EUROPE

SESEI Newsletter

SECONDED EUROPEAN STANDARDIZATION EXPERT IN INDIA

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European Committee for Standardization | European Committee for Electro Technical Standardization | European Telecommunications Standards Institute | European Commission | European Free Trade Association

IN THIS ISSUE

Greeting from SESEI!

Dear Readers,

On behalf of the Project SESEI team, let me take this opportunity to wish all of you a very happy, healthy, and prosperous 2023. This is our fourteenth (14th) edition of the SESEI newsletter - Europe, capturing the latest updates around new regulations, standardisation efforts and activities around project priority topics from India for the last quarter of 2022.

The third round of the EU – India FTA discussion was held in November 2022, focussing on data flows, privacy, consumer protection, open government data, and issues related to capital movements, etc. The fourth round of talks is now scheduled for March 2023. Meanwhile the cooperation between India and EU is increasing on various topics of mutual importance. Recently, the Ministry of Electronics and IT (MeitY) of the Government of India and the Directorate-General for Communications Networks, Content and Technology (DG CONNECT) of the European Commission signed an "Intent of Cooperation on High Performance Computing (HPC), Weather Extremes & Climate Modeling and Quantum Technologies".

EU-India InnoCenter, which is an initiative funded by the European Union's research and innovation framework programme Horizon 2020, is bringing 20 high-impact and unique tech startups to explore, enter and scale in the Indian market to help deepen collaboration and innovation among European startups and the Indian Industrial ecosystem. Similarly, to address the global challenges and to achieve climate neutrality, the Government of India will co-fund the successful Indian entities in 11 calls under the Horizon Europe, of which 6 calls are open right now for submission of proposals.

India is increasingly focusing on creating a technology-based economy which is sustainable, secure, safe, self-reliant, globally competitive and yet in total harmony. Standards will play a significant role in this transition from traditional to a globally connected digitized world. To ensure effectiveness of the

standardization process and policies, Bureau of Indian Standards (BIS) released its Standards National Action Plan (SNAP) 2022-27 prioritizing standardization issues ranging from engineering to services, IoT to AI and smart cities to e-mobilities. 'Smartness', 'Sustainability' and 'Services' would be the key to future standardization. SESEI expert also provided input during its consultation stage sharing the best practices from Europe, many of these suggestions are well captured or aligned such as Annual Work Plan termed as Annual Strategic Priority, establish a strategic advisory group to take up these strategic topic towards industry, government and other relevant stakeholders etc. in it.

The BIS has also won the IEC presidency and Strategic Management Board (SMB) Chair for the 2023-25 term, ensuring that Indian viewpoints on the important strategic and policy matters are put forth and it also provides opportunities to align the national standardization priorities with International best practices.

It is reported that the Smart City Mission has been extended upto June 2023 and all Smart Cities are expected to complete their projects within the stipulated time, so that people gain access to core infrastructure, a clean and sustainable environment, and a decent quality of life through the application of smart solutions.

India is also deeply committed towards the decarbonization and achieving the goals set under the Paris Agreement. At the recently held COP27, India submitted to the United Nations Framework Convention on Climate Change (UNFCCC) its long-term plan to achieve the net-zero target by 2070, emphasizing climate justice, sustainable lifestyles and equity. India was also ranked among the top five countries in the world, and the best among the G20 countries on its climate change performance, according to an independent ranking.

One of the biggest contributors towards achieving this goal would be Indian Railways. In a major shift towards decarbonization of the transportation sector, the Indian Railways has decided to replace its entire fleet of owned/hired/leased Internal Combustion Engine (ICE) cars with Electric Vehicles by 2025. This will be the largest migration from fuel-based vehicles to EVs in a government organization which will also come with sufficient affordable and accessible charging infrastructure. Railways has also rolled out a five-pronged energy efficiency plan to become carbon-neutral by 2030.

SESEI also co-organized a successful hybrid Workshop on Environmental Design & Labelling – Role of Standards & Policy in India and the EU, creating synergies in the approach for ECO Design and Labelling standards and policies.

It has also been validated worldwide that the ICT standards can help reach the UN Sustainable Development Goals (SDGs). In this regard, we witnessed the launch of 5G services in the country and the Prime Minister of India also announced India to take global lead in the sixth generation (6G) wireless technology and its standardisation. In this regard, DoT is seeking regulator's (TRAI) recommendation for airwaves in the 95 GHz to 3 THz band, to use it for experimental purposes in the sixth generation (6G).

With focus to ensure safety and security of the citizens especially in a digitized world, Ministry of Electronics, and Information Technology (MeitY), has formulated a draft Bill, titled 'The Digital Personal Data Protection Bill, 2022. The draft bill is currently open for public comments. Another important news this quarter was Department of Telecom (DoT) approving the adoption of TSDSI transposed 3GPP Release-17 standards into National Standards without any modifications.

The Newsletter carries, information on many other important topics related to investment landscape and market synopsis around project priority sectors. We also provide you details of the upcoming important events/ seminars and workshops as part of this newsletter along with draft standards formulated by the standardization bodies as annexures.

Warm Regards,

Dinesh Chand Sharma

SESEI | Seconded European Standardisation Expert in India

Enabling Europe-India Cooperation on Standards

Standards/IPR/TBT-Market Access

The List of Draft Indian Standards as issued by BIS for eliciting technical comment along with Standards as published by ARAI, RDSO, TSDSI and TEC are available as part of Annexure 1 to this newsletter.

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Bureau of Indian Standards (BIS) released draft Standards National Action Plan (SNAP) 2022

BIS had framed the Standards National Action Plan (SNAP) in the year 2019, proposing a set of actions that would enable BIS to fulfil its mandate as the National Standards Body and deliver standards according to the market needs in an efficient and timely manner. SNAP 2019 had an implementation timeframe of 3 years which ended in 2022 following which framing of the next version of SNAP was taken up. SNAP 2022-27 identifies emerging areas of standardisation that support Government's initiatives in the fields of Digital India, Smart Agriculture, Smart cities etc. The action plan has also prioritised standardisation issues ranging from engineering to services, IoT to AI and smart cities to e-mobilities. 'Smartness', 'Sustainability' and 'Services' would be the key to future standardisation.

