

BUREAU OF INDIAN STANDARDS

AGENDA

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

| | |
|---|--|
| DATE : 16-10-2024 DAY : Wednesday TIME : 1100h – 1330h | VENUE: Webex Meeting link: https://bismanak.webex.com/bismanak/j.php?MTID=mf11767b7c5957510a564e6df25dc20ef Meeting number: 2519 730 6809 Password: LITD30@38 |
| Chairperson: Dr. Pushpak Bhattacharyya | Member Secretary: Shri Kshitij Bathla |

ITEM 0 WELCOME

- 0.1 Welcome
- 0.2 Remarks by the Chairperson

ITEM 1 FORMAL CONFIRMATION OF THE MINUTES OF LAST MEETINGS

- 1.1. The resolutions of the thirty seventh meeting of the ‘Artificial Intelligence’, sectional committee held on 03 September 2024 were circulated on 05 September 2024. Minutes of the meeting were circulated on 27 September 2024. No comments have been received.

The committee may formally confirm the minutes and resolutions.

ITEM 2 SCOPE AND COMPOSITION OF SECTIONAL COMMITTEE LITD 30 (5 Minutes)

- 2.1 Scope of the committee:
“Standardization in the area of Artificial Intelligence and Big Data” Liaison: ISO/IEC JTC 1/SC 42 “Artificial Intelligence”

The committee may note

- 2.2 Composition of “Artificial Intelligence, Sectional Committee LITD 30” and its panel/working groups is available on BIS website (www.bis.gov.in and www.manakonline.in). Latest Composition along with participation status is given in **Annex-1**. As decided in the previous meeting, organizations who have not participated in the 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.

The committee may note.

2.3 Co-option requests have been received from the following:

| S.No | Name | Organization |
|------|-------------------------|---|
| 1. | Mr Dinesh Chand Sharma | European Project SESEI |
| 2. | Mr Gaurav Joshi | Requested for co-option under Individual Capacity. He was Sales Director at Tatva Cloud, Mumbai |
| 3. | Mr Manish Okade | Requested for co-option under Individual Capacity however, he is an Associate Professor of National Institute of Technology (NIT), Rourkela |
| 4. | Mr Rahul Ingle | Veermata Jijabai Technological Institute, Mumbai |
| 5. | Mr Arvind Gupta | Apple India Private Limited, Bengaluru |
| 6. | Mr Anup Nandy | Requested for co-option under Individual Capacity however, he is an Associate Professor of National Institute of Technology (NIT), Rourkela |
| 7. | Mr Jaydeep Sen | IBM |
| 10. | Mr Sridhar Chimalakonda | Indian Institute of Technology Tirupati, Andhra Pradesh |

2.4 Based on the decisions taken in last meeting, following are invitee to the committee:

1. Mr. Manoj Kumar (Google India Private Limited, Bengaluru)
2. Mr. Anant Bhaskar Garg (In Personal Capacity)
3. Ms. Smita Agrawal (Nirma University)
4. Mr. Rishabh Dangwal (KPMG India Private Limited, Gurugram)
5. Mr. Dedipyaman Shukla (All India Gaming Federation, Thane)
6. Prof. Anupam Guha (Indian Institute of Technology Bombay, Mumbai)
7. Dr. Vinosh Babu James (Qualcomm India Private Limited, Bengaluru)

The committee may note.

ITEM 3 NEW WORK ITEM PROPOSAL

3.1 After the last meeting, no new work item proposal (NWIP) has been received.

The committee may note.

ITEM 4 INTERNATIONAL STANDARDIZATION ACTIVITIES

4.1 LITD 30 acts as national mirror committee (NMC) of ISO/IEC JTC 1/SC 42“Artificial Intelligence” and India is a participating (P) member of SC 42. Being P-member we have an obligation to vote and send responses on all the documents emanating from this subcommittee.

The committee may note.

