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:	21.11.2024
Time:	1000 hrs
Chairperson:	Shri Y L P Rao (In Individual Capacity)
Member Secretary:	Mr Sailendra Kumar Verma (Scientist-C, LITD)
Meeting Link:	https://bismanak.webex.com/bismanak/j.php?MTID=mdb70520d5e2224090352c5d45dd9fea9
Meeting Number:	2517 865 3161
Password:	Litd@32

MINUTES OF MEETING

0   WELCOME ADDRESS

0.1   The Member Secretary extended a warm welcome to the participants. He briefed the members on the agenda of the meeting and requested them to kindly introduce themselves.

0.2   After introduction of the members, the Member Secretary requested the Chairperson to kindly initiate the proceedings.

0.3   The Chairperson warmly welcomed all participants and highlighted the critical importance of their active participation in the committee's work. The Chairperson outlined key agenda items to be taken up during the meeting.

1   FORMAL CONFIRMATION OF THE MINUTES OF LAST MEETING

1.1   The Member Secretary informed that the minutes of the 10th meeting of the committee held on 15.03.2024 were circulated on 02.04.2024. No comments were received on the minutes. Hence, the committee formally confirmed the minutes of the 10th meeting.

2   SCOPE AND COMPOSITION OF LITD 36

2.1   The committee noted item 2.1 and 2.2 of the agenda.

2.2   The committee was further informed about the details regarding the liaison process with ISO/IEC committees and ways in which members could engage in their work.

2.3   The Member Secretary requested the committee to review its current composition and provide information regarding any modifications deemed necessary. The chairman has

informed that Shri Yashwant Kumar (In personal capacity) has desired to withdraw his name from the composition, the same was approved by committee.

2.4 The Member Secretary encouraged members to recommend additional organizations to broaden the committee's representation and inclusiveness.

3 PROGRAM OF WORK OF LITD 36

3.1 The committee noted item 3.1 of the agenda.

4 REVIEW OF STANDARDS

4.1 It was decided that the standards listed under item 4.1 of the agenda would be assigned to Panel 1 for review. Based on the panel's recommendations, a preliminary draft (P-draft) may be prepared and circulated to the technical committee for further consideration.

5 DOCUMENTS UNDER DEVELOPMENT

5.1 The committee decided to issue reminders to the members for providing their inputs. Specifically, the committee will seek inputs from Sparsh Security on documents LITD/32/26719 and LITD/32/26722. If no comments are received within 15 days, the documents will be advanced to the WC stage.

5.2 The committee resolved to advance the documents LITD/32/22485, LITD/32/22486, LITD/32/22487, LITD/32/22488 and LITD/32/22489 to F-draft stage.

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

6.1 The committee resolved to create five new panels focusing on:
a) Biometric Technical Interfaces,
b) Biometric Data Interchange Formats,
c) Biometric Data Interchange Formats,
d) Biometric Testing and Reporting, and
e) Cross-Jurisdictional and Societal Aspects of Biometrics
This decision was made as per Item 6.1 of the agenda.

6.2 It was decided to establish panels based on the current composition of existing working groups, focusing on the areas identified for the panels. Furthermore, it was resolved to send invitation letters to committee members and existing panel members, inviting them to participate in the newly formed panels.

7 INTERNATIONAL STANDARDIZATION ACTIVITIES

7.1 The committee took note of agenda items 7.1 and 7.2. The Member Secretary emphasized the importance of India's active participation in the upcoming meetings of SC 37. It was urged that experts nominate themselves for participation to ensure a robust delegation from India.

7.2 The committee approved the removal of Shri Yashwant Kumar from their roles as experts in ISO/IEC JTC 1/SC 37 and its associated working groups.
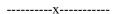
7.3 The committee approved the nomination of following members as an expert in ISO/IEC JTC 1/SC 37 and its associated working groups:

   a) Shri Amarish Kumar, Ministry of Electronics and Information Technology - expert in ISO/IEC JTC 1/SC 37/WG 2, ISO/IEC JTC 1/SC 37/WG 3 and ISO/IEC JTC 1/SC 37/WG 6.

   b) Shri Sailendra Kumar Verma, BIS – expert in ISO/IEC JTC 1/SC 37, ISO/IEC JTC 1/SC 37/WG 3, ISO/IEC JTC 1/SC 37/WG 4 and ISO/IEC JTC 1/SC 37/WG 5.

7.4 The next plenary meeting of ISO/IEC JTC 1/SC 37 is scheduled to be held during January 13 to 17, 2025 at Wellington, New Zealand in Face-to-Face (with remote participation) mode. The Indian delegation comprising the following members was approved to attend the said WGs and plenary meetings:

   a) Dr. Y. L. P. Rao, In personal capacity (Chair) - Remote Participation, WG1, WG2, WG5, AG3, AG4, Workshop & Plenary.

   b) Shri Amarish Kumar, Ministry of Electronics and Information Technology –Face to Face Participation, WG2, WG3, WG6 & Plenary.

   c) Shri Yogendra D. Wadaskar, WYSE Biometrics System Private Limited – Remote Participation, WG3, WG4 & Plenary.

   d) Shri Sailendra Kumar Verma, BIS – Face to Face Participation, WG2, WG3, WG5, WG6 & Plenary.

