भारतीय मानक ब्यूरो
इलेक्ट्रॉनिक्स और सूचना प्रौद्योगिकी विभाग

7th MEETING OF COMPUTER HARDWARE, PERIPHERALS, OFFICE EQUIPMENT AND USER INTERFACES SECTIONAL COMMITTEE LITD 36

Venue:	Virtual Meeting
Date:	14.11.2024
Time:	1030 hrs
Chairperson:	Shri Ajay Kr Rai (Government e Market Place, New Delhi)
Member Secretary:	Mr Sailendra Kumar Verma (Scientist-C, LITD)
Meeting Link:	https://bismanak.webex.com/bismanak/j.php?MTID=m888db6ac25b85497d5380619e6f418a6
Meeting Number:	25116731836
Password:	Litd@36

AGENDA

0 WELCOME ADDRESS

0.1 Welcome by Member Secretary

0.2 Opening Remarks by the Chairperson

1 FORMAL CONFIRMATION OF THE MINUTES OF LAST MEETING

1.1 The minutes of the last meeting of committee held on 21 March 2024 were circulated on 12 April 2024. No comments have been received on the minutes.

The committee may confirm the minutes

2 SCOPE AND COMPOSITION OF LITD 36

2.1 **Scope:** Standardization in the field of - Computer hardware and peripherals, removable digital storage media (utilizing optical, holographic, and magnetic recording technologies) and flash memory technologies for digital information interchange; basic characteristics, test methods and other related aspects of office equipment such as Printers/Scanners, Copiers, Projectors, and Systems composed of their combinations. User-system interfaces in ICT environments and support for these interfaces to serve all users, including people having accessibility or other specific needs.

The committee may note.

2.2 Liaison:

- ISO/IEC TC JTC 1/SC 23 "Digitally recorded media for information interchange and storage" (O member).
- ISO/IEC TC JTC 1/SC 28 "Office Equipment" (P member).
- ISO/IEC TC JTC 1/SC 35 "User Interfaces" (P member).

The committee may note.

2.3 The composition of "Computer Hardware, Peripherals, Office Equipment and User Interfaces Sectional Committee LITD 36" and its panel(s)/working group(s) is given in **Annexure -1.**

The committee may review.

2.4 The active participation of members in committee meetings is imperative to the formulation of standards and hence are requested to participate regularly in the committee meetings. The committee members may please consider.

The committee may note.

3 PROGRAM OF WORK OF LITD 36

3.1 The program of work of LITD 36 is given in **Annexure 2.**

The committee may note.

4 REVIEW OF STANDARDS

4.1 As per BIS rules, Indian Standards which are in existence for more than three years are to be reviewed for reaffirmation/revision/withdrawal. The standards due for periodic review are listed in **Annexure 3.**

The committee may review.

5 DOCUMENTS UNDER DEVELOPMENT

5.1 02 Documents are under in Wide Circulation Draft and 03 in Final Draft stage. Documents under development are mentioned in **Annexure 4.**

The committee may review.

6 CONSTITUTION OF PANEL(S) AND WORKING GROUP(S)

6.1 To facilitate the area-wise standardization work, the activities of LITD 36 have been categorized into sectors, sub-sectors, and sub-sub-sectors based on their scope of

work, as outlined below:

Sector	Sub sector	Sub Sub Sector	Panel
Electronic & IT Equipment and Devices	Office Equipment & User Interfaces	Printers, Ink cartridges and toners	Panel 2
		Keyboards, methods and devices related to input and its feedback	To be created
		Note Sorting Machines (NSMs)	Panel 3
		Graphical user interface and interaction	To be created
		Monitors	To be created

The committee may please consider

7 INTERNATIONAL STANDARDIZATION ACTIVITIES

7.1 ISO/IEC JTC 1/SC 23 "Digitally recorded media for information interchange and storage" deals with standardization in the field of magnetic tapes, Disk Cartridges, DVD recordable disk. India is a participating member (P Member) of JTC 1/SC 28 and SC 35 and has the obligation to vote and send response on all the documents emanating from this subcommittee. The committee may please note.

The committee may note.

7.2 The experts from India registered in the Working Groups (WGs) of ISO/IEC JTC 1/SC 23, 28 and 35 are mentioned in **Annexure 5**. In the last meeting, the members were requested to regularly contribute to the WGs and update the committee which will be reviewed in the next meeting.

Committee may please review.

7.3 The ballots currently active have been listed in **Annexure 6.** The documents can be accessed through the Document repository on the BIS portal of designated experts.

Committee may please note.

7.4 Total 208 standards published by ISO/IEC JTC 1/SC 23, ISO/IEC JTC 1/SC 28 and ISO/IEC JTC 1/SC 35 are currently active. Out of 214 the committee has published 34 standards as Indian standard. Remaining international standards are listed in **Annexure 7** may be reviewed for the development of relevant Indian Standards**.**

The committee may please consider.

8 RESEARCH AND DEVELOPMENT PROJECTS FOR FORMULATION AND REVIEW OF INDIAN STANDARDS

8.1 BIS has launched the scheme of commissioning Research and Development projects for formulation and review of Indian Standards. No projects have been drafted by the committee so far.

The committee may deliberate.

9 DATE AND PLACE FOR THE NEXT MEETING

10 ANY OTHER BUSINESS

ANNEXURE-1

Composition of LITD 36 - TC

S. No.	Organization	Member Name	4th Meeting	5th Meeting	6th Meeting	Total
1	Government e Market Place, New Delhi	Shri Ajay Kr Rai (Chairperson)	Y	Y	Y	3/3
2	Canon India Private Limited, Gurugram	Shri Ashish Khanna (P)	N	Y	Y	2/3
3	Computers and Media Dealer's Association, New Delhi	Mr. Puneet Singhal (P) Ms. Aarushi Rajpal Kalra (A) Mr. Hemant Grover (A) Mr. Rahul Zine Patil (A) Mr. Gaurav Khanna (A)	Y	Y	Y	3/3
4	Dell Technologies, Gurugram	Mr. Rajender Saini (P) Mr. Prem Ananth (A)	Y	Y	Y	3/3
5	HP India Sales Private Limited, Bengaluru	Ms. Mayuri Simaria Jain (P)	Y	Y	N	2/3
6	Hewlett Packard India Sales Private Limited, Gurugram	Ms. Manjeeri Gopal	N	Y	N	1/3
7	Infineon Technologies India Private Limited, Noida	Shri Madhusudhanan Sampath (P) Shri Ajay Hanyalu (A)	N	Y	N	1/3
8	Manufacturers Association for Information Technology, New Delhi	Col Suhail Zaidi (P) Lt Col Harsh Vardhan Srivastava (Retd)	Y	Y	N	2/3
9	Ministry of Electronics and Information Technology, New Delhi	Shri Mukul Kumar Yadav (P) Ms. Asha Nangia (A) Mr. Naveen Kumar (A)	N	Y	Y	2/3
10	National Informatics Centre, New Delhi	Mr. Rajdeep Choudhury (P)	N	Y	Y	2/3
11	Standardization Testing and Quality Certification (STQC)	Mr. Atul Gupta (P) Ms. Raveena Gupta (A) Mr. Abhijit Dasgupta (A)	Y	Y	N	2/3
12	The Institution of Electronics and Telecommunication Engineers, New Delhi	Mr. Prof Nilesh N Kasat (P) Dr. Jyotsna Kumar Mandal (A)	Y	Y	Y	3/3
13	UL India Private Limited, Bengaluru	Mr. V. Manjunath (P) Mr. Ashish Mathur (A)	Y	Y	N	2/3