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’ (5 Minutes)

In the last JTC 1/SC 42 plenary meeting (7th -11th October 2024), resolution has been adopted to launch an NP ballot for technical specification “Artificial Intelligence – Reliability assessment of AI systems”

Dr. C. Anantaram is requested to provide an update.

The committee may consider.

B. Study item- Artificial Intelligence – Guidance for Generative AI Applications (5 Minutes)

Proposal was discussed during the last JTC 1/SC 42 plenary meeting (7th -11th October 2024) and resolution has been adopted to launch an NP ballot for standard “Information technology – Artificial intelligence – Guidance on generative AI output data quality”.

Dr Shrikant Bhat and Mr. Syed Ahmed are requested to provide an update.

The committee may consider.

C. PWI-47559 ‘De-identification of training data for ML’ (5 Minutes)

In the last JTC 1/SC 42 plenary meeting (7th -11th October 2024), resolution has been adopted to launch an NP ballot for technical specification “Artificial intelligence —Implementation Guidance on de-identification of data used in Machine Learning (ML)”.

Mr. Srinivas P is requested to provide an update.

The committee may consider.

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

Mr. Gautam Banerjee was project editor.

The committee may note.

b) ISO/IEC 5339:2024 Artificial Intelligence — Guidelines for AI applications

Dr. Shrikant Bhat was project editor.

The committee may note.

c) ISO/IEC TS 17847 Verification and Validation Analysis of AI Systems (5 Minutes)

“ISO/IEC TS 17847 – “Information technology — Artificial intelligence — Verification and validation analysis of AI systems” has moved to CD Stage. The last date of submission of comments is 22 November 2024. LITD 30 and its subgroups have been requested to provide inputs by 5 November 2024.

Mr. Raghvendra Bhat is requested to provide an update.

The committee may consider.

d) ISO/IEC TR 42106 Artificial Intelligence — Overview of differentiated benchmarking of AI system quality characteristics (5 Minutes)

“ISO/IEC TR 42106 Artificial Intelligence — Overview of differentiated benchmarking of AI system quality characteristics” has moved to CD Stage. CD Ballot is yet to be issued.

Dr. Nisheeth Srivastava is requested to provide an update.

The committee may consider.

4.2 DOCUMENTS of JTC 1/SC 42 (5 Minutes)

4.2.1 Following documents are due for India’s inputs:

| SL. No | Document No. & Title | Closing Date for ISO voting/ SC 42 WG | Last date for inputs by LITD 30/LITD 30 Panel Member/Invitee | Inputs Received |
|---------------|---|--|---|------------------------|
| 1 | ISO/IEC CD TS 17847 Information technology — Artificial intelligence — Verification and validation analysis of AI systems | 22 November 2024/JWG 2 | 05 November 2024 | - |

All are requested to login (https://www.services.bis.gov.in/php/BIS_2.0/login) to BIS portal and to use "International Relations (IR) Portal". All are requested to provide their feedback only through "International Relations (IR) Portal".

The committee may consider and finalize India’s inputs on these documents.

4.3 UNDER DEVELOPMENT PROJECTS OF SC 42 AND EXPERTS REGISTERED IN SC 42/WG (45 Minutes)

4.3.1 Based on the decisions taken in the last meeting, List of registered experts and proposed actions are as given in **Annex-2**.

All registered experts are requested to provide updates related to the project and working group to which they are contributing.

List of under development projects of JTC 1/SC 42 is given in **Annex-3**. LITD 30 is requested to consider and nominate at least one-two members as designated experts for contributions and participation in the respective project. Designated experts are expected to participate in all the meetings related to the respective project.

SC 42 projects are also to be prioritized as High, Medium category.

The committee may consider and review the experts registered in the SC 42/WGs and assign designated experts for the projects of JTC 1/SC 42.