7.5 The Member Secretary elaborated on the role of experts nominated for ballots and encouraged members to nominate themselves as experts in ISO/IEC JTC 1/SC 37, based on their interest and areas of expertise in the ongoing developments.

8 DATE AND PLACE FOR THE NEXT MEETING

8.1 It was decided that the next meeting will be held in February 2025 in a hybrid mode.

9 ANY OTHER BUSINESS

9.1 It was resolved during the meeting to create a dedicated WhatsApp group for LITD 32 TC to enhance communication and coordination.

9.2 With no further items for discussion, the meeting concluded with a heartfelt vote of thanks extended to all participants and the chairperson.

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ANNEXURE-1

Composition of LITD 32

COMPOSITION			ATTENDANCE			
S.No.	**Organization**	**Member Name**	**8th Meeting**	**9th Meeting**	**10th Meeting**	**Total**
1	In Personal Capacity	Dr. Y L P Rao (Chairperson)	Y	Y	Y	3/3
2	Access Computech Private Limited	Shri Ketan Upadhyay (Principal Member)	N	Y	N	1/3
		Shri Ajay Sinha (Alternate Member)				
3	Indian Institute of Technology Kanpur, Kanpur	Prof Vipul Arora (Principal Member)	Y	Y	Y	3/3
4	Ministry of Electronics and Information Technology, New Delhi	Shri Santosh Kumar Soni (Principal Member)	Y	Y	Y	3/3
		Shri Amarish Kumar (Alternate Member)				
5	National Crime Records Bureau, New Delhi	Shri Pawan Bharadwaj (Principal Member)	Y	Y	N	2/3
		Shri Ravinder Kumar (Alternate Member)				
6	National Institute of Technology, Durgapur	Shri Dakshina Ranjan Kisku (Principal Member)	Y	Y	Y	3/3
7	Precision Biometric (I) Pvt Limited	Shri Anbumani N.K (Principal Member)	N	Y	Y	2/3
		Shri P.G. Kishore (Alternate Member)				
8	Standardization Testing and Quality Certification (STQC)	Shri Harbans Singh (Principal Member)	N	N	Y	1/3
		Mr Gautam Prasad (Alternate Member)				
		Shri Sunny Sarvottam (Alternate Member)				

9	Unique Identification Authority of India, New Delhi	Shri Sanjeev Yadav (Principal Member)	Y	Y	Y	3/3
10	WYSE Biometrics System Private Limited, Pune	Shri Yogendra D Wadaskar (Principal Member)	Y	Y	Y	3/3
11	In Personal Capacity	Shri Yashwant Kumar (Personal Capacity)	Y	Y	N	2/3

COMPOSITION OF LITD 32: P1 - Review Panel

S. No.	Organization	Member Name	Role
1	IN INDIVIDUAL CAPACITY	Y L P Rao	Convenor
2	Bhabha Atomic Research Centre, Mumbai	Shri Anand Laddha	Principal Member
3	Centre for Development of Advanced Computing, Bengaluru	Biswajit Saha	Principal Member
4	Matrix Cosmec Private Limited, Vadodara	Shri Devanand Nair	Alternate Member
5	Precision Biometric (I) Pvt Limited	Shri Anbumani N.K	Principal Member
6	Precision Biometric (I) Pvt Limited	Shri P.G. Kishore	Alternate Member
7	Punjab National Bank, New Delhi	Maj. Gaurav P S Uppal	Principal Member
8	Reliance India Limited, Mumbai	Shri Rajan Luthra	Principal Member
9	Sparsh Security, Noida	Shri Sanjeev Sehgal	Principal Member
10	Sparsh Security, Noida	Malvika Pathak	Alternate Member
11	Sparsh Security, Noida	Pankaj Saini	Alternate Member
12	Telecom Equipment Manufacturers Association, New Delhi	N. K. Goyal	Principal Member
13	Unique Identification Authority of India, New Delhi	Shri Sanjeev Yadav	Principal Member
14	WYSE Biometrics System Private Limited, Pune	Shri Yogendra D Wadaskar	Principal Member

LITD 32: Working Group 1 Harmonized Biometric Vocabulary

S. No.	Organization	Member Name	Role
1	Ministry of Electronics and Information Technology, New Delhi	Shri Santosh Kumar Soni	Convenor
2	Standardization Testing and Quality Certification (STQC)	Mrs. Ravinder Sahi	Principal Member
3	Standardization Testing and Quality Certification (STQC)	Gautam Prasad	Alternate Member
4	WYSE Biometrics System Private Limited, Pune	Shri Yogendra D Wadaskar	Principal Member

