## **BUREAU OF INDIAN STANDARDS**

### **Program of Work**

### **TED 11: Automotive Electrical Equipment and Instruments**

Scope: a) Standardization relating to electrical and optical equipment, instruments and their related

components including electronics for automotive vehicles. b) Co-ordination of work with ISO/TC 22 and its Sub-committees ISO/ TC 22/ SC 31, ISO/ TC 22/ SC 32 and ISO/ TC 22/

SC 35.

Liaison: ISO TC-22 (P): Road vehicles ISO TC-22 SC-32 (P): Electrical and electronic components

and general system aspects ISO TC-22 SC-35 (P): Lighting and visibility ISO TC-22

**SC-41 (P):** *Specific aspects for gaseous fuels* 

#### **Published Standards**

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10250 : 1982	Specification for severities for	January, 2021	2	Indigenous
	Reviewed In: 2021	environmental tests for automotive			
		electrical equipment			
2	IS 1062: 2014	Road vehicles - Spark - Plugs -	June, 2019	-	Identical under dual
	ISO 11565 : 2006	Test methods and requirements			numbering
	Reviewed In: 2019	(Third Revision)			
	ISO 11565:2006				
3	IS 1063: 1997	Automotive vehicles - Ml4 x 1.25	March, 2022	1	Indigenous
	Reviewed In: 2022	spark plugs with flat seating and			
		their cylinder head housing -			
		Specification (Second Revision)			
4		Speedometer/odometer systems for	September, 2018	-	Indigenous
	Reviewed In: 2018	automotive application -			
		Specification (First Revision)			
5	IS 11098 : 1992	Automotive vehicles - Steering	December, 2022	1	Indigenous
	Reviewed In: 2022	column mounted combination			
		switches - Specification (First			
		Revision)			
6	IS 12508 : 2013	Electric Tachometer for	December, 2018	-	Indigenous
	Reviewed In: 2018	Automotive Vehicles —			
		Specification			
7	IS 12588 : 2014	Automotive vehicles - Oil and air	December, 2019	-	Indigenous
		assisted pressure gauges -			
	Reviewed In: 2019	Specification (First Revision)			
8	IS 13135 : 2016	Road vehicles - Motor vehicles -	November, 2021	-	Identical under dual
	ISO 4082 :1981	Flasher units (First Revision)			numbering
	Reviewed In: 2021				
	ISO 4082:1981	111 5	x 1 2021		T 11
9	IS 13226 : 1991	Automotive vehicles - Resistances	July, 2021	-	Indigenous
	Reviewed In: 2021	in starter motorcircuits - Methods			
10	IG 10010 1001	of measurement	D 1 2002	-	Y 1'
10	IS 13313 : 1991	Automotive vehicles - Electrical	December, 2022	-	Indigenous
	Reviewed In: 2022	wiring - Colour coding		-	

