### **BUREAU OF INDIAN STANDARDS**

### **Program of Work**

## **TXD 32: Textiles Protective Clothing**

Scope: To formulate Indian Standards for testing and specification for textile protective clothing for

protection from fire and other health/life hazards.

Liaison: ISO TC-94 (P): Personal safety -- Personal protective equipment ISO TC-94

SC-13 (P): Protective clothing ISO TC-94 SC-14 (P): Firefighters' personal equipment ISO

TC-38 (P): Textiles

### **Published Standards**

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10054 : 1996	Textiles – High density	October, 2022	1	Indigenous
	Reviewed In: 2022	polyethylene (HDPE)			
		monofilament mosquito netting,			
		round mesh – Specification (first			
		revision)			
2	IS 1097: 1979	Specification for handloom cotton	July, 2018	1	Indigenous
	Reviewed In: 2018	mosquito netting (first revision)			
3	IS 1143:1973	Specification for cotton mosquito	July, 2023	2	Indigenous
	Reviewed In: 2023	netting, square mesh (first revision)			
4	IS 11871 : 1986	Methods for determination of	January, 2023	-	Indigenous
	Reviewed In: 2023	flammability and flame resistance			
		of textile fabrics			
5	IS 12467 (Part 1):	Textiles – Assessment of the	January, 2023	-	Indigenous
	2006	ignitability of upholstered furniture			
	Reviewed In: 2023	Part 1 Ignition source: smouldering			
		cigarette (first revision)			
6	IS 12467 (Part 2):	Textiles – Assessment of the	January, 2023	-	Indigenous
	2006	ignitability of upholstered furniture			
	Reviewed In: 2023	Part 2 Ignition source: match flame			
		equivalent (first revision)			
7	IS 12722: 1989	Textile floor coverings –	January, 2023	-	Indigenous
	Reviewed In: 2023	Determination of flame resistance			
		by tablet test			
8	IS 13501:1992	Textjles - Determination of	January, 2023	1	Indigenous
	Reviewed In: 2023	flammability by oxygen index			
9	IS 1431:1973	Specification for cotton mosquito	August, 2021	3	Indigenous
	Reviewed In: 2021	netting, round mesh (first revision)			
10	IS 14744 : 1999	Flame retardent protective hoods -	November, 2019	-	Indigenous
	Reviewed In: 2019	Specification			
11	IS 14953 : 2006	Textiles – Polyester or polyamide	August, 2021	1	Indigenous
	Reviewed In: 2021	mosquito nets – Specification (first			
		revision)			
12	IS 15071 : 2002	Chemical protective clothing -	November, 2019	-	Not Equivalent
	Reviewed In: 2019	Specification			
	ISO 16602:2007				
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13	IS 15321 : 2003	Molten metal splash protective	November, 2019	_	Indigenous
	Reviewed In: 2019				
14	IS 15589 : 2005	Textiles fabrics – Burning	January, 2023	-	Identical under dual
	ISO 6940	behaviour – Determination of ease			numbering
	Reviewed In: 2023	of ignition of vertically oriented			
	ISO 6940:2004	specimens			
15	IS 15590 : 2005	Textile fabrics - Burning behaviour	January, 2023	-	Identical under dual
	ISO 6941	- Measurement of flame spread			numbering
	Reviewed In: 2023	properties of vertically oriented			
1.6	ISO 6941:2003	specimens	1 2022		Y 11
16	IS 15612 (Part 1):	Textiles – Burning behaviour of	January, 2023	-	Indigenous
	2005	curtains and drapes Part 1			
17	Reviewed In : 2023 IS 15612 (Part 2) :	Classification scheme	January 2022		Indigenous
1 /	2006	Textiles – Burning behaviour of	January, 2023	-	Indigenous
	Reviewed In: 2023	curtains and drapes Part 2 Measurement of flame spread of			
	Reviewed III . 2023	vertically oriented specimens with			
		large ignition source			
18	IS 15612 (Part 3):	Textiles – Burning behaviour of	January, 2023	_	Indigenous
10	2005	curtains and drapes Part 3 Method	Januar J., 2023		indigenous
	Reviewed In: 2023	for determining the ignitability of			
	110 / 10 / 10 / 10 / 20 20	vertically oriented specimens			
		(Small flame)			
19	IS 15612 (Part 4):	Textiles – Burning behaviour of	January, 2023	-	Indigenous
	2005	curtains and drapes Part 4 Method	<b>J</b> /		
	Reviewed In: 2023	for determining the flame spread			
		of vertically oriented specimens			
20	IS 15727 (Part 1):	Textiles – Assessment of the	-	-	Identical under single
	2020	ignitability of bedding items Part 1			numbering
	ISO 12952-1 : 2010	Ignition source: Smouldering			
	ISO 12952-1:2010	cigarette (first revision)			
21	IS 15727 (Part 2):	Textiles – Assessment of the	-	-	Identical under single
	2020	ignitability of bedding items Part 2			numbering
	ISO 12952-2 : 2010	C			
	ISO 12952-2:2010	equivalent (first revision)			
22	IS 15741 : 2007	Textiles - Resistance to ignition of	January, 2023	1	Indigenous
	Reviewed In: 2023	curtains and drapes - Specification			
23	IS 15742 : 2007	Textiles - Requirements for	January, 2023	1	Indigenous
	Reviewed In: 2023	clothing made of limited flame			
		spread materials and material			
		assemblies affording protection			
		against heat and flame -			
24	IS 15748 : 2022	Specification Protective clothing - Clothing to		2	Identical under dual
24	ISO 11612:2015	protective clothing - Clothing to protect against heat and flame -			numbering
	ISO 11612:2015	Minimum performance			numbering
	150 11012,2013	requirements (first revision)			
25	IS 15758 (Part 1):	Textiles – Protective clothing Part	-	-	Identical under dual
	2020	1 Determination of heat			numbering
	ISO 9151 : 2016	transmission on exposure to flame			
	ISO 9151:2016	(first revision)			
26	IS 15758 (Part 2):	Textiles – Protective clothing Part	January, 2023	-	Identical under dual
	2007	2 Assessment of material	-		numbering
	ISO ISO 6942	assemblies when exposed to source			
	Reviewed In: 2023	of radiant heat			
	ISO 6942:2002				
27	IS 15758 (Part 3):	Textiles – Protective clothing Part	January, 2023	-	Identical under dual
	2007	3 Test methods for resistance of			numbering
	ISO 6530	materials to penetration by liquids			
•	ı	ı		1	I