4.3.2 Regular Meetings of LITD 30/WGs are held for the following agenda items:

- a. Examine and recommend India's inputs for JTC 1/SC 42 documents relevant to the

- corresponding SC 42/WG
- b. Exchange of information among Indian experts registered in the corresponding SC 42/WG and members of LITD 30/WG
 - c. Any other item based on suggestion of LITD 30/WG convener/member

The Committee may note.

4.4 JTC 1/SC 42 Published Standards (5 Minutes)

The following standards have been published which are yet to be considered by LITD 30:

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
6. ISO/IEC 5259-1:2024 Artificial intelligence — Data quality for analytics and machine learning (ML) — Part 1: Overview, terminology, and examples
7. ISO/IEC 5259-3:2024 Artificial intelligence — Data quality for analytics and machine learning (ML) — Part 3: Data quality management requirements and guidelines

The Committee may consider and decide for adoption as Indian standard.

4.5 MEETINGS OF JTC 1/SC 42 “ARTIFICIAL INTELLIGENCE” (30 Minutes)

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

4.5.1.2 Fourteenth plenary and working group meeting was held at Versailles, France during 7th – 11th October 2024:

- The Opening SC 42 Plenary – 7th October 2024
- JTC 1/SC 42 WGs – 8th to 10th October 2024
- The Closing Plenary - 11th October 2024

4.5.1.3 Following delegates were expected to participate in the meeting:

- i. Dr. C. Anantaram (In personal capacity)- HoD, *Opening, closing plenary and WG meetings. In person at Seoul, South Korea*
- ii. Dr. Pushpak Bhattacharyya (IIT, Bombay) – *Opening and closing plenary (Remote Participation)*
- iii. Mr. Sridharan Sankaran (TCS)- *Opening, closing plenary and WG meetings. In person*
- iv. Dr. Gargi Keeni (In Personal Capacity)– *Opening, closing plenary and WG meetings. In person*
- v. Mr. Kshitij Bathla (BIS)- *Opening, closing plenary and WG meetings, In person*
- vi. Mr Srinivas Poosarla (Infosys)- *Opening, closing plenary and WG meetings , In person*
- vii. Mr Syed Ahmed (Infosys)-*Opening, closing plenary and WG meetings , In person*
- viii. Dr. Shrikant Bhat (ABB India)- *Opening, closing plenary and WG meetings (Remote participation)*

- ix. Dr. Nisheeth Srivastava (IIT Kanpur)- *Opening and closing plenary and WG meetings (Project Editor of ISO/IEC TR 42106), (Remote participation)*
- x. Mr. Raghavendra S Bhat (Intel India)- *WG meetings (Project Editor of ISO/IEC 17847) (Remote participation)*
- xi. Dr. Sitarama brahmam Gunturi (TCS)- *Opening and closing plenary (Remote participation)*
- xii. Dr. Ramesh Balaji (TCS)- *Opening and closing plenary (Remote participation)*
- xiii. Mr. Ajay Sudhir Panse (TCS)- *Opening and closing plenary (Remote participation)*
- xiv. Dr. Mohammed Javed (IIT, Allahabad)-*Opening, closing plenary and WG meetings. (Remote participation)*

Other registered experts were also requested to participate in the meetings.

Delegates are requested to debrief the committee

4.5.1.4 SC 42 has adopted resolutions to launch NP ballots for the following:

1. Technical Specification - "NP - Artificial Intelligence - A Template for Documentation of ethical implications of an AI application"
2. International Standard– "NP - Information technology — Artificial intelligence — Framework for human-machine teaming"
3. International Standard—Proposed Form4 and outline "NP - Artificial intelligence — Machine learning (ML) model description framework"
4. Technical Specification- "NP - Artificial Intelligence – Reliability assessment of AI systems"
5. International Standard- "NP - Information technology – Artificial intelligence – Guidance on generative AI output data quality"
6. Technical Specification - "NP - Artificial Intelligence — Implementation guidance on de-identification of data used in Machine Learning (ML)"

Above ballots will be issued by SC 42 for formal voting:

Following technical report has been also approved for development:

1. Technical Report- Information technology — Artificial intelligence — Overview of data profiles for analytics and ML

Resolution of SC 42 Plenary (7th – 11th October 2024) meeting is enclosed in **Annex-4**.