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BIS signs MoU with Technical institutions for active engagement of academia in standards formulation

Bureau of Indian Standards (BIS) has signed Memorandum of Understanding (MoU) with IIT Kanpur, IIT(ISM) Dhanbad, NIT Rourkela, IIT Indore, IIT Patna, IIT BHU, IIT Madras, Malaviya National Institute of Technology Jaipur and National Institute of Technology Trichy for establishment of 'BIS Standardization Chair Professor' at these institutes. This is an initiative towards institutionalizing its engagement with the eminent institutes of the country for securing active participation of academia in standards formulation and making teaching of Indian standards an integral part of the curriculum. This will promote excellence and leadership in teaching, research and development in the field of science and various Engineering, disciplines.

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BIS and TIC Council to coordinate for implementation of standards and quality practices in laboratories.

Bureau of Indian Standards (BIS) has partnered with Testing, Inspection, Certification (TIC) Council, India to promote and harmonize the implementation of standards and quality, safety and sustainability practices in laboratories. The two organizations have signed a MoU and have agreed to further work to improve the responsiveness for laboratories. They will also exchange and disseminate the global best practices in the field of laboratories under the pact.

Read more

India wins the IEC Vice Presidency and Strategic Management Board (SMB) Chair for the 2023-25 term

By securing over 90% of the votes cast by full members of International Electrotechnical Commission (IEC) during its General Meeting held recently in San Francisco, USA, India's representative, a member of the Indian National Committee of the IEC and various technical committees of BIS (India), was elected. Representation of BIS (India) in policy and governance bodies of International Organization for Standardization (ISO) and IEC ensures that Indian viewpoints on the important strategic and policy matters are put forth and it also provides opportunities to align the national standardization priorities with International best practices.

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QCO/TBT Notifications

India has submitted following "Technical Barriers to Trade (TBT) notifications" to the World Trade Organization (WTO):

- G/TBT/N/IND/237: Requirement of Registration of foreign food manufacturing facilities as per regulation 18 of Food Safety and Standards (Import) Regulations, 2017
- G/TBT/N/IND/236: Machinery and Electrical Equipment Safety (Omnibus Technical Regulation) Order, 2022
- G/SPS/N/IND/288: Draft Food Safety and Standards (Labelling & Display) Amendment Regulations, 2022
- G/TBT/N/IND/235: Draft Food Safety and Standards (Labelling & Display) Amendment Regulations, 2022

Department for Promotion of Industry & Internal Trade (DPIIT) has issued following draft Quality Control Orders (QCOs):

- Smart Meter
- Potable water bottles and Insulated flask
- Sports Goods
- Resin treated compressed wood laminates, Plywood and Wooden flush door shutters etc.
- Lighters
- Furniture (Quality Control) Order, 2022

Smart Cities

geospatialworld.net

Centre's 'Smart City Mission' projects likely to be completed in 2023

2023 is likely to see the completion of the Centre's flagship urban transformation scheme 'Smart City Mission', which ensures that people gain access to core infrastructure, a clean and sustainable environment, and a decent quality of life through the application of smart solutions. The period of implementation of the SCM has been extended upto June 2023 and all Smart Cities are expected to complete their projects within the stipulated time.

Government data disclosed that nearly 88% of the funds given by the Centre for smart city projects has been utilised. According to the Ministry of Urban Affairs, as on December 2, 2022, the government has released Rs 34,675 crore (nearly €4 billion) of which Rs 30,418 crore (nearly €3.5 billion) has been utilised.

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IIITH Smart City Living Lab in partnership with Silicon Labs, launched Wi-SUN network for smart city projects.

IIITH Smart City Living Lab in partnership with Silicon Labs, launched a campus-wide Wi-SUN network to enable research and solutions for the Internet of Things (IoT) and smart cities. Wi-SUN is an open-standard protocol enabling interoperable solutions through open-source software with multi-layer security. Wi-SUN will enable utilities, municipalities, and other enterprises to deploy long-range, low-power wireless mesh networks connecting thousands of IoT nodes.

Read more

MoHUA launches 2 key initiatives to take India's Urban Rejuvenation journey to next level

The Ministry of Housing and Urban Affairs (MoHUA) launched two key initiatives to take India's Urban Rejuvenation journey to the next level. These are:

The 'City Finance Rankings, 2022' aim to evaluate, recognize and reward India's cities (Urban Local Bodies or ULBs) on the basis of their strength across three financial parameters viz. resource mobilization, expenditure performance and fiscal governance systems."

The 'City Beauty Competition' aims to encourage and recognize the transformational efforts made by cities and wards in India to create beautiful, innovative, and inclusive public spaces. Wards and public places of cities would be judged against the five broad pillars (i) accessibility (ii) amenities (iii) activities (iv) aesthetics and (v) ecology.

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Mobility

alstom.com

Indian Railways to replace its fleet with Electric Vehicles

In a major shift towards decarbonization of the transportation sector, the Indian Railways has decided to replace its entire fleet of owned/hired/ leased Internal Combustion Engine (ICE) cars with Electric Vehicles by 2025. Under Indian Railways' new EV Policy, a vast charging infrastructure would be created at major railway stations, office buildings, parking lots etc. As part of the measures taken to promote e-mobility, the national transporter said it was ideally suited to play a key role in taking forward the Government of India's mission of promoting EVs.

This will be the largest migration from fuel-based vehicles to EVs in a government organization which will also come with sufficient affordable and accessible charging infrastructure.

Read more/Download policy

SGS Opens One of India's Largest Laboratories for Automotive Quality Testing in Chakan, Pune

SGS, the world's leading testing, inspection and certificate company, opens one of India's largest laboratories for automotive quality testing in Chakan, Pune. The facility offers an extensive range of advanced testing services with large capacities. Equipped with state-of-the-art testing equipment capable of handling high capacities and powered by advanced technology, the laboratory deploys digitization and process automation at various stages to offer fast and accurate results. Some of its capabilities, such as complete automation for device under test (DUT) and sample monitoring via digital, analog or video format, are available in India only at this facility. The laboratory can handle all JASO, ISO, CISPR and IEC Indian standards and global OEM specifications.

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Ministry of Road, Transport and Highways issued following notifications

G.S.R. 797(E) regarding amendments in the rules for recognition, regulation, and control of automated testing stations.

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Updation in SOP and standard format for submission of proposals to NPG.

Read more

ICT including services

innovateindia.mygov.in

Ministry of Electronics and Information Technology (MEITY) released Draft Data Protection Bill

Ministry of Electronics and Information Technology has been deliberating on various aspects of digital personal data and its protection, and has formulated a draft Bill, titled 'The Digital Personal Data Protection Bill, 2022'. The purpose of the draft Bill is to provide for the processing of digital personal data in a manner that recognizes both the right of individuals to protect their personal data and the need to process personal data for lawful purposes, and for matters connected therewith or incidental thereto.

