BUREAU OF INDIAN STANDARDS

MINUTES

THIRTY SEVENTH MEETING OF ARTIFICIAL INTELLIGENCE SECTIONAL COMMITTEE, LITD 30 ALONG WITH ITS SUB-GROUPS

DATE : 03-09-2024 **DAY : Tuesday** **TIME : 1030h – 1330h**	**Hybrid Meeting** **VENUE***: Board Room, 4th Floor, Victor Menezes Convention Centre (VMCC), IIT Bombay, Maharashtra, India*
	Virtual link: **https://bismanak.webex.com/bismanak/j.php?MTID=md95d45794631ded5ceecdfae98d4d507** **Meeting number**: 2517 051 5921 **Password:**LITD30@37
Chairperson*: Dr. Pushpak Bhattacharyya*	**Member Secretary:** Shri Kshitij Bathla

List of Participants is given in Annex-1.

ITEM 0 WELCOME

0.1 Mr. Kshitij Bathla, Member Secretary, LITD 30 welcomed all the participants. Member Secretary provided a presentation about the overview of standardization process and LITD 30. Presentation is given in **Annex-2.**

0.2 Dr. Pushpak Bhattacharyya, Chairperson LITD 30 welcomed all the participants. He informed that one of the main agenda items for today's meeting is the briefing for the JTC 1/SC 42 October 2024 plenary and working group meetings. He also requested all members to continue diligently reviewing all documents to provide their regular inputs.

ITEM 1 FORMAL CONFIRMATION OF THE MINUTES OF LAST MEETINGS

1.1. Member Secretary informed that the resolutions of the thirty sixth meeting of the Artificial Intelligence sectional committee held on 20 May 2024 were circulated on 20 May 2024, the minutes of the meeting were circulated on 11 July 2024 and no comments have been received. The committee formally confirmed the resolutions and minutes.

ITEM 2 SCOPE AND COMPOSITION OF SECTIONAL COMMITTEE LITD 30

2.1 The committee considered the information as given at item 2.1 and 2.2 of the agenda. The Committee decided that organizations who have not participated in 36th or 37th meeting would be requested to confirm their interest to contribute and in case of no response, such organizations would be recommended for withdrawal. Member Secretary informed that based on the recent directions of BIS management working group and panel of sectional committee need to be restructured. The committee authorized member secretary to restructure the working groups and panel of LITD 30.

2.2 The committee considered the information as given at item 2.3 of the agenda. Member Secretary informed that today morning he has received co-option request of Prof. Anupam Guha (AD Center for Policy Studies at IIT Bombay). Member Secretary also informed that request has been shared by Dr. Sundeep Oberoi (Chair – LITD14 and ISO/IEC JTC 1/SC 7). The committee considered the co-option requests and related CVs. Decision of the committee is as follows:

Name	Organization	
Mr. Rajdeep Biswas	Neudesic- An IBM company	The committee decided to include all co-option requests as invitee. It was deiced that based on their contributions, the decision for co-option will be taken in sub-subsequent meetings. The committee also suggested that organizations shall nominate at least one technical representative to LITD 30 and accordingly the organizations were requested to reconsider their representatives.
Prof. Anupam Guha	AD Center for Policy Studies, IIT Bombay	
Dr. Vinosh Babu James	Qualcomm India Private Limited, Bengaluru	
Shri Dedipyaman Shukla	All India Gaming Federation (AIGF), Maharashtra	

2.3 The committee considered the information as given at item 2.4 of the agenda. Member secretary informed that he had requested all invitees to share brief of contributions made by them since their inclusion as Invitee. The committee deliberated and decided to include Chandigarh College of Engineering and Technology, AI Tech Ethics and Cloud Security Alliance (NCR) as member in the relevant groups of LITD 30/WG/Panel. It was also decided that following shall remain as invitee till next two committee meetings and accordingly decision would be taken in sub-sequent meetings:

      a) Mr. Manoj Kumar (Google India Private Limited, Bengaluru)
      b) Mr. Anant Bhaskar Garg (In Personal Capacity)
      c) Ms. Smita Agrawal (Nirma University)
      d) Mr. Rishabh Dangwal (KPMG India Private Limited, Gurugram)

ITEM 3 NEW WORK ITEM PROPOSAL

3.1 The committee noted the information as given at item 3.1 of the agenda.

ITEM 4 INTERNATIONAL STANDARDIZATION ACTIVITIES

4.1 The committee noted the information as given at item 4.1 of the agenda.

4.1.1 INDIA'S PROPOSALS TO JTC 1/SC 42

4.1.1.1 Proposals under discussion

A. PWI 42118-Reliability of AI systems

The committee considered the information as given at item 4.1.1.1 A) of the agenda. Dr. C. Anantaram provided an update about the proposal as given in Annex-3 of the agenda. Ms. Sharmistha Dasgupta suggested to use phrase 'Reliability assessment framework'. Dr. C. Anantaram informed that intention is only to provide methods and mechanisms to evaluate the reliability of an AI system whereas Reliability assessment framework will have to have many additional aspects as well. The committee briefly considered the research papers related to this proposal.