l 11	IS 13460 : 2005	Dood vahiolog Connectors for the	January 2021	1	Modified/Technically
11	IS 13460 : 2005 ISO 3732	Road vehicles - Connectors for the electrical connection of towing and	January, 2021	-	Modified/Technically Equivalent
		towed vehicles - 7 - Pole connector			Equivalent
	ISO 3732:2003	type 12 s (Supplementary) for			
		vehicles with 12 V nominal supply			
		voltage (First Revision)			
12	IS 13461 : 2005	Road vehicles - Connectors for the	January, 2021	-	Modified/Technically
	ISO 1724	electrical connection of towing and			Equivalent
	Reviewed In: 2021	towed vehicles - 7 - Pole connector			
	ISO 1724:2003	type 12 N (Normal) for vehicles			
		with 12 V nominal supply voltage			
12	TG 12401 2007	(First Revision)	1 2021		) / 1'C' 1/TC 1 ' 11
13	IS 13491 : 2005 ISO 1185	Road vehicles - Connectors for the	January, 2021	-	Modified/Technically
	Reviewed In: 2021	electrical connection of towing and towed vehicles - 7 - Pole connector			Equivalent
	ISO 1185:2003	type 24 N (Normal) for vehicles			
	130 1163.2003	with 24 V nominal supply voltage			
		(First Revision)			
14	IS 13499 : 2005	Road vehicles - Connectors for the	January, 2021	-	Identical under dual
	ISO 3731	electrical connection of towing and	<b>3</b> / -		numbering
	Reviewed In: 2021	towed vehicles - 7 - Pole connector			
	ISO 3731:2003	type 24 S (Supplementary) for			
		vehicles with 24 V nominal supply			
		voltage (First Revision)			
15	IS 13509 : 1992	Automotive vehicles - Towing	December, 2022	-	Indigenous
	Reviewed In: 2022	vehicles - Mounting of electrical			
16	IS 13599 : 2014	connections on rear cross members Automotive vehicles - Instrument	May, 2019		Indiannous
10	Reviewed In : 2019	systems - Temperature gauges -	May, 2019	-	Indigenous
	Keviewed III . 2019	Electrical and Electronic type -			
		Specification (First Revision)			
17	IS 13602 : 2013	Automotive vehicles - Instrument	September, 2018	-	Indigenous
	Reviewed In: 2018	systems - Temperature gauges	1 ,		
		mechanical types - Specification			
		(First Revision)			
18	IS 13646 : 2018	Automotive vehicles ? Instrument	-	-	Indigenous
		systems - Pressure gauges electrical			
		/ electronic type ? specification			
10	IS 13654 : 1993	(First Revision) Automotive vehicles - Instrument	Eshman, 2010	1	Indiannos
19	Reviewed In : 2019		February, 2019	1	Indigenous
	Kevieweu III : 2019	systems - Electrical speedometer performance requirements			
20	IS 13931 (Part 1):	Automotive vehicles - Stoplight	September, 2024	_	Indigenous
-	1993	switches: Part 1 specification			
	Reviewed In: 2024				
21	IS 13931 (Part 2):	Automotive vehicles - stoplight	September, 2024	1	Indigenous
	1993	switches: Part 2 methods of test			
	Reviewed In: 2024				
22	IS 14141 : 1994	Automotive vehicles - Electrical	July, 2019	-	Indigenous
	Reviewed In: 2019	windshield washing systems -			
	IC 14001 - 1007	Performance requiremeNts	Inn 2021	1	T I'
23	IS 14221 : 1995 Reviewed In : 2021	Automotive vehicles retro -	January, 2021	-	Indigenous
	Keviewed III: 2021	Reflective sheets and tapes - Specification			
24	IS 14380 : 1996	Automotive vehicles - Ignition	July, 2021	1	Indigenous
-		coils for magneto ignition systems -	- <i></i> , ,	1	
L		Specification		1	
25	IS 14381 : 1996	Automotive vehicles - Electrical	July, 2021	-	Indigenous
	Reviewed In: 2021	circuits - Recommended graphical			
I	I	1		I	1

l	l	symbols			1
26	IS 14813 : 2000 Reviewed In : 2021	Automotive vehicles - Air horns - Specification	January, 2021	1	Indigenous
27	IS 15350 : 2017	Automotive vehicles - Ignition systems - Methods of test	May, 2022	-	Indigenous
28	Reviewed In: 2022 IS 15364: 2003	Automotive vehicles - Spark -	February, 2019	-	Indigenous
29	Reviewed In : 2019 IS 15730 : 2006	Plugs M10 x 1 with flat seating AC flashers for 2 and 3 wheelers	July, 2021	-	Indigenous
30	Reviewed In : 2021 IS 15796 : 2008	Automotive vehicles - Horn	February, 2019	3	Indigenous
	Reviewed In: 2019	installation requirements			, and the second
31		Automotive vehicles - Windscreen wiping system for 4 wheelers other than ml category of vehicles - Requirements	February, 2019	1	Indigenous
32	IS 15804 : 2008 Reviewed In : 2019	Automotive vehicles - Windscreen wiping and washing system for ml category of vehicles - Requirements	February, 2019	2	Indigenous
33	IS 1606 : 1979 Reviewed In : 2019	Specification for automobile lamps (Second Revision)	May, 2019	3	Indigenous
34	IS 16211 : 2015  Reviewed In : 2020	Electromagnetic Radiation From Automotive Vehicle - Permissible Levels and Methods of Tests	December, 2020	-	Indigenous
35	IS 16325 : 2019	Automotive vehicles ? windscreen wiping system for 3 wheeler vehicles ? specification		-	Indigenous
36	IS 17436 : 2020	Automotive Vehicles - Advance- Warning Triangle - Specification		-	Indigenous
37	IS 1884 : 1993 Reviewed In : 2019	Automotive vehicles - Electric horns - Specification (Third Revision)	February, 2019	3	Indigenous
38	IS 2077 : 2014 Reviewed In : 2019	Automotive vehicles - Electric relays - Specification (Third Revision)	July, 2019	-	Indigenous
39	IS 2081 : 1998 Reviewed In : 2024	Automotive vehicles - Taper terminal cable connectors for batteries - Specification (Second Revision)	September, 2024	-	Indigenous
40	IS 2325 : 1981 Reviewed In : 2021	Specification for ignition coils for battery - Coil ignition systems for automobiles (First Revision)	January, 2021	3	Indigenous
41	IS 2577 (Part 1): 2018 ISO 8820-1:2014 Reviewed In: 2023 ISO 8820-1:2014	Road Vehicles - Fuse-Links Part 1 Definitions and General Test Requirements (Third Revision)	November, 2023	-	Identical under dual numbering
42	IS 2577 (Part 2): 2018 ISO 8820-2:2014 Reviewed In: 2023 ISO 8820-2:2014	Road Vehicles – Fuse-Links Part 2 User's Guide (Third Revision)	November, 2023	-	Identical under dual numbering
43	IS 2577 (Part 4): 2018 ISO 8820-4:2016 Reviewed In: 2023 ISO 8820-4:2016	Road Vehicles - Fuse Links Part 4 Fuse-links with Female Contacts (Type A) and Bolt-In Contacts (Type B) and their Test Fixtures (Third Revision)	November, 2023	-	Identical under dual numbering

