BIS Leads the Global Efforts for Developing International Standards on Artificial Intelligence

The 15th plenary and sub-group meetings of the ISO/IEC JTC 1/SC 42 'Artificial Intelligence' sub-committee hosted by BIS in New Delhi were attended by more than 350 global experts from 70 countries.

The inaugural session was addressed by Smt. Nidhi Khare, Secretary, DoCA; Shri Pramod Kumar Tiwari, D.G. BIS; Shri S. Krishnan, Secretary of MeitY; Mr. Wael William Diab, Chairperson of ISO/IEC JTC 1/SC 42; Shri Vimal Mahendru, Vice President of IEC; and Mr. Luis G. Aranda Claussen from the OECD (participated virtually).

Mr.Diab, Chairperson of the Committee informed that the **Committee has successfully published 35 ISO standards on AI and 47 other ISO standards on AI are under development.**

The week-long deliberations covered key aspects of the rapidly changing technology landscape of the Artificial Intelligence such as foundational AI standards, Data governance, Trustworthiness, computational approaches, and AI applications across industries including de-identification in machine learning and quality assurance in generative AI applications. India is leading a discussion on standards for the Resilience Assessment of AI systems. On the sidelines of the plenary summit, BIS also organised an International Workshop on 'Enabling Trust in Technology in the Age of LLMs and Generative AI'. Shri Abhishek Singh, CEO, IndiaAI Mission and Shri Bharat Khera, Additional Secretary, DoCA addressed the workshop and highlighted how Trust in AI can be built through Fairness, Transparency, and Accountability with diverse and inclusive data sets.

Smt. Nidhi Khare
Secretary, DoCA

"India is ready to take on a greater role in shaping global AI standards. India is committed to advancing AI particularly LLM & SLM in a responsible manner, ensuring these are developed with both global collaboration and national priorities in mind."

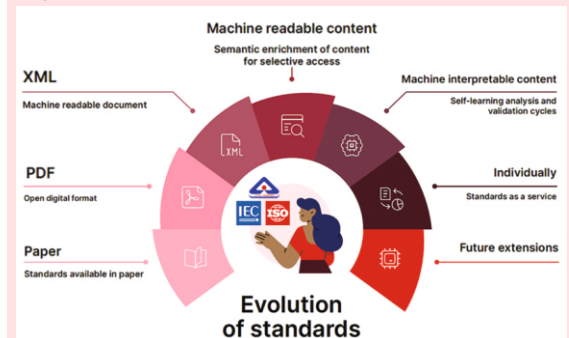**Shri S. Krishnan**
Secretary MeitY

"Government of India is working for Democratising and Decentralising the way Artificial Intelligence works and there is a need of setting standards for AI so that we stay ahead of the curve"

Pramod Kumar Tiwari
Director General, BIS

"BIS has formed sector-specific groups for targeted AI standard development and strengthened partnerships with ministries, academia, regulatory bodies, and consumer bodies for targeted AI standard development."

SMART Standards for the Future
Human Machine Interface in an IoT world

BIS is using a revolutionary approach for SMART (Structured, Machine-readable, Accessible, Reusable, and Technology-enabled) standards that leverages digital technologies to make standards more accessible, usable and effective. These standards will be an integral part of the machines or software systems used by organisations.

SMART standards capabilities-

Personalised Experiences: Access only the parts of a standard you need.

Automated Processes: Seamlessly integrate standards into manufacturing and other operations.

Innovative Solutions: Develop new applications and services based on standards data.

How BIS is driving the Transformation-

Machine readable standards by XMLization: BIS initiated converting all the existing standards into XML based on internationally recognized NISO STS Schema for easier computer processing.

Intelligent Standards: Developing "core ontology" and "standards information models" to bring intelligence to standards and to enable machines to truly understand and interpret standards.

Online Authoring Platform: Creating a cutting-edge digital platform for collaborative and efficient development of standards where the experts can draft the standards online (in real time) in a collaborative manner.

Stay informed with BIS's weekly bulletin, *Standards Watch*, for the latest insights into the world of standards.

TOP STORIES INSIDE

STANDARDS IN NEWS

NEW STANDARDS ISSUED

The Bureau of Indian Standards, the National Standards Body of India, is actively expanding and refining its extensive collection of standards. Between March 15 and April 20, a total of 335 standards were published, which includes 115 new standards and 220 revised standards. These standards aim to support industry needs, promote quality and safety, and encourage the adoption of best practices. Stakeholders are encouraged to stay informed and utilize these updated benchmarks in their respective fields. Some of the newly published standards introduced in April include:

Healthcare & Medical Equipment : Blood Donor Couch, Dialysis Chair and Respiratory Protective Devices for Self-Rescue.