Composition of Panel 1 - Panel for revision of the standards Panel

S. No.	Organization	Member Name
1	Manufacturers Association for Information Technology, New Delhi	Mr. George Paul (Convenor)
2	Canon India Private Limited, Gurugram	Shri Ashish Khanna (P)
3	Centre for Development of Advanced Computing, Pune	Ms Savita Kashyap (P)
4	Dell Technologies, New Delhi	Mr. Rajender Saini (P)
		Mr. Prem Ananth (A)
5	HP India Sales Private Limited, Bengaluru	Ms. Mayuri Simaria Jain (P)
		Ms Upasana Choudhry (A)
6	STQC, New Delhi	Mr. Manish Selal (P)
7	TVS Electronics Limited, Chennai	Shri Ramachandran Ramalingam (P)
		Ms Vijayavani (A)

Composition of Panel 2 - Ink cartridges and toners of printers Panel

S. No.	Organization	Member Name
1	Manufacturers Association for Information Technology, New Delhi	Mr. George Paul (Convenor)
2	Canon India Private Limited, Gurugram	Shri Ashish Khanna (P)
		Mr. Rajeev Vashisht (A)
3	Centre for Development of Advanced Computing, Pune	Ms Savita Kashyap (P)
4	Epson India Private Limited, Kolkata	Ms. Ashwini (P)
5	HP India Sales Private Limited, Bengaluru	Mr. Sudhakaran Nair (P)
6	Konica	Mr. Shri Sanjay Monga (P)
7	Sharp Business Systems (India) Private Limited, Noida	Ms. Madhu G (P)
		Mr. Sukhdev Singh (A)

Composition of Panel 3 - Note Sorting Machines (NSMs) Panel

S. No.	Organization	Member Name
1	Manufacturers Association for Information Technology, New Delhi	Mr. Col Suhail Zaidi (Convenor)
2	Godrej & Boyce Manufacturing Company Limited, Mumbai	Mr. Shri Karve (P)
3	National Test House, Kolkata	Shri Jeyraj. K (P)

4	Punjab National Bank, New Delhi	Mr. Shri Satyawan (P)
5	Reserve Bank of India	Mr. Ravi Gupta (P)
6	STQC, New Delhi	Mr. Atul Gupta (P)
		Ms. Sadhana Verma (A)
7	State Bank of India, Mumbai	Shri Rajendra Singh (P)
		Shri Vijay Badge (A)
8	UL India Private Limited, Bengaluru	Mr. V. Manjunath (P)
		Mr. Ashish Mathur (A)

ANNEXURE-2

Program of Work

S. No.	Indian Standard	Title
1	IS 14886 : 2000	Switch mode power supply - Specificaiton
2	IS 14441 : 1997	Specification for keyboard
3	IS 12327 (Part 3) : 1989 ISO 8630-3:1987	Specification for data interchange on 130 mm double sided 3.8 tpmm high density flexible disk cartridge using 3 frequency modulation recording at 13 262 ftprad (Part 3 Track Format B For 80 Tracks)
4	IS 12922 (Part 2) : 1989 ISO 8860-2:1987	Specification for 90 mm flexible disk cartridge using 3 frequency r - Ecording at 7 958 ftprad on 80 tracks on each side: Part 2 track format
5	IS 12922 (Part 1) : 1989 IS0 9880-1 :1987	Specification for 90 mm flexible disk cartridge using 3 - Frequency recording at 7 958 ftprad on 80 tracks on each side: Part 1 dimensional, physical and magnetic characteristics
6	IS 14896 : 2001	Personal computer - Specificaiton
7	IS 18663 : 2024	Note Sorting Machines- Specifications
8	IS/ISO/IEC 24711 : 2021 ISO/IEC 24711:2021	Method for the determination of ink cartridge yield for colour inkjet printers and multi-function devices that contain printer components
9	IS/ISO/IEC 10561 : 1999 ISO/IEC 10561:1999	Information technology Office equipment Printing devices Method for measuring throughput Class 1 and Class 2 printers
10	IS 17886 (Part 2) : 2022 ISO/IEC 11160-2:2021	Information technology Office equipment Minimum information to be included in specification sheets Printers Part 2: Class 3 and Class 4 printers
11	IS/ISO/IEC 19752 : 2017 ISO/IEC 19752:2017	Information technology Office equipment Method for the determination of toner cartridge yield for monochromatic electrophotographic printers and multi-function devices that contain printer components
12	IS/ISO/IEC 19798 : 2017 ISO/IEC 19798:2017	Information technology Office equipment Method for the determination of toner cartridge yield for colour printers and multi-function devices that contain printer
13	IS/ISO/IEC 17991 : 2021 ISO/IEC 17991:2021	Information technology Office equipment Method for Measuring Scanning Productivity of Digital Multifunctional Devices

14	IS/ISO/IEC 24734 : 2021 ISO/IEC 24734:2021	Information technology Office equipment Method for measuring digital printing productivity
15	IS/ISO/IEC 24735 : 2021 ISO/IEC 24735:2021	Information technology Office equipment Method for measuring digital copying productivity
16	IS/ISO/IEC 21117 : 2022 ISO/IEC 21117:2012	Information technology Office equipment Copying machines and multi-function devices Information to be included in specification sheets and related test methods
17	IS/ISO/IEC 10779 : 2020 ISO/IEC 10779:2020	Information technology Office equipment Accessibility guidelines for older persons and persons with disabilities
18	IS/ISO/IEC 19799 : 2007 ISO/IEC 19799:2007	Information technology Method of measuring gloss uniformity on printed pages
19	IS/ISO/IEC 17823 : 2015 ISO/IEC 17823:2015	Information Technology ï¿½ Office Equipment ï¿½ Colour Terminology for Office Colour Equipment
20	IS/ISO/IEC 16963 : 2015 IS/ISO/IEC 16963 : 2015	Information Technology- Digitally Recorded Media for Information Interchange and Storage - Test Method for the Estimation of Lifetime of Optical Disks for Long-Term Data Storage
21	IS/ISO/IEC 17342 : 2004 ISO/IEC 17342 : 2004	Information Technology- 80 mm (1,46 Gbytes per Side) and 120 mm (4,70 Gbytes per Side) DVD Re-Recordable Disk (DVD-RW)
22	IS/ISO/IEC 13170 : 2009 ISO/IEC 13170 : 2009	Information Technology- 120 mm (8,54 Gbytes per Side) and 80 mm (2,66 Gbytes per Side) DVD Re-recordable Disk for Dual Layer (DVD-RW for DL)
23	IS 14175 : 2018 ISO/IEC 9293 : 1994	Information technology - Volume and file structure of disk cartridges for information interchange (First Revision)
24	IS 11408 : 2006 ISO 1864:1992	Information technology - Unrecorded 12.7 mm (0.5 In) wide magnetic tape for information interchange - 32 ftpmm (800 Ftpi), nrzi, 126 ftpmm (3 200 Ftpi) phase encoded and 356 ftpmm (9 042 Ftpi), nrzi (First Revision)
25	IS/ISO/IEC 29142-3 : 2013 ISO/IEC 29142-3 : 2013	Information Technology - Print Cartridge Characterization Part 3 Environment
26	IS/ISO/IEC 29142-2 : 2013 ISO/IEC 29142-2 : 2013	Information Technology - Print Cartridge Characterization Part 2 Cartridge Characterization Data Reporting
27	IS/ISO/IEC 29142-1 : 2013 with ISO/IEC 29142-1 : 2013	Information Technology - Print Cartridge Characterization Part 1 General: Terms, Symbols, Notations and Cartridge Characterization Framework
28	IS 19021 : 2023 ISO/IEC 14473:1999	Information technology - Office equipment - Minimum information to be specified for image scanners
29	IS 17993 (Part 1) : 2022 ISO/IEC 11160-1:1996	Information technology - Office equipment - Minimum information to be included in specification sheets - Printers - Part 1: Class 1 and Class 2 printers
30	IS/ISO/IEC 17629 : 2014 ISO/IEC 17629:2014	Information technology - Office equipment - Method for measuring first print out time for digital printing devices