Dr. C. Anantaram informed that the next meeting of JTC 1/SC 42 WG 3 is on 16th September.

Member Secretary requested members to provide their suggestions through email to Dr. C. Anantaram with a copy to member secretary.

B. Study item- Artificial Intelligence – Guidance for Generative AI Applications

The committee considered the information as given at item 4.1.1.1 B) of the agenda. Mr. Syed Ahmed provided update about the proposal as given in Annex-4 of the agenda. He informed that aim is to measure output generated by Generative AI application. He also conveyed that guidance is also intended to be related to key considerations that should be considered based on the context of Generative AI application.

Dr C Anantaram enquired whether we are aiming for generated content or for retrieval content as well. He suggested to use phrase 'output of generative AI application' if we intend to cover both aspects. Mr. Syed clarified that most of data is generated one however, we can use the phrase 'output of generative AI application'.

Dr C Anantaram also informed about the NWIP proposal related to watermarking of output Generative AI being discussed in SC 42/WG 3. Member secretary and Mr. Syed informed that this aspect has been considered and there is no overlap among these proposals. Mr. Avik Sarkar expressed that output data may be categorized as factual vs generated. Mr Syed Ahmed informed that this aspect has been considered.

Member secretary also suggested that committee should also look in to the aspect whether we want to propose only guidance or guidance as well as requirements. Prof. Anil rose, Dr Chitra Viswanathan, Mr. Raghvendra Bhat and Ms. Sharmistha Dasgupta also shared some inputs. Member secretary informed that this proposal would be deliberated in detail in tomorrow's meeting (4th Sep) of LITD 30/WG 4 and requested all to share their inputs for discussion in LITD 30/WG 4 meeting.

C. Proposal 'De-identification of training data for ML'

The committee considered the information as given at item 4.1.1.1 C). Member Secretary informed that Mr. Srinivas P is unable to join today's meeting and he has requested member secretary to provide update. Mr. Kshitij Bathla presented the proposal as given in Annex-6 of the agenda. He specifically sought inputs of members w.r.t following two points:
  a) Whether proposal should be for International Standard or Technical Specification.
  b) Whether proposal should focus only on De-identification techniques or Privacy Preservation techniques which encompasses De-identification techniques.

He also informed that LITD 30/WG 2 meeting is being planned to discuss this proposal as the final proposal needs to be submitted by 11th September to SC 42/ WG 2. This proposal is intended to be again discussed in SC 42/WG 2 meeting on 18th September.

4.1.1.2 Status of India's approved proposals to JTC 1/SC 42

a) ISO/IEC 24668:2022 Artificial intelligence — Process management framework for big data analytics & ISO/IEC 5339:2024 Artificial Intelligence — Guidelines for AI applications

The committee noted the information as given at item 4.1.1.2 a) of the agenda. Member Secretary informed the committee about the 'Guidelines for issue of letter of appreciation to committee members'.
He informed that he intends to nominate Mr. Gautam Banerjee and Dr. Shrikant Bhat so that "Letter of Appreciation" can be issued to both of them for their work for development of IS/ISO/IEC 24668 and IS/ISO/IEC 5339 respectively. The committee appreciated the work of Mr.

Gautam Banerjee, Dr. Shrikant Bhat and supported the issuance of letter of appreciation to Mr. Gautam Banerjee and Dr. Shrikant Bhat.

b) ISO/IEC TS 17847 Verification and Validation Analysis of AI Systems

The committee considered the information as given at item 4.1.1.2 C). Mr. Raghvendra Bhat informed that project is moving to CD stage in SC 42 October plenary meeting. Member secretary suggested that if all comments have been resolved then it should mover to CD stage at the earliest. Mr. Raghvendra Bhat conveyed that he would check with JWG 2 Convener. The committee appreciated the work of all members of LITD 30/WG 6 specifically of Mr. Raghvendra Bhat, Dr. C. Anantaram, Mr. G B PRAVEEN, Mr. Raja Balusamy, Mr. Sridharan Sankaran and Mr. Hrishi Karmarkar.

c) ISO/IEC TR 42106 Artificial Intelligence — Overview of differentiated benchmarking of AI system quality characteristics

The committee considered the information as given at item 4.1.1.2 d). Member Secretary informed that Dr. Nisheeth Srivastava is unable to join today's meeting. Dr. C. Anantaram informed that in last meeting of SC 42/WG 3 it has been decided to issue Committee Draft (CD) of ISO/IEC TR 42106.The committee appreciated the work of Dr. Nisheeth Srivastava.