Mechanical & Industrial Engineering : Pre-Painted Zinc-Aluminium-Magnesium Alloy Coated Steel Strip and Sheet, Welded Low Carbon Steel Containers for the Transport of LPG.

Water & Sanitation: Ultrafiltration (UF) Membrane Based Point-of-Use Drinking Water Treatment System and Unplasticized Polyvinyl Chloride (PVC-U) Threaded Column Pipes for Borewells/Tubewells.

Agriculture & Aquaculture: Good Aquaculture Practices for Seaweed Cultivation and Marine Finfish Hatchery.

Chemical & Environmental Safety: Sustainable Development of Rural Habitats, Implementation of Occupational Health and Safety Management System with Solid Waste Management.

Electronics & Electrical Engineering: Graphical Symbols for Diagrams in the Field of Electrotechnology, Electric Vehicle Conductive Charging Systems.

Education & IT Services: Online Coaching Services.

WITHDRAWAL OF STANDARDS

During this period, 39 amendments were published, and some of the standards related to dentistry and healthcare were cancelled and withdrawn including-

IS/ISO 14161: 2009	Sterilization of Health Care Products Biological Indicators — Guidance for the Selection, Use and Interpretation of Results	IS 7455:1974	Specification for Sterilizer, Pressure, Hot and Cold Water
IS 10985:1984	Specification for Needle, Acupuncture	IS 8019:1976	Specification for Dental Artificial Stone

For a comprehensive list of the New Standards, Amendments and Withdrawals please visit BIS portal www.bis.gov.in.

DRAFTS UNDER WIDE CIRCULATION

As of date, more than 60 draft Indian Standards have been uploaded to the BIS portal, inviting comments and suggestions from experts and the general public including NEW STANDARDS for Internet of Things IoT and digital twin Vocabulary, Rotating electrical machines (Part 27-1,27-2,27-3,27-5), Ophthalmic optics Contact lenses Determination of shelf-life, Optics and Optical Instruments Ophthalmic Optics Formers, Ophthalmic optics Contact lenses and contact lens care products Determination of physical compatibility and Bovine Endometrial Cytotaping Catheter Specification.

ALL INDIA FIRST LICENSES GRANTED

Standard	Product	Licensee	Date Granted
16581:2018	High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for Packing of Solid Ammonium Nitrate for Explosives	M/s Maruti Packaging	17 April 2025
18892:2024	Textiles - Continuous Multifilament Polypropylene Yarns	M/s Indospun LLP	17 April 2025
IS 713:1981	Zinc Base Alloy Ingots for Die Casting	Phoenix Industries Limited	15 April 2025
IS 17155:2019	Tricycle, single hand propelled (Junior Size) specification	Artificial Limbs Mfg Corp of India	15 April 2025

IS 17155:2019 issued to ALIMCO include frame, seat, wheels, and handlebars; requirements for the steering mechanism, braking system, wheel assembly, and drive chains, dimensions, materials, and other design features to ensure safe and efficient operation for junior users with disabilities affecting their lower extremities. It also specifies Essential tests like static load test, brake effectiveness, & manoeuvrability for a stable & secure ride during daily use on various surfaces at different speeds.
Power-driven tricycles are excluded from this standard.

STANDARD IN FOCUS-IS 19234 : 2025
ONLINE COACHING SERVICES — REQUIREMENTS

SCOPE –

1. This Indian Standard specifies requirements for coaching services provided through online modes but does not include sports, dance, theatre and other creative activities. The scope may include online coaching for competitive exam/entrance exams or subject specific online coaching part of academic learning.

2. Non-specific learning such as standalone knowledge videos by individuals on social media

OBJECTIVE-

- Develop a robust and adaptable structure that covers all key dimensions of online coaching services, ensuring consistency, quality, and scalability across different learning environments.

- Outline clear standards for curriculum design, teaching effectiveness, delivery modes, operational needs, administrative and backend support, instructor competency, and IT security to maintain a high-quality learning experience.

- Incorporate mechanisms for regular assessment, learner feedback and ongoing enhancement of services to foster sustained growth, engagement and service excellence.