31	IS 11419 : 2018 ISO/IEC 1001:2012	Information technology - File structure and labelling of magnetic tapes for information interchange (Second Revision)
32	IS 15189 : 2002 ISO/IEC 10149:1995	Information technology - Data interchange on read - Only 120 mm optical data disks (Cd - Rom)
33	IS 11405 (Part 1) : 2018 ISO 7487-1:1993	Information technology - Data interchange on 130 mm (5.25 In) flexible disk cartridges using 3 frequency modulation recording at 7 958 ftprad, 1.9 tpmm (48 Tpi), on both sides - Iso type 202: Part 1 dimensional, physical and magnetic characteristics (First Revision)
34	IS 14701 : 1999 ISO/IEC 10090:1992	Information technology - 90 mm optical disk cartridges, rewritable and read only, for data interchange
35	IS/ISO/IEC 23912 : 2005 ISO/IEC 23912 : 2005	Information Technology — 80 mm (1,46 Gbytes per Side) and 120 mm (4,70 Gbytes per Side) DVD Recordable Disk (DVD-R)
36	IS/ISO/IEC 20563 : 2001 ISO/IEC 20563 : 2001	Information Technology — 80 mm (1,23 Gbytes per Side) and 120 mm (3,95 Gbytes per Side) DVD-Recordable Disk (DVD-R)
37	IS 13737 : 1993 ISO/IEC 10089:1991	Information technology - 130 mm rewritABle optical disk cartridge for information interchange
38	IS/ISO/IEC 16824 : 1999 ISO/IEC16824 : 1999	Information Technology - 120 mm DVD Rewritable Disk (DVD-RAM)
39	IS/ISO/IEC 12862 : 2011 ISO/IEC 12862 : 2011	Information Technology - 120 mm (8,54 Gbytes per Side) and 80 mm (2,66 Gbytes per Side) DVD Recordable Disk for Dual Layer (DVD-R for DL)
40	IS/ISO/IEC 17592 : 2004 ISO/IEC 17592 : 2004	Information Technology - 120 mm (4,7 Gbytes per Side) and 80 mm (1,46 Gbytes per Side) DVD Rewritable Disk (DVD-RAM)
41	IS 13738 (Part 2) : 1993 ISO/IEC 9529-2:1989	Information processing systems - Data interchange on 90 mm flexible disk cartridges using 3 frequency modulation recording at 15 916 ftprad, on 80 tracks on each side: Part 2 track - Format
42	IS 14176 : 1994 ISO 9660:1988	Information processing - Volume and file structure of CD - ROM for information interchange
43	IS 12660 : 1989 ISO 4341:1978	Information processing - Magnetic tape cassette and cartridge labelling and file structure for information interchange
44	IS 11405 (Part 3) : 2018 ISO 7487-3:1986	Information processing - Data interchange on 130 mm 525 in flexible disk cartridges using modified frequency modulation recording at 7 958 ftprad 19 tpmm 48 tpi on both sides PART 3 Track format B
45	IS 11404 (Part 1) : 2018 ISO 6596-1 : 1985	Information processing - Data interchange on 130 mm (5.25 In) flexible disk cartridges using twoFrequency recording at 7 958 ftprad, 1.9 tpmm (48 Tpi), on one side: Part 1 dimensional, physical and magnetic characteristics (First Revision)

46	IS 11410 : 2006 ISO/IEC 3788:1990	Information processing - 9 - Track, 12.7 mm (0.5 In) wide magnetic tape for information interchange using phase encoding at 126 ftpmm (3 200 Ftpi) - 63 cpmm (1 600 Cpi) (First Revision)
47	IS 11409 : 2006 ISO/IEC 1863:1990	Information processing - 9 - Track, 12.7 mm (0.5 In) wide magnetic tape for information interchange using NRZI at 32 ftpmm (800 Ftpi) - 32 cpmm (800 Cpi) (First Revision)
48	IS 14486 : 1997	General-purpose dot-matrix printer - Specification
49	IS 11406 : 1986 ISO 7665:1983	File structure and labelling of flexible disk cartridges for information interchange
50	IS 1885 (Part 59) : 1986	Electrotechnical vocabulary: Part 69 educational or training equipment and systems
51	IS 11853 (Part 3) : 1986 ISO/DIS 837813	Data Interchange on 130 mm, Double Sided, 3.8 tpmm, Flexible Disk Cartridge Using Modified Frequency Recording - Part 3 : Track Format B

ANNEXURE-3

Standards Due for Review

Sl. No.	IS No.	TITLE	Base Standard of this Indian Standard	Current Status of Base Standard	Remarks
1	IS 11853 (Part 3): 1986	Data Interchange on 130 mm, Double Sided, 3.8 tpmm, Flexible Disk Cartridge Using Modified Frequency Recording - Part 3: Track Format B	ISO 8378-3:1986 Information processing — Data interchange on 130 mm (5.25 in) flexible disk cartridges using modified frequency modulation recording at 7 958 ftprad, 3,8 tpmm (96 tpi), on both sides Part 3: Track format B	The base ISO standard of this Indian standard has been withdrawn without any replacement.	As the base ISO 8378-3:1986 Standard has been withdrawn without any replacement, Therefore, The Indian Standard IS 11853 (Part 3): 1986 may be withdrawn.
2	IS 12327 (Part 3): 1989	Specification for data interchange on 130 mm double sided 3.8 tpmm high density flexible disk cartridge using 3 frequency modulation recording at 13 262 ftprad (Part 3 Track Format B For 80 Tracks)	ISO 8630-3:1987 Information processing — Data interchange on 130 mm (5.25 in) flexible disk cartridges using modified frequency modulation recording at 13 262 ftprad, on 80 tracks on each side Part 3: Track format B for 80 tracks	The base ISO standard of this Indian standard has been withdrawn without any replacement.	As the base ISO 8630-3:1987 Standard has been withdrawn without any replacement, Therefore, The Indian Standard IS 12327 (Part 3): 1989 may be withdrawn.
3	IS 12922 (Part 1): 1989	Specification for 90 mm flexible disk cartridge using 3 - Frequency recording at 7 958 ftprad on 80 tracks on each side: Part 1 Dimensional, physical and magnetic characteristics	ISO 8860-1:1987 Information processing — Data interchange on 90 mm (3.5 in) flexible disk cartridges using modified frequency modulation recording at 7 958 ftprad on 80 tracks on each side Part 1: Dimensional, physical and	The base ISO standard of this Indian standard has been withdrawn without any replacement.	As the base ISO 8860-1:1987 Standard has been withdrawn without any replacement, Therefore, The Indian Standard IS 12922 (Part 1): 1989 may be withdrawn.