The draft Bill employs plain and simple language to facilitate ease of understanding and is available on Ministry's website at https://www.meity.gov.in/data-protection-framework, along with an Explanatory note that provides a brief overview of its provisions, which is available here.

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Adoption of TSDSI Transposed 3GPP Release-17 Standards into National Standards by TEC Telecommunications

Standards Development Society, India (TSDSI), as a partner of 3GPP had submitted 3GPP Release 17 standard specifications [1] , (total 1227 documents) to Telecommunication Engineering Centre (TEC) for adoption as National Standards. Based on recommendation of TSAC Committee i.e. Apex Committee, TEC, DoT has approved adoption of these TSDSI transposed 3GPP Release-17 standards into National Standards without any changes ("identical adoption").

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DoT receives 100 Registrations for M2M Service Provider/WLAN/WPAN Connectivity Provider

The Department of Telecommunications (DoT), Ministry of Communications has announced that it received 100 Registrations for M2M Service Provider/ WLAN/ WPAN Connectivity Provider, till October 2022. In order to strengthen the M2M/IoT eco-system and to facilitate wider proliferation and innovation in the sector, DoT had issued guidelines for registration of M2M Service Providers and WPAN/WLAN Connectivity Providers. To facilitate the prospective registrants and with a view to aid ease of doing business, DoT commenced the process of on-boarding the M2M Service Providers in March '22 through a very simple online registration process on its existing Saral Sanchar portal.

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C-DOT and IIT, Delhi Sign an MoU for cooperation in various Emerging Technologies

Centre for Development of Telematics (C-DOT), the premier Telecom R&D centre and the Indian Institute of Technology, Delhi (IITD) have signed a MoU for cooperation in various areas of Telecom spanning

IoT/M2M, AI/ML, Cyber Security and 5G & Beyond technologies.

This MoU aims to evolve a mutually productive framework for collaboration between R&D and academia to spur the design & development of wholly indigenous Telecom solutions. This will be an effective platform for exchange of knowledge and skill amongst students, faculty and researchers right from the stage of ideation and conceptualization. The platform would act as a catalyst to further the transition of novel ideas into market-ready solutions.

Read More

Dot Allows for Routers, Cordless Phones and Other Equipment to be Self-Certified

The Department of Telecommunications (DoT) has moved certain products like routers, cordless phones, transmission terminal equipment and LAN switches etc. from mandatory testing to a self-certification regime in a bid to speed up the penetration of broadband in the country. The change, which will come into effect from January 1 2023, will help companies to reduce the time taken to test and certify a product before being sold in the market. Firms like Cisco and TP-Link are set to benefit as they just need to self-certify their imported products and sell in the Indian market. Currently, devices like routers etc. are primarily imported from countries including China.

Read more

Government to Open-up 95 GHz - 3 THz spectrum band for 6G-related experimental use

The Department of Telecommunications (DoT) will seek sector regulator's views in a bid to open up spectrum in the 95 gigahertz (GHz) - 3 terahertz (THz) frequency for free allocation to develop new technologies like 6G-driven products and solutions. "The department will ask for suggestions from the Telecom Regulatory Authority of India (Trai) for airwaves in the 95 GHz to 3 THz band, to use it for experimental purposes to develop products and solutions based on new technologies particularly the sixth generation (6G),". The spectrum allocation will be for the next 10-year term.

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India takes over as Council Chair of Global Partnership on AI (GPAI)

India assumed the Chair of the Global Partnership on Artificial Intelligence (GPAI), an international initiative to support responsible and human-centric development and use of Artificial Intelligence (AI). This comes close on the heels of India taking over the presidency of G20, a league of world's largest economies at Bali, Indonesia.

With National Programme on AI in place and a National Data Governance Framework Policy and one of world's largest publicly accessible data sets programme in the works, the Minister reiterated India's commitment to efficient use of AI for catalyzing innovation ecosystem around AI, that can create good, trusted applications for our citizens and the world at large.

Read More

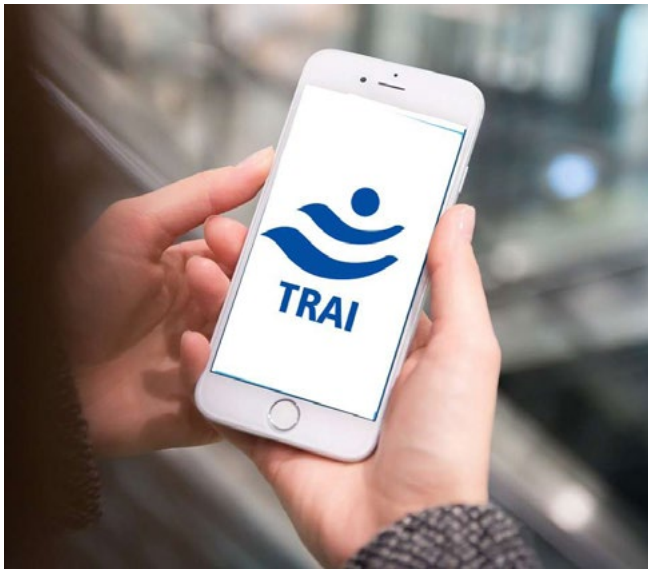
Government notifies Amendments to the Information Technology (Intermediary Guidelines and Digital Media Ethics Code) Rules 2021 for an Open, Safe & Trusted and Accountable Internet

In a major push towards an Open, Safe & Trusted and Accountable Internet, the Ministry of Electronics and IT notified these amendments aimed at protecting the rights of Digital Citizens. It also enhances due diligence requirements and ensuring accountability of social media and other intermediaries. They have been notified against the backdrop of complaints regarding the action/inaction on the part of the intermediaries on user grievances regarding objectionable content or suspension of their accounts.

