BUREAU OF INDIAN STANDARDS

Program of Work

PGD 15: Ergonomics

Scope: Standardization is the field of ergonomics including terminology, technology, methodology and

human and other factors related to ergonomics common to all the spheres of life.

Liaison: ISO TC-159 (P): Ergonomics ISO TC-159 SC-1 (P): General ergonomics principles ISO

TC-159 SC-3 (P): Anthropometry and biomechanics ISO TC-159 SC-4 (P): Ergonomics of human-system interaction ISO TC-159 SC-5 (P): Ergonomics of the physical environment

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eav
5.No	IS 13214 (Part	Basic Human Body Measurements	September, 2024	No. 01 Allius	Eqv. Identical under dual
1	1):2020		September, 2024	-	
	,	for Technological Design Part 1 Body Measurement Definitions and			numbering
	Reviewed In : 2024	, ,			
		Landmarks (Second Revision)			
	ISO 7250-1 : 2008	Decis learners by Lances and the			Tilendienten den den 1
2	IS 13214 (Part	Basic human body measurements		-	Identical under dual
	3):2019	for technological design: Part 3			numbering
	ISO 7250-3 : 2016	worldwide and regional design			
<u> </u>	ISO 7250-3:2015	ranges for use in product standards			
3	IS 15257:2018	Spatial orientation and direction of	-	-	Identical under dual
	ISO 1503 : 2008	movement - Ergonomics			numbering
	ISO 1503 : 2008	requirements (First Revision)			
4	IS 15836 (Part	Ergonomic design for the safety of	June, 2023	-	Identical under dual
	1):2008	machinery: Part 1 principles for			numbering
	ISO 15534-1	determining the dimensions			
	Reviewed In: 2023	required for openings for whole -			
	ISO 15534-1:2000	Body access into machinery			
5	IS 15836 (Part	Ergonomic design for the safety of	May, 2021	-	Identical under dual
	2):2008	machinery: Part 2 principles for			numbering
	ISO 15534-2	determining the dimensions			
	Reviewed In: 2021	required for access openings			
	ISO 15534-2:2000				
6	IS 15836 (Part	Ergonomic design for the safety of	May, 2021	-	Not Equivalent
	3):2008	machinery: Part 3 anthropometric			
	15534-3 : 2000	data			
	Reviewed In: 2021				
	ISO 15534-3:2000				
7	IS 15836 (Part	Ergonomic Design for the Safety		-	Not Equivalent
	3):2025	of Machinery : Part 3			
	ISO 15534-3:2000	Anthropometric Data (First			
		Revision)			
8	IS 16559:2019	Ergonomics of the Thermal		-	Identical under dual
	ISO 7243 : 2017	Environment — Assessment of			numbering
		Heat Stress Using the WBGT (Wet			
		Bulb Globe Temperature) Index (
		1			