44	IS 2577 (Part 5):	Road Vehicles - Fuse Links Part 5	November, 2023	-	Identical under dual
	2018	Links with Axial Terminals (Strip			numbering
	ISO 8820-5 : 2015	Fuse-links) Types SF30 and SF51			
	Reviewed In: 2023	and Test Fixtures (Third Revision)			
15	ISO 8820-5:2015	Dead Webbles - Free Bules - Dead			T.1
45	IS 2577 (Part 6): 2022	Road Vehicles - Fuse-links - Part		-	Identical under dual
	ISO 8820-6:2019	6: Single-bolt fuse-links			numbering
	ISO 8820-6:2019				
46	IS/ISO 26262-1 :	ISO 26262-1 Road vehicles		-	Identical under single
	2018	Functional safety Part 1:			numbering
	ISO 26262-1:2018	Vocabulary			
	ISO 26262-1:2018				
47	IS/ISO 26262-2:	Road vehicles Functional safety		-	Identical under single
	2018	Part 2: Management of functional			numbering
	ISO 26262-2:2018	safety			
48	ISO 26262-2:2018 IS/ISO 26262-3:	Road vehicles Functional safety			Identical under single
40	2018	Part 3: Concept phase		· -	numbering
	ISO 26262-3:2018	r art 5. Concept phase			numbering
	ISO 26262-3:2018				
49	IS/ISO 26262-4 :	Road vehicles Functional safety		-	Identical under single
	2018	Part 4: Product development at the			numbering
	iso 26262-4:2018	system level			
	iso 26262-4:2018				
50	IS/ISO 26262-5:	Road vehicles Functional safety		-	Identical under single
	2018	Part 5: Product development at the			numbering
	ISO 26262-5:2018	hardware level			
<i>E</i> 1	ISO 26262-5:2018	Dead askislas Francis and a fate			Tilenatical condensationals
51	IS/ISO 26262-6 : 2018	Road vehicles Functional safety Part 6: Product development at the		-	Identical under single numbering
	ISO 26262-6:2018	software level			numbering
	ISO 26262-6:2018	Software level			
52	IS/ISO 26262-7 :	Road vehicles Functional safety		-	Identical under single
	2018	Part 7: Production, operation,			numbering
	ISO 26262-7:2018	service and decommissioning			
	ISO 26262-7:2018				
53	IS/ISO 26262-8:	Road vehicles Functional safety		-	Identical under single
	2018	Part 8: Supporting processes			numbering
	ISO 26262-8:2018				
54	ISO 26262-8:2018 IS/ISO 26262-9:	Road vehicles Functional safety		_	Identical under single
	2018	Part 9: Automotive safety integrity			numbering
	ISO 26262-9:2018	level (ASIL)-oriented and safety-			
	ISO 26262-9:2018	oriented analyses			
55	IS/ISO 26262-10:	Road vehicles Functional safety		-	Identical under single
	2018	Part 10: Guidelines on ISO 26262			numbering
	ISO 26262-10:2018				
-	ISO 26262-10:2018			1	Identical and a 1 1
56	IS/ISO 26262-11 : 2018	Road vehicles Functional safety		-	Identical under single
	ISO 26262-11:2018	Part 11: Guidelines on application of ISO 26262 to semiconductors			numbering
	ISO 26262-11:2018				
57	IS/ISO 26262-12 :	Road vehicles Functional safety		-	Identical under single
	2018	Part 12: Adaptation of ISO 26262			numbering
	ISO 26262-12:2018	_			
	ISO 26262-12:2018	•			
58	IS 3141 : 2007	Starter motors for internal	December, 2022	-	Indigenous
	Reviewed In: 2022	combustion engines used for			
•	•	i .		•	•