Read More

DoT/TEC Notifications

- TEC released a study paper titled "DIGITAL RIGHTS MANAGEMENT SYSTEM A Technology for Secured Delivery of Digital Content through the Internet"
- Standard for GR of Compact LTE Mobile System
- Standard on Quantum Key Distribution
- User Plane Function (UPF) of 5G – ITSAR
- Unified Data Management (UDM) of 5G – ITSAR
- Transmission Terminal Equipment – ITSAR
- Session Management Function (SMF) of 5G – ITSAR
- Security Edge Protection Proxy (SEPP) of 5G – ITSAR
- Service Communication Proxy (SCP) of 5G – ITSAR
- Optical Network Terminal (ONT)-PON family Broadband Equipment – ITSAR
- Optical Line terminal (OLT) – PON family Broadband Equipment – ITSAR
- Network Data Analytics Function (NDWAF) of 5G – ITSAR
- Network Repository Function (NRF) of 5G – ITSAR
- Network Exposure Function (NEF) of 5G – ITSAR
- Non-3GPP Interworking Function (N3IWF) of 5G – ITSAR
- Private Automatic Branch Exchange (PABX) – ITSAR
- CELL BROADCAST CENTRE(CBC) – ITSAR
- Authentication Server Function (AuSF) of 5G – ITSAR
- Access and Mobility Management Function (AMF) of 5G - ITSAR



telecomtalk.info

TRAI Consultation papers/ recommendations

- Introduction of Calling Name Presentation (CNAP) in Telecommunication Networks.

Read more

- Licensing framework for establishing and operating Satellite Earth Station Gateway (SESG).

Read more

- Use of street furniture for small cell and aerial fiber deployment.

Read more

- Regulatory Framework for Promoting Data Economy Through Establishment of Data Centres, Content Delivery Networks, and Interconnect Exchanges in India".

Read more

Electrical Equipment including Consumer Electronics

smartprix.com

Amendment in revised consolidated Guidelines & Standards for Charging Infrastructure for EVs

Ministry of Power (MoP) issues amendment in the revised consolidated Guidelines & Standards dated for Charging Infrastructure for Electric Vehicles issued by the Ministry on 14.01.2022. It has been decided to add the following in these guidelines:

- The heading "**3. Public Charging Infrastructure (PCI) Requirements**", para 3.1 (xi), has been added as "The public charging stations shall have the feature of prepaid collection of service charges with the time of the day rates and discount for solar hours".

- The heading "**8. Service charges at PCS**", para 8.3 has been added as "A Committee under Central Electricity Authority (CEA) will periodically recommend to the State Government the ceiling limit of service charges to be levied under para 8.2 above. This Committee shall also recommend "time of the day rate" for service charges as well as the discount to be given for charging during solar hours".

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India makes USB Type-C charging must for device makers from March 2025

Following the European Union, India has made it official that USB Type-C Charging will become mandatory for all smartphones and other devices from March 2025, which was officially announced by the Bureau of Indian Standards (BIS) after consulting with industry stakeholders about standards, global supply chain constraints, and product availability. BIS has also set quality benchmarks for the charging port, while the Consumer Affairs department has asked all device manufacturers to put in their products for USB Type-C chargers, while the government brings in two types of common charging ports.

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India signs deal with Belgium-based IMEC to get chip-making technology

The government of India has signed an agreement with Belgium-based research and innovation hub, Interuniversity Microelectronics Centre (IMEC), which will provide the technology to manufacture chips of

choice.com.au

28 nanometres and above, for which the user has to pay a royalty. The MEITY official said IMEC will give technical aid to companies setting up semiconductor units in India. The official said, "The firm is also willing to support the development of talent and research abilities in the country."

Read more

EESL Installs over three million Smart Meters across India

State-owned Energy Efficiency Services Ltd. (EESL) has announced the completion of installation of over 3 million smart meters across India under the government's Smart Meter National Programme. The company has signed agreements with the state-designated agencies and utilities in these regions for the large-scale deployment of smart meters. It further aims to install a total of over 4.7 million smart meters by December 2023.

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The Ministry of New and Renewable Energy (MNRE) issued the following notification

- National Bio Energy Programme.

Read more

- Draft National Repowering Policy for Wind Power Projects, 2022.

Read more

- The Energy Conservation (Amendment) Act, 2022.

Read more

- Guidelines for implementation of Waste to Energy Programme under the Umbrella scheme of National Bioenergy Programme for the duration of FY 2021-22 to FY 2025-26 (Phase-I).

Read more

- Guidelines for implementation of Biomass Programme under the Umbrella scheme of National Bioenergy Programme for duration of FY 2021-22 to 2025-26 (Phase-I).

Read more

- Amendment in the 'Guidelines for Tariff Based Competitive Bidding Process for procurement of power from Grid Connected Wind Solar Hybrid Projects' issued dated 14.10.2020.

Read more

- Scheme Guidelines for Implementation of the Production Linked Incentive Scheme (Tranche II) under 'National Programme on High Efficiency Solar PV Modules'.

Read more

The Ministry of Power (MoP) issued the following notification

Code of practice for design construction installation and operation of BISGAS (BIOMETHANE) plant.

Read more

Manufacturing/Make in India

Government is working to extend Rs 3500-crore PLI benefits to BIS-compliant toys

The government is working to extend Rs 3,500 crore (€426 million) worth of production linked incentive (PLI) benefits to toys, which are compliant with the norms of Bureau of Indian Standards (BIS), with an aim to make domestic manufacturing globally competitive, attracting investments and enhancing exports, an official said. The official said that the measures announced by the government for the toys industry like introduction of quality control orders and increasing customs duties from 20% to 60% has helped in cutting down sub-standard imports and promoting domestic manufacturing in the country.

Read more

Government sets up task forces to boost telecom manufacturing and tighten imports

The government will come up with a methodology to check imports from neighbouring nations, which are non-compliant with trusted source rules of the telecom sector, Union Minister for Communications and IT said. The Minister had a meeting with more than 40 CEOs of telecom gear makers that have qualified for the production linked incentive scheme; and has decided to set up 4-5 task forces to provide market support to them as well as streamline their business for value addition in the economy.

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DPIIT working with 24 key sectors to boost manufacturing, exports

Department for Promotion of Industry and Internal Trade (DPIIT) is working closely with 24 sectors to boost domestic manufacturing, increase exports and cut down imports. These sectors include furniture, air-conditioners, footwear, auto components, aluminium, electronics, agrochemicals, steel, textiles, EV components and integrated circuits, ethanol, ceramics, set top boxes, robotics, televisions, close circuit cameras, toys, drones, sporting goods and gym equipment.

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DPIIT working on new industrial policy; proposes scheme for Made in India brand

The Department for Promotion of Industry and Internal Trade (DPIIT) is working on a new industrial policy that proposes to increase financing sources for industry and a scheme for promoting Made in India brand. It has suggested various ways for wider access to finance for the industry such as setting up of a development finance institution to provide finance at competitive rates and considering using some part of foreign exchange reserves for such funding. The proposal also includes the implementation of an integrated investment promotion strategy by involving district, state, national and international market synergies.