The Committee may consider.

4.5.1.5 Fifteenth plenary and working group meetings of JTC 1/SC 42

Fifteenth plenary and working group meetings are scheduled to be held in India. Based on the request received from JTC 1/SC 42 Chair and Committee manager, dates of meeting have been changed to '31st March-4th April 2025. Approvals of Government of India are under process.

During the meetings, a workshop is also planned to be held on the second day of the week i.e. 1st April 2025.

The Committee may consider.

ITEM 5 DOCUMENTS IN WIDE CIRCULATION

- 5.1 No documents are at wide circulation stage.
- 5.2 As decided in the last meeting, comments received for LITD/30/24866 (Identical To: ISO/IEC 5338:2023) are to be considered by LITD 30/WG 4. Comments received along with observations of member secretary have been already shared along with the agenda of the last meeting.

The Committee may note.

ITEM 6 PROGRAM OF WORK

- 6.1 Program of work of LITD 30 is available at BIS website (<https://www.bis.gov.in/>
https://www.services.bis.gov.in/php/BIS_2.0/eBIS/).

The committee may note.

6.2 LIST OF STANDARDS TO BE REVIEWED DURING APRIL 2024-MARCH 2025 (5 Minutes)

6.2.1. List of standards to be reviewed during April 2024-March 2025 is as follows:

| SI. No. | IS No. | TITLE | Published Year | Eqv. | Reaffirm M-Y | Status of Corresponding International Standard | Recommendation |
|---------|------------------------------|--|----------------|----------------------------------|--------------------------|---|---|
| 1 | IS/ISO/IEC 20547-3 : 2020 | Information technology Big data reference architecture Part 3: Reference architecture | June 2021 | Identical under single numbering | Reaffirmed in June 2024. | NO CHANGE ISO/IEC 20547-3: 2020 Information technology — Big data reference architecture Part 3: Reference architecture | As the base ISO/IEC Standard has not been revised, The Indian Standard IS/ISO/IEC 20547-3 : 2020 may be reaffirmed. Review sheet was circulated to members and accordingly the standard has been reaffirmed. |
| 2 | IS/ISO/IEC/TR 20547-1 : 2020 | Information technology Big data reference architecture Part 1: Framework | Jan 2022 | Identical under single numbering | Jan 2025 | NO CHANGE ISO/IEC TR 20547-1: 2020 Information technology — Big data | As the base ISO/IEC Standard has not been revised, The Indian Standard |

| | | | | | | | |
|---|------------------------------|---|----------|----------------------------------|----------|--|--|
| | | and application process | | | | reference architecture Part 1: Framework and application process | IS/ISO/IEC/TR 20547-1 : 2020 may be reaffirmed. Review sheet was circulated to members. The last date of inputs was 07 Aug 2024. |
| 3 | IS/ISO/IEC/TR 24028 : 2020 | Information technology Artificial intelligence Overview of trustworthiness in artificial intelligence | Jan 2022 | Identical under single numbering | Jan 2025 | NO CHANGE ISO/IEC TR 24028: 2020 Information technology — Artificial intelligence — Overview of trustworthiness in artificial intelligence | As the base ISO/IEC Standard has not been revised, The Indian Standard IS/ISO/IEC/TR 24028 : 2020 may be reaffirmed. Review sheet was circulated to members. The last date of inputs was 07 Aug 2024. |
| 4 | IS/ISO/IEC/TR 24030 : 2021 | Information technology Artificial intelligence AI Use cases | Jan 2022 | Identical under single numbering | Jan 2025 | Revised by ISO/IEC TR 24030:2024 Information technology — Artificial intelligence (AI) — Use cases | As the base ISO/IEC Standard has been revised, The Indian Standard IS/ISO/IEC/TR 24030 : 2021 may be revised. Review sheet was circulated to members. The last date of inputs was 07 Aug 2024. |
| 5 | IS/ISO/IEC/TR 24029-1 : 2021 | Artificial Intelligence AI | Feb 2022 | Identical under single | Feb 2025 | NO CHANGE | As the base ISO/IEC Standard |