1		automotive and other applications -		I	1
		Specification (Second Revision)			
59	IS 4050 : 1976	Methods of tests for horn switches	January, 2021	2	Indigenous
	Reviewed In: 2021	for automobiles (First Revision)			
60	IS 4060 : 1994	Automotive vehicles - Flashers for	December, 2019	1	Indigenous
	Reviewed In: 2019	direction indicators - Specification (Second Revision)			
61	IS 4061 : 1967	Specification for headlight	January, 2021	1	Indigenous
	Reviewed In: 2021	switches for automobiles	-		
62	IS 4061 : 2024	Headlight Switch for Automobiles		-	Indigenous
(2)	10.4062 1002	â€" Specification (First Revision)	1 2021		T 1'
63	IS 4063 : 1982 Reviewed In : 2021	Specification for fuse box for automobiles (First Revision)	January, 2021	-	Indigenous
64	IS 4086 : 1983	Specification for distributors for	January, 2021	_	Indigenous
	Reviewed In: 2021	spark ignition engines (First	ounumy, 2021		margenous
		Revision)			
65	IS 4362 : 1979	Specification for number plate	January, 2021	2	Indigenous
	Reviewed In: 2021	lighting devices for automobiles			
66	IS 4373 : 1967	(First Revision) Specification for hydraulically	January, 2021	2	Indiganous
00	Reviewed In : 2021	operated stop light switches for	January, 2021	2	Indigenous
	Reviewed III . 2021	automobiles			
67	IS 4815 : 1982	Specification for self - Cancelling	January, 2021	-	Indigenous
	Reviewed In: 2021	direction indicator switches for			
	70.7120. 4017	automobiles (First Revision)			<u> </u>
68	IS 5439 : 2017	Oil pressure switches for	May, 2022	-	Indigenous
	Reviewed In: 2022	automobiles - Specification (Second Revision)			
69	IS 5545 : 1977	Specification for fog lights for	January, 2021	_	Indigenous
	Reviewed In: 2021	automobiles (First Revision)	· · · · · · · · · · · · · · · · · · ·		
70	IS 5546 : 1981	Specification for distribution caps	January, 2021	-	Indigenous
	Reviewed In: 2021	and rotor arms for automobiles			
	10.5562 2000	(First Revision)	1 2021		T 1'
71	IS 5562 : 2000 Reviewed In : 2021	Automotive vehicles - Fuel gauges - Cross coil movement type -	January, 2021	-	Indigenous
	Reviewed III . 2021	Specification (Second Revision)			
72	IS 5577 : 2015	Automotive vehicles - Ammeters -	March, 2020	-	Indigenous
	Reviewed In: 2020	Specification (Third Revision)	•		
73	IS/ISO 6722-1:	Road vehicles 60 V and 600 V		-	Identical under single
	2011	single-core cables Part 1:			numbering
	ISO 6722-1:2011	Dimensions test methods and requirements for copper conductor			
		cables			
74	IS/ISO 6722-2 :	Road vehicles - 60 V and 600 V		-	Identical under single
	2013	single - Core cables: Part 2			numbering
	ISO 6722-2 : 2013	dimensions, test methods and			
	ISO 6722-2:2013	requirements for aluminium			
75	IS 7471 : 1974	conductor cables (First Revision)  Recommendation for polarity of	January, 2021		Indigenous
'3	Reviewed In : 2021	earth connections and marking of	January, 2021	_	margenous
		electrical equipment for			
		automobiles			
76	IS 7827 (Part 1):	Specification for electrical wind	January, 2021	1	Indigenous
	1975	screen wipers: Part 1 wiper system			
77	Reviewed In: 2021	Specification for electrical wind	January 2021	2	Indianava
''	IS 7827 (Part 2): 1975	screin wipers: Part 2 wiper motors	January, 2021		Indigenous
	Reviewed In: 2021	wiper motors			
78	IS 7827 (Part 3/Sec	Automotive vehicles electrical	February, 2019	-	Indigenous
I	I	ı		I	I