ĺ	Reviewed In: 2023	1		1	1
	ISO 6530:2005				
28	IS 15758 (Part 4):	Textiles – Protective clothing Part	-	_	Identical under dual
-	2020	4 Method of test for limited flame			numbering
	ISO 15025 : 2016	spread (first revision)			
	ISO 15025:2016	-			
29	IS 15758 (Part 5):	Textiles – Protective clothing Part	=	-	Identical under dual
	2020	5 Assessment of resistance of			numbering
	ISO 9185 : 2007	materials to molten metal splash			
	ISO 9185:2007	(first revision)			
30	IS 15764 : 2008	Textiles - Determination of	January, 2023	-	Indigenous
	Reviewed In: 2023	burning behaviour of textile floor			
31	IS 15768 : 2008	coverings Textiles – Resistance to ignition of	January, 2023	2	Indigenous
31	Reviewed In : 2023	upholstered composites used for	January, 2023	2	margenous
	Reviewed III . 2023	non-domestic furniture –			
		Specification			
32	IS 15781 : 2008	Textiles - Method for	January, 2023	_	Indigenous
	Reviewed In: 2023	determination of flammability of	<b>3</b> /		
		blankets			
33	IS 15782 : 2008	Textiles - Method for determining	January, 2023	-	Indigenous
	Reviewed In: 2023	deterioration of visibility due to			
		smoke released on combustion of			
		materials			
34	IS 15809 : 2017	High visibility warning clothes –	March, 2022	2	Not Equivalent
	D : 11 2022	Specification (first revision)			
	Reviewed In : 2022				
35	ISO 20471:2013 IS 16655 : 2017	Textiles - Protective clothing for	April, 2022	2	Identical under dual
	ISO 11611 : 2015	use in welding and allied processes	Aprii, 2022	2	numbering
	Reviewed In : 2022	use in weiging and affect processes			numbering
	ISO 11611:2015				
36	IS 16725 : 2018	Textiles - Tactical 3 points sling	March, 2023	1	Indigenous
		universal - Specification			
	Reviewed In: 2023				
37	IS 16726 : 2018	Textiles – Pouch for ammunition	March, 2023	-	Indigenous
		and grenades made of disruptive			
	Reviewed In: 2023	pattern nylon 6 6 – Specification			
38	IS 16874 : 2018	Textiles - Protective gloves for	March, 2023	1	Indigenous
	Davierna d In 1 2022	firefighters - Specification			
39	Reviewed In: 2023 IS 16890: 2018	Textiles - Protective clothing for	March, 2023	1	Indigenous
39	13 10090 . 2016	firefighters - Specification	Maich, 2023	1	margenous
	Reviewed In: 2023	menginers opecification			
40	IS 17051 : 2018	Textiles - Bullet resistant jackets -	March, 2023	3	Indigenous
		Performance requirements	,		
	Reviewed In: 2023	-			
41	IS 17286 : 2019	Textiles – Water-proof	March, 2024	-	Indigenous
		multipurpose rain poncho with			
	Reviewed In: 2024	convertibility as bivouac –			
10	TO 17001 2010	Specification	), 1 000.		<u> </u>
42	IS 17291 : 2019	Textiles – Flame retardant jute	March, 2024	-	Indigenous
	Davious d In 2004	based decorative and cover fabric			
	Reviewed In: 2024	for temporary structure –			
43	IS 17377 (Part 1):	Specification Textiles – Nuclear Biological		+	Indigenous
73	2020	Chemical (NBC) permeable		_	marganous
	2020	protective clothing Part 1			
		Qualitative method of determining			
I	l			1	1