			magnetic characteristics		
4	IS 12922 (Part 2): 1989	Specification for 90 mm flexible disk cartridge using 3 frequency r - Ecording at 7 958 ftprad on 80 tracks on each side: Part 2 track format	ISO 8860-2:1987 Information processing — Data interchange on 90 mm (3.5 in) flexible disk cartridges using modified frequency modulation recording at 7 958 ftprad on 80 tracks on each side Part 2: Track format	The base ISO standard of this Indian standard has been withdrawn without any replacement.	As the base ISO 8860-2:1987 Standard has been withdrawn without any replacement, Therefore, The Indian Standard IS 12922 (Part 2) : 1989 may be withdrawn.
5	IS 14441: 1997	Specification for keyboard	-	-	Few standards referred in this standard have been withdrawn.
6	IS 14176: 1994	Information processing - Volume and file structure of CD - ROM for information interchange	ISO 9660:1988 Information processing — Volume and file structure of CD-ROM for information interchange	The base ISO standard has been revised by ISO/IEC 9660:2023 Information processing — Volume and file structure of CD-ROM for information interchange	The latest version of this standard may take up as First Revision of IS 14176
7	IS/ISO/IEC 16963: 2015	Information Technology- Digitally Recorded Media for Information Interchange and Storage - Test Method for the Estimation of Lifetime of Optical Disks for Long-Term Data Storage	ISO/IEC 16963:2015 Information technology — Digitally recorded media for information interchange and storage — Test method for the estimation of lifetime of optical disks for long-term data storage	The base standard of this Indian standard has been revised by ISO/IEC 16963:2017 Information technology — Digitally recorded media for information interchange and storage — Test method for the estimation of	The latest version of this standard may take up as First Revision of this Indian standard.

				lifetime of optical disks for long-term data storage	
8	IS/ISO/IEC 17629: 2014	Information technology - Office equipment - Method for measuring first print out time for digital printing devices	ISO/IEC 17629:2014 Information technology — Office equipment — Method for measuring first print out time for digital printing devices	Will be replaced by Under development ISO/IEC DIS 17629 (Expected to be replaced by ISO/IEC DIS 17629 within the coming months)	The base ISO/IEC 17629 standard of this Indian standard is in Under Development on DIS stage, committee may decide to adopt latest version as First Revision of this Indian standard.
9	IS/ISO/IEC 17823: 2015	Information Technology Office Equipment Colour Terminology for Office Colour Equipment	ISO/IEC 17823: 2015 Information Technology Office Equipment Colour Terminology for Office Colour Equipment	The base standard of this Indian standard has been revised by ISO/IEC 17823:2024 Information technology — Office equipment — Vocabulary for office colour equipment	The latest version of this standard may take up as First Revision of this Indian standard.
10	IS/ISO/IEC 19752: 2017	Information technology Office equipment Method for the determination of toner cartridge yield for monochromatic electrophotographic printers and multi-function devices that contain printer components	ISO/IEC 19752:2017 Information technology — Office equipment — Method for the determination of toner cartridge yield for monochromatic electrophotographic printers and multi-function devices that contain printer components	Will be replaced by Under development ISO/IEC DIS 19752	The base ISO/IEC 19752 standard of this Indian standard is in Under Development on DIS stage, committee may decide to adopt latest version as First Revision of this Indian standard when published.

11	IS/ISO/IEC 19798: 2017	Information technology Office equipment Method for the determination of toner cartridge yield for colour printers and multi-function devices that contain printer	ISO/IEC 19798:2017 Information technology — Office equipment — Method for the determination of toner cartridge yield for colour printers and multi-function devices that contain printer components	Will be replaced by Under development ISO/IEC DIS 19798	The base ISO/IEC 19798 standard of this Indian standard is in Under Development on DIS stage, committee may decide to adopt latest version as First Revision of this Indian standard when published.
12	IS/ISO/IEC 21117: 2012	Information technology Office equipment Copying machines and multi-function devices Information to be included in specification sheets and related test methods	ISO/IEC 21117:2012 Information technology — Office equipment — Copying machines and multi-function devices — Information to be included in specification sheets and related test methods	Will be replaced by Under development ISO/IEC CD 21117	The base ISO/IEC 19798 standard of this Indian standard is in Under Development on CD stage, committee may decide to adopt latest version as First Revision of this Indian standard when published.
13	IS/ISO/IEC 29142-1: 2013	Information Technology - Print Cartridge Characterization Part 1 General: Terms, Symbols, Notations and Cartridge Characterization Framework	ISO/IEC 29142-1 : 2013 Information Technology - Print Cartridge Characterization Part 1 General: Terms, Symbols, Notations and Cartridge Characterization Framework	The base standard of this Indian standard has been revised by ISO/IEC 29142-1:2021 Information technology — Print cartridge characterization Part 1: General: terms, symbols, notations and cartridge characterization framework	The latest version of this standard may take up as First Revision of this Indian standard.

ANNEXURE-4

DOCUMENTS UNDER DEVELOPMENT

SL.No.	TITLE	ISO/IEC Standard	Current Stage	Due Date
1.	Information Technology - 130 mm Rewritable Optical Disk Cartridge for Information Interchange	Identical To: ISO/IEC 10089:1991	WC-Draft	Oct-22
2.	Information Processing - Volume and File Structure of CD - ROM for Information Interchange	Identical To: ISO 9660:1988	WC-Draft	Oct-22
3.	Electrotechnical Vocabulary: Part 59 Educational or Training Equipment and Systems (First Revision)	Identical To: 60050-171:2019	Finalization	Jan-23
4.	Information Processing - Magnetic Tape Cassette and Cartridge Labelling and File Structure for Information Interchange	Identical To: ISO 4341:1978	Finalization	Jan-23
5.	File Structure and Labelling of Flexible Disk Cartridges for Information Interchange (First Revision)	Identical To: ISO 7665:1983	F-Draft	Oct-24

ANNEXURE-5

EXPERTS FROM INDIA REGISTERED IN WGs

ISO/IEC JTC 1/SC 35 Biometrics Sectional Committee

S.No.	Member Name	Member Organization
1.	Mr Ashish Tiwari	Bureau of Indian Standards (BIS)
2.	Mr P Bhanu Krishnadev	Bureau of Indian Standards (BIS)
3.	Ms Ankita Srivastava	Bureau of Indian Standards (BIS)
4.	Mrs Nisha Bura	Bureau of Indian Standards (BIS)
5.	Mr Rajneesh Khosla	Bureau of Indian Standards (BIS)
6.	Mr Abhishek S. Naidu	Bureau of Indian Standards (BIS)

ISO/IEC JTC 1/SC 28 Office Equipment

S.No.	Member Name	Member Organization
1.	Ms Reena Garg	Bureau of Indian Standards (BIS)
2.	Mr P Bhanu Krishnadev	Bureau of Indian Standards (BIS)
3.	Ms Ankita Srivastava	Bureau of Indian Standards (BIS)
4.	Mrs Nisha Bura	Bureau of Indian Standards (BIS)
5.	Mr Rajneesh Khosla	Bureau of Indian Standards (BIS)
6.	Mr Abhishek S. Naidu	Bureau of Indian Standards (BIS)

ISO/IEC JTC 1/SC 28/AG Advisory Group

S.No.	Member Name	Member Organization
N/A		

ISO/IEC JTC 1/SC 28/WG 2 Consumables

S.No.	Member Name	Member Organization
1.	Mr Jitender Kumar	Bureau of Indian Standards (BIS)
2.	Mr Priyanshu Sharma	Bureau of Indian Standards (BIS)