	1): 1993 Reviewed In: 2019	wiNd screEn wipers: Part 3 wiper arms and blades section 1 wiper arms - Specification			
79	9 IS 7827 (Part 3/Sec Specification for electrical wind 2): 1985 Serviewed In: 2024 and blades section 2 wiper blades		-	Indigenous	
80	IS 7953 : 1976 Reviewed In : 2021	Specification for horn rings for automobiles	January, 2021	1	Indigenous
81	IS 7998 : 1986 Reviewed In : 2021	Specification for contact breakers for two wheelers, three wheelers and stationary spark ignition engines (First Revision)	January, 2021	2	Indigenous
82	IS 8339: 1993 Reviewed In: 2024 Decision taken to Reaffirm and Archive	Automotive vehicles - Reflex reflectors - Specification (First Revision)	September, 2024	-	Indigenous
83 IS 8395 (Part 1): Specification for cable January, 2021 1977 terminations for automobile wiring: Reviewed In: 2021 Part 1 blade type connectors (Male And Female)		January, 2021	1	Indigenous	
84	IS 8395 (Part 2): 1977 Reviewed In: 2021	Specification for cable terminations for automobile wiring: Part 2 bullet and tube connectors	January, 2021	1	Indigenous
85	IS 8925 : 2015 ISO 8854 : 2012 Reviewed In : 2021 ISO 8854:2012	Road vehicles - Alternators with regulators - Test methods and general requirements (First Revision)	March, 2021	-	Identical under dual numbering
86	IS 9264 (Part 1): 1979 Reviewed In: 2021	Specification for interior lighting of motor vehicle: Part 1 general requirements and recommendations	January, 2021	-	Indigenous
87	IS 9432 : 1980 Reviewed In : 2021	Specification for ignition switches for automobiles	January, 2021	2	Indigenous
88	IS 9433 : 1980 Reviewed In : 2021	Specification for piano key type switches for use in automobiles	January, 2021	1	Indigenous
89	IS 9500 : 2017 Reviewed In : 2022	360 degree rotary emergency warning lights/special warning lamps - Specification (First Revision)	August, 2022	-	Indigenous
90	IS 9521 : 1980 Reviewed In : 2021	Specification for push - Button type switches for automotive vehicles	January, 2021	-	Indigenous

# **Standards under Development**

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

	Preliminary Draft Standards					
SI. No.	Doc No.	Title				
1	TED 11 (22534) Revision	Recommendation for Polarity of Earth Connections and Marking of Electrical Equipment for				
	of: IS 7471:1974	Automobiles				
2	TED 11 (23075) Revision	PIANO KEY TYPE SWITCHES FOR USE IN AUTOMOBILES SPECIFICATION				
	of: IS 9433:1980					

3	TED 11 (23215) Revision	HORN SWITCHES FOR AUTOMOBILES METHODS OF TESTS
	of: IS 4050:1976	
4	TED 11 (23335) Revision	AUTOMOTIVE VEHICLES - AUDIBLE WARNING DEVICES SPECIFICATION
	of: IS 1884:1993	

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

	Draft Standards Completed WC Stage				
SI. No.	Doc No.	Title			
1	TED 11 (20542)	Self-Cancelling Direction Indicator Switch for Automotive Vehicles - Specification			
2	TED 11 (20737)	Push Button Type Switch for Automotive vehicles - Specification			
3	TED 11 (26207)	ROAD VEHICLES CYBER SECURITY ENGINEERING			

	Finalized Draft Indian Standard				
SI. No.	Doc No.	Title			
1	TED 11 (16959)	Road vehicles Fuse-links Part 3 Fuse-links with tabs Blade type Type C Medium Type E High current Type F miniature Type N and Type P Sub-miniature			

Finalized Draft Indian Standards under Print		
SI. No.	Doc No.	Title
No Records Found		

### Total Published Standards:89 Total Standards Under development:8

## **Aspect Wise Report**

Product: 66
Code of Practices: 3
Methods of Test: 7
Terminology: 1
Dimensions: 0
System Standard: 0
Safety Standard: 12
Others: 0