	•	1	<b>1</b>		
		breakthrough time on exposure to			
		chemical warfare agent – Sulfur			
		mustard (HD)			
44	IS 17377 (Part 2):	Textiles – Nuclear Biological		-	Indigenous
	2020	Chemical (NBC) permeable			
		protective clothing Part 2			
		Quantitative method of			
		determining permeation resistance			
		on exposure to chemical warfare			
		agent – Sulfur mustard (HD)			
45	IS 17380 : 2020	Textiles – Test method for		-	Indigenous
		permeation testing of protective			
		ensembles with nerve agents or			
		simulants			
46	IS 17462 (Part 1):	Clothing for Protection against		-	Identical under dual
		Heat and Flame - Determination of			numbering
	ISO 12127-1 : 2015	Contact Heat Transmission through			
	ISO 12127-1:2015	Protective Clothing or Constituent			
		Materials Part 1 Contact Heat			
		Produced by Heating Cylinder			
47	IS 17462 (Part 2):	Clothing for Protection against		-	Identical under dual
	2020	Heat and Flame â€" Determination			numbering
	ISO 12127-2:2007	of Contact Heat Transmission			
	ISO 12127-2:2007	through Protective Clothing or			
		Constituent Materials Part 2 Test			
		Method using Contact Heat			
		Produced by Dropping Small			
		Cylinders			
48	IS 17463 : 2020	Clothing for protection against		-	Identical under dual
	ISO 13994:2005	liquid chemicals Determination of			numbering
	ISO 13994:2005	the resistance of protective clothing			
		materials to penetration by liquids			
		under pressure			
49	IS 17464 : 2020	Protective Clothing - Mechanical		-	Identical under dual
	ISO 13995 : 2000	Properties - Test Method for the			numbering
	ISO 13995:2000	Determination of the Resistance to			_
		Puncture and Dynamic			
50	IS 17465 : 2020	Protective Clothing - Mechanical		-	Identical under dual
	ISO 13996 : 1999	Properties - Determination of			numbering
	ISO 13996:1999	Resistance to Puncture			
51	IS 17466 : 2020	Protective Clothing - Mechanical		-	Identical under dual
	ISO 13997 : 1999	Properties - Determination of			numbering
	ISO 13997:1999	Resistance to Cutting by Sharp			•
		Objects			
52	IS 17467 (Part 1):	Protective clothing Test methods		-	Identical under dual
	2020	for clothing providing protection			numbering
	ISO 17491-1:2012	against chemicals Part 1:			Č
	ISO 17491-1:2012	Determination of resistance to			
		outward leakage of gases internal			
		pressure test			
53	IS 17467 (Part 2):	Protective Clothing - Test Methods		-	Identical under dual
	2020	for Clothing Providing Protection			numbering
	ISO 17491-2 : 2012				S
	ISO 17491-2:2012	Determination of Resistance to			
		Inward Leakage of Aerosols and			
		Gases (Inward Leakage Test)			
54	IS 17467 (Part 3):	Protective Clothing - Test Methods		-	Identical under dual
້ໍ	2020	for Clothing Providing Protection			numbering
	ISO 17491-4 : 2008	against Chemicals Part 4			
l				l	