ISO/IEC JTC 1/SC 28/WG 3 Productivity

S.No.	Member Name	Member Organization
N/A		

ISO/IEC JTC 1/SC 28/WG 4 Image quality assessment

S.No.	Member Name	Member Organization
N/A		

ISO/IEC JTC 1/SC 28/WG 5 Office Colour

S.No.	Member Name	Member Organization
N/A		

ISO/IEC JTC 1/SC 28/WG 6 Sustainability requirements

S.No.	Member Name	Member Organization
1.	Mr Jitender Kumar	Bureau of Indian Standards (BIS)
2.	Mr Priyanshu Sharma	Bureau of Indian Standards (BIS)

ISO/IEC JTC 1/SC 35 User interfaces

S.No.	Member Name	Member Organization
1.	Mr P Bhanu Krishnadev	Bureau of Indian Standards (BIS)
2.	Ms Ankita Srivastava	Bureau of Indian Standards (BIS)
3.	Mrs Nisha Bura	Bureau of Indian Standards (BIS)
4.	Mr Rajneesh Khosla	Bureau of Indian Standards (BIS)
5.	Mr Abhishek S. Naidu	Bureau of Indian Standards (BIS)

ISO/IEC JTC 1/SC 35/AHG 3 Accessibility of Internet of things user interfaces

S.No.	Member Name	Member Organization
N/A		

ISO/IEC JTC 1/SC 35/WG 1 Keyboards, methods and devices related to input and its feedback

S.No.	Member Name	Member Organization
N/A		

ISO/IEC JTC 1/SC 35/WG 2 Graphical user interface and interaction

S.No.	Member Name	Member Organization
N/A		

ISO/IEC JTC 1/SC 35/WG 4 User interfaces for mobile and wearable devices

S.No.	Member Name	Member Organization
1.	Ms Ankita Srivastava	Bureau of Indian Standards (BIS)

ISO/IEC JTC 1/SC 35/WG 5 Cultural and linguistic adaptability

S.No.	Member Name	Member Organization
1.	Ms Ankita Srivastava	Bureau of Indian Standards (BIS)

ISO/IEC JTC 1/SC 35/WG 6 User interfaces accessibility

S.No.	Member Name	Member Organization
N/A		

ISO/IEC JTC 1/SC 35/WG 9 Natural user interfaces and interactions

S.No.	Member Name	Member Organization
1.	Ms Ankita Srivastava	Bureau of Indian Standards (BIS)

ISO/IEC JTC 1/SC 35/WG 10 Affective computing user interfaces

S.No.	Member Name	Member Organization
N/A		

ANNEXURE-6
Ballots currently active under the committee

S. NO.	Stage	ISOIEC Comm	Ref/Doc No	Title	Start Date	Due Date	Level of Interest
1	SR	ISO/IEC JTC 1/SC 23	ISO/IEC 25434:2008 (Ed 3, vers 4)	Information technology — Data interchange on 120 mm and 80 mm optical disk using +R DL format — Capacity: 8,55 Gbytes and 2,66 Gbytes per side (recording speed up to 16X)	15-10-2024	04-03-2025	Medium (M)
2	SR	ISO/IEC JTC 1/SC 28	ISO/IEC 22505:2019	04 Mar 202517 Feb 2025	15-10-2024	04-03-2025	Medium (M)
3	SR	ISO/IEC JTC 1/SC 35	ISO/IEC 30113-12:2019	Information technology — User interfaces — Gesture-based interfaces across devices and methods — Part 12: Multi-point gestures for common system actions	15-10-2024	04-03-2025	Medium (M)
4	SR	ISO/IEC JTC 1/SC 35	ISO/IEC 20071-11:2019	Information technology — User interface component accessibility — Part 11: Guidance on text alternatives for images	15-10-2024	03-03-2025	Medium (M)
5	NP	ISO/IEC JTC 1/SC 35	ISO/IEC PWI 20071-41	Information technology — User interface component accessibility — Part 41: Design and use of pictograms, photos, and icons in augmentative and alternative communication (AAC)	26-09-2024	19-12-2024	Medium (M)
6	NP	ISO/IEC JTC 1/SC 35	ISO/IEC PWI 20071-40	Information technology — User interface component accessibility — Part 40: Augmentative and alternative communication (AAC)	26-09-2024	19-12-2024	Medium (M)
7	NP	ISO/IEC JTC 1/SC 35	ISO/IEC PWI 25421	Information technology — User interfaces — Describing whole-body movement sequences	26-09-2024	19-12-2024	Medium (M)
8	NP	ISO/IEC JTC 1/SC 35	ISO/IEC PWI 9995-7	Information technology — Keyboard layouts for text and office systems — Part 7: Part 7:	18-09-2024	11-12-2024	Medium (M)

				Symbols used to represent functions			
9	DIS	ISO/IEC JTC 1/SC 28	ISO/IEC DIS 17629 (Ed 2)	Information technology — Office equipment — Method for measuring first print out time for digital printing devices	20-08-2024	12-11-2024	High (H)
10	NP	ISO/IEC JTC 1/SC 28	ISO/IEC PWI 25397	Information technology — Office equipment — Method for creating printed test charts for testing colour reproduction of colour copying machines and multifunction devices with copying modes.	08-08-2024	31-10-2024	Medium (M)

ANNEXURE-7

Standards published by ISO/IEC JTC 1/SC 35 - User interfaces

S. No.	Standard No.	Pub. Year	Title
1	ISO/IEC 11581-7	2024	Information technology — User interface icons — Part 7: Icons for setting interaction modes
2	ISO/IEC 23773-1	2024	Information technology — User interfaces for automatic simultaneous interpretation systems — Part 1: General
3	ISO/IEC 23773-2	2024	Information technology — User interfaces for automatic simultaneous interpretation systems — Part 2: Requirements and functional description
4	ISO/IEC 23773-3	2024	Information technology — User interfaces for automatic simultaneous interpretation systems — Part 3: System architecture
5	ISO/IEC 4944	2024	Information technology — User interfaces — Evaluating usability of natural user interfaces
6	ISO/IEC TR 18720	2024	Information technology — User interfaces — Use cases of serviced offices
7	ISO/IEC TR 30150-2	2024	Information technology — Affective computing user interface (AUI) — Part 2: Affective characteristics
8	ISO/IEC 17549-3	2023	Information technology — User interface requirements and recommendations on menu navigation — Part 3: Navigation with one-direction devices
9	ISO/IEC 22121-2	2023	Information technology — Virtual keyboards user interfaces — Part 2: On-screen keyboards with direct touch interface
10	ISO/IEC 23859	2023	Information technology — User interfaces — Requirements and recommendations on making written text easy to read and understand
11	ISO/IEC 24661	2023	Information technology — User interfaces — Full duplex speech interaction
12	ISO/IEC 17549-1	2022	Information technology — User interface requirements and recommendations on menu navigation — Part 1: Framework
13	ISO/IEC 20071-5	2022	Information technology — User interface component accessibility — Part 5: Accessible user interfaces for accessibility settings on information devices
14	ISO/IEC 29138-3	2022	Information technology — User interface accessibility — Part 3: Requirements and recommendations on user needs mapping
15	ISO/IEC 30150-1	2022	Information technology — Affective computing user interface (AUI) — Part 1: Model
16	ISO/IEC 17549-2	2020	Information technology — User interface guidelines on menu navigation — Part 2: Navigation with 4-direction devices