Service Specification : 0 Process Specification : 0 Unclassified : 0

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

SI. No.	IS No. & Year	Title
1	IS 10256 : 1982	Code of practice for installation of stop tail and turn signal lights for automobiles
2	IS 13437 : 2012	Road vehicles - Working voltages for lights fitted to motor vehicles and to their trailers First
	SO 3559 : 1976	Revision
	Reviewed In: 2017	
3	IS 2577 : 1974	Cartridge Fuse-links for Automobiles
	Reviewed In: 2011	
4	IS 2577 (Part 7): 2012	Road vehicles - Fuse - Links Part 7 fuse - Links with tabs Type G with rated voltage of 450 V
	ISO 8820-7 : 2007	Second Revision
	Reviewed In: 2017	
5	IS 2646 : 1986	Generator Dynamos for Automobiles

6	IS 3105 : 1980	General requirements for automobile lighting and signalling devices
7	IS 3563 : 1993	Automotive vehicles - Headlights replaceable lamp type
8	IS 3628 : 1966	Sidelights tail-lights parking lights stop lights and direction indicators for automobile use
9	IS 4062 : 1986 Reviewed In : 2021	Specification for foot - Operated head - Light dip switches for automobiles First Revision
10	IS 4370 : 1967	Code of practice for the use of lighting and signalling devices on cars and commercial vehicle
11	IS 5977 : 1981	Regulators for Automobile dc Generators Dynamos
12	IS 7528 : 1974	Porcelain Moulded Fuse-Links for Automobiles
13	IS 8415 : 1977	Mounting dimensions of head lights for automobiles
14	IS 8416 : 1977	Mounting Dimensions of Fog Lights for Automobiles
15	IS 9961 : 1981	Reversing Lights for Automobiles

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

SI. No.	IS No. & Year	Title
1	IS 1063 : 1997	Automotive vehicles - Ml4 x 1 25 spark plugs with flat seating and their cylinder head housing -
	Reviewed In: 2022	Specification Second Revision
2	IS 11086 : 2013	Speedometer odometer systems for automotive application - Specification First Revision
	Reviewed In: 2018	
3	IS 11098 : 1992	Automotive vehicles - Steering column mounted combination switches - Specification First
	Reviewed In: 2022	Revision
4	IS 12508 : 2013	Electric Tachometer for Automotive Vehicles Specification
	Reviewed In: 2018	
5	IS 12588 : 2014	Automotive vehicles - Oil and air assisted pressure gauges - Specification First Revision
	Reviewed In: 2019	
6	IS 13135 : 2016	Road vehicles - Motor vehicles - Flasher units First Revision
	ISO 4082 :1981	
	Reviewed In: 2021 ISO	
	4082:1981	
7	IS 13460 : 2005	Road vehicles - Connectors for the electrical connection of towing and towed vehicles - 7 - Pole
	ISO 3732	connector type 12 s Supplementary for vehicles with 12 V nominal supply voltage First Revision
	Reviewed In: 2021 ISO	
	3732:2003	
8	IS 13461 : 2005	Road vehicles - Connectors for the electrical connection of towing and towed vehicles - 7 - Pole
	ISO 1724	connector type 12 N Normal for vehicles with 12 V nominal supply voltage First Revision
	Reviewed In: 2021 ISO	
	1724:2003	
9	IS 13491 : 2005	Road vehicles - Connectors for the electrical connection of towing and towed vehicles - 7 - Pole
	ISO 1185	connector type 24 N Normal for vehicles with 24 V nominal supply voltage First Revision
	Reviewed In: 2021 ISO	
	1185:2003	
10	IS 13499 : 2005	Road vehicles - Connectors for the electrical connection of towing and towed vehicles - 7 - Pole
	ISO 3731	connector type 24 S Supplementary for vehicles with 24 V nominal supply voltage First Revision
	Reviewed In: 2021 ISO	
	3731:2003	
11	IS 13509 : 1992	Automotive vehicles - Towing vehicles - Mounting of electrical connections on rear cross
	Reviewed In: 2022	members
12	IS 13599 : 2014	Automotive vehicles - Instrument systems - Temperature gauges - Electrical and Electronic type -