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Rs 10,000-12,000 crore PLI sops soon for hi-tech IT, mobile components

Ministry of Electronics and IT (MeitY) is working on an incentive scheme, with a likely financial outlay of around Rs 10,000 crore to Rs 12,000 crore (Euro 1.13b to 1.36b), to promote domestic manufacturing of high-end components that could go into products such as smartphones, servers and personal computers.

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R&D and Innovation

768 entities have registered on Indian Railway Innovation Portal to participate in Innovation Challenges

Indian Railways has embarked upon Innovation journey through launch of "**Startups for Railways**" initiative on 13.06.2022. So far, 768 entities are registered on Indian Railway innovation portal to participate in innovation challenges floated by Railways.

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EU-India InnoCenter brings 20 Innovative Tech Startups to Indian Market

The EU-India InnoCenter, an initiative funded by the European Union's research and innovation framework programme Horizon 2020, is bringing high-impact and unique tech startups (Series-A funded) to explore, enter and scale in the Indian market. The startups come with a focus on sustainability-tech, deep-tech, logistics, and mobility that will enhance the emerging tech talent pool while diversifying the technology outlook in the country. The combination of European R&D with Indian government investment in amplifying the same, will automate, digitise, and decarbonise the Indian market in these industry sectors and help deepen collaboration and innovation among European startups and the Indian Industrial ecosystem.

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11 EU-India co-funded calls under Horizon Europe

The European Union and the Government of India (Department of Science & Technology (DST), Department of Biotechnology (DBT) and Ministry of Earth Sciences (MoES), have agreed to join forces to jointly address the global challenges and to achieve climate neutrality. The Government of India will co-fund the successful Indian entities in 11 calls under the Horizon Europe, of which 6 calls are open right now for submission of proposals.

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pexels.com

India is world's fastest growing innovation ecosystem, says Minister of State

India is the fastest growing innovation ecosystem in the world where around 102 unicorns have been created in the last few years, stated Minister of State for Skill Development, Entrepreneurship, Electronics and Information Technology.

Read More

Energy Efficiency & Environment including Circular Economy

India Submits Long-Term Strategy to Achieve Net-Zero Target By 2070

India submitted to the United Nations Framework Convention on Climate Change (UNFCCC) its long-term plan to achieve the net-zero target by 2070, emphasising climate justice, sustainable lifestyles and equity. Fifty-eight countries have so far submitted their long-term low-emission development strategies (LT-LEDS). Under the Paris Agreement, countries are required to submit long-term low-emission action plans to help achieve the global goal of limiting temperature rise to 1.5 degrees Celsius as compared to the pre-industrial average.

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Railways rolls out energy efficiency plan to meet 2030 net-zero target

The railways ministry has rolled out a five-pronged energy efficiency plan to become carbon-neutral by 2030. The ministry is looking to reduce overall energy use with efficient operations and increase renewable energy usage. India, in its commitment to the United Nations Framework Convention on Climate Change, has set a target to become net zero by 2070. For the railways, the target year is 2030.

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MoHUA set to provide fillip to Indian startups in the sanitation and waste management sector

India's position as the 3rd largest startup eco-system in the world is set to get a further boost, with Ministry of Housing & Urban Affairs (MoHUA)preparing to provide an array of funding and incubation support to Startups to strengthen the sanitation and waste management sector.

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Hybrid Workshop on Circular Economy: Environmental Design & Labelling – Role of Standards & Policy in India and EU

EU project SESEI, CEN-CENELEC along with European Union's Resource Efficiency Initiative (EU-REI), Environmental Coalition on Standards (ECOS), and TERI organized the second edition of the Hybrid Workshop on Environmental Design & Labelling – Role of Standards & Policy in India and the EU. The workshop on Eco Labelling and Eco Design was successful in creating a dialogue and discussion between the EU and Indian stakeholders towards synergies in the approach for ECO Design and Labelling standards and policies. Detailed event report and presentations are available here.

India Among the Top Five Performers on Climate Change Index

India is ranked among the top five countries in the world, and the best among the G20 countries on its climate change performance, according to an independent ranking. The annual Climate Change Performance Index (CCPI), an independent monitoring tool that tracks climate protection policy in 59 countries and the EU, placed India two positions up at the eighth place in the 2023 rankings. The index is published by Germanwatch, NewClimate Institute, and Climate Action Network International based in Germany.

Read more

Ministry of Environment, forest and Climate Change released following notifications

- Guidelines for Implementation of Swachhta (Clean) Action Plan 2022-23.

Read more

- G.S.R. 801(E): E-Waste (Management) Rules, 2022.

Read more

EU-India/Trade-FTA/Investments

medium.com

India, EU Sign Agreement for Cooperation in High-Performance Computing, Quantum Tech

India and the European Union (EU) signed an agreement on cooperation in hi-tech areas such as climate modelling and quantum technologies, building on the Trade and Technology Council launched by the two sides earlier this year. The 'Intent of Cooperation on High Performance Computing (HPC), Weather Extremes and Climate Modelling and Quantum Technologies' was signed by the ministry of electronics and IT (MeitY) and the European Commission's Directorate-General for Communications Networks, Content and Technology (DG CONNECT). The agreement builds on commitments by both sides for deepening technological cooperation on quantum and high-performance computing during the India-EU leaders meeting on May 8. "Moreover, the signing of the agreement assumes significance in the context of the decision to set up EU-India Trade and Technology Council (TTC)" on April 25, an EU statement said.

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India-EU to begin 3rd round of talks on trade agreement from Nov end

India and European Union (EU) will begin the next round of talks on a proposed trade agreement at the end Nov 2022, with aims at boosting trade and investment between the two regions for the third round of talks for the India-EU Trade and Investment Agreement, including the Geographical Indications (GI). The second round of negotiations between the two regions was held in Brussels. India's bilateral trade with the European Union rose by 43.5 percent to USD 116.36 billion in 2021-22. At present, the EU is India's second-largest trading partner after the US and the second-largest destination for Indian exports.