17	ISO/IEC 23836	2020	Information technology — User interfaces — Universal interface for human language selection
18	ISO/IEC 30112	2020	Information technology — Specification methods for cultural conventions
19	ISO/IEC 30113-60	2020	Information technology — Gesture-based interfaces across devices and methods — Part 60: General guidance on gestures for screen readers
20	ISO/IEC 30113-61	2020	Information technology — Gesture-based interfaces across devices and methods — Part 61: Single-point gestures for screen readers
21	ISO/IEC 9995-12	2020	Information technology — Keyboard layouts for text and office systems — Part 12: Keyboard group selection
22	ISO/IEC 13251	2019	Information technology — Collection of graphical symbols for office equipment
23	ISO/IEC 20071-11	2019	Information technology — User interface component accessibility — Part 11: Guidance on text alternatives for images
24	ISO/IEC 30071-1	2019	Information technology — Development of user interface accessibility — Part 1: Code of practice for creating accessible ICT products and services
25	ISO/IEC 30113-12	2019	Information technology — User interfaces — Gesture-based interfaces across devices and methods — Part 12: Multi-point gestures for common system actions
26	ISO/IEC 30113-5	2019	Information technology — User interface — Gesture-based interfaces across devices and methods — Part 5: Gesture Interface Markup Language (GIML)
27	ISO/IEC 20071-23	2018	Information technology — User interface component accessibility — Part 23: Visual presentation of audio information (including captions and subtitles)
28	ISO/IEC 24752-8	2018	Information technology — User interfaces — Universal remote console — Part 8: User interface resource framework
29	ISO/IEC 29138-1	2018	Information technology — User interface accessibility — Part 1: User accessibility needs
30	ISO/IEC 20382-1	2017	Information technology — User interfaces — Face-to-face speech translation — Part 1: User interface
31	ISO/IEC 20382-2	2017	Information technology — User interface — Face-to-face speech translation — Part 2: System architecture and functional components
32	ISO/IEC 30113-11	2017	Information technology — Gesture-based interfaces across devices and methods — Part 11: Single-point gestures for common system actions
33	ISO/IEC 30122-2	2017	Information technology — User interfaces — Voice commands — Part 2: Constructing and testing
34	ISO/IEC 30122-3	2017	Information technology — User interfaces — Voice commands — Part 3: Translation and localization

35	ISO/IEC TS 20071-15	2017	Information technology — User interface component accessibility — Part 15: Guidance on scanning visual information for presentation as text in various modalities
36	ISO/IEC TS 20071-25	2017	Information technology — User interface component accessibility — Part 25: Guidance on the audio presentation of text in videos, including captions, subtitles and other on-screen text
37	ISO/IEC 30122-1	2016	Information technology — User interfaces — Voice commands — Part 1: Framework and general guidance
38	ISO/IEC 30122-4	2016	Information technology — User interfaces — Voice commands — Part 4: Management of voice command registration
39	ISO/IEC 9995-9	2016	Information technology — Keyboard layouts for text and office systems — Part 9: Multi-lingual, multiscript keyboard layouts
40	ISO/IEC TR 13066-2	2016	Information technology — Interoperability with assistive technology (AT) — Part 2: Windows accessibility application programming interface (API)
41	ISO/IEC TR 15440	2016	Information technology — Future keyboards and other input devices and entry methods
42	ISO/IEC 30113-1	2015	Information technology — User interface — Gesture-based interfaces across devices and methods — Part 1: Framework
43	ISO/IEC 9995-11	2015	Information technology — Keyboard layouts for office systems — Part 11: Functionality of dead keys and repertoires of characters entered by dead keys
44	ISO/IEC TR 13066-4	2015	Information technology — Interoperability with assistive technology (AT) — Part 4: Linux/UNIX graphical environments accessibility API
45	ISO/IEC TR 30109	2015	Information technology — User interfaces — Worldwide availability of personalized computer environments
46	ISO/IEC TS 20071-21	2015	Information technology — User interface component accessibility — Part 21: Guidance on audio descriptions
47	ISO/IEC TR 13066-6	2014	Information technology — Interoperability with Assistive Technology (AT) — Part 6: Java accessibility application programming interface (API)
48	ISO/IEC TR 20007	2014	Information technology — Cultural and linguistic interoperability — Definitions and relationship between symbols, icons, animated icons, pictograms, characters and glyphs
49	ISO/IEC TS 11581-41	2014	Information technology — User interface icons — Part 41: Data structure to be used by the ISO/IEC JTC 1/SC 35 icon database
50	ISO/IEC 9995-10	2013	Information technology — Keyboard layouts for text and office systems — Part 10: Conventional symbols and methods to represent graphic characters not uniquely recognizable by their glyph on keyboards and in documentation
51	ISO/IEC 29136	2012	Information technology — User interfaces — Accessibility of personal computer hardware

52	ISO/IEC TR 13066-3	2012	Information technology — Interoperability with assistive technology (AT) — Part 3: IAccessible2 accessibility application programming interface (API)
53	ISO/IEC 11581-40	2011	Information technology — User interface icons — Part 40: Management of icon registration
54	ISO/IEC 13066-1	2011	Information technology — Interoperability with assistive technology (AT) — Part 1: Requirements and recommendations for interoperability
55	ISO/IEC 15897	2011	Information technology — User interfaces — Procedures for the registration of cultural elements
56	ISO/IEC TR 11581-1	2011	Information technology — User interface icons — Part 1: Introduction to and overview of icon standards
57	ISO/IEC 11581-10	2010	Information technology — User interface icons — Part 10: Framework and general guidance
58	ISO/IEC 9995-3	2010	Information technology — Keyboard layouts for text and office systems — Part 3: Complementary layouts of the alphanumeric zone of the alphanumeric section
59	ISO/IEC 24756	2009	Information technology — Framework for specifying a common access profile (CAP) of needs and capabilities of users, systems, and their environments
60	ISO/IEC 24786	2009	Information technology — User interfaces — Accessible user interface for accessibility settings
61	ISO/IEC 9995-1	2009	Information technology — Keyboard layouts for text and office systems — Part 1: General principles governing keyboard layouts
62	ISO/IEC 9995-2	2009	Information technology — Keyboard layouts for text and office systems — Part 2: Alphanumeric section
63	ISO/IEC 9995-4	2009	Information technology — Keyboard layouts for text and office systems — Part 4: Numeric section
64	ISO/IEC 9995-5	2009	Information technology — Keyboard layouts for text and office systems — Part 5: Editing and function section
65	ISO/IEC 9995-7	2009	Information technology — Keyboard layouts for text and office systems — Part 7: Symbols used to represent functions
66	ISO/IEC 9995-8	2009	Information technology — Keyboard layouts for text and office systems — Part 8: Allocation of letters to the keys of a numeric keypad
67	ISO/IEC TR 24785	2009	Information technology — Taxonomy of cultural and linguistic adaptability user requirements
68	ISO/IEC TR 29138-2	2009	Information technology — Accessibility considerations for people with disabilities — Part 2: Standards inventory
69	ISO/IEC 24757	2008	Information technology — Keyboard interaction model — Machine-readable keyboard description
70	ISO/IEC 24755	2007	Information technology — Screen icons and symbols for personal mobile communication devices