1	Reviewed In: 2019	Specification First Revision
13	IS 13602 : 2013	Automotive vehicles - Instrument systems - Temperature gauges mechanical types - Specification
	Reviewed In: 2018	First Revision
14	IS 13646 : 2018	Automotive vehicles Instrument systems - Pressure gauges electrical electronic type specification First Revision
15	IS 13654 : 1993	Automotive vehicles - Instrument systems - Electrical speedometer performance requirements
	Reviewed In: 2019	
16	IS 13931 (Part 1): 1993 Reviewed In: 2024	Automotive vehicles - Stoplight switches Part 1 specification
17	IS 13931 (Part 2): 1993	Automotive vehicles - stoplight switches Part 2 methods of test
	Reviewed In: 2024	
18	IS 14221 : 1995 Reviewed In : 2021	Automotive vehicles retro - Reflective sheets and tapes - Specification
19	IS 14380 : 1996	Automotive vehicles - Ignition coils for magneto ignition systems - Specification
17	Reviewed In: 2021	rationiotive venicles against constrol magneto against systems operation
20	IS 14813 : 2000	Automotive vehicles - Air horns - Specification
20	Reviewed In : 2021	Automotive venicles - An norms - Specification
21	IS 15364 : 2003	Automotive vehicles - Spark - Plugs M10 x 1 with flat seating
21	Reviewed In : 2019	Automotive vehicles - Spark - Flugs WTO x 1 with flat seating
22	IS 15730 : 2006	AC flashers for 2 and 3 wheelers
22	Reviewed In : 2021	AC flashers for 2 and 3 wheelers
23	IS 15796 : 2008	Automotive vehicles - Horn installation requirements
23	Reviewed In : 2019	Automotive venicles - from instantation requirements
24	IS 15802 : 2008	Automotive vehicles - Windscreen wiping system for 4 wheelers other than ml category of
2-	Reviewed In : 2019	vehicles - Requirements
25	IS 15804 : 2008	Automotive vehicles - Windscreen wiping and washing system for ml category of vehicles -
23	Reviewed In : 2019	Requirements
26	IS 1606 : 1979	Specification for automobile lamps Second Revision
20	Reviewed In: 2019	Specification for automobile lamps second Revision
27	IS 16325 : 2019	Automotive vehicles windscreen wiping system for 3 wheeler vehicles specification
	15 10325 . 2017	Tratemetre venicles windscreen wiping system for 5 wheeler venicles specification
28	IS 17436 : 2020	Automotive Vehicles - Advance-Warning Triangle - Specification
29	IS 1884 : 1993	Automotive vehicles - Electric horns - Specification Third Revision
	Reviewed In: 2019	Tratomotive venteres Electric norms specification Time revision
30	IS 2077 : 2014	Automotive vehicles - Electric relays - Specification Third Revision
	Reviewed In: 2019	Flatomotive veinoles Electric relays specification finite revision
31	IS 2081 : 1998	Automotive vehicles - Taper terminal cable connectors for batteries - Specification Second
	Reviewed In: 2024	Revision Revision
32	IS 2325 : 1981	Specification for ignition coils for battery - Coil ignition systems for automobiles First Revision
	Reviewed In: 2021	
33	IS 2577 (Part 4): 2018	Road Vehicles - Fuse Links Part 4 Fuse-links with Female Contacts Type A and Bolt-In Contacts
	ISO 8820-4 :2016	Type B and their Test Fixtures Third Revision
	Reviewed In: 2023 ISO	
	8820-4:2016	
34	IS 2577 (Part 5): 2018	Road Vehicles - Fuse Links Part 5 Links with Axial Terminals Strip Fuse-links Types SF30 and
	ISO 8820-5 : 2015	SF51 and Test Fixtures Third Revision
	Reviewed In: 2023 ISO	
	8820-5:2015	
35	IS 2577 (Part 6): 2022	Road Vehicles - Fuse-links - Part 6 Single-bolt fuse-links
	ISO 8820-6:2019	
	ISO 24263 : 2020	
36	IS 3141 : 2007	Starter motors for internal combustion engines used for automotive and other applications -
	Reviewed In: 2022	Specification Second Revision
37	IS 4060 : 1994	Automotive vehicles - Flashers for direction indicators - Specification Second Revision
	Reviewed In: 2019	

38	IS 4061 : 2024	Headlight Switch for Automobiles Specification First Revision
39	IS 4063 : 1982	Specification for fuse box for automobiles First Revision
	Reviewed In: 2021	Specification for ruse box for automobiles I list Revision
40	IS 4086 : 1983	Specification for distributors for spark ignition engines First Revision
	Reviewed In: 2021	The state of the s
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