second Revision)			
	TIEC 000/9-31:2022				
	IEC 60079-31:2022 IEC 60079-31:2022	by enclosure t (Second Revision)			
31	IEC 60079-31:2022 IEC 60079-31:2022 IS/IEC/TS	Explosive Atmospheres Part 32		-	Identical under single

1	60070 22 1)-2012	Floringstatic Hannels Coation 1		1	mumah anim a
	60079-32-1):2013 IEC TS 60079-32-1:	Electrostatic Hazards Section 1 Guidance			numbering
	2013+AMD1:2017	Guidance			
	IEC TS 60079-32-1:				
	2013+AMD1:2017				
32	IS/IEC	Explosive Atmospheres Part 32		_	Identical under single
52	60079-32-2):2015	Electrostatics Hazards Section 2			numbering
	IEC	Tests			numo vimg
	60079-32-2:2015				
	IEC				
	60079-32-2:2015				
33	IS/IEC	Explosive Atmospheres Part 33		-	Identical under single
	60079-33:2012	Equipment Protection by Special			numbering
	IEC 60079-33 : 2012	Protection 's'			
	IEC 60079-33:				
	2012				
34	IS/IEC	Explosive Atmospheres Part 35	March, 2025	-	Identical under single
	60079-35-1:2011	Caplights for Use in Mines			numbering
	IEC 60079-35-1:	Susceptible to Firedamp Section 1			
	2011	General requirements -			
	Reviewed In: 2025	Construction and testing in			
	IEC 60079-35-1:	Relation to the risk of explosion			
	2011	Employee At 1 B 105	I 2024		Tilende 1 1 1 1
35	IS/IEC	Explosive Atmospheres Part 35	January, 2024	-	Identical under single
	60079-35-2:2011 IEC 60079-35-2 :	Caplights for use in Mines			numbering
	2011	Susceptible to Firedamp Section 2 Performance and other safety			
	Reviewed In: 2024	related matters			
	IEC	related matters			
	60079-35-2:2011				
36	IS/IEC/TS	Explosive Atmospheres Part 39		_	Identical under single
	60079-39:2015	Intrinsically Safe Systems with			numbering
	IEC TS	Electronically Controlled Spark			
	60079-39:2015	Duration Limitation			
	IEC TS				
	60079-39:2015				
37	IS/IEC/TS	Explosive atmospheres Part 40:		-	Identical under single
	60079-40:2015	Requirements for process sealing			numbering
1		between flammable process fluids			
	IEC 60079-40:	and electrical systems			
	2015				** * * * * * * *
38	IS/IEC/TS	Explosive atmospheres Part 42		-	Identical under single
	60079-42:2019	Electrical Safety Devices for the			numbering
	IEC TS 60079-42:2019	Control of Potential Ignition			
	IEC TS	Sources from Ex-Equipment			
	60079-42:2019				
39	IS/IEC/TS	Explosive Atmospheres Part 43:		_	Identical under single
	60079-43:2017	Equipment in adverse service			numbering
	IEC TS	conditions			
	60079-43:2017	, , , , , , , , , , , , , , , , , , , ,			
	IEC TS				
	60079-43:2017				
40	IS/IEC/TS	Explosive Atmospheres Part 46		-	Identical under single
	60079-46:2017	Equipment Assemblies			numbering
	IEC TS 60079-46:				
	2017				
	IEC TS 60079-46:				
	2017				
1	ı	ı		1	I

41	60079-47:2021 IEC TS 60079-47:2021	Explosive Atmospheres Part 47 Equipment Protection by 2-Wire Intrinsically Safe Ethernet Concept (2-Wise)		-	Identical under single numbering
42	80079-20-1:2017 ISO/IEC 80079-20-1:2017	Explosive atmospheres - Part 20 Material characteristics for gas and vapour classification Section 1 Test methods and data		-	Identical under single numbering
	IS/ISO/IEC 80079-20- 2:2016 ISO/IEC 80079-20-2 : 2016 Reviewed In : 2022 ISO/IEC 80079-20-2 : 2016		October, 2022	-	Identical under single numbering
44	IS/ISO/IEC 80079-34:2018 ISO/IEC 80079-34: 2018 Reviewed In: 2024 ISO/IEC 80079-34: 2018	Explosive Atmospheres Part 34 Application of Quality Management Systems for Ex Product Manufacture	July, 2024	-	Identical under single numbering
45	IS/ISO/IEC 80079-36:2016 ISO/IEC 80079-36: 2016 ISO/IEC 80079-36: 2016	Explosive Atmospheres Part 36 Non-electrical Equipment for Explosive Atmospheres - Basic Method and Requirements		-	Identical under single numbering
46	IS/ISO/IEC 80079-37:2016 ISO/IEC 80079-37: 2016 ISO/IEC 80079-37: 2016	Explosive Atmospheres Part 37 Non-electrical Equipment for Explosive Atmospheres - Non Electrical Type of Protection Constructional Safety "c", Control of Ignition Source "b", Liquid Immersion "k"		-	Identical under single numbering
47	IS/ISO/IEC 80079-38:2016 ISO/IEC 80079-38: 2016 ISO/IEC 80079-38: 2016	Explosive Atmospheres Part 38 Equipment and Components in Explosive Atmospheres in Underground Mines		-	Identical under single numbering
48	IS 9559:1980 Reviewed In : 2020	Guide for selection of electrical and electronic equipment for coal mines	October, 2020	-	Indigenous
49	IS 9559:2025	Selection of Electrical and Electronic Equipment for Coal Mines - Guide (First Revision)		-	Indigenous
50	IS 9836:1981 Reviewed In : 2021	Specification for exploders	August, 2021	-	Indigenous