CONFORMITY ASSESSMENT

QUALITY CONTROL ORDERS NOTIFIED

The Tin Ingot (Quality Control) Order, 2025, and the Refined Zinc (Quality Control) Order, 2025, notified by the Ministry of Mines, Government of India, mandate that Tin Ingots and Refined Zinc must bear the Standard Mark under a license from the Bureau of Indian Standards (BIS) in accordance with IS 26:2024 and IS 209:2024, respectively. These Quality Control Orders will take effect in October 2025.

QCOs Implemented in April 2025

Cookware and Utensils (Quality Control) Order,2023
Implemented from 1 April, 2025
Products covered-

1. Stainless Steel Cookware (IS 14756:2022)
2. Wrought Aluminium Utensils (IS 1660:2009)
3. Stainless Steel Sinks for domestic purposes (IS 13983:1994)
4. Round Top Sanitary Cans for Foods & Drinks – Tinplate (IS 9396 Part 1):1987
5. Aluminium cans for beverages

Date of implementation for Small Enterprises and for Minis Enterprises will be from 1 July 2025 and 1 October 2025 respectively.

Exemption for 200 units of cookware, utensils and cans for food & beverages intended for R&D by manufacturers of such good & articles

Other Quality Control Orders (QCOs) implemented in April 2025 include products like Lauric Acid (IS 10931: 1984), Acid Oil (IS 12029: 1986), Palmitic Acid (IS 12067: 1987), Rice Bran Fatty Acid (IS 12068: 1987), Coconut Fatty Acid (IS 12069: 1987), Hydrogenated Rice Bran Fatty Acid (IS 12361: 1988)

QCOs due for Implementation in May 2025

Electric Fence Energizers (Quality Control) Order, 2024 specifies particular safety requirements for household and similar electrical appliances under Section 76.
Implemented from 19 May, 2025
Products covered -

1. Electric Fence Energizers (IS 302-2-76:1999)

Post the date of implementation, it will be prohibited to manufacture, import, distribute, sell, or display electric fence energizers in the Indian market without a valid BIS license and the Standard Mark.

The Order is applicable to both Indian and foreign manufacturers, ensuring uniform quality across domestically produced and imported devices. However, products manufactured domestically for export purposes are exempted from the provisions of the Order.

Other QCOs due for implementation in May 2025 include products like Morpholine, H Acid, K acid. Vinyl Sulphone, Low Voltage Switch gear and Control gear related Standards like (IS/IEC 60947 : Part 4 : Sec 2 : 2020, IS/IEC 60947 : Part 4 : Sec 3 : 2020, IS/IEC 60947 : Part 5 : Sec 2 : 2019, IS/IEC 60947 : Part 5 : Sec 5 : 2016, IS/IEC 60947 : Part 5 : Sec 1 : 2016, IS/IEC 60947 :Part 2 : 2016, IS/IEC 60947 : Part 3 : 2020, IS/IEC 60947 : Part 4 : Sec 1 : 2018)

MILESTONE-BASED ACTION PLAN FOR NEW QCOs

Union Minister of Commerce and Industry, Shri Piyush Goyal, has urged all ministries to create a Milestone-Based Action Plan for new Quality Control Orders (QCOs) in consultation with stakeholders. During a meeting with Smt. Nidhi Khare, Secretary of the Department of Consumer Affairs (DoCA), and senior officials from DoCA, DPIIT, BIS, and other key stakeholders, he emphasised the transformative role of QCOs in establishing India as a global manufacturing hub for high-quality products.

"QCOs will play a strategic role in enhancing consumer safety, boosting industry competitiveness, and advancing Bharat's rise as a global hub for high-quality products and sustainable manufacturing."
- Shri Piyush Goyal
Union Minister of Commerce & Industry

He highlighted the need for consolidated efforts to bring 100 new products under compulsory certification within a specified timeframe. Currently, there are 773 products covered by 191 QCOs, with 35 QCOs and 47 products set for implementation this year. The inclusion of two additional horizontal QCOs that address safety for electrical appliances and machines marks an important advancement.