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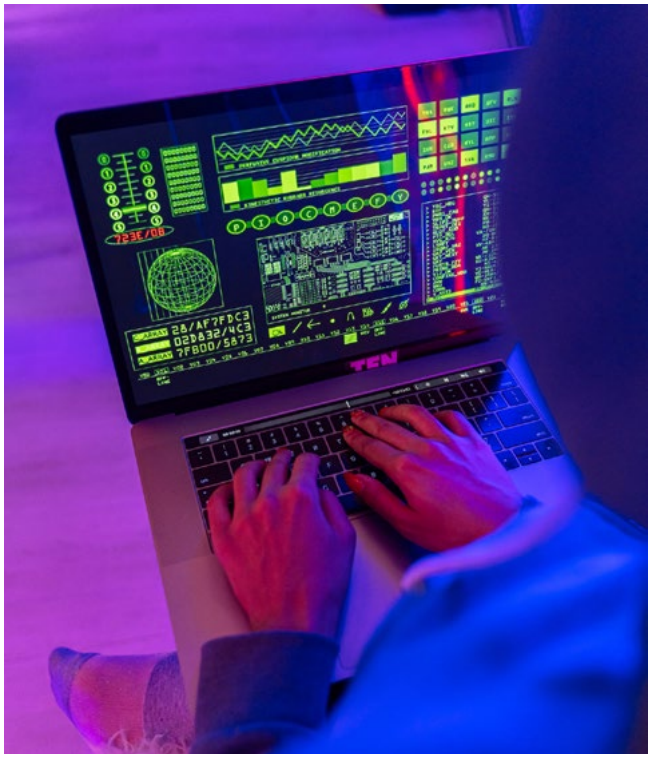

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India-EU FTA Talks Focus on Data Flow, Privacy

India and the European Union discussed data flows, privacy, consumer protection, open government data, and issues related to capital movements and payments under the ongoing free trade agreement negotiations. The third round of talks took place in November 20222. The two sides also discussed a system of self-certification for the origin of goods clause, people aware of deliberations. The fourth round of talks is scheduled for March 2023.

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India and Finland agreed to Carry Mutual Cooperation Between the Two Countries to a New Level and Enhance Partnership in Areas of Digital Partnership in Future ICT, Future Mobile Technologies And Digital Education

Finland Minister of Education and Culture, Petri Honkonen and Union Minister of Science and Technology Dr Jitendra Singh met to discuss bilateral cooperation between the two countries in the field of Science, Technology and Innovation (STI). India and Finland agreed to carry mutual cooperation between the two countries to a new level in a number of areas of bilateral as well as global interests. Two nations decided to enhance cooperation in areas such as Digital Partnership in Future ICT, Future Mobile Technologies and Digital Education. The two countries also emphasised on having institutionalised joint working groups on areas of mutual interest.

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Department for Promotion of Industry and Internal Trade (DPIIT), Invest India and the Embassy of the Netherlands formalize the India-Netherlands Fast-Track Mechanism (FTM)

The Department for Promotion of Industry and Internal Trade (DPIIT) and The Embassy of The Kingdom of The Netherlands officially signed the Joint Statement to formalize the bilateral Fast-Track Mechanism (FTM) between India and The Netherlands. The bilateral FTM between India and The Netherlands aims to serve as a platform for faster resolution of investment cases of Dutch companies operating in India. The mechanism functions in close collaboration between DPIIT, respective ministries and departments, Invest India and the Embassy of The Netherlands. The mechanism will strengthen and assist bilateral efforts to increase mutual investment activities, as well as support and develop business cooperation between companies in both the countries.

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Invest India

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Working to cut cost of telecom ops to attract investments: DoT secretary

The government is working to bring down the cost of telecom operations to attract more investments in the sector. While speaking at the CII Telecom Summit, telecom secretary K Rajaraman said the cost of maintaining optic fibre network is very forbidding. "(If) we are able to bring down the cost of operations for the telecom network, I am sure that more investment will come. We will be working on that. A lot of policy measures are underway," he said.

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India likely to receive EU's Euro 300 billion fund under Global Gateway scheme

Aimed at expanding connectivity including in the Indo-Pacific region, India is likely to receive a chunk of the Euro 300 Billion fund announced by the European Union (EU) under its Global Gateway scheme, said French Ambassador Emmanuel Lenain. The massive global investment plan for connectivity projects – announced in December 2021 – is seen as a counter to China's ambitious Belt and Road Initiative.

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Upcoming Events

International Conference on the Global Goals for Sustainable Development - 17 SDGs

When: 20 - 21 Jan 2023

Where: Vivekananda Institute of Professional Studies, New Delhi, India

International Conference on the Global Goals for Sustainable Development - 17 SDGs aims to provide broad, corporate leaders, industry experts, budding management practitioners, burgeoning managers, management scholars& students to deliberate and disseminate not only the management theories, concepts, and models but also to share the outcome of their research, consultancy, training, life experiences, and exposure. For more information, please click here

International Conference on Artificial Intelligence and Smart Communication

When: 27 - 29 Jan 2023

Where: G. L. Bajaj Institute of Technology & Management, Greater Noida, India

Innovation and Research in a broad area of Artificial Intelligence and Smart Communication Engineering needs to enhance its capabilities for recent challenges. Recent advances in different domains like Sensor Technologies, Wireless Communications, Computer Vision, Medical Image, Data Processing and globalization of digital society across various social areas have intensified the growth of remote healthcare services. For more information, please click here

Electric Vehicle Innovations India Summit

When: 24 - 25 Jan 2023

Where: Holiday Inn Mumbai International Airport, Mumbai, India

Electric Vehicle Innovations India Summit is an initiative to get all the stakeholders on a platform to ponder upon the critical discussions on technological and market related challenges and build a common vision towards achieving carbon neutrality. It will focus on areas like Key innovation to drive mass EV adoption - How can companies lead in terms of R&D innovation, Understanding the factors influencing consumer attitude and perception towards EV adoption, Outlook for EV in India and nuances of the EV battery market, etc. for more information, please click here

Electric Vehicle & Renewable Energy Expo

When: 02 - 04 Feb 2023

Where: Palace Grounds, Bengaluru, India

EV Expo and Green energy summit Bangalore. Expo & Conference EV Expo Bangalore brings to the Electric Vehicle industry the opportunity to showcase, see and understand the latest in an electric vehicle, Components, and Services for convenience and environment-friendly transportation of passengers and goods. For more information, please click here

Upcoming Events

World Sustainable Development Summit

When: 22 - 24 Feb 2023

Where: New Delhi, India

World Sustainable Development Summit theme will be Mainstreaming Sustainable Development and Climate Resilience for Collective Action. It is bringing together leading representatives from international organizations, government, business & industries, research & academia, civil society, and youth to deliberate on the modus operandi required for mainstreaming sustainable development and climate resilience for collective action. For more information, please click here

India eMobility Show

When: 23 - 24 Mar 2023

Where: India Exposition Mart, Greater Noida, India

The India eMobility Show 2023 will provide an excellent convening space for regional & global EV players to network and explore business opportunities in a highly engaging business atmosphere. For more information, please click here