Standards under Development

	Projects Approved

	No Records Found

		Preliminary Draft Standards
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				
1	ETD 22 (27721)	Explosive atmospheres - Part 14 Electrical installation design selection and installation of				
		equipment including initial inspection				
2	ETD 22 (27722)	Explosive atmospheres - Part 17 Electrical installations inspection and maintenance Second				
		Revision				

		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 22 (27716)	e-EXPLODERS SPECIFICATION
2	ETD 22 (27718)	Dry Type Mining Transformers Transwitch Units and Load Centers

Total Published Standards:40 Total Standards Under development:4

Aspect Wise Report

Product: 25
Code of Practices: 15
Methods of Test: 3
Terminology: 0
Dimensions: 0
System Standard: 0
Safety Standard: 2
Others: 2

Service Specification: 0 Process Specification: 0 Unclassified: 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
1	IS 10398:1982	Specification for zener barrier for intrinsically safe process control instruments
	Reviewed In: 2016	
2	IS 10406:1983	Intrinsically Safe Transformers Primarily For Bell Signalling Circuits
3	IS 11005:1984	Dust Tight Ignition Proof Enclosures Of Electrical Equipment
4	IS 11064:1984	Guide for construction and use of rooms or buildings protected by pressurization for installation of

	IEC 60079-13 Reviewed In: 2016	electrtcal apparatus for explosive gas atmospheres
5	IS 12315 (Part 1):1988 IEC 61241-1 Reviewed In : 2008	Methods of determining the minimum ignition temperature of dusts Part 1 Dust layer on a heated surface at a constant temperature
6	IS 12315 (Part 2):1988 IEC 61241-2-1 Reviewed In : 2008	Methods of determining the minimum ignition temperature of dusts Part 2 Dust cloud in a furnance at a constant temperature
7	IS 13346:2004	Electrical Apparatus for Explosive Gas Atmospheres - General Requirements
8	IS 13408 (Part 1):1992 Reviewed In : 2008	Code of Practice for the Selection Installation and Maintenance of Electrical Apparatus for Use in Potentially Explosive Atmospheres Other than Mining Applications or Explosives Processing and Manufacture - Part 1 General
9	IS 14154 (Part 1):1996 Reviewed In : 2006	Electrical Apparatus with Protection By Enclosure for Use in the Presence of Combustible Dusts - Part 1 Classification for Apparatus
10	IS 14154 (Part 2):1997	Electrical apparatus with protection by enclosure for use in presence of combustible dust Part 2 Guide to electrion installation and maintenance
11	IS 14774 (Part 1):2000 IEC 62086-1 Reviewed In : 2010	Resistance Trace Heating in Potentially Explosive Atmospheres - Part 1 General and Testing Requirements
12	IS 14774 (Part 2):2000 IEC 62086-2 Reviewed In : 2010	Resistance Trace Heating in Potentially Explosive Atmospheres - Part 2 Informative Application Guide for Design Installation and Maintenance
13	IS 15142:2002 Reviewed In : 2012 BS 7535:1992	Guide to the use of Electrical Apparatus for Potentially Explosive Atmospheres in the Presence of Combustible Dust
14	IS 15451:2004	Electrical Apparatus For Explosive Gas Atmospheres - Encapsulation m
15	IS 2148:2004	Electrical Apparatus for Explosive Gas Atmospheres - Flameproof Enclosures d
16	IS 2206 (Part 1):1984 Reviewed In : 2005 BS: 889-1965	Specification for flameproof electric lighting fittings Part 1 well - Glass and bulkhead types First Revision
17	IS 2206 (Part 2):1976 Reviewed In: 2003	Flameproof electric lighting fittings Part 2 Fittings using glass tubes
18	IS 2206 (Part 4):1987 Reviewed In: 2003	Flameproof Electric Lighting Fittings - Part 4 Portable Flame-proof Handlamps and Approved Flexible Cables
19	IS 4821:1968	Cable glands and cable sealing boxes for use in mines
20	IS 5571:2009 IEC 60079-14 Reviewed In : 2014	Guide for selection and installation of electrical equipment in hazardous areas Other Than Mines Third Revision
21	IS 5679:1986 Reviewed In : 2016	Miners cap lamp assemblies incorporating lead acid type batteries
22	IS 5780:2002	Electrical Apparatus for Explosive Gas Atmospheres - Intrinsic Safety i
23	IS 5833:1970	Flameproof air-break electrically operated gate-end boxes
24	IS/IEC 60079-1:2007 Reviewed In : 2014	Explosive Atmospheres - Part 1 Equipment Protection by Flameproof Enclosures d
25	IS/IEC 60079-20:1996 Reviewed In : 2012 IEC 60079-20:1996	Electrical appratus for explosive gas atmospheres Part 20 Data for flammable gases and vapours relating to the use of electrical apparatus
26	IS/IEC 60079-20-1:2010 Reviewed In : 2018 IEC 60079-20-1:2010	Explosive atmospheres Part 20 material characteristics for gas and vapour classification Sec 1 test methods and data
27	IS/IEC 60079-27:2008 IEC 60079-27: 2008 IEC 60079 - 27: 2008	Explosive atmospheres - Part 27 Fieldbus intrinsically safe concept FISCO