71	ISO/IEC TR 11580	2007	Information technology — Framework for describing user interface objects, actions and attributes
72	ISO/IEC 24738	2006	Information technology — Icon symbols and functions for multimedia link attributes
73	ISO/IEC TR 19764	2005	Information technology — Guidelines, methodology and reference criteria for cultural and linguistic adaptability in information technology products
74	ISO/IEC 11581-5	2004	Information technology — User system interfaces and symbols — Icon symbols and functions — Part 5: Tool icons
75	ISO/IEC 18035	2003	Information technology — Icon symbols and functions for controlling multimedia software applications
76	ISO/IEC 18036	2003	Information technology — Icon symbols and functions for World Wide Web browser toolbars
77	ISO/IEC 18021	2002	Information technology — User interfaces for mobile tools for management of database communications in a client-server model
78	ISO/IEC 11581-1	2000	Information technology — User system interfaces and symbols — Icon symbols and functions — Part 1: Icons — General
79	ISO/IEC 11581-2	2000	Information technology — User system interfaces and symbols — Icon symbols and functions — Part 2: Object icons
80	ISO/IEC 11581-3	2000	Information technology — User system interfaces and symbols — Icon symbols and functions — Part 3: Pointer icons
81	ISO/IEC 11581-6	1999	Information technology — User system interfaces and symbols — Icon symbols and functions — Part 6: Action icons
82	ISO/IEC 14754	1999	Information technology — Pen-Based Interfaces — Common gestures for Text Editing with Pen-Based Systems
83	ISO/IEC 15411	1999	Information technology — Segmented keyboard layouts
84	ISO/IEC 15412	1999	Information technology — Portable computer keyboard layouts
85	ISO/IEC 14755	1997	Information technology — Input methods to enter characters from the repertoire of ISO/IEC 10646 with a keyboard or other input device
86	ISO/IEC 10741-1	1995	Information technology — User system interfaces — Dialogue interaction — Part 1: Cursor control for text editing

Standards published by ISO/IEC JTC 1/SC 28 - Office equipment

S. No.	Standard No.	Pub. Year	Title
1	ISO/IEC 22592-1	2024	Office equipment — Print quality measurement methods for colour prints — Part 1: Image quality measurement methods
2	ISO/IEC 22592-2	2024	Office equipment — Print quality measurement methods for colour prints — Part 2: Registration and magnification accuracy
3	ISO/IEC 7184	2024	Office equipment — Security requirements for hard copy devices (HCDs) — Part 1: Definition of the basic requirements
4	ISO/IEC 29102	2023	Information technology — Office equipment — Method for the determination of ink cartridge yield for colour photo printing with inkjet printers and multi-function devices that contain inkjet printer components
5	ISO/IEC 15775	2022	Information technology — Office equipment — Method of specifying image reproduction of colour copying machines and multifunction devices with copying modes by printed test charts
6	ISO/IEC 22954	2022	Information technology — Office equipment — Automated colour profile distribution
7	ISO/IEC 23385	2022	Information technology — Office equipment — Method for measuring single photo printing time for digital printing devices
8	ISO/IEC 29183	2021	Information technology — Office equipment — Method for measuring digital copying productivity for a single one-sided original
9	ISO/IEC 21118	2020	Information technology — Office equipment — Information to be included in specification sheets for data projectors
10	ISO/IEC TR 22981	2020	Information technology — Office equipment — Guidelines for the development of an ontology (vocabulary, components and relationships) for office equipment
11	ISO/IEC 22505	2019	Information technology — Method for the determination of ink cartridge yield for monochrome inkjet printers and multi-function devices that contain inkjet printer components
12	ISO/IEC 29112	2018	Information technology — Office equipment — Test pages and methods for measuring monochrome printer resolution
13	ISO/IEC TR 21565	2018	Information technology — Office equipment — Viewing environment guideline for office equipment
14	ISO/IEC 24790	2017	Information technology — Office equipment — Measurement of image quality attributes for hardcopy output — Monochrome text and graphic images
15	ISO/IEC TR 29186	2012	Information technology — Office equipment — Test method of colour gamut mapping algorithm for office colour softcopy and hardcopy
16	ISO/IEC 29103	2011	Information technology — Office equipment — Colour photo test pages for measurement of ink cartridge yield for colour photo printing

17	ISO/IEC 24712	2007	Colour test pages for measurement of office equipment consumable yield
18	ISO/IEC 18050	2006	Information technology — Office equipment — Print quality attributes for machine readable Digital Postage Marks
19	ISO/IEC 24700	2005	Quality and performance of office equipment that contains reused components
20	ISO/IEC 15404	2000	Information technology — Office machines — Minimum information to be included in specification sheets — Facsimile equipment

Standards published by ISO/IEC JTC 1/SC 23 - Digitally recorded media for information interchange and storage

S. No.	Standard No.	Pub. Year	Title
1	ISO/IEC 18630	2023	Information technology — Digitally recorded media for information interchange and storage — Quality discrimination method for optical disks and operating method of storage systems for long-term data preservation
2	ISO/IEC 29121	2021	Information technology — Digitally recorded media for information interchange and storage — Data migration method for optical disks for long-term data storage
3	ISO/IEC 30190	2021	Information technology — Digitally recorded media for information interchange and storage — 120 mm Single Layer (25,0 Gbytes per disk) and Dual Layer (50,0 Gbytes per disk) BD Recordable disk
4	ISO/IEC 30191	2021	Information technology — Digitally recorded media for information interchange and storage — 120 mm Triple Layer (100,0 Gbytes single sided disk and 200,0 Gbytes double sided disk) and Quadruple Layer (128,0 Gbytes single sided disk) BD Recordable disk
5	ISO/IEC 30192	2021	Information technology — Digitally recorded media for information interchange and storage — 120 mm Single Layer (25,0 Gbytes per disk) and Dual Layer (50,0 Gbytes per disk) BD Rewritable disk
6	ISO/IEC 30193	2021	Information technology — Digitally recorded media for information interchange and storage — 120 mm triple layer (100,0 Gbytes per disk) BD rewritable disk
7	ISO/IEC 10995	2011	Information technology — Digitally recorded media for information interchange and storage — Test method for the estimation of the archival lifetime of optical media

8	ISO/IEC 17341	2009	Information technology — Data interchange on 120 mm and 80 mm optical disk using +RW format — Capacity: 4,7 Gbytes and 1,46 Gbytes per side (recording speed up to 4X)
9	ISO/IEC 17344	2009	Information technology — Data interchange on 120 mm and 80 mm optical disk using +R format — Capacity: 4,7 Gbytes and 1,46 Gbytes per side (recording speed up to 16X)
10	ISO/IEC 26925	2009	Information technology — Data interchange on 120 mm and 80 mm optical disk using +RW HS format — Capacity: 4,7 Gbytes and 1,46 Gbytes per side (recording speed 8X)
11	ISO/IEC 29171	2009	Information technology — Digitally recorded media for information interchange and storage — Information Versatile Disk for Removable usage (iVDR) cartridge
12	ISO/IEC 29642	2009	Information technology — Data interchange on 120 mm and 80 mm optical disk using +RW DL format — Capacity: 8,55 Gbytes and 2,66 Gbytes per side (recording speed 2,4X)
13	ISO/IEC 25434	2008	Information technology — Data interchange on 120 mm and 80 mm optical disk using +R DL format — Capacity: 8,55 Gbytes and 2,66 Gbytes per side (recording speed up to 16X)
14	ISO/IEC 17345	2006	Information technology — Data Interchange on 130 mm Rewritable and Write Once Read Many Ultra Density Optical (UDO) Disk Cartridges — Capacity: 30 Gbytes per Cartridge — First Generation
15	ISO/IEC 17346	2005	Information technology — Data interchange on 90 mm optical disk cartridges — Capacity: 1,3 Gbytes per cartridge
16	ISO/IEC 22533	2005	Information technology — Data interchange on 90 mm optical disk cartridges — Capacity: 2,3 Gbytes per cartridge
17	ISO/IEC 17594	2004	Information technology — Cases for 120 mm and 80 mm DVD-RAM disks
18	ISO/IEC 23651	2003	Information technology — 8 mm wide magnetic tape cartridge for information interchange — Helical scan recording — AIT-3 format
19	ISO/IEC 16448	2002	Information technology — 120 mm DVD — Read-only disk
20	ISO/IEC 16449	2002	Information technology — 80 mm DVD — Read-only disk
21	ISO/IEC 22050	2002	Information technology — Data interchange on 12,7 mm, 384-track magnetic tape cartridges — Ultrium-1 format
22	ISO/IEC 22051	2002	Information technology — Data interchange on 12,7 mm, 448-track magnetic tape cartridges — SDLT1 format
23	ISO/IEC 22091	2002	Information technology — Streaming Lossless Data Compression algorithm (SLDC)