4.2 DOCUMENTS of JTC 1/SC 42

4.2.1 The committee considered the information as given at item 4.2.1 of agenda and decided as follows:

SL. No	Document No. & Title	Closing Date for ISO voting/ SC 42 WG	Remarks/Decision
1	ISO/IEC DTS 12791.2 Information technology — Artificial intelligence — Treatment of unwanted bias in classification and regression machine learning tasks	11 September 2024/WG 3	Ms. Sharmistha Dasgupta's presented her inputs related to labeling bias and deployment bias which were agreed by the committee. It was decided to include examples of cognithve bias as NOTE 2 to entry under 3.3.6 'human cognitive bias'. Ms. Sharmistha Dasgupta was requested to provide specific comment and proposed change. Members were requested to provide their inputs by 4th September 2024. It was decided that these inputs would be circulated to all for their further view by

			8th September so that Inputs could be finalized by 9th September 2024. It was decided that final inputs would be finalized in consultation with LITD 30 Chairperson.
2	Support to launch a NP Ballot - Addressing risks AI systems SC 42 support to launch a NP ballot - 'Guidance on addressing risks in generative AI systems'	19 September 2024/WG 3	Members were requested to provide their inputs by 5th September 2024. It was decided that these inputs would be circulated to all for their further view by 10th September so that Inputs could be finalized by 13th September 2024. It was also decided that final view w.r.t this CIB would be finalized in consultation with LITD 30 Chairperson.
3	Support to launch a NP Ballot - Terminology and concepts for domain engineering of AI systems	23 September 2024/WG 3	The committee decided to support this ballot
4	ISO/IEC NP 25336 Information technology — Artificial intelligence — High-level framework and guidance for the development of conformity assessment schemes for AI systems	24 September 2024/ WG 1	Member Secretary informed that this document was also shared with CASCO NMC of BIS and they had provided input to support this proposal. All were requested to provide their inputs by 10th September 2024. It was decided that these inputs would be circulated to all for their further view by 16th September so that Inputs could be finalized by 18th September 2024. The committee decided to support this ballot. The committee also decided that in case there are further inputs then final view w.r.t this NP 25336 would be finalized in consultation with LITD

			30 Chairperson and if required meeting of LITD 30/WG 1 may also be planned.

4.2.2 The committee noted the information as given at item 4.2.2 of the agenda. Member Secretary informed that Comment resolution meeting (CRM) meeting (SC 42/WG 3) for "ISO/IEC DIS 12792 Information technology — Artificial intelligence — Transparency taxonomy of AI systems" is scheduled on 9th September 2024 and any request for reconsideration shall be submitted by 26th September 2024. He also informed that CRM meeting (SC 42/WG 5) for ISO/IEC PWI TS 42111.2 and ISO/IEC NP TS 25258 has been scheduled on 24th September 2024.

Member Secretary informed the committee members that experts need to be specially nominated for the following projects and requested members to volunteer:
  a. ISO/IEC PWI TS 42112 Information technology — Artificial intelligence — Guidance on machine learning model training efficiency optimization- *under development in WG 5*
  b. ISO/IEC PWI 22989-2 Artificial intelligence — Concepts and terminology — Part 2: Healthcare- *under development in JWG 3*
  c. ISO/IEC NP TS 25223 Information technology — Artificial intelligence — Guidance and requirements for uncertainty quantification in AI systems- *under development in JWG 4*

4.3 The committee considered the information as given at item 4.3 of the agenda. The committee agreed to the suggestions as mentioned in Annex-2 of the agenda. The committee deliberated and members were given one last chance to review Annex-2 of the agenda and to share their inputs by 10 September 2024 so that members may be registered/removed as per Annex-2. The committee decided that based on the inputs received, the member secretary will finalize the list of experts in consultation with LITD 30 Chairperson.