LITD 32: Working Group 2-Biometric Technical Interfaces

S. No.	Organization	Member Name	Role
1	In Personal Capacity	Shri Yashwant Kumar	Convenor
2	Indian Institute of Technology Delhi, New Delhi	Prof Sandeep Kumar Jha	Principal Member
3	National Institute of Technology, Durgapur	Shri Dakshina Ranjan Kisku	Principal Member
4	Standardization Testing and Quality Certification (STQC)	Gautam Prasad	Principal Member

LITD 32: Working Group 3 Biometric Data Interchange Formats

S. No.	Organization	Member Name	Role
1	Standardization Testing and Quality Certification (STQC)	Mr K M Chhabra	Convenor
2	Centre for Development of Advanced Computing, Pune	Shrimati Sweta Suhasaria	Principal Member
3	National Crime Records Bureau, New Delhi	SHRI PAWAN BHARDWAJ	Principal Member
4	National Institute of Technology, Durgapur	Shri Dakshina Ranjan Kisku	Principal Member

S. No.	Organization	Member Name	Role
5	Standardization Testing and Quality Certification (STQC)	Mrs Ravinder Sahi	Principal Member
6	WYSE Biometrics System Private Limited, Pune	Shri Yogendra D Wadaskar	Principal Member
7	In Personal Capacity	Shri Yashwant Kumar	Principal Member

LITD 32: Working Group 4 Technical Implementation of Biometric Systems

S. No.	Organization	Member Name	Role
1	WYSE Biometrics System Private Limited, Pune	Shri Yogendra D Wadaskar	Convenor
2	Centre for Development of Advanced Computing, Pune	Shrimati Sweta Suhasaria	Principal Member
3	Indian Institute of Technology Kanpur, Kanpur	Prof Vipul Arora	Principal Member
4	Ministry of Electronics and Information Technology, New Delhi	Shri Santosh Kumar Soni	Principal Member
5	National Crime Records Bureau, New Delhi	Shri Pawan Bhardwaj	Principal Member
6	National Institute of Technology, Durgapur	Shri Dakshina Ranjan Kisku	Principal Member
7	Unique Identification Authority of India, New Delhi	Shri Rupinder Singh	Principal Member
8	In Personal Capacity	Shri Yashwant Kumar	Principal Member

LITD 32: Working Group 5 Biometric Testing and Reporting

S. No.	Organization	Member Name	Role
1	Centre for Development of Advanced Computing, Pune	Shrimati Sweta Suhasaria	Convenor
2	Indian Institute of Technology Kanpur, Kanpur	Prof Vipul Arora	Principal Member

3	Standardization Testing and Quality Certification (STQC)	Mrs Ravinder Sahi	Principal Member
4	Standardization Testing and Quality Certification (STQC)	Mr K M Chhabra	Principal Member
5	Standardization Testing and Quality Certification (STQC)	Gautam Prasad	Principal Member

LITD 32: Working Group 6 Cross-Jurisdictional and Societal Aspects of Biometrics

S. No.	Organization	Member Name	Role
1	National Crime Records Bureau, New Delhi	Shri Pawan Bhardwaj	Convenor
2	National Institute of Technology, Durgapur	Shri Dakshina Ranjan Kisku	Principal Member
3	Standardization Testing and Quality Certification (STQC)	Mrs. Ravinder Sahi	Principal Member
4	Unique Identification Authority of India, New Delhi	Shri Rupinder Singh	Principal Member

ANNEXURE-2

Program of Work

Sl. No.	IS No.	TITLE
1	IS 16464 (Part 1) : 2019 ISO/IEC 19784-1:2018	Information Technology - Biometric Application Programming Interface Part 1 BioAPI Specification
2	IS 16464 (Part 2) : 2016 ISO/IEC 19784-2 : 2007	Information technology - Biometric application programming interface: Part 2 biometric archive function provider interface
3	IS 16464 (Part 4) : 2015 ISO/IEC 19784-4 : 2011	Information technology - Biometric application programming interface: Part 4 biometric sensor function provider interface
4	IS/ISO/IEC 19794-1 : 2011 ISO/IEC 19794-1 : 2011	Information Technology - biometric Data interchange formats part 1 Framework
5	IS/ISO/IEC 19794-2 : 2011 ISO/IEC 19794-2:2011	Information Technology - Biometric Data Interchange Formats Part 2 Finger Minutiae Data
6	IS/ISO/IEC 19794-3 : 2006 ISO/IEC 19794-3:2006	Information Technology - Biometric Data Interchange Formats Part 3 Finger Pattern Spectral Data
7	IS/ISO/IEC 19794-4 : 2011 ISO/IEC19794-4 : 2011	Information Technology - Biometric Data Interchange Formats Part 4 Finger Image Data
8	IS/ISO/IEC 19794-5 : 2011 ISO/IEC 19794-5:2011	Information Technology - Biometric Data Interchange Formats Part 5 Face Image Data
9	IS/ISO/IEC 19794-6 : 2011 ISO/IEC 19794-6:2011	Information Technology - Biometric Data Interchange Formats Part 6 Iris Image Data
10	IS/ISO/IEC 19794-7 : 2014 ISO/IEC 19794-7 : 2014	Information Technology - biometric Data interchange formats part 7 Signature/Sign Time Series Data
11	IS/ISO/IEC 19794-8 : 2011 ISO/IEC 19794-8:2011	Information technology - Biometric data interchange formats: Part 8 finger pattern skeletal data
12	IS/ISO/IEC 19794-9 : 2011 ISO/IEC 19794-9 : 2011	Information Technology - biometric Data interchange formats part 9 vascular image Data
13	IS/ISO/IEC 19794-10 : 2007 ISO/IEC 19794-10:2007	Information Technology - Biometric Data Interchange Formats Part 10 hand Geometry Silhouette Data
14	IS/ISO/IEC 19794-11 : 2013 ISO/IEC 19794-11 : 2013	Information Technology - Biometric Data Interchange Formats Part 11 Signature/Sign Processed Dynamic Data
15	IS/ISO/IEC 19794-13 : 2018	