24	ISO/IEC 22092	2002	Information technology — Data interchange on 130 mm magneto-optical disk cartridges — Capacity: 9,1 Gbytes per cartridge
25	ISO/IEC 18810	2001	Information technology — 8 mm wide magnetic tape cartridge for information interchange — Helical scan recording AIT-2 with MIC format
26	ISO/IEC 18836	2001	Information technology — 8 mm wide magnetic tape cartridge for information interchange — Helical scan recording — MammothTape-2 format
27	ISO/IEC 20061	2001	Information technology — 12,65 mm wide magnetic tape cassette for information interchange — Helical scan recording — DTF-2
28	ISO/IEC 20062	2001	Information technology — 8 mm wide magnetic tape cartridge for information interchange — Helical scan recording — VXA-1 format
29	ISO/IEC 16382	2000	Information technology — Data interchange on 12,7 mm 208-track magnetic tape cartridges — DLT 6 format
30	ISO/IEC 17462	2000	Information technology — 3,81 mm wide magnetic tape cartridge for information interchange — Helical scan recording — DDS-4 format
31	ISO/IEC 17913	2000	Information technology — 12,7mm 128-track magnetic tape cartridge for information interchange — Parallel serpentine format
32	ISO/IEC 18809	2000	Information technology — 8 mm wide magnetic tape cartridge for information interchange — Helical scan recording AIT-1 with MIC format
33	ISO/IEC 14417	1999	Information technology — Data recording format DD-1 for magnetic tape cassette conforming to IEC 1016
34	ISO/IEC 15286	1999	Information technology — 130 mm optical disk cartridges for information interchange — Capacity: 5,2 Gbytes per cartridge
35	ISO/IEC 15895	1999	Information technology — Data interchange on 12,7 mm 128-track magnetic tape cartridges — DLT 3-XT format
36	ISO/IEC 15896	1999	Information technology — Data interchange on 12,7 mm 208-track magnetic tape cartridges — DLT 5 format
37	ISO/IEC 16825	1999	Information technology — Case for 120 mm DVD-RAM disks

38	ISO/IEC 16969	1999	Information technology — Data interchange on 120 mm optical disk cartridges using +RW format — Capacity: 3,0 Gbytes and 6,0 Gbytes
39	ISO/IEC 15521	1998	Information technology — 3,81 mm wide magnetic tape cartridge for information interchange — Helical scan recording — DDS-3 format using 125 m length tapes
40	ISO/IEC 15718	1998	Information technology — Data interchange on 8 mm wide magnetic tape cartridge — Helical scan recording — HH-1 format
41	ISO/IEC 15731	1998	Information technology — 12,65 mm wide magnetic tape cassette for information interchange — Helical scan recording — DTF-1 format
42	ISO/IEC 15757	1998	Information technology — Data interchange on 8 mm wide magnetic tape cartridge — Helical scan recording — DA-2 format
43	ISO/IEC 15780	1998	Information technology — 8 mm wide magnetic tape cartridge — Helical scan recording — AIT-1 format
44	ISO/IEC 15041	1997	Information technology — Data interchange on 90 mm optical disk cartridges — Capacity: 640 Mbytes per cartridge
45	ISO/IEC 15307	1997	Information technology — Data interchange on 12,7 mm 128-track magnetic tape cartridges — DLT 4 format
46	ISO/IEC 13923	1996	Information technology — 3,81 mm wide magnetic tape cartridge for information interchange — Helical scan recording — DDS-2 format using 120 m length tape
47	ISO/IEC 14517	1996	Information technology — 130 mm optical disk cartridges for information interchange — Capacity: 2,6 Gbytes per cartridge
48	ISO/IEC 14833	1996	Information technology — Data interchange on 12,7 mm 128-Track magnetic tape cartridges — DLT 3 format
49	ISO/IEC 14840	1996	Information technology — 12,65 mm wide magnetic tape cartridge for information interchange — Helical scan recording — Data-D3-1 format
50	ISO/IEC 15200	1996	Information technology — Adaptive Lossless Data Compression algorithm (ALDC)
51	ISO/IEC 13842	1995	Information technology — 130 mm optical disk cartridges for information interchange — Capacity: 2 Gbytes per cartridge

52	ISO/IEC 13962	1995	Information technology — Data interchange on 12,7 mm, 112-track magnetic tape cartridges — DLT 2 format
53	ISO/IEC 13963	1995	Information technology — Data interchange on 90 mm optical disk cartridges — Capacity: 230 megabytes per cartridge
54	ISO/IEC 14251	1995	Information technology — Data interchange on 12,7 mm 36-track magnetic tape cartridges
55	ISO/IEC 9661	1994	Information technology — Data interchange on 12,7 mm wide magnetic tape cartridges — 18 tracks, 1 491 data bytes per millimetre
56	ISO/IEC 10885	1993	Information technology — 356 mm optical disk cartridge for information interchange — Write once
57	ISO/IEC 11319	1993	Information technology — 8 mm wide magnetic tape cartridge for information interchange — Helical scan recording
58	ISO/IEC 11559	1993	Information technology — Data interchange on 12,7 mm wide 18-track magnetic tape cartridges — Extended format
59	ISO/IEC 12042	1993	Information technology — Data compression for information interchange — Binary arithmetic coding algorithm
60	ISO/IEC 12246	1993	Information technology — 8 mm wide magnetic tape cartridge dual azimuth format for information interchange — Helical scan recording
61	ISO/IEC 12247	1993	Information technology — 3,81 mm wide magnetic tape cartridge for information interchange — Helical scan recording — DDS format using 60 m and 90 m length tapes
62	ISO/IEC 12248	1993	Information technology — 3,81 mm wide magnetic tape cartridge for information interchange — Helical scan recording — DATA/DAT-DC format using 60 m and 90 m length tapes
63	ISO/IEC 13421	1993	Information technology — Data Interchange on 12,7 mm, 48-track magnetic tape cartridges — DLT 1 format
64	ISO/IEC 13481	1993	Information technology — Data interchange on 130 mm optical disk cartridges — Capacity: 1 gigabyte per cartridge
65	ISO/IEC 13549	1993	Information technology — Data interchange on 130 mm optical disk cartridges — Capacity: 1,3 gigabytes per cartridge

66	ISO/IEC 11321	1992	Information technology — 3,81 mm wide magnetic tape cartridge for information interchange — Helical scan recording — DATA/DAT format
67	ISO/IEC 11557	1992	Information technology — 3,81 mm wide magnetic tape cartridge for information interchange — Helical scan recording — DDS-DC format using 60 m and 90 m length tapes
68	ISO/IEC 11558	1992	Information technology — Data compression for information interchange — Adaptive coding with embedded dictionary — DCLZ Algorithm