4.4   JTC 1/SC 42 Published Standards

The committee considered the information as given at item 4.4 of agenda. All were requested to review the published standards. All were requested to provide their inputs, whether to adopt following standards as Indian Standard or not:

1. ISO/IEC TS 8200:2024 Information technology — Artificial intelligence — Controllability of automated artificial intelligence systems

2. ISO/IEC TR 17903:2024 Information technology — Artificial intelligence — Overview of machine learning computing devices

3. ISO/IEC TR 24030:2024 Information technology — Artificial intelligence (AI) — Use cases

4. ISO/IEC 5259-4:2024 Artificial intelligence — Data quality for analytics and machine learning (ML) — Part 4: Data quality process framework

5. ISO/IEC 5392:2024 Information technology — Artificial intelligence — Reference architecture of knowledge engineering

4.5 MEETINGS OF JTC 1/SC 42 "ARTIFICIAL INTELLIGENCE"

4.5.1 Fourteenth plenary and working group meetings of JTC 1/SC 42

4.5.1.1 The committee noted the information as given at item 4.5.1.1 of the agenda. Member Secretary informed that India will host the JTC 1/SC 42 plenary and working group meetings during 7th to 11th April 2025 at New Delhi, India. He also informed that necessary approval of Competent Authority of BIS has been obtained and approval of the Government of India

is under process.

4.5.1.2 The committee considered the information as given at item 4.5.1.2 of the agenda. The committee decided to support the Canada's National Body Contribution. It was decided that this may be conveyed during the SC 42 meeting however, we should not agree to creation on new entity/group for this process.

4.5.1.3 The committee noted the information as given at item 4.5.1.3 of the agenda. Member Secretary informed that the approval of the competent authority is under process. He requested the experts to register themselves in their respective WGs before 23rd September 2024:

i. Dr Pushpak Bhattacharya (IIT, Bombay)- *opening, closing plenary sessions- Remote Participation*

ii. Dr C. Anantaram (In Personal Capacity) *(HOD)-opening, closing plenary sessions, WG 1, WG 3, WG 4, WG 5 & JWG2 meetings- In person at France- Project editor of ISO/IEC PWI 42118 'Reliability of AI Systems', India's study item 'Artificial Intelligence – Guidance for Generative AI Applications, ISO/IEC WD TS 42106, Amendment to ISO/IEC 22989 and ISO/IEC 23053, ISO/IEC WD TS 17847, ISO/IEC WD TS 29119-11, ISO/IEC 24029-3.*

iii. Dr. Nisheeth Srivastava (IIT, Kanpur)-*Opening, closing plenary sessions and WG 3 meetings- In person at France- Project editor of ISO/IEC WD TR 42106.*

iv. Mr Srinivas Poosarla (Infosys)- *Opening, closing plenary, WG 2 and WG 3 meetings, In person at France)-Project Editor of ISO/IEC PWI 47559 'De-identification of training data for ML', ISO/IEC WD TS 22443, ISO/IEC WD 42106, India's study item ''Artificial Intelligence – Guidance for Generative AI Applications'.*

v. Mr. Syed Ahmed (Infosys) - *Opening, closing plenary sessions and WG 4 meetings- In person at France) - India's study item 'Artificial Intelligence – Guidance for Generative AI Applications.*

vi. Mr. Sridharan sankaran (TCS)- *Opening closing plenary, WG3, JWG 3 and JWG2 meetings - In person at France)- ISO/IEC WD TS 17847, ISO/IEC TS 22443*

vii. Mr Raghavendra S Bhat (Intel)- *JWG 2, WG 3,WG 4 and WG 5 meetings- Remote Participation)- Project Editor of ISO/IEC WD TS 17847, ISO/IEC PWI 42118, India's study item ''Artificial Intelligence – Guidance for Generative AI Applications'.*

viii. Dr. Shrikant Bhat (ABB, India) - *Opening, closing plenary sessions, WG 4 meetings - Remote Participation) - Project Editor of India's study item 'Artificial Intelligence – Guidance for Generative AI Applications.*

ix. Mr. Raja Balusamy (Samsung)- *Opening plenary, JWG 2, WG 3, WG 4 and WG 5 meetings- Remote Participation)- ISO/IEC WD TS 17847*

x. Mr. Ajay Panse (TCS)- *Opening, closing plenary sessions, WG 4 - Remote Participation)- ISO/IEC CD TR 20226*

xi. Mr. Hrishi karmarkar (TCS)- *JWG 2 - Remote Participation- - ISO/IEC WD TS 17847*

xii. *Mr. Sitarama Brahmam Gunturi (plenary, WG 3 and WG 5 meetings - Remote Participation)- ISO/IEC WD TS 22443*

xiii. Dr. Mohammed Javed (IIIT, Allahabad) - *JWG 5 - Remote Participation- ISO/IEC WD 23282, ISO/IEC WD TR 23281.*

xiv. Mr Kshitij Bathla (BIS)- *Opening, closing plenary sessions, WG 1, WG 3, WG 4, JWG 2 and JWG 3 meetings ; In person at France- ISO/IEC WD TS 17847, ISO/IEC WD TR 42106, PWI Human-machine teaming, ISO/IEC 24970, ISO/IEC PWI 47559, ISO/IEC PWI 42118*