	ISO/IEC 19794-13:2018	Information Technology - Biometric Data Interchange Formats Part 13 Voice Data
16	IS/ISO/IEC 19794-14 : 2013 ISO/IEC 19794-14:2013	Information technology - Biometric data interchange formats: Part 14 dna data
17	IS/ISO/IEC 19794-15 : 2017 ISO/IEC 19794-15:2017	Information Technology - Biometric Data Interchange Format Part 15 Palm Crease Image Data
18	IS/ISO/IEC 19795-2 : 2007 ISO/IEC 19795-2:2007	INFORMATION TECHNOLOGY BIOMETRIC PERFORMANCE TESTING AND REPORTING PART 2: TESTING ETHODOLOGIES FOR TECHNOLOGY AND SCENARIO EVALUATION
19	IS/ISO/IEC 19795-3 : 2007 ISO/IEC TR 19795-3:2	INFORMATION TECHNOLOGY BIOMETRIC PERFORMANCE TESTING AND REPORTING PART 3: MODALITY-SPECIFIC TESTING
20	IS/ISO/IEC 19795-4 : 2008 ISO/IEC 19795-4:2008	Information Technology - Biometric performance testing and reporting - part 4: Interoperability performance testing
21	IS/ISO/IEC 19795-5 : 2011 ISO/IEC 19795-5:2011	Information Technology - Biometric performance testing and reporting - part 5: Access control scenario and grading scheme
22	IS/ISO/IEC 19795-6 : 2012 ISO/IEC 19795-6:2012	Information Technology - Biometric performance testing and reporting - part 6: Testing methodologies for operational evaluation
23	IS/ISO/IEC 19795-7 : 2011 ISO/IEC 19795-7:2011	Information Technology - Biometric performance testing and reporting - part 7: Testing of on-card biometric comparison algorithms
24	IS/ISO/IEC/TS 19795-9 : 2019 ISO/IEC/TS 19795-9:2019	Information technology Biometric performance testing and reporting Part 9: Testing on mobile devices
25	IS/ISO/IEC 24779-5 : 2020 ISO/IEC 24779-5:2020	Information technology Cross-jurisdictional and societal aspects of implementation of biometric technologies Pictograms icons and symbols for use with biometric systems Part 5: Face applications
26	IS/ISO/IEC 29109-1 : 2009 ISO/IEC 29109-1 : 2009	Information Technology - Conformance testing Methodology for Biometric Data Interchange Formats Defined in ISO/IEC 19794 Part 1 Generalized Conformance Testing Methodology
27	IS 29109 (Part 2) : 2010 ISO/IEC 29109-2:2010	Information Technology - Conformance Testing Methodology for Biometric Data Interchange Formats Defined in ISO/IEC 19794 Part 2 Finger Minutiae Data
28	IS/ISO/IEC 29109-4 : 2010 ISO/IEC 29109-4:2010	Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794: Part 4 finger image data
29	IS/ISO/IEC 29109-5 : 2019 ISO/IEC 29109 : Part 5 : 2019	Information Technology â€" Conformance Testing Methodology for Biometric Data Interchange Formats Defined in ISO / IEC 19794 Part 5 Face Image Data (First Revision)
30	IS/ISO/IEC 29109-6 : 2011 ISO/IEC 29109-6 : 2011	Information Technology - Conformance Testing Methodology for Biometric Data Interchange Formats Defined in ISO/IEC 19794 Part 6 Iris Image Data
31	IS/ISO/IEC 29109-7 : 2011	