1	100 17401 2-2000	Determination of Resistance to	1	I	
	ISO 17491-3:2008				
		Penetration by a Spray of Liquid (			
	IC 17467 (Dont 4)	Spray Test )			Identical under duel
55	` ′	Protective Clothing - Test Methods		-	Identical under dual
	2020	for Clothing Providing Protection			numbering
	ISO 17491-4 : 2008	against Chemicals Part 4			
	ISO 17491-4:2008	Determination of Resistance to			
		Penetration by a Spray of Liquid (			
<u> </u>		Spray Test )			
56	` ′	Protective Clothing - Test Methods		-	Identical under dual
	2020	for Clothing Providing Protection			numbering
	ISO 17491-5 : 2013	~			
	ISO 17491-5:2013	Determination of Resistance to			
		Penetration by a Spray of Liquid (			
		Manikin Spray Test )			
57	IS 17468 : 2020	Clothing and Equipment for		-	Identical under dual
		Protection against Heat - Test			numbering
	ISO 17493:2016	Method for Convective Heat			
		Resistance using a Hot Air			
		Circulating Oven			
58		Protective clothing against heat and		-	
	2022	flame - Part 1 Test method for			
	ISO 13506-1:2017	complete garments - Measurement			
		of transferred energy using an			
		instrumented manikin			
59	IS 17881 (Part 2):	Protective clothing against heat and		-	
	2022	flame - Part 2 Skin burn injury			
	ISO 13506-2:2017	prediction - Calculation			
		requirements and test cases			
60	IS 18589 (Part 3):	Wildland firefighting personal		-	Identical under dual
	2024	protective equipment -			numbering
	ISO 16073-3:2019	Requirements and test methods			
	ISO 16073-3:2019	part 3: Clothing			
61	IS 18589 (Part 4):	Wildland firefighting personal		-	Identical under dual
	2024	protective equipment			numbering
	ISO 16073-4 : 2019	Requirements and test methods			
	ISO 16073-4 : 2019	Part 4: Gloves			
62	IS 18804 : 2024	Cleaning Inspection and Repair of		-	Identical under dual
	ISO 23616 : 2022	Firefighters Personal Protective			numbering
	ISO 23616 : 2022	Equipment PPE			_
63	IS 18849 : 2024	Textiles - Workwear for cement		-	Indigenous
L_		workers - Specification			
64	IS 18931 : 2024	Textiles - Fire resistant fabric		-	Indigenous
		made of Cotton Man-made			
		fibres/filaments and their blends -			
		General and Performance			
		Requirements			
65	IS 4355 : 1977	Specification for fire-resistant	July, 2022	1	Indigenous
	Reviewed In: 2022	brattice cloth (first revision)	•		
66	IS 6994 (Part 1):	Protection of Arms and Hands Part		-	Identical under dual
	2021	1 Protective Gloves against			numbering
	ISO 374-1 : 2016	Dangerous Chemicals and Micro-			
	ISO 374-1 : 2016	organisms-Terminology and			
		performance requirements for			
		chemical risks (First revision)			
67	IS 6994 (Part 2):	Protection of Arms and Hands Part		-	Identical under dual
	2021	2 Protective Gloves against			numbering
	ISO 374-2 : 2019	Dangerous Chemicals and Micro-			
	ISO 374-2 : 2019	organisms- Determination of			
I	l i	l		I	1