		First Revision)			
9	IS 16560:2017	Ergonomics of the Thermal	November, 2022	-	Identical under dual
	ISO 7726 : 1998	Environment â€" Instruments for			numbering
	Reviewed In: 2022	Measuring Physical Quantities			
	ISO 7726 : 1998				
10	IS 16561 (Part	Ergonomic design of control	November, 2022	-	Identical under dual
	1):2017	centres: Part 1 principles for the			numbering
	ISO 11604-1 : 2000	design of control centres			
	Reviewed In: 2022				
	ISO 11064-1:2000				
11	IS 16561 (Part	Ergonomic design of control	November, 2022	-	Identical under dual
	2):2017	centres Part 2 Principles for the			numbering
	ISO 11064-2 : 2000	Arrangement of Control Suites			
	Reviewed In: 2022				
	ISO 11064-2:2000				
12	IS 16561 (Part	Ergonomic design of control	November, 2022	-	Identical under dual
	4):2017	centres: Part 4 layout and			numbering
	ISO 11064-4 : 2013	dimensions of workstations			
	Reviewed In: 2022				
	ISO 11064-4 : 2013				
13	IS 16561 (Part	Ergonomic design of control	June, 2023	-	Identical under dual
	5):2018	centres: Part 5 displays and			numbering
	ISO 11064-5 : 2008	controls			_
	Reviewed In: 2023				
	ISO 11064-5 : 2008				
14	IS 16561 (Part	ERGONOMIC DESIGN OF		-	Identical under dual
	6):2022	CONTROL CENTRES — PART			numbering
	ISO 11604-6	6: ENVIRONMENTAL			
	ISO 11604-6	REQUIREMENTS FOR			
		CONTROL ROOMS			
15	IS 16562 (Part	Ergonomics - Computer manikins	November, 2022	-	Identical under dual
	1):2017	and body templates: Part 1 general			numbering
	ISO 15536-1 : 2005	requirements			
	Reviewed In: 2022				
	ISO 15536-1:2005				
16	IS 16562 (Part	Ergonomics - Computer manikins	June, 2023	-	Identical under dual
	2):2018	and body templates: Part 2			numbering
	ISO 15536 (Part 2):	verification of functions and			
	2007	validation of dimensions for			
	Reviewed In: 2023	computer manikin systems			
	ISO 15536 (Part 2):				
	2007				
17	IS 16564:2018	Ergonomics - Accessible design -	June, 2023	-	Identical under dual
	ISO 24504 : 2014	Sound pressure levels of spoken			numbering
	Reviewed In: 2023	announcements for products and			
	ISO 24504 : 2014	public address systems			
18	IS 16565:2018	Ergonomics - Accessible design -		-	Identical under dual
	ISO 24503 : 2011	Tactile dots and bars on consumer			numbering
	ISO 24503 : 2011	products			
19	IS 16566:2017	Ergonomics-Accessible Design-	November, 2022	-	Identical under dual
	ISO 24502 : 2010	Specification of Age Related			numbering
	Reviewed In: 2022	Luminance Contrast for Coloured			
	ISO 24502	Light			
		Ergonomics - Accessible design -	June, 2023	-	Identical under dual
20	IS 16567:2018	Ergonomics - Accessible design -			
20		Sound pressure levels of auditory	,		numbering
20	IS 16567:2018		,		numbering
20	IS 16567:2018 ISO 24501 : 2010	Sound pressure levels of auditory			numbering
20	IS 16567:2018 ISO 24501 : 2010 Reviewed In : 2023	Sound pressure levels of auditory	November, 2022	-	numbering Identical under dual

1	Reviewed In: 2022	products		1	
	ISO 24500 : 2010	•			
22	IS 16569:2018	Ergonomics - System of auditory	June, 2023	-	Identical under dual
	ISO 11429 : 1996	and visual danger and information			numbering
	Reviewed In: 2023	signals			
	ISO 11429 : 1996	_			
23	IS 16570:2017	Ergonomics - Visual danger signals	November, 2022	-	Identical under dual
	ISO 11428 : 1996	- General requirements, design and			numbering
	Reviewed In: 2022	testing			
	ISO 11428 : 1996				
24	IS 16572:2017	Safety of machinery -	November, 2022	-	Identical under dual
	ISO 14738 : 2002	Anthropometric requirements for			numbering
	Reviewed In: 2022	the design of workstations at			
	ISO 14738 : 2002	machinery			
25	IS 16573:2025	General Requirements for		-	Identical under dual
	ISO 15535 : 2023	Establishing Anthropometric			numbering
	ISO 15535 : 2023	Databases (First Revision)			
26	IS 16574:2024	Principles for Selecting and Using		-	Identical under dual
	ISO 15537:2022	Test Persons for Testing			numbering
	ISO 15537:2022	Anthropometric Aspects of			
		Industrial Products and Designs			
27	IS 16595 (Part	Ergonomic Requirements for		-	Identical under dual
	5):2018	Office Work With Visual Display			numbering
	9241-5 : 1998	Terminals (VDTs) Part 5			
	ISO 9241-5 : 1998	Workstation Layout and Postural			
		Requirements			
28	IS 16595 (Part	Ergonomics of Human-System	September, 2024	-	Identical under dual
	11):2020	Interaction Part 11 Usability:			numbering
	ISO 9241-11 : 1998	Definitions and Concepts (First			
	Reviewed In: 2024	Revision)			
	ISO 9241-11 : 2018				
29	IS 16595 (Part	Ergonomics of Human System		-	Identical under dual
	20):2024	Interaction Part 20 An ergonomic			numbering
		approach to accessibility within the			
	ISO 9241-20:2021	ISO 9241 series			
30	IS 16595 (Part	Ergonomics of human-system		-	Identical under dual
	110):2023	Interaction Part 110 : Interaction			numbering
	ISO 9241-110:2020	1 1			
2.1	ISO 9241-110:2020		1 2022		X1 1 1 1 1
31	IS 16595 (Part	Ergonomics of human - System	June, 2023	-	Identical under dual
	154):2018	interaction: Part 154 interactive			numbering
	ISO 9241-154 : 2013	voice response (IVR) applications			
	Reviewed In : 2023				
	ISO 9241-154 : 2013			1	Identical under dual
32	IS 16595 (Part	Ergonomics of human-system interaction Part 171: Guidance on		_	
	171):2023				numbering
	ISO 9241-171 : 2008	3			
	ISO 9241-171 : 2008	9241-171			
33	IS 16595 (Part	Ergonomics of human-system		+	Identical under dual
33	210):2023	interaction Part 210: Human-		1 -	
	ISO 9241-210:2019				numbering
	ISO 9241-210:2019	e e			
34	IS 16595 (Part	Ergonomics of human-system		 	Identical under dual
5-	300):2023	Interaction Part 300: Introduction			numbering
	ISO 9241-300:2008				numbering
	ISO 9241-300:2008	1 7			
35	IS 16595 (Part	Ergonomics of human-system		-	Identical under dual
-	302):2023	Interaction Part 302: Terminology			numbering
I				1	