	ISO/IEC 29109-7 : 2011	Information Technology - Conformance Testing Methodology for Biometric Data Interchange Formats Defined in ISO/IEC 19794 Part 7 Signature/Sign Time Series Data
32	IS/ISO/IEC 29109-8 : 2011 ISO/IEC 29109-8 : 2011	Information technology - Conformance Testing Methodology For Biometric Data Interchange Formats Defined in ISO/IEC 19794 Part 8 Finger Pattern Skeletal Data
33	IS/ISO/IEC 29109-9 : 2011 ISO/IEC 29109-9 : 2011	Information Technology - Conformance Testing Methodology for Biometric Data Interchange Formats Defined in ISO/IEC 19794 Part 9 vascular image Data
34	IS/ISO/IEC 29109-10 : 2010 ISO/IEC 29109-10 : 2010	Information Technology - Conformance Testing Methodology for Biometric Data Interchange Formats Defined in ISO/IEC 19794 Part 10 Hand Geometry Silhouette Data
35	IS/ISO/IEC 29141 : 2009 ISO/IEC 29141:2009	Information technology Biometrics Tenprint capture using biometric application programming interface BioAPI
36	IS/ISO/IEC/TR 29196 : 2018 ISO/IEC TR 29196:2018	Information Technology - Guidance for Biometric Enrolment
37	IS/ISO/IEC 29197 : 2015 ISO/IEC 29197:2015	Information technology Evaluation methodology for environmental influence in biometric system performance
38	IS/ISO/IEC 30106-1 : 2016 ISO/IEC 30106-1:2016	Information technology Object oriented BioAPI Part 1: Architecture
39	IS/ISO/IEC 30106-2 : 2020 ISO/IEC 30106-2:2020	Information technology Object oriented BioAPI Part 2: Java implementation
40	IS/ISO/IEC 30106-3 : 2020 ISO/IEC 30106-3:2020	Information technology Object oriented BioAPI Part 3: C implementation
41	IS/ISO/IEC 30106-4 : 2019 ISO/IEC 30106-4:2019	Information technology Object oriented BioAPI Part 4: C implementation
42	IS/ISO/IEC 30107-1 : 2016 ISO/IEC 30107-1:2016	Information technology Biometric presentation attack detection Part 1: Framework
43	IS/ISO/IEC 30107-2 : 2017 ISO/IEC 30107-2:2017	Information technology Biometric presentation attack detection Part 2: Data formats
44	IS/ISO/IEC 30107-4 : 2020 ISO/IEC 30107-4:2020	Information technology Biometric presentation attack detection Part 4: Profile for testing of mobile devices
45	IS/ISO/IEC 30108-1 : 2015 ISO/IEC 30108-1:2015	Information technology Biometric Identity Assurance Services Part 1: BIAS services
46	IS/ISO/IEC/TR 30125 : 2016 ISO/IEC TR 30125:2016	Information technology Biometrics used with mobile devices
47	IS/ISO/IEC 30136 : 2018 ISO/IEC 30136:2018	Information technology Performance testing of biometric template protection schemes
48	IS/ISO/IEC 39794-1 : 2019 ISO/IEC 39794-1:2019	Information technology Extensible biometric data interchange formats Part 1: Framework
49	IS/ISO/IEC 39794-4 : 2019 ISO/IEC 39794-4:2019	Information technology Extensible biometric data interchange formats Part 4: Finger image data
50	IS/ISO/IEC 39794-5 : 2019 ISO/IEC 39794-5:2019	Information technology Extensible biometric data interchange formats Part 5: Face image data

ANNEXURE-3

Standards due for review

S. No.	IS NUMBER	TITLE	Latest ISO/IEC Standard	Remarks
1.	IS/ISO/IEC 19794-7 : 2014	Information Technology - biometric Data interchange formats part 7 Signature/Sign Time Series Data	The base standard of this Indian standard has been revised by ISO/IEC 19794-7:2021 Information technology — Biometric data interchange formats Part 7: Signature/sign time series data	As the base standard of this Indian standard is revised so that the committee may decide to reaffirm and revised this Indian standard.
2.	IS/ISO/IEC 19794-14 : 2013	Information technology - Biometric data interchange formats: Part 14 DNA data	The base standard of this Indian standard has been revised by ISO/IEC 19794-14:2022 Information technology — Biometric data interchange formats — Part 14: DNA data	As the base standard of this Indian standard is revised so that the committee may decide to reaffirm and revised this Indian standard.
3.	IS/ISO/IEC 30107-1 : 2016	Information technology Biometric presentation attack detection Part 1: Framework	The base standard of this Indian standard has been revised by ISO/IEC 30107-1:2023 Information technology —Biometric presentation attack detection — Part 1: Framework	As the base standard of this Indian standard is revised so that the committee may decide to reaffirm and revised this Indian standard.
4.	IS/ISO/IEC 30107-4 : 2020	Information technology Biometric presentation attack detection Part 4: Profile for testing of mobile devices	The base standard of this Indian standard has been revised by ISO/IEC 30107-4:2024 Information technology — Biometric presentation attack detection Part 4: Profile for testing of mobile devices	As the base standard of this Indian standard is revised so that the committee may decide to reaffirm and revised this Indian standard.