ITEM 5 DOCUMENTS IN WIDE CIRCULATION

A. The committee considered the information as given at item 5 A) and 5 B) of the agenda. The committee agreed to the recommended resolution of comments [received for LITD/30/24566 (Identical to: ISO/IEC 42001:2023)] as given in Annex-14 of the agenda. The committee also agreed to the member secretary's observations as given in Annex-15 of the agenda. The committee requested LITD 30/WG 4 to recommend resolution of comments [LITD/30/24866 (Identical to: ISO/IEC 5338:2023)] at the earliest.

ITEM 6 PROGRAM OF WORK

6.1 The committee noted the information as given at item 6.1 of the agenda.

6.2 LIST OF STANDARDS TO BE REVIEWED DURING APRIL 2024- MARCH 2025

6.2.1. The committee reviewed the list of standards to be reviewed during April 2024-March 2025 and agreed to the recommendations as mentioned at item 6.2.1.

ITEM 7 PANEL 3 "LEVELS OF SPECIFICATIONS FOR AI SYSTEMS"

7.1 The committee noted the information as given at item 7.1 of the agenda.

ITEM 8 R&D PROPOSALS

8.1 The committee noted the information as given at item 8.1 and 8.2 of the agenda. The committee agreed to the request for extension of timeline of R&D project "Study of Impacts of Artificial Intelligence on Human Psychology".

Member Secretary provided the following views on the project, which were agreed by the committee:

● The Report provides reference to different themes related to Artificial Intelligence. However, the major focus shall be to study impact on Human Psychology which is not covered at this stage.

● There is Section 'Principles /Themes in the Use of AI'. For every sub-section of this section. there is general line like 'The impact of AI on human psychology, particularly concerning privacy, is multifaceted', 'The impact of AI on human psychology in terms of accountability is multifaceted'' 'The impact of AI on human psychology in terms of professional responsibility is multi-faceted' etc. In the preset draft report there is no section which can establish that there is impact on human psychology. There is no section to describe what that impact is.

● Section 5 'Legal Framework for AI Advances in Indian Context' is also general and not

specifically related to ToR of R&D.

- General content in the report should be very brief.

Member Secretary requested everyone to provide their view on the draft report "Study of Impacts of Artificial Intelligence on Human Psychology" as given in annex-17 of agenda. Dr Asif Eqbal (IIT, Patna) and Dr Chitra Viswanathan (CAIR/DRDO) were specifically requested to share d their views w.r.t draft report.

ITEM 9 REGARDING INTERNSHIP

9.1 The committee noted the information as given at item 9.1 of the agenda. Reports of Interns are given in **Annex-3, 4 and 5.**

ITEM 10 INFORMATION RELATED TO IMPLEMENTATION OF STANDARDS

10.1 The committee noted the information as given at item 10.1 of the agenda.

ITEM 11 INFORMATION ON E-SALE OF STANDARDS BY BIS

11.1 The committee noted the information as given at item 11.1 of the agenda.

ITEM 12 NATIONAL INSTITUTE FOR TRAINING IN STANDARDIZATION (NITS)

12.1 The committee noted the information as given at item 12.1 of the agenda.

ITEM 13 MANAKONLINE

13.1 The committee noted the information as given at item 13.1 of the agenda.

13.2 The committee noted the information as given at item 13.2 of the agenda.

ITEM 14 DATE AND PLACE FOR THE NEXT MEETING

14.1 The committee considered the information as given at item 14.1 of the agenda. Member Secretary requested committee members to suggest a date for the next meeting during the week of 14th -18th Oct 2024.

ITEM 15 ANY OTHER BUSINESS

15.1 Member Secretary informed the committee about the mandatory training program arranged by NITS to help members to understand about the smart standards, OSD (Online Standard development) tool and other such initiatives. He also informed that BIS has started an International Relations (IR) portal for committee related work like balloting, providing comments on ballots delegation processing etc. The IR portal can be accessed through login (https://www.services.bis.gov.in/php/BIS_2.0/login) to BIS portal and all future Inputs related to ballots should be provided through the IR portal.

15.2 There being no other business to be discussed, meeting ended with vote of thanks to the chairperson and all the participants.