I	ISO 9241-302:2008	for electronic visual displays ISO	İ		
	ISO 9241-302:2008	1 2			
36	IS 16595 (Part	Ergonomics of human-system		-	Identical under dual
	410):2023	interaction part 410: design criteria			numbering
	ISO 9241-410 :	for physical input devices ISO			
	2008	9241-410			
	ISO 9241-410 :				
27	2008				T1 2 1 1 1 1
37	IS 16595 (Part	Ergonomics of human-system		-	Identical under dual
	411):2023 ISO/TS 9241-411 :	Interaction Part 411: Evaluation			numbering
	2012	method for the design of physical input devices ISO 9241-411			
	ISO/TS 9241-411 :	input devices 150 7241 411			
	2012				
38	IS 16595 (Part	Ergonomics of human-system		-	Identical under dual
	971):2023	Interaction Part 971: Accessibility			numbering
		1			
	ISO 9241-971:2020				
39	IS 17009:2018	Ergonomics - Evaluation of static	1	-	Identical under dual
	ISO 11226 : 2000	working postures]		numbering
40	ISO 11226 : 2000	2 D Coopping Mathedalogies for		+	Identical under dual
40	IS 17030 (Part 1):2024	3-D Scanning Methodologies for Internationally Compatible]	-	numbering
	ISO 20685-1:2018	Anthropometric Databases Part 1			numbering
	ISO 20685-1:2018	Evaluation Protocol for Body			
	150 20000 1,2010	Dimensions Extracted From 3-D			
		Body Scans			
41	IS 17030 (Part	Ergonomics 3-D scanning		-	Identical under dual
	2):2025	methodologies for internationally			numbering
	ISO 20685-2:2023	compatible anthropometric			
	ISO 20685-2:2023	databases : Part 2 Evaluation			
		protocol of surface shape and			
		repeatability of relative landmark positions (first revision)			
42	IS 17031 (Part	Ergonomics � Manual handling		_	Identical under dual
-	1):2024	Part 1 Lifting lowering and			numbering
	ISO 11228-1:2021	carrying			C
	ISO 11228-1:2021				
43	IS 17031 (Part	Ergonomics â€" Manual Handling		-	Identical under dual
	2):2019	Part 2 Pushing and Pulling			numbering
	ISO 11228-2 : 2007]		
11	ISO 11228-2:2007	Ergonomics & C. Mon-el Hendling			Identical under dual
44	IS 17031 (Part 3):2018	Ergonomics â€" Manual Handling Part 3 Handling of Low Loads at	1	-	Identical under dual numbering
	ISO 11228-3 : 2003	C]		numbering
	ISO 11228-3:2007	Tingii i requency	1		
45	IS 17032:2018	Ergonomics Guidelines for the		-	Identical under dual
	ISO/TS 20646:	Optimization of Musculoskeletal]		numbering
	2014	Workload]		-
	ISO/TS 20646:]		
<u> </u>	2014				
46	IS 17033:2018	Ergonomics - Manual handling of]	-	Identical under dual
	ISO/TR 12296:2012	people in the healthcare sector	1		numbering
47	IS 17102:2019	Ergonomics - Danger signals for	+		Identical under dual
''	ISO 7731 : 2003	public and work areas - Auditory]		numbering
	ISO 7731 : 2003	danger signals	1		namoonng
48	IS 17103:2019	Ergonomics - Evaluation of		-	Identical under dual
	ISO 9886 : 2004	thermal strain by physiological]		numbering
I		l	I	ı	-