ANNEXURE-4

DOCUMENTS UNDER DEVELOPMENT

S. No.	TITLE	ISO/IEC Standard	Current Stage	DUE DATE
1.	Information technology Use of biometrics in video surveillance systems Part 4: Ground truth and video annotation procedure	Identical To: ISO/IEC 30137-4:2021	P-Draft	Nov-24
2.	Information technology Use of biometrics in video surveillance systems Part 1: System design and specification	Identical To: ISO/IEC 30137-1:2024	P-Draft	Nov-24
3.	Information Technology Vocabulary Part 37: Biometrics	Identical To: ISO/IEC 2382-37:2022	WC-Draft	May-23
4.	Information Technology Biometric Performance Testing and Reporting Part 1: Principles and Framework	Identical To: ISO/IEC 19795-1:2021	WC-Draft	May-23
5.	Information Technology Cross-Jurisdictional and Societal Aspects of Implementation of Biometric Technologies Pictograms Icons and Symbols for use With Biometric Systems Part 1: General Principles	Identical To: ISO/IEC 24779-1:2016	WC-Draft	May-23
6.	Information Technology Cross-Jurisdictional and Societal Aspects of Implementation of Biometric Technologies Pictograms Icons and Symbols for use With Biometric Systems Part 4: Fingerprint Applications	Identical To: ISO/IEC 24779-4:2017	WC-Draft	May-23
7.	Information Technology Cross-Jurisdictional and Societal Aspects of Implementation of Biometric Technologies Pictograms Icons and Symbols for use With Biometric Systems Part 9: Vascular Applications	Identical To: ISO/IEC 24779-9:2015	WC-Draft	May-23

ANNEXURE-5

EXPERTS FROM INDIA REGISTERED IN WGs

ISO/IEC JTC 1/SC 37 Biometrics Sectional Committee

S.No.	Member Name	Member Organization
1.	Dr. Y L P Rao	In Individual Capacity
2.	Mr. Rupinder Singh	Unique Identification Authority of India, New Delhi
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 37/AHG 1 Inclusive Terminology in SC 37 Standards

S.No.	Member Name	Member Organization
		N/A

ISO/IEC JTC1/SC 37/WG1 Harmonized Biometric Vocabulary

S.No.	Member Name	Member Organization
1.	Mr. Gautam Prasad	Standardization Testing and Quality Certification
2.	Ms. R Sahi	Standardization Testing and Quality Certification
3.	Mr. Santosh Kumar Soni	Ministry of Electronics and Information Technology, New Delhi
4.	Ms Ankita Srivastava	Bureau of Indian Standards
5.	Mr. Y.D Wadaskar	WYSE Biometrics System Private Limited, Pune

ISO/IEC JTC 1/SC 37/WG 2 Biometric Technical Interfaces

S.No.	Member Name	Member Organization
1.	Dr. Sandeep Jha	Indian Institute of Technology Delhi, New Delhi
2.	Mr. Yashwant Kumar	In Personal Capacity
3.	Mr. Parsad Gautam	Standardization Testing and Quality Certification
4.	Dr. Dakshina Ranjan	National Institute of Technology, Durgapur
5.	Mr. Ketan Upadhyay	Access Computech Pvt Ltd

ISO/IEC JTC 1/SC 37/WG 3 Biometric Data Interchange formats

S.No.	Member Name	Member Organization
1.	Dr. Pawan Bhardwaj	National Crime Records Bureau, New Delhi
2.	Mr. K.M Chhabra	Standardization Testing and Quality Certification
3.	Mrs. Reena Garg	Bureau of Indian Standards
4.	Mr.Yashwant Kumar	In Personal Capacity
5.	Dr. Dakshina Ranjan	National Institute of Technology, Durgapur

6.	Ms. R Sahi	Standardization Testing and Quality Certification
7.	Mr. Ajay Sinha	Access Computech Pvt Ltd
8.	Ms. Sweta Suhasaria	Centre for Development of Advanced Computing, Pune
9.	Mr. Y.D. Wadaskar	WYSE Biometrics System Private Limited, Pune

ISO/IEC JTC 1/SC 37/WG 4 Technical Implementation of Biometric Systems

S.No.	Member Name	Member Organization
1.	Dr. Vipul Arora	Indian Institute of Technology Kanpur, Kanpur
2.	Dr. Pawan Bhardwaj	National Crime Records Bureau, New Delhi
3.	Mr. Yashwant Kumar	In Personal Capacity
4.	Dr. Dakshina Ranjan	National Institute of Technology, Durgapur
5.	Mr. Rupinder Singh	Unique Identification Authority of India, New Delhi
6.	Mr. Santosh Kumar Soni	Ministry of Electronics and Information Technology, New Delhi
7.	Ms. Sweta Suhasaria	Centre for Development of Advanced Computing, Pune
8.	Mr. Y.D. Wadaskar	WYSE Biometrics System Private Limited, Pune
9.	Mr. Ketan Upadhyay	Access Computech Pvt Ltd