CONCLAVE ON PLASTIC QUALITY AND COMPLIANCE

A Lab Conclave on "Plastic Quality and Compliance – Challenges and Future" was organised by the Eastern Regional Laboratory of BIS at Raipur, on 7th April 2025.The inaugural session featured key address from Smt. Nishat S Haque, DDG (Labs), BIS; Dr. A. Sahu, Principal Director, CIPET Raipur and Shri Sunil Marda, President of CG Sprinkler and Drip Manufacturers Association . During the conclave, Indian Standards such as IS 4984 (PE pipes for Water Supply), IS 14735 (UPVC Injection Moulded Fittings), and IS 13592 (UPVC Pipes for SWR systems) were discussed in detail and a uniform system of reporting was deliberated upon so that the reports are universally accepted both at National and International level.

INDUSTRY-ACADEMIA PARTNERSHIP

ANNUAL CONVENTION OF BIS STANDARDISATION CHAIRS
100+ ACADEMIC INSTITUTIONS ONBOARD; 500+ INTERNSHIPS ON OFFER FOR 2025-26

To strengthen collaboration with its MoU partner institutes, BIS held its Annual Convention of Standardisation Chairs and Nodal Faculties of MoU Partner Institutions in Indore.

In his inaugural address, Shri Pramod Kumar Tiwari, Director General, BIS urged stakeholders to leverage the MoU framework more effectively by integrating Indian Standards into the teaching and learning process, organising workshops and exposure visits, and encouraging students to engage with real-world industrial applications and said- "This partnership is a shared national mission to embed a culture of quality and standardisation across academia."

The convention was attended by representatives from 58 partner institutions. Five MoU partner institutes— IIT Roorkee, SSEC Chennai, NIT Jalandhar, SVCE Chennai, and PSNACET Dindigul—were recognised for their outstanding performance in executing various activities related to BIS as outlined in the MoU.

Highlights of the Partnership:
- Standardisation modules in the curriculum of 15 institutes.
- 130 research and development projects commissioned.
- 50 institutions established BIS Corners & Academic Dashboards.
- 198 Standards Clubs formed across 52 institutes.
- 3,400 students from 74 institutes participated in national quizzes.
- 500 student internships for the 2025-26 academic year.

The 8-week internship by BIS offers students from MoU partner institutions the chance to engage in pre-standardisation work in two key industries and conduct QCO compliance surveys in collaboration with BIS branch offices

BIS-STARTUP CONNECT AT IIT-BHU

To ensure the quality and safety of innovative products and to strengthen collaboration with startups, *BIS-Startups connect* session was held at IIT BHU. This event brought together several innovators, academics, and BIS officials including Prof. R.S. Singh, BIS Chair Professor at IIT BHU; P.V. Rajeev, Professor-in-Charge of the Atal Incubation Centre at BHU; and Prof. Rajesh Kumar, Dean of Research and Development at IIT BHU. The session led by Shri Chandan Bahl, DDG (International Relations), BIS, focused on the strategic benefits of integrating standards into product development. It also provided an overview of collaboration opportunities.

CAPSULE COURSE ON NATIONAL BUILDING CODE OF INDIA

14-15 MAY | NITS NOIDA

NITS, the training arm of BIS has designed the following short- term courses on NBC 2016 for national capacity building in building design and construction including matters relating to quality, safety and accessibility.

★ Structural Design
★ Plumbing Services
★ Fire and Life Safety
★ Accessibility in Buildings and Built Environment
★ Soil and Foundation Engineering
★ Air Conditioning, Heating and Mechanical Ventilation

This Akshay Tritiya
Let Purity Bless Your Prosperity
Choose **Hallmarked Gold**

NITS TRAINING PROGRAMME FOR MAY 2025

S.N.	NAME OF THE PROGRAMME	DATE(S)	Fees ** In Rs
	For External Participants		
1	Laboratory Quality Management System as per IS/ISO/IEC 17025:2017	05-08 May	13000
2	Trainings for State Govt dept- Public Health Engineering Department	06-07 May	Free
3	Trainings for State Govt dept- Distribution Utilities (DISCOMS)	13-14 May	Free
4	National Building Code of India – Accessibility in buildings & built environment	14-15 May	1500
5	Measurement Uncertainty (MU)	15-16 May	13000
6	National Electrical Code of India	19-20 May	1500
7	Laboratory Quality Management System as per IS/ISO/IEC 17025:2017	19-22 May	13000
8	Lead auditor course on Information Security Mgt System as per IS/ISO 27001:2022	19-23 May	21000
9	International Training on Standardization (for officials of National Standard Bodies)	21-27 May	Sponsored by MEA

BIS Care App:
10 Million Consumers
One Trusted App

Scan to Download