ı	ISO 9886 : 2004	measurements		I	I
49	IS 17104:2024	Ergonomics of the Physical		_	Identical under dual
"		Environment Subjective Judgement			numbering
	ISO 10551:2019	Scales for Assessing Physical			numbering
	150 10551.2017	Environments (first revision)			
50	IS 17105:2019	Ergonomics of the physical			Identical under dual
	ISO 28802 : 2012	environment - Assessment of			numbering
	ISO 28802 : 2012	environments by means of an			numbering
	150 20002 . 2012	environmental survey involving			
		physical measurements of the			
		environment and subjective			
		responses of people			
51	IS 18232:2023	Ergonomics Accessible design			Identical under dual
	ISO 24508 : 2019	Guidelines for designing tactile		-	numbering
	ISO 24508 : 2019	symbols and characters ISO			numbering
	130 24300 . 2019	24508-2019			
52	IS 18254:2023	Ergonomics of the physical			Identical under dual
32	ISO 28803 : 2012	environment Application of		-	numbering
	ISO 28803 : 2012	International Standards to people			numbering
	130 20003 . 2012	with special requirements			
		Adoption of ISO 28803: 2012			
53	IS 18259:2023	Ergonomics Accessible design			Identical under dual
	ISO 24505 : 2016	Method for creating colour			numbering
		combinations taking account of age-			numbering
	130 24303 . 2010	related changes in human colour			
		vision ISO 24505			
54	IS 18263 (Part	Ergonomic principles related to		_	Identical under dual
54	1):2023	mental workload Part 1: General			numbering
	ISO 10075-1 : 2017				numbering
	ISO 10075-1:2017	*			
55	IS 18263 (Part	Ergonomic principles related to		_	Identical under dual
	3):2023	mental workload Part 3: Principles			numbering
	ISO 10075-3 : 2004	-			numbering
	ISO 10075-3 : 2004	1			
	150 10075-5 . 2004	assessing mental workload			
56	IS/ISO 26800:2011	Ergonomics â€" General	June, 2023	 -	Identical under dual
	ISO 26800 : 2011	Approach, Principles and	June, 2025		numbering
	Reviewed In: 2023	Concepts			nameering
	ISO 26800 : 2011	Concepto			
57	IS/ISO 27500:2016	The Human - Centered	June, 2023	_	Identical under single
	ISO 27500:2016	Organization - Rationale and	, 2025		numbering
	Reviewed In : 2023	General Principles			namooning
	ISO 27500 : 2016	General Timespies			
58	IS 4838:1990	Anthropometric dimensions for	May, 2020	_	Indigenous
	Reviewed In: 2020	school children age group 5 - 17	1.12, 2020		111015011040
	113 116 116 111 1 2020	years (Second Revision)			
L		jeurs (Second Revision)		ı	

Standards under Development

		Projects Approved		
SI. No.	Doc No.	Title		
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	PGD 15 (27723)	Ergonomics of Human-System Interaction Part 5 Workstation Layout and Postural Requirements				
		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		
No Records Found				