ISO/IEC JTC 1/SC 37/WG 5 Biometric Testing and Reporting

S.No.	Member Name	Member Organization
1.	Dr. Vipul Arora	Indian Institute of Technology Kanpur, Kanpur
2.	Mr. K.M Chhabra	Standardization Testing and Quality Certification
3.	Mr. Parsad Gautam	Standardization Testing and Quality Certification
4.	Ms. R Sahi	Standardization Testing and Quality Certification
5.	Mr. Ajay Sinha	Access Computech Pvt Ltd
6.	Ms. Sweta Suhasaria	Centre for Development of Advanced Computing, Pune

ISO/IEC JTC 1/SC 37/WG 6 Cross-Jurisdictional and Societal Aspects of Biometrics

S.No.	Member Name	Member Organization
1.	Dr. Pawan Bhardwaj	National Crime Records Bureau, New Delhi
2.	Dr. Dakshina Ranjan	National Institute of Technology, Durgapur
3.	Ms. R Sahi	Standardization Testing and Quality Certification
4.	Mr. Rupinder Singh	Unique Identification Authority of India, New Delhi

ANNEXURE-6

Ballots currently active under the committee

S. No.	Stage	ISO/IEC Comm	Ref/Doc No	Title	Start Date	Due Date	Level of Interest
1	SR	ISO/IEC JTC 1/SC 37	ISO/IEC 39794-5:2019	Information technology — Extensible biometric data interchange formats — Part 5: Face image data	15-10-2024	04-03-2025	Medium
2	SR	ISO/IEC JTC 1/SC 37	ISO/IEC 39794-4:2019	Information technology — Extensible biometric data interchange formats — Part 4: Finger image data	15-10-2024	04-03-2025	Medium
3	SR	ISO/IEC JTC 1/SC 37	ISO/IEC 39794-1:2019	Information technology — Extensible biometric data interchange formats — Part 1: Framework	15-10-2024	04-03-2025	Medium
4	CD	ISO/IEC JTC 1/SC 37	ISO/IEC 39794-2:2023/ CD Amd 1	Information technology — Extensible biometric data interchange formats — Part 2: Finger minutiae data — Amendment 1: Handling of finger minutiae card format	10-10-2024	05-12-2024	Medium
5	DIS	ISO/IEC JTC 1/SC 37	ISO/IEC DIS 20059	Information technology — Methodologies to evaluate the resistance of biometric recognition systems to morphing attacks	07-10-2024	30-12-2024	Medium
6	NP	ISO/IEC JTC 1/SC 37	ISO/IEC NP 25456	Information technology — Biometrics — Biometric data injection attack detection	01-10-2024	24-12-2024	Medium
7	DIS	ISO/IEC JTC 1/SC 37	ISO/IEC DIS 30108-1 (Ed 2)	Biometrics – Identity attributes verification services — Part 1: IAVS services	24-09-2024	17-12-2024	Medium
8	NP	ISO/IEC JTC 1/SC 37	ISO/IEC NP 25447	Face image profile for less constrained capture conditions	24-09-2024	19-11-2024	Medium
9	SR	ISO/IEC JTC 1/SC 37	ISO/IEC 30106-4:2019	Information technology — Object oriented BioAPI — Part 4: C++ implementation	15-07-2024	02-12-2024	High

ANNEXURE-7

Standards published by ISO/IEC JTC 1/SC 37

S. No.	Standard No.	Pub. Year	Title
1	ISO/IEC 5152	2024	Information technology — Biometric performance estimation methodologies using statistical models
2	ISO/IEC 19795-10	2024	Information technology — Biometric performance testing and reporting — Part 10: Quantifying biometric system performance variation across demographic groups
3	ISO/IEC 24741	2024	Information technology — Biometrics — Overview and application
4	ISO/IEC 29794-1	2024	Information technology — Biometric sample quality — Part 1: Framework
5	ISO/IEC 29794-4	2024	Information technology — Biometric sample quality — Part 4: Finger image data
6	ISO/IEC 30137-1	2024	Information technology — Use of biometrics in video surveillance systems — Part 1: System design and specification
7	ISO/IEC TR 20322	2023	Information technology — Cross-jurisdictional and societal aspects of implementation of biometric technologies — Biometrics and elderly people
8	ISO/IEC TS 22604	2023	Information technology — Biometric recognition of subjects in motion in access-related systems
9	ISO/IEC 24714	2023	Biometrics — Cross-jurisdictional and societal aspects of biometrics — General guidance
10	ISO/IEC 30107-3	2023	Information technology — Biometric presentation attack detection — Part 3: Testing and reporting
11	ISO/IEC 30108-2	2023	Biometrics — Identity attributes verification services — Part 2: RESTful specification
12	ISO/IEC 39794-2	2023	Information technology — Extensible biometric data interchange formats — Part 2: Finger minutiae data
13	ISO/IEC 2382-37	2022	Information technology — Vocabulary — Part 37: Biometrics
14	ISO/IEC 29120-1	2022	Information technology — Machine-readable test data for biometric testing and reporting — Part 1: Test reports
15	ISO/IEC 19785-2	2021	Information technology — Common Biometric Exchange Formats Framework — Part 2: Biometric registration authority
16	ISO/IEC 19795-1	2021	Information technology — Biometric performance testing and reporting — Part 1: Principles and framework
17	ISO/IEC 21472	2021	Information technology — Scenario evaluation methodology for user interaction influence in biometric system performance