The International Conference on Emerging Trends and Technologies on Intelligent Systems

When: 23 - 24 Feb 2023

Where: Noida, India

The International Conference on Emerging Trends and Technologies on Intelligent Systems will provide an excellent international forum for sharing knowledge and results in theory, methodology, and applications of Artificial Intelligence, Big Data, Cyber-Physical Systems, and Security in Industrial/Real-World settings. For more information, please click here

Smart Cities India Expo

When: 27 - 29 Mar 2023

Where: Pragati Maidan, New Delhi, India

The Smart Cities India Expo focuses on key areas including IoT, Integrated Command Control Centres (ICCCs), e-Governance, Communication systems, Data storage and Management, Innovative urban planning practices, Green buildings, Solar energy, Logistics, Clean Environment, and Water, and many more. For more information, please click here

International Conference on Circular Economy - Green Energy

When: 24 Sep 2023

Where: India Habitat Centre, New Delhi, India

The Renewable Energy Society of India (RESI) and the Chandradeep Solar Research Institute (CDSRI) are hosting an International Conference on Circular Economy - Green Energy i.e. NCCE-GE scheduled to be held in New Delhi in order to help and encourage researcher, experts, and organization in this sector and is an interactive platform to supports the scientific swarms of organizations, laboratories/researchers/academics/students forum/international groups, and R&D partners. For more information, please click here

Annexure 1

Electrical Equipment including Consumer Electronics (ETD)

The following Draft Indian Standards were issued by Electro-Technical division council at BIS during the last quarter for eliciting technical comment:

Electrotechnical (ETD)			
S. No.	Document No	Title of the Doc	IEC/ISO
1	ETD 2(20766)	Flexible insulating sleeving - Part 1: Definitions and general requirements (First Revision)	IEC TC-112 (P); IEC TC-15 (O)
2	ETD 2(20767)	Flexible insulating sleeving - Part 2: Methods of test (First Revision)	IEC TC-112 (P); IEC TC-15 (O)
3	ETD 20(21579)	ELECTRICAL INSTALLATIONS IN SHIPS - SPECIFICATION PART 1 GENERAL Section 1 Definitions and General Requirements Second Revision	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)
4	ETD 20(21580)	SPECIFICATION FOR ELECTRICAL INSTALLATION IN SHIPS PART 2 SYSTEM DESIGN Section 1 General First Revision	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)
5	ETD 20(21581)	SPECIFICATION FOR ELECTRICAL INSTALLATION IN SHIPS PART 2 SYSTEM DESIGN Section 2 Protection First Revision	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)
6	ETD 20(21582)	SPECIFICATION FOR ELECTRICAL INSTALLATION IN SHIPS PART 3 EQUIPMENT Section 1 Generators and Motors First Revision	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)
7	ETD 20(21583)	SPECIFICATION FOR ELECTRICAL INSTALLATION IN SHIPS PART 3 EQUIPMENT Section 2 Switchgear and Control gear Assemblies First Revision	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)
8	ETD 20(21584)	SPECIFICATION FOR ELECTRICAL INSTALLATIONS IN SHIPS PART 3 EQUIPMENT Section 3 Transformers for Power and Lighting First Revision	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)

9	ETD 20(21585)	SPECIFICATION FOR ELECTRICAL INSTALLATION IN SHIPS PART 3 EQUIPMENT Section 4 Semiconductor Convertors First Revision	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)
10	ETD 20(21586)	ELECTRICAL INSTALLATION IN SHIPS PART 3 EQUIPMENT Section 5 Accumulator Storage Batteries - Specifications First Revision	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)
11	ETD 20(21588)	SPECIFICATION FOR ELECTRICAL INSTALLATION IN SHIPS PART 3 EQUIPMENT Section 6 Luminaires and Accessories First Revision	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)
12	ETD 20(21589)	ELECTRICAL INSTALLATIONS IN SHIPS - SPECIFICATION PART 3 EQUIPMENT Section 7 Heating and Cooking Appliances First Revision	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)
13	ETD 20(21590)	ELECTRICAL INSTALLATION IN SHIPS PART 3 EQUIPMENT Section 10 General Construction and Test Requirements for Low Voltage Shipboard Power Cables - Specification First Revision	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)
14	ETD 20(21591)	ELECTRICAL INSTALLATIONS IN SHIPS Part 352: Choice and installation of electrical cables	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)
15	ETD 20(21592)	Electrical installations in ships Part 353: Power cables for rated voltages 1 kV and 3 kV	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)
16	ETD 20(21593)	ELECTRICAL INSTALLATIONS IN SHIPS PART 370: GUIDANCE ON THE SELECTION OF CABLES FOR TELECOMMUNICATION AND DATA TRANSFER INCLUDING RADIO-FREQUENCY CABLES	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)
17	ETD 20(21595)	ELECTRICAL INSTALLATIONS IN SHIPS Part 376: Cables for control and instrumentation circuits 150250 V 300 V	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)

18	ETD 20(21596)	ELECTRICAL INSTALLATION IN SHIPS PART 4 INSTALLATION AND TEST OF COMPLETED INSTALLATION - SPECIFICATION First Revision	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)
19	ETD 20(21597)	ELECTRICAL INSTALLATIONS IN SHIPS SPECIFICATION PART 5 SPECIAL FEATURES Section 1 Electric propulsion plant	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)
20	ETD 20(21598)	ELECTRICAL INSTALLATIONS IN SHIPS SPECIFICATION PART 5 SPECIAL FEATURES Section 2 Tankers	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)
21	ETD 20(21599)	ELECTRICAL INSTALLATIONS IN SHIPS SPECIFICATION PART 5 SPECIAL FEATURES Section 3 AC supply systems with voltages in the range of above 1 kV upto and including 36 kV First Revision	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)
22	ETD 20(21600)	ELECTRICAL INSTALLATIONS IN SHIPS Part 504: Automation control and instrumentation	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)
23	ETD 25(19161)	Lifts for the transport of persons and goods: Part 7 Lifts for special applications Section 1 Lifts used in Under-Construction Buildings	ISO TC- 178 (P)
24	ETD 25(19681)	Lifts for the transport of persons and goods: Part 20 Dumbwaiters - Specifications and safety rules for planning installation operation and maintenance	ISO TC- 178 (P)
25	ETD 25(19682)	Lifts for the Transport of Persons and Goods: Part 4 Specifications for Control Devices Buttons Signals Indicators and Other Fittings	ISO TC- 178 (P)
26	ETD 25(19683)	Requirements of Lifts for Persons with Disabilities Second Revision	ISO TC- 178 (P)
27	ETD 28(21234)	Photovoltaic Devices Procedures for Temperature and Irradiance Corrections to Measured I-V Characteristics Second Revision	IEC TC-82 (P)
28	ETD 28(21235)	Photovoltaic Devices Part 1: Measurement of photovoltaic current-voltage characteristics Second Revision	IEC TC-82 (P)
29	ETD 28(21236)	Photovoltaic Devices Part 4: Photovoltaic reference devices Procedures for establishing calibration traceability first revision	IEC TC-82 (P)
30	ETD 28(21237)	Photovoltaic System Performance Part 1: Monitoring Second Revision	IEC TC-82 (P)