1	I	resistance to penetration		I	
68	IS 6994 (Part 4):	Protection of Arms and Hands Part		_	Identical under dual
	2021	4 Protective Gloves against			numbering
	ISO 374-4 : 2019	Dangerous Chemicals and Micro-			
	ISO 374-4 : 2019	organisms- Determination of			
		resistance to degradation by			
		chemicals			
69	IS 6994 (Part 5):	Protection of Arms and Hands Part		-	Identical under dual
	2021	5 Protective Gloves against			numbering
	ISO 374-5 : 2016	Dangerous Chemicals and Micro-			
	ISO 374-5 : 2016	organisms - Terminology and			
		performance requirements for			
		micro-organisms risks			
70	IS 6994 (Part 6):	Protection of Arms and Hands Part		-	Identical under dual
	2021	6 Protective gloves against			numbering
	ISO 23388 : 2018	mechanical risks			
	ISO 23388 : 2018				
71		Protection of Arms and Hands Part		-	Identical under single
	2021	7 Protective Gloves – General			numbering
	ISO 21420 : 2020	requirements and test methods			
	ISO 21420 : 2020	_			
72	IS 6994 (Part 8):	Protection of Arms and Hands Part		-	Identical under dual
	2021	8 Protective Gloves for Pesticide			numbering
	ISO 18889 : 2019	Operators and Re-entry Workers			
	ISO 18889 : 2019	— Performance Requirements			
73	IS 6994 (Part 9):	Protection of Arms and Hands Part		-	Identical under single
	2021	9 Protective clothing - Gloves and			numbering
	ISO 13999-1 :1999	arm guards protecting against cuts			
	ISO 13999-1 :1999	and stabs by hand knives- Chain-			
		mail gloves and arm guards			
74		Protection of Arms and Hands Part		-	Identical under single
	2021	10 Protective clothing- Gloves and			numbering
		arm guards protecting against cuts			
	ISO 13999-2 : 2003	and stabs by hand knives - Gloves			
		and arm guards made of material			
		other than chain mail			
75		Protection of Arms and Hands Part		-	Identical under single
	2021	11 Protective clothing – Gloves			numbering
	ISO 13999-3 : 2002	and arm guards protecting against			
	ISO 13999-3 : 2002	l -			
		Impact cut test for fabric, leather			
	IG (004 /P + 12)	and other materials		-	T1 ( 1 1 1 1 1
76		Protection of Arms and Hands Part		-	Identical under dual
	2021	12 Protective clothing for users of			numbering
	ISO 11393-4 : 2018				
	130 11393-4 : 2018	Performance requirements and test			
77	IS 8990 : 1978	methods for protective gloves	Marr 2022		Indianassa
77	18 8990 : 1978 Reviewed In : 2023	Code of practice for maintenance	May, 2023	_	Indigenous
	Keviewed III: 2023	and care of industrial safety			
78	IS 9886 : 1990	clothing  Mosquito nets Specification (first	December, 2019	1	Indiganous
′°	Reviewed In : 2019	Mosquito nets – Specification (first revision)	December, 2019	1	Indigenous
	Keviewed III . 2019	15/181011)		L	