18	ISO/IEC TR 22116	2021	Information technology — A study of the differential impact of demographic factors in biometric recognition system performance
19	ISO/IEC 30137-4	2021	Information technology — Use of biometrics in video surveillance systems — Part 4: Ground truth and video annotation procedure
20	ISO/IEC 39794-6	2021	Information technology — Extensible biometric data interchange formats — Part 6: Iris image data
21	ISO/IEC 39794-9	2021	Information technology — Extensible biometric data interchange formats — Part 9: Vascular image data
22	ISO/IEC 39794-16	2021	Information technology — Extensible biometric data interchange formats — Part 16: Full body image data
23	ISO/IEC 39794-17	2021	Information technology — Extensible biometric data interchange formats — Part 17: Gait image sequence data
24	ISO/IEC 19785-1	2020	Information technology — Common Biometric Exchange Formats Framework — Part 1: Data element specification
25	ISO/IEC 19785-3	2020	Information technology — Common Biometric Exchange Formats Framework — Part 3: Patron format specifications
26	ISO/IEC 20027	2018	Information technology — Guidelines for slap tenprint fingerprintture
27	ISO/IEC 24709-1	2017	Information technology — Conformance testing for the biometric application programming interface (BioAPI) — Part 1: Methods and procedures
28	ISO/IEC 24779-4	2017	Information technology — Cross-jurisdictional and societal aspects of implementation of biometric technologies — Pictograms, icons and symbols for use with biometric systems — Part 4: Fingerprint applications
29	ISO/IEC 24779-1	2016	Information technology — Cross-jurisdictional and societal aspects of implementation of biometric technologies — Pictograms, icons and symbols for use with biometric systems — Part 1: General principles
30	ISO/IEC TR 24722	2015	Information technology — Biometrics — Multimodal and other multibiometric fusion
31	ISO/IEC 24779-9	2015	Information technology — Cross-jurisdictional and societal aspects of implementation of biometric technologies — Pictograms, icons and symbols for use with biometric systems — Part 9: Vascular applications
32	ISO/IEC TR 29156	2015	Information technology — Guidance for specifying performance requirements to meet security and usability needs in applications using biometrics
33	ISO/IEC TR 29189	2015	Information technology — Biometrics — Evaluation of examiner assisted biometric applications
34	ISO/IEC TR 29194	2015	Information technology — Biometrics — Evaluation of examiner assisted biometric applications

35	ISO/IEC TR 29195	2015	Traveller processes for biometric recognition in automated border control systems
36	ISO/IEC 29794-6	2015	Information technology — Biometric sample quality — Part 6: Iris image data
37	ISO/IEC TR 30110	2015	Information technology — Cross jurisdictional and societal aspects of implementation of biometric technologies — Biometrics and children
38	ISO/IEC TR 29144	2014	Information technology — Biometrics — The use of biometric technology in commercial Identity Management applications and processes
39	ISO/IEC TR 29198	2013	Information technology — Biometrics — Characterization and measurement of difficulty for fingerprint databases for technology evaluation
40	ISO/IEC 24709-3	2011	Information technology — Conformance testing for the biometric application programming interface (BioAPI) — Part 3: Test assertions for BioAPI frameworks
41	ISO/IEC 29164	2011	Information technology — Biometrics — Embedded BioAPI
42	ISO/IEC 19785-4	2010	Information technology — Common Biometric Exchange Formats Framework — Part 4: Security block format specifications
43	ISO/IEC 29159-1	2010	Information technology — Biometric calibration, augmentation and fusion data — Part 1: Fusion information format
44	ISO/IEC TR 29794-5	2010	Information technology — Biometric sample quality — Part 5: Face image data
45	ISO/IEC 24713-3	2009	Information technology — Biometric profiles for interoperability and data interchange — Part 3: Biometrics-based verification and identification of seafarers
46	ISO/IEC 24708	2008	Information technology — Biometrics — BioAPI Interworking Protocol
47	ISO/IEC 24713-1	2008	Information technology — Biometric profiles for interoperability and data interchange — Part 1: Overview of biometric systems and biometric profiles
48	ISO/IEC 24713-2	2008	Information technology — Biometric profiles for interoperability and data interchange — Part 2: Physical access control for employees at airports
49	ISO/IEC 24709-2	2007	Information technology — Conformance testing for the biometric application programming interface (BioAPI) — Part 2: Test assertions for biometric service providers