| | | | | | | | |
|--|--|--|--|-----------|--|--|---|
| | | Assessment of the robustness of neural networks Part 1: Overview | | numbering | | ISO/IEC TR 24029-1: 2021 Artificial Intelligence (AI) — Assessment of the robustness of neural networks Part 1: Overview | has not been revised, The Indian Standard IS/ISO/IEC/TR 24029-1 : 2021 may be reaffirmed. Review sheet was circulated to members. The last date of inputs was 07 Aug 2024. |
|--|--|--|--|-----------|--|--|---|

The committee may consider.

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

7.1 In 24th meeting of LITD 30 following was decided:

“The committee deliberated and decided to start development of Indian standard as well in parallel to the discussion happening at JTC 1/SC 42. LITD 30/Panel 3 under the convenership of Prof. Nisheeth Srivastava was requested to start development of the Indian standard.”

The committee also decided that LITD 30/Panel 3 may co-opt and withdraw members as per the requirement.”

The committee may note.

ITEM 8 R&D PROPOSALS (5 Minutes)

8.1 BIS has issued Guidelines for Research & Development Projects for Formulation and Review of Standards. The Objectives of this Scheme are to:

- Support and commission R&D projects to generate knowledge, empirical data and insights that would help in formulating new standards and updating & upgrading the existing Indian standards;
- Expand the network of domain area experts to carryout R&D projects in the areas related to standardization and conformity assessment; and
- Enrich the research ecosystem in the educational institutions imparting technical and professional education.

R & D guidelines and list of Research and Development Projects on the offer are available on https://www.services.bis.gov.in/php/BIS_2.0/eBIS/research-projects-commissioned

The committee may note.

8.2 The R&D Project "Study of Impacts of Artificial Intelligence on Human Psychology" has been awarded to MNIT, Jaipur. Project duration is of 3 Months.

As per the guidelines, timeline has started from 25th June 2024 and progress of the project needs to be monitored every 30-45 days.

As per ToR Mid-term review and draft report is to be submitted in 2nd month however MNIT, Jaipur has requested for an extension of one month. This request was agreed by the committee in its last meeting.

As per the R&D guidelines, MNIT, Jaipur was requested to provide the following:

- Operation of funds and progress report (as per Annex-E of the guidelines)
- Utilization Certificate (UC) as per Form GFR12-A of GFR 2017 along with the statement of expenditure (SoE) issued by the Competent Authority

MNIT Jaipur is yet to submit however they have submitted following and has requested to extension of project by one more month:

“We have finalized the questionnaires (for user and the developers). We have submitted one research paper in the International conference to be held in IIT Bombay (<https://www.som.iitb.ac.in/bams-orsi-2024/>). We are in the process of getting the data collection. However, on asking the initial consent, responses have been awaited from their side. Further, being the nature of delayed email response, it is also planned to go personally contact the developers. In view of the significance of the data collection and the delayed responses, it is requested to extend the duration of a project by a month”.

The committee may consider

ITEM 9 REGARDING INTERNSHIP

9.1 BIS has engaged students (Undergraduate and above) as "Interns", who would be given exposure to various activities of BIS. The Interns would be expected to supplement the knowledge capital of BIS through collection, collation and analysis of data in respect of standardization, conformity assessment, testing, consumer engagement and stakeholder expectations. The Scheme is envisaged to be mutually beneficial to students and BIS. The following topics were researched by the interns during the recent internship:

- Development, usage and maintenance of Chatbots
- De-identification of training data for ML
- Study of artificial intelligence regulations to identify standardization opportunities

Reports of these have already been circulated along with minutes of 37th meeting of LITD 30. The committee may consider the reports for submission of related NWIPs.