# **Standards under Development**

Projects Approved				
Title				

	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	TXD 32 (26570)	TEXTILES - RESISTANCE TO IGNITION OF FIRE-RESISTANT UPHOLSTERY FABRICS			
		SPECIFICATION FIRST REVISION			
2	TXD 32 (26571)	Textiles - Requirements for Clothing Made of Limited Flame Spread Materials for Protection			
		against Heat and Flame - Specification First 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	TXD 32 (25486) Revision	Textiles - High Density Polyethylene HDPE Monofilament Mosquito Netting Round Mesh -			
	of: IS 10054:1996	Specification Second revision			
2	TXD 32 (25487) Revision	Textiles - Determination of Flammability by Oxygen Index First revision			
	of: IS 13501:1992				
3	TXD 32 (25492) Revision	Textile Floor Coverings - Determination of Flame Resistance by Tablet Test First revision			
	of: IS 12722:1989				
4	TXD 32 (25852) Revision	Textiles - Protective Clothing for Firefighters - Specification First revision			
	of: IS 16890:2018				
5	TXD 32 (26574)	Protective clothing - Clothing to protect against heat and flame - Minimum performance			
		requirements first revision Amendment - 3			

## Total Published Standards:73 Total Standards Under development:7

### **Aspect Wise Report**

Product: 35

Code of Practices: 1

Methods of Test: 39

Terminology: 0

Dimensions: 0

System Standard: 0

Safety Standard: 0

Others: 1

Service Specification: 0

Process Specification: 0

Unclassified: 2

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

SI. No.	IS No. & Year	Title

1	IS 15727 (Part 3): 2007	Textiles - Burning behaviour of bedding items Part 3 general test methods for the ignitability by a
	ISO 12952-3	small open flame
	Reviewed In: 2018 ISO	
	12952-3:1998	
2	IS 15727 (Part 4): 2007	Textiles - Burning behaviour of bedding items Part 4 specific test methods for the ignitability by a
	ISO 12952-4	small open flame
	Reviewed In: 2018 ISO	
	12952-4:1998	

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

SI. No.	IS No. & Year	Title
1	IS 10054 : 1996	Textiles High density polyethylene HDPE monofilament mosquito netting round mesh
	Reviewed In: 2022	Specification first revision
2	IS 1097 : 1979	Specification for handloom cotton mosquito netting first revision
	Reviewed In: 2018	
3	IS 1143 : 1973	Specification for cotton mosquito netting square mesh first revision
	Reviewed In: 2023	
4	IS 1431 : 1973	Specification for cotton mosquito netting round mesh first revision
	Reviewed In: 2021	
5	IS 14744 : 1999	Flame retardent protective hoods - Specification
	Reviewed In : 2019	
6	IS 15071 : 2002	Chemical protective clothing - Specification
	Reviewed In: 2019 ISO	
7	16602:2007 IS 15321 : 2003	Molten metal splash protective hoods - Specification
/	Reviewed In : 2019	Wionen metal spiash protective hoods - Specification
8	IS 15741 : 2007	Textiles - Resistance to ignition of curtains and drapes - Specification
	Reviewed In : 2023	Textues Resistance to ignition of curtains and drapes - openication
9	IS 15742 : 2007	Textiles - Requirements for clothing made of limited flame spread materials and material
	Reviewed In: 2023	assemblies affording protection against heat and flame - Specification
10	IS 15748 : 2022	Protective clothing - Clothing to protect against heat and flame - Minimum performance
	ISO 11612:2015	requirements first revision
		•
11	IS 15768 : 2008	Textiles Resistance to ignition of upholstered composites used for non-domestic furniture
	Reviewed In: 2023	Specification
12	IS 15809 : 2017	High visibility warning clothes Specification first revision
	Reviewed In: 2022 ISO	
12	20471:2013	Traciles Duranting dading frages in pulling and allied accounts
13	IS 16655 : 2017 ISO 11611 : 2015	Textiles - Protective clothing for use in welding and allied processes
	Reviewed In : 2022 ISO	
	11611:2015	
14	IS 16725 : 2018	Textiles - Tactical 3 points sling universal - Specification
1.	15 10/25 . 2010	Textiles Tuellean's points oning aimversar oppositionation
	Reviewed In: 2023	
15	IS 16726 : 2018	Textiles Pouch for ammunition and grenades made of disruptive pattern nylon 6 6 Specification
	Reviewed In: 2023	
16	IS 16874 : 2018	Textiles - Protective gloves for firefighters - Specification
	Reviewed In: 2023	
17	IS 16890 : 2018	Textiles - Protective clothing for firefighters - Specification
	Davidson d II. (2022)	
18	Reviewed In : 2023 IS 17051 : 2018	Textiles - Bullet resistant jackets - Performance requirements
18	15 1/051 : 2018	rextites - bunct resistant jackets - Performance requirements
	Reviewed In: 2023	
	Keviewed III . 2023	