Total Published Standards:57 Total Standards Under development:1

Aspect Wise Report

Product: 14
Code of Practices: 25
Methods of Test: 7
Terminology: 3
Dimensions: 4
System Standard: 1
Safety Standard: 1
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 13214:1991	Machine Tools - Ergonomics Anthropometric Terminology
	Reviewed In: 2014	
2	IS 16563 (Part 1):2017	ERGONOMIC REQUIREMENTS FOR THE DESIGN OF DISPLAYS AND CONTROL
	ISO 9355-1	ACTUATORS PART 1 HUMAN INTERACTIONS WITH DISPLAYS AND CONTROL
	Reviewed In: 2022 EN 301	ACTUATORS
	549	
3	IS 16563 (Part 2):2017	Ergonomic requirements for the design of displays and control actuators Part 2 displays
	ISO 9355-2 : 1999	
	Reviewed In: 2022 ISO	
	9355-2 : 1999	
4	IS 16563 (Part 3):2017	Ergonomic requirements for the design of displays and control actuators Part 3 control actuators
	ISO 9355-3 : 2006	
	Reviewed In: 2022 ISO	
	9355-3 : 2006	
5	IS 5533:1969	Recommendation for dimensions of spaces for human activities
	Reviewed In: 2014	

Annexure-II :List of Indian Product Standards

SI. No.	IS No. & Year	Title
1	IS 15257:2018	Spatial orientation and direction of movement - Ergonomics requirements First Revision
	ISO 1503 : 2008	
	ISO 1503 : 2008	
2	IS 16561 (Part 1):2017	Ergonomic design of control centres Part 1 principles for the design of control centres
	ISO 11604-1 : 2000	
	Reviewed In: 2022 ISO	
	11064-1 : 2000	
3	IS 16561 (Part 4):2017	Ergonomic design of control centres Part 4 layout and dimensions of workstations
	ISO 11064-4 : 2013	
	Reviewed In: 2022 ISO	
	11064-4 : 2013	
4	IS 16561 (Part 5):2018	Ergonomic design of control centres Part 5 displays and controls
	ISO 11064-5 : 2008	
	Reviewed In: 2023 ISO	
	11064-5 : 2008	
5	IS 16561 (Part 6):2022	ERGONOMIC DESIGN OF CONTROL CENTRES PART 6 ENVIRONMENTAL
	ISO 11604-6	REQUIREMENTS FOR CONTROL ROOMS
	ISO/TS 17863:2013	
6	IS 16562 (Part 1):2017	Ergonomics - Computer manikins and body templates Part 1 general requirements
	ISO 15536-1 : 2005	
	Reviewed In: 2022 ISO	
	15536-1 : 2005	
7	IS 16562 (Part 2):2018	Ergonomics - Computer manikins and body templates Part 2 verification of functions and
	ISO 15536 (Part 2): 2007	validation of dimensions for computer manikin systems
	Reviewed In: 2023 ISO	
	15536 (Part 2): 2007	
8	IS 16566:2017	Ergonomics-Accessible Design-Specification of Age Related Luminance Contrast for Coloured
	ISO 24502 : 2010	Light
	Reviewed In: 2022 ISO	
	24502	
9	IS 16569:2018	Ergonomics - System of auditory and visual danger and information signals
	ISO 11429 : 1996	
	Reviewed In: 2023 ISO	
	11429 : 1996	
10	IS 16570:2017	Ergonomics - Visual danger signals - General requirements design and testing
	ISO 11428 : 1996	
	Reviewed In: 2022 ISO	
	11428 : 1996	
11	IS 16595 (Part 5):2018	Ergonomic Requirements for Office Work With Visual Display Terminals VDTs Part 5
	9241-5 : 1998	Workstation Layout and Postural Requirements
	ISO 9241-5 : 1998	
12	IS 16595 (Part 154):2018	Ergonomics of human - System interaction Part 154 interactive voice response IVR applications
	ISO 9241-154 : 2013	
	Reviewed In: 2023 ISO	
	9241-154 : 2013	
13	IS 17102:2019	Ergonomics - Danger signals for public and work areas - Auditory danger signals
	ISO 7731 : 2003	
	ISO 7731 : 2003	
14	IS 18254:2023	Ergonomics of the physical environment Application of International Standards to people with
	ISO 28803 : 2012	special requirements Adoption of ISO 28803 2012
	IEC 61800-9-2:2023	