31	ETD 28(21238)	Photovoltaic System Power Conversion Equipment Design Qualification and Type Approval First Revision	IEC TC-82 (P)
32	ETD 28(21239)	Concentrator photovoltaic CPV modules and assemblies Design qualification and type approval Second Revision	IEC TC-82 (P)
33	ETD 28(21240)	Connectors for d.c. Application in Photovoltaic Systems Safety Requirements and Tests Amendment - 1	IEC TC-82 (P)
34	ETD 28(21241)	Photovoltaic Power Generating Systems EMC Requirements and Test Methods for Power Conversion Equipment Amendment - 1	IEC TC-82 (P)
35	ETD 22(20671)	Explosive atmospheres: Part 2 equipment protection by pressurized enclosure "P" (First Revision) Amendment - 1	IEC TC-31 (P); IEC TC- SC-31G (O); IEC TC- SC-31J (P)
36	ETD 22(20673)	Explosive atmospheres - Part 6: Equipment protection by liquid immersion "o" (Second Revision)	IEC TC-31 (P); IEC TC- SC-31G (O); IEC TC- SC-31J (P)
37	ETD 22(20674)	Explosive atmospheres - Part 7: Equipment protection by increased safety "e" (Second Revision)	IEC TC-31 (P); IEC TC- SC-31G (O); IEC TC- SC-31J (P)
38	ETD 22(20675)	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i" (First Revision) Amendment - 1	IEC TC-31 (P); IEC TC- SC-31G (O); IEC TC- SC-31J (P)
39	ETD 22(20676)	Explosive atmospheres - Part 18: Equipment protection by encapsulation "m" (Second Revision) Amendment - 1	IEC TC-31 (P); IEC TC- SC-31G (O); IEC TC- SC-31J (P)
40	ETD 22(20677)	Explosive atmospheres - Part 19: Equipment repair overhaul and reclamation (Second Revision)	IEC TC-31 (P); IEC TC- SC-31G (O); IEC TC- SC-31J (P)
41	ETD 22(20678)	Explosive atmospheres - Part 25: Intrinsically safe electrical systems (Second Revision)	IEC TC-31 (P); IEC TC- SC-31G (O); IEC TC- SC-31J (P)
42	ETD 22(20679)	Explosive atmospheres - Part 26: Equipment with Separation Elements or combined Levels of Protection Second Revision	IEC TC-31 (P); IEC TC- SC-31G (O); IEC TC- SC-31J (P)
43	ETD 22(20680)	Explosive atmospheres: Part 28 protection of equipment and transmission systems using optical radiation (First Revision) Amendment - 1	IEC TC-31 (P); IEC TC- SC-31G (O); IEC TC- SC-31J (P)
44	ETD 22(20681)	Explosive atmospheres Part 29 Gas detectors Section 1 Performance Requirements of Detectors for Flammable Gases Amendment - 1	IEC TC-31 (P); IEC TC- SC-31G (O); IEC TC- SC-31J (P)
45	ETD 22(20682)	Explosive atmospheres - Part 30-2: Electrical resistance trace heating - Application guide for design installation and maintenance First revision	IEC TC-31 (P); IEC TC- SC-31G (O); IEC TC- SC-31J (P)
46	ETD 22(20684)	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure t Second Revision	IEC TC-31 (P); IEC TC- SC-31G (O); IEC TC- SC-31J (P)

47	ETD 22(20686)	Explosive atmospheres - Part 20-1: Material characteristics for gas and vapour classification - Test methods and data	IEC TC-31 (P); IEC TC- SC-31G (O); IEC TC- SC-31J (P)
48	ETD 6(21546)	Dimensions of porcelain oil filled transformer bushings Rated 52 KV for medium polluted atmospheres	IEC TC- (P); IEC TC- 36A SC- 36A (O)
49	ETD 7(21504)	In - Cable control and protection device for mode 2 charging of electric road vehicles (Ic - Cpd) Amendment - 1	IEC TC-121 SC-121A (P); IEC TC-121 SC-121B (P); IEC TC-23 SC-23E (P)
50	ETD 7(21507)	Electrical accessories Circuit-breakers for overcurrent protection for household and similar installations Part 2: Circuit-breakers for AC and DC operation	IEC TC-121 SC-121A (P); IEC TC-121 SC-121B (P); IEC TC-23 SC-23E (P)
51	ETD 7(21510)	Low-voltage switchgear and control gear Part 6-1: Multiple function equipment Transfer switching equipment	IEC TC-121 SC-121A (P); IEC TC-121 SC-121B (P); IEC TC-23 SC-23E (P)
52	ETD 7(21514)	Low-voltage switchgear and control gear Part 6-2: Multiple function equipment Control and protective switching devices or equipment CPS	IEC TC-121 SC-121A (P); IEC TC-121 SC-121B (P); IEC TC-23 SC-23E (P)
53	ETD 7(21523)	Electrical installations of ships and mobile and fixed offshore units Part 1: Procedures for calculating short-circuit currents in three-phase ac	IEC TC-121 SC-121A (P); IEC TC-121 SC-121B (P); IEC TC-23 SC-23E (P)
54	ETD 7(21525)	Residual current-operated protective devices RCDs for household and similar use Electromagnetic compatibility	IEC TC-121 SC-121A (P); IEC TC-121 SC-121B (P); IEC TC-23 SC-23E (P)
55	ETD 7(21528)	Electrical accessories - Circuit-breakers for overcurrent protection for household and similar installations - Part 3: Circuit-breakers for DC operation	IEC TC-121 SC-121A (P); IEC TC-121 SC-121B (P); IEC TC-23 SC-23E (P)
56	ETD 7(21531)	Low-voltage switchgear and control gear assemblies Part 1: General rules	IEC TC-121 SC-121A (P); IEC TC-121 SC-121B (P); IEC TC-23 SC-23E (P)