19	IS 17286 : 2019	Textiles Water-proof multipurpose rain poncho with convertibility as bivouac Specification
	Reviewed In: 2024	
20	IS 17291 : 2019	Textiles Flame retardant jute based decorative and cover fabric for temporary structure
		Specification
	Reviewed In: 2024	
21	IS 18589 (Part 3) : 2024 ISO 16073-3:2019	Wildland firefighting personal protective equipment - Requirements and test methods part 3  Clothing
22	IS 18589 (Part 4) : 2024 ISO 16073-4 : 2019	Wildland firefighting personal protective equipment Requirements and test methods Part 4 Glove
23	IS 18804 : 2024 ISO 23616 : 2022	Cleaning Inspection and Repair of Firefighters Personal Protective Equipment PPE
24	IS 18849 : 2024	Textiles - Workwear for cement workers - Specification
25	IS 18931 : 2024	Textiles - Fire resistant fabric made of Cotton Man-made fibres filaments and their blends - General and Performance Requirements
26	IS 4355 : 1977	Specification for fire-resistant brattice cloth first revision
	Reviewed In: 2022	
27	IS 6994 (Part 1) : 2021 ISO 374-1 : 2016	Protection of Arms and Hands Part 1 Protective Gloves against Dangerous Chemicals and Micro- organisms-Terminology and performance requirements for chemical risks First revision
28	IS 6994 (Part 5): 2021	Protection of Arms and Hands Part 5 Protective Gloves against Dangerous Chemicals and Micro-
	ISO 374-5 : 2016	organisms - Terminology and performance requirements for micro-organisms risks
	IEC 62680-1-5 :2019	
29	IS 6994 (Part 6): 2021	Protection of Arms and Hands Part 6 Protective gloves against mechanical risks
	ISO 23388 : 2018	
30	IEC 62680-1-6:2019 IS 6994 (Part 7) : 2021	Protection of Arms and Hands Part 7 Protective Gloves General requirements and test methods
30	ISO 21420 : 2020	Protection of Arms and Hands Part / Protective Gloves General requirements and test methods
	IEC 62680-1-7:2019	
31	IS 6994 (Part 8) : 2021	Protection of Arms and Hands Part 8 Protective Gloves for Pesticide Operators and Re-entry
	ISO 18889 : 2019	Workers Performance Requirements
	IEC 62680-1-8:2019	
32	IS 6994 (Part 9): 2021	Protection of Arms and Hands Part 9 Protective clothing - Gloves and arm guards protecting
	ISO 13999-1 :1999	against cuts and stabs by hand knives- Chain-mail gloves and arm guards
	IEC 62680-2-2:2015	
33	IS 6994 (Part 10) : 2021	Protection of Arms and Hands Part 10 Protective clothing- Gloves and arm guards protecting
	ISO 13999-2 : 2003 IEC 62680-2-3:2015	against cuts and stabs by hand knives - Gloves and arm guards made of material other than chain mail
34	IS 6994 (Part 12) : 2021	Protection of Arms and Hands Part 12 Protective clothing for users of handheld chainsaws
J <b>-T</b>	ISO 11393-4 : 2018	Performance requirements and test methods for protective gloves
35	IS 9886 : 1990	Mosquito nets Specification first revision
55	Reviewed In : 2019	wooquito nets opeen reation rinst revision