28	IS/IEC 60079-30-1:2007	Explosive atmospheres Part 30 electrical resistance trace heating Sec 1 general and testing
	Reviewed In: 2012 IEC	requirements
	60079-30-1:2015	
29	IS/IEC 60079-30-2:2007	Explosive atmospheres Part 30 electrical resistance trace heating Sec 2 application guide for
	Reviewed In: 2012 IEC	design installation and maintenance
	60079-30-2:2007	
30	IS/IEC 61241-0:2004	Electrical apoparatus for use in the presence of compustible dust Part 0 General requirements
	Reviewed In: 2014 IEC	
	61241-0:2004	
31	IS/IEC 61241-1:2004	Electrical apparatus for use in the presence of combustible dust Part 1 Protection by enclosures tD
31	Reviewed In: 2014 IEC	Electrical apparatus for use in the presence of combustion dust fair i i forcetion by eliciosates to
	61241-1:2004	
32	IS/IEC 61241-2-1:1994	Electrical Apparatus for use in the Presence of Combustible Dust Part 2 Test Methods Section 1
32		
	Reviewed In: 2014 IEC	Methods for Determining the Minium Ignition Temperatures
22	61241-2-1:1994	
33	IS/IEC 61241-2-3:1994	Electrical Apparatus for use in the presence of combustible dust Part 2 Test Methods Section 3
	Reviewed In: 2014 IEC	Method for determining minimum ignition engergy of dust air mixtures
	61241-2-3:1994	
34	IS/IEC 61241-4:2001	Electrical apparatus for use in the presence of combustible dust Part 4 type of protection PD
	Reviewed In: 2014 IEC	
	61241-4:2001	
35	IS/IEC 61241-10:2004	Electrical apparatus for use in the presence of combustible dust Part 10 Classification of areas
	Reviewed In: 2014 IEC	where combustibe dusts are or may be present
	61241-10:2004	
36	IS/IEC 61241-11:2005	Electrical apparatus for use in the presence of combustible dust Part 11 Protection by intrinsic
	Reviewed In: 2014 IEC	safety ID
	61241-11:2005	an ay
37	IS/IEC 61241-14:2004	Electrical apparatus for use in the presence of combustible dust Part 14 selection and installation
5,	Reviewed In : 2014 IEC	2. The distribution of the
	60079-30-2:2015	
38	IS/IEC 61241-18:2004	Electrical apparatus for use in the presence of combustible dust Part 11 Protection by
] 36	Reviewed In: 2014 IEC	encapsulation mD
		Chcapsulation in D
39	61241-18:2004 IS 6381:2004	Electrical Apparatus for Explosive Gas Atmospheres - Increased Safety e
39	15 0581:2004	Electrical Apparatus for Explosive Gas Atmospheres - Increased Safety e
40	IS 6539:1972	Intrinsically Safe Magneto Telephones for Use in Hazardous Atmospheres
40	13 0339.1972	munisically safe Magneto Telephones for Ose in Hazardous Atmospheres
41	IS 6789:1972	Bolted flameproof cable coupler and adaptors
41	15 0/89:1972	Boiled Hameproof Cable Coupler and adaptors
40	IC 7290 2004	Plantical Assessment of a Paulatic Can Atmosphere December 1 Paulatic and
42	IS 7389:2004	Electrical Apparatus for Explosive Gas Atmospheres - Pressurized Enclosures p
42	IC 7200 (Post 1) 107(Description of the state of the
43	IS 7389 (Part 1):1976	Pressurized enclosures of electrical apparatus for use in explosive atmospheres Part 1 Pressurized
		enclosures with no internal source of flammable gas or vapour
44	IS 7693:2004	Electrical Apparatus for Explosive Gas Atmospheres - Oil-Immersion o
	Reviewed In: 2009	
45	IS 7724:2004	Electrical Apparatus for Explosive Gas Atmoshperes - Powder Filling q
46	IS 7820:2004	Electrical Apparatus for Explosive Gas Atmospheres - Method of Test for Ignition Temperature
	IEC 60079-4	
	Reviewed In: 2009	
47	IS 8224:1976	Electric Lighting Fittings For Division 2 Areas
	Reviewed In: 2003	
48	IS 8239:1976	Classification of maximum surface temperatures of electrical equipment for use in explosive
	Reviewed In: 1991	atmospheres
49	IS 8240:1976	Guide for electrical equipment for explosive atmosphere
	Reviewed In: 1991	2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
50	IS 8241:1976	Method of Marking for Identifying Electrical Equipment for Explosive Atmospheres
50	Reviewed In : 1991	Figure of Marking for Identifying Dicettical Equipment for Explosive Authosphetes
51	IS 8289:1976	Electrical equipment with type of protection n
	10 0207.17/0	Electrical equipment with type of protection if

