

## BUREAU OF INDIAN STANDARDS

### Program of Work

#### LITD 23 : Coding and Processing Of Audio, Picture, Multimedia and Hypermedia Information

**Scope:** To prepare Indian Standards relating to: a) Coded representation of audio, picture, multimedia and Hypermedia information and sets of compression and control functions for use with such information, and b) Interfaces for information technology based applications relating to computer graphics and image processing

**Liaison:** **ISO/IEC/JTC1 TC- SC-24 (O):** *Computer graphics, image processing and environmental data representation* **ISO/IEC/JTC1 TC- SC-29 (P):** *Coding of audio, picture, multimedia and hypermedia information*

### Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 12369 (Part 1) : 2024 ISO/IEC 7942-1: 1994 <span style="color: green;">ISO/IEC 7942-1: 1994</span>	Information technology - Computer graphics and image processing - Graphical Kernel System GKS Part 1: Functional description		-	Identical under dual numbering
2	IS 12369 (Part 2) : 2024 ISO/IEC 7942-2: 1997 <span style="color: green;">ISO/IEC 7942-2: 1997</span>	Information technology - Computer graphics and image processing - Graphical Kernel System GKS Part 2: NDC metafile		-	Identical under dual numbering
3	IS 12369 (Part 3) : 2024 ISO/IEC 7942-3: 1999 <span style="color: green;">ISO/IEC 7942-3: 1999</span>	Information technology - Computer graphics and image processing - Graphical Kernel System GKS Part 3: Audit trail		-	Identical under dual numbering
4	IS 12369 (Part 4) : 2024 ISO/IEC 7942-4: 1998 <span style="color: green;">ISO/IEC 7942-4: 1998</span>	Information technology - Computer graphics and image processing - Graphical Kernel System GKS Part 4: Picture part archive		-	Identical under dual numbering
5	IS/ISO/IEC 14496-1 : 2010  <span style="color: green;">Reviewed In : 2022 ISO/IEC 14496-1 : 2010</span>	Information Technology - Coding of Audio-Visual Objects Part 1 Systems	October, 2022	-	Identical under single numbering
6	IS/ISO/IEC 14496-2 : 2004 ISO/IEC 14496-2 :	Information Technology - Coding of Audio-Visual Objects Part 2 Visual	December, 2022	-	Identical under single numbering

	2004 Reviewed In : 2022 ISO/IEC 14496-2 : 2004				
7	IS/ISO/IEC 14496-3 : 2019 ISO/IEC 14496-3:2019 Reviewed In : 2024 ISO/IEC 14496-3:2019	Information technology Coding of audio-visual objects Part 3: Audio First Revision	August, 2024	-	Identical under single numbering
8	IS/ISO/IEC 14496-4 : 2004 ISO/IEC 14496-4 : 2004 Reviewed In : 2023 ISO/IEC 14496-4 : 2004	Information Technology - Coding of Audio-Visual Objects Part 4 Conformance Testing	January, 2023	1	Identical under single numbering
9	IS/ISO/IEC 14496-5 : 2001 ISO/IEC 14496-5 : 2001 Reviewed In : 2023 ISO/IEC 14496-5 : 2001	Information Technology - Coding of Audio-Visual Objects Part 5 Reference Software	January, 2023	1	Identical under single numbering
10	IS/ISO/IEC 14496-6 : 2000 ISO/IEC 14496-6 : 2000 Reviewed In : 2022 ISO/IEC 14496 Part 6 : 2000	Information Technology - Coding of Audio-Visual Objects Part 6 Delivery Multimedia Integration Framework ( DMIF )	November, 2022	-	Identical under single numbering
11	IS/ISO/IEC/TR 14496-7 : 2004 ISO/IEC TR 14496-7 : 2004 Reviewed In : 2022 ISO/IEC TR 14496-7 :2004	Information Technology - Coding of Audio-Visual Objects Part 7 Optimized Reference Software for Coding of Audio-Visual Objects	November, 2022	-	Identical under single numbering
12	IS/ISO/IEC 14496-8 : 2004 ISO/IEC 14496-8 : 2004 Reviewed In : 2022 ISO/IEC 14496-8 : 2004	Information Technology - Coding of Audio-Visual Objects Part 8 Carriage of ISO / IEC 14496 Contents over IP Networks	October, 2022	-	Identical under single numbering
13	IS/ISO/IEC/TR 14496-9 : 2009 ISO/IEC TR 14496-9 : 2009 Reviewed In : 2022 ISO/IEC TR 14496-9 :2009	Information Technology - Coding of Audio-Visual Objects Part 9 Reference Hardware Description	October, 2022	-	Identical under single numbering
14	IS/ISO/IEC 14496-10 : 2014 ISO/IEC 14496-10 : 2014 Reviewed In : 2022 ISO/IEC 14496-10:	Information Technology - Coding of Audio-Visual Objects Part 10 Advanced Video Coding	October, 2022	-	Identical under single numbering