The committee may note.

ITEM 10 INFORMATION RELATED TO IMPLEMENTATION OF STANDARDS

10.1 Members contributing to the development of standards are expected to make use of/implement these standards in their organizations. Members are requested to inform about usage of standards by their respective organizations.

The committee may consider.

ITEM 11 INFORMATION ON E-SALE OF STANDARDS BY BIS

11.1 Bureau of Indian Standards, the National Standards Body of India has published more than 20000 Indian Standards. Indigenous standards are available for free. Indian standards which are adoption of ISO and IEC standards are available for sale. These can be accessed at <http://www.standardsbis.in>.

The committee may note.

ITEM 12 NATIONAL INSTITUTE FOR TRAINING IN STANDARDIZATION (NITS)

12.1 National Institute of Training for Standardization (NITS) has been set up by BIS with world class facilities to impart training on various aspects leading to standardization, quality and other management systems, consumer protection, public service delivery, etc. The organizations willing to depute their personnel for training may kindly go through the appropriate programme (<http://www.bis.gov.in>) and get them registered to undergoing training.

The committee may note.

ITEM 13 MANAKONLINE

13.1 BIS has migrated its activities into an online collaboration tool. Three portals – the Standardization, Conformity Assessment and Training Portals of e-BIS can be accessed through www.manakonline.in. BIS committee related work like, meeting notice, issuing agenda, minutes, P-draft, WC draft etc. is being done through the Standardization portal.

13.2 BIS has started an International Relations (IR) portal for committee related work like balloting, providing comments on ballots. The IR portal can be accessed through login (https://www.services.bis.gov.in/php/BIS_2.0/login) to BIS portal.

The committee may note.

ITEM 14 DATE AND PLACE FOR THE NEXT MEETING

14.1 As decided in the last meeting, meeting schedule of LITD 30 and its WGs for 2024-25 is as follows:

LITD 30 meetings -

39th meeting - in the week of 6th-10th [Jan 2025](#)

LITD 30/WG meetings schedule is given below:

| Day of the Month | LITD 30/WG | Day of the Week | LITD 30/WG | Day of the Week | LITD 30/WG | Day of the Month | LITD 30/WG |
|------------------------|---|-------------------------|--|------------------------|-------------------------------------|-------------------------|--|
| First Monday | WG 1 (starting from 6th May 2024)- bimonthly | Second Monday | WG 7 (Starting from 13th May 2024)- bimonthly | Third Monday | | Fourth Monday | |
| First Tuesday | | Second Tuesday | WG 8 (Starting from 14th May 2024)- bimonthly | Third Tuesday | | Fourth Tuesday | |
| First Wednesday | | Second Wednesday | | Third Wednesday | WG 5 (starting from 15th May | Fourth Wednesday | WG 4 (starting from 22nd May 2024)- bimonthly |

| | | | | | | | |
|---------------------------|--|----------------------------|---|---------------------------|-----------------------------|----------------------------|--|
| | | | | | 2024)- bimonthly | | |
| First Thursday | WG 2 (starting from 2nd May 2024)- bimonthl y | Second Thursday | WG 3 (starting from 9th May 2024)- monthly | Third Thursday | | Fourth Thursday | |
| First Friday | | Second Friday | | Third Friday | | Fourth Friday | WG 9 (starting from 24th May 2024)- bimonthly |

Major agenda items of **LITD 30/WG** meetings are

- a. Examine and recommend India's inputs for JTC 1/SC 42 documents relevant to the WG
- b. Exchange of information among Indian experts registered in the respective SC 42/WG
- c. Any other item based on suggestion of LITD 30/WG convener/member

Further meetings of LITD 30/WG 6 are held weekly and it is expected to continue the same schedule.

WG meetings need to be again scheduled as per above schedule.

The committee may consider.

ITEM 15 ANY OTHER BUSINESS