	Reviewed In: 2006	
52	IS 8945:1987	Specification for electrical measuring instruments for explosive gas atmospheres First Revision
	Reviewed In: 2020	
53	IS 9166:1979	Spark Test Apparatus for Intrinsically-safe Circuits
54	IS 9570:1980	Classification of flammable gases or vapours with air according to their maximum experimental
	IEC 6007912	safe gaps and minimum igniting currents
	Reviewed In: 2011	
55	IS 9735:2003	Electrical Apparatus for Explosive Gas Atmospheres - Flmaeproof Enclosoures d - Method of Test
	IEC 60097-1-1	for Ascertainment of Maximum Experimental Safe Gap
	Reviewed In: 2008	

Annexure-II :List of Indian Product Standards

SI. No.	IS No. & Year	Title
1	IS 11333:1985	Specification for flameproof dry type transformers for use in mines
	Reviewed In: 2021 BS	
	5067 : 1974	
2	IS 2772:1982	Specification for non - Flameproof mining transformers for use below ground First Revision
	Reviewed In: 2022	
3	IS/IEC 60079-0:2017	Explosive Atmospheres Part 0 Equipment General Requirements Third Revision
	IEC 60079-0 : 2017	
	IEC 60079-0 : 2017	
4	IS/IEC 60079-2:2014	Explosive atmospheres Part 2 equipment protection by pressurized enclosure 39 39 p 39 39 First
	IEC 60079-2 : 2014	Revision
	Reviewed In: 2022 IEC	
	60079-2:2014	
5	IS/IEC 60079-6:2020	Explosive atmospheres - Part 6 Equipment protection by liquid immersion 34 o 34 Second
	IEC 60079-6:2020(Ed 4.1)	Revision
	ISO 15862 : 2009	
6	IS/IEC 60079-7:2017	Explosive atmospheres - Part 7 Equipment protection by increased safety 34 e 34 Second Revision
	IEC 60079-7:2017 (Ed 5.1)	
7	IS/IEC 60079-11:2023	Explosive Atmospheres Part 11 Equipment Protection by Intrinsic Safety i Second Revision
	IEC 60079-11:2023	
	YO WE G 40050 40 0045	
8	IS/IEC 60079-13:2017	Explosive Atmospheres Part 13 Equipment Protection by Pressurized Room 39 39 p 39 39 and
	IEC 60079-13 : 2017	Artificially Ventilated Room 39 39 v 39 39 First Revision
9	IS/IEC 60079-15:2017	EXPLOSIVE ATMOSPHERES PART 15 EQUIPMENT PROTECTION BY TYPE OF
9	IEC 60079-15:2017	PROTECTION 39 39 n 39 Second Revision
	ILC 00079-13.2017	1 ROTLETION 39 39 il 39 39 Secolid Revision
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