	2022				
15	IS/ISO/IEC 14496-10 : 2022 ISO/IEC 14496-10: 2022 ISO/IEC 14496-10: 2022	Information Technology “ Coding of Audio- Visual Objects Part 10 Advanced Video Coding (First Revision)		-	Identical under single numbering
16	IS/ISO/IEC 14496-11 : 2015 ISO/IEC 14496-11 : 2015 Reviewed In : 2022 ISO/IEC 14496-11 : 2015	Information Technology - Coding of Audio-Visual Objects Part 11 Scene Description and Application Engine	November, 2022	-	Identical under single numbering
17	IS/ISO/IEC 14496-12 : 2015 Reviewed In : 2022 ISO/IEC 14496-12 : 2015	Information Technology - Coding of Audio-Visual Objects Part 12 ISO Base Media File Format	October, 2022	-	Identical under single numbering
18	IS/ISO/IEC 14496-13 : 2004 ISO/IEC 14496-13 : 2004 Reviewed In : 2022 ISO/IEC 14496-13 : 2004	Information Technology - Coding of Audio-Visual Objects Part 13 Intellectual Property Management and Protection ( IPMP ) Extensions	October, 2022	-	Identical under single numbering
19	IS/ISO/IEC 14496-14 : 2020 ISO/IEC 14496-14:202 Reviewed In : 2024 ISO/IEC 14496-14:2020	INFORMATION TECHNOLOGY CODING OF AUDIO-VISUAL OBJECTS PART 14 MP4 FILE FORMAT (First Revision)	August, 2024	-	Identical under single numbering
20	IS/ISO/IEC 14496-15 : 2019 ISO/IEC 14496-15:2019 ISO/IEC 14496-15:2019	INFORMATION TECHNOLOGY CODING OF AUDIO-VISUAL OBJECTS PART 15 CARRIAGE OF NETWORK ABSTRACTION LAYER NAL UNIT STRUCTURED VIDEO IN THE ISO BASE MEDIA FILE FORMAT first revision		-	Identical under single numbering
21	IS/ISO/IEC 14496-16 : 2011 ISO/IEC 14496-16 : 2011 Reviewed In : 2023 ISO/IEC 14496-16 : 2011	Information Technology Coding of Audio-Visual Objects Part 16 Animation Framework eXtension ( AFX )	March, 2023	-	Identical under single numbering
22	IS/ISO/IEC 14496-17 : 2006 ISO/IEC 14496-17 : 2006 Reviewed In : 2022 ISO/IEC 14496-17 : 2006	Information Technology - Coding of Audio-visual Objects Part 17 Streaming Text Format	October, 2022	-	Identical under single numbering
23	IS/ISO/IEC 14496-18 : 2004 ISO/IEC 14496-18 :	Information Technology - Coding of Audio-Visual Objects Part 18 Font Compression and Streaming	October, 2022	-	Identical under single numbering

	2004 Reviewed In : 2022 ISO/IEC 14496-18 : 2004				
24	IS/ISO/IEC 14496-19 : 2004 ISO/IEC 14496-19 : 2004 Reviewed In : 2022 ISO/IEC 14496-19 : 2004	Information Technology - Coding of Audio-Visual Objects Part 19 Synthesized Texture Stream	November, 2022	-	Identical under single numbering
25	IS/ISO/IEC 14496-20 : 2008 Reviewed In : 2022 ISO/IEC 14496-20 : 2008	Information Technology - Coding of Audio-Visual Objects Part 20 Lightweight Application Scene Representation ( LASeR ) and Simple Aggregation Format ( SAF )	October, 2022	-	Identical under single numbering
26	IS/ISO/IEC 14496-21 : 2006 ISO/IEC 14496-21 : 2006 Reviewed In : 2022 ISO/IEC 14496-21 : 2006	Information Technology - Coding of Audio-Visual Objects Part 21 MPEG-J Graphics Framework eXtensions ( GFX )	December, 2022	-	Identical under single numbering
27	IS/ISO/IEC 14496-22 : 2019 ISO/IEC 14496-22:201 Reviewed In : 2024 ISO/IEC 14496-22:201	Information technology - Coding of audio - Visual objects: Part 22 open font format	August, 2024	-	Identical under single numbering
28	IS/ISO/IEC 14496-23 : 2008 ISO/IEC 14496-23 : 2008 Reviewed In : 2022 ISO/IEC 14496-23 : 2008	Information Technology - Coding of Audio-Visual Objects Part 23 Symbolic Music Representation	November, 2022	-	Identical under single numbering
29	IS/ISO/IEC/TR 14496-24 : 2008 ISO/IEC TR 14496-24 : 2008 Reviewed In : 2022 ISO/IEC TR 14496-24 :2008	Information Technology - Coding of Audio-visual Objects Part 24 Audio and Systems Interaction	October, 2022	-	Identical under single numbering
30	IS/ISO/IEC 14496-25 : 2011 ISO/IEC 14496-25 : 2011 Reviewed In : 2022 ISO/IEC 14496-25 : 2011	Information Technology - Coding of Audio-visual Objects Part 25 3D Graphics Compression Model	October, 2022	-	Identical under single numbering
31	IS/ISO/IEC 14496-26 : 2010 ISO/IEC 14496-26 : 2010 Reviewed In : 2022 ISO/IEC 14496-26 : 2010	Information Technology - Coding of Audio-Visual Objects Part 26 Audio Conformance	December, 2022	-	Identical under single numbering

32	IS/ISO/IEC 14496-27 : 2009 ISO/IEC 14496-27 : 2009 Reviewed In : 2022 ISO/IEC 14496-27 : 2009	Information Technology - Coding of Audio-Visual Objects Part 27 3D Graphics Conformance	December, 2022	-	Identical under single numbering
33	IS/ISO/IEC 14496-28 : 2012 ISO/IEC 14496-28 : 2012 Reviewed In : 2022 ISO/IEC 14496-28 : 2012	Information Technology - Coding of Audio-Visual Objects Part 28 Composite Font Representation	December, 2022	-	Identical under single numbering
34	IS/ISO/IEC 14496-29 : 2015 ISO/IEC 14496-29 : 2015 Reviewed In : 2022 ISO/IEC 14496-29 : 2015	Information Technology - Coding of Audio-Visual Objects Part 29 Web Video Coding	December, 2022	-	Identical under single numbering
35	IS/ISO/IEC 14496-30 : 2018 ISO/IEC 14496-30 : 2018 Reviewed In : 2022 ISO/IEC 14496-30:2018	Information Technology - Coding of Audio-Visual Objects Part 30 Timed Text and Other Visual Overlays in ISO Base Media File Format	October, 2022	-	Identical under single numbering
36	IS/ISO/IEC 14496-33 : 2019 ISO/IEC 14496-33 : 2019 Reviewed In : 2022 ISO/IEC 14496-33 : 2019	Information Technology - Coding of Audio-Visual Objects Part 33 Internet Video Coding	October, 2022	-	Identical under single numbering
37	IS 16125 (Part 1) : 2014 ISO/IEC 15938-1 : 2002 Reviewed In : 2023 ISO/IEC 15938-1 : 2002	Information technology - Multimedia content description interface: Part 1 systems	September, 2023	-	Identical under dual numbering
38	IS 16125 (Part 2) : 2013 ISO/IEC 15938-2 Reviewed In : 2023 ISO/IEC 15938-2 : 2002	Information technology - Multimedia content description interface: Part 2 description definition language	September, 2023	-	Identical under dual numbering

### Standards under Development

#### Projects Approved

Sl. No.	Doc No.	Title
<i>No Records Found</i>		

#### Preliminary Draft Standards

SI. No.	Doc No.	Title
<i>No Records Found</i>		

<b>Drafts Standards in WC Stage</b>		
SI. No.	Doc No.	Title
<i>No Records Found</i>		

<b>Draft Standards Completed WC Stage</b>		
SI. No.	Doc No.	Title
1	LITD 23 (25552)	Information Technology Computer Graphics Image Processing and Environmental Data Representation Information Model For Mixed and Augmented Reality Content Core Objects and Attributes
2	LITD 23 (25553)	Information Technology Computer Graphics Image Processing and Environmental Data Representation Style Representation for Mixed and Augmented Reality
3	LITD 23 (25554)	Information Technology Computer Graphics Image Processing and Environment Data Representation ObjectEnvironmental Representation For Image-Based Rendering In VirtualMixed and Augmented Reality VRMAR
4	LITD 23 (25555)	Information Technology Computer Graphics Image Processing and Environmental Data Representation Guidelines for Representation and Visualization of Smart Cities
5	LITD 23 (25591)	Information technology Computer graphics image processing and environmental representation Sensor representation in mixed and augmented reality
6	LITD 23 (25592)	Information technology Computer graphics image processing and environmental data representation Mixed and augmented reality MAR reference model
7	LITD 23 (25593)	Information technology Computer graphics image processing and environmental data representation Live actor and entity representation in mixed and augmented reality MAR
8	LITD 23 (25594)	Information technology Computer graphics image processing and environmental data representation Benchmarking of vision-based spatial registration and tracking methods for mixed and augmented reality MAR

<b>Finalized Draft Indian Standard</b>		
SI. No.	Doc No.	Title
1	LITD 23 (24385) <b>Revision of: IS/ISO/IEC 14496:2015</b>	Information Technology Coding of Audio-Visual Objects Part 12 ISO Base Media File Format

<b>Finalized Draft Indian Standards under Print</b>		
SI. No.	Doc No.	Title
<i>No Records Found</i>		

**Total Published Standards:33 Total Standards Under development:9**

### Aspect Wise Report

- Product : 0
- Code of Practices : 0
- Methods of Test : 0
- Terminology : 0
- Dimensions : 0
- System Standard : 0
- Safety Standard : 0
- Others : 37
- Service Specification : 0
- Process Specification : 0
- Unclassified : 0

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

<b>SI. No.</b>	<b>IS No. &amp; Year</b>	<b>Title</b>
1	IS 12369 : 1987 ISO 7942 Reviewed In : 2019 ISO 7942:1985	Graphical kernel system GKS for computer graphics

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

<b>SI. No.</b>	<b>IS No. &amp; Year</b>	<b>Title</b>
<i>No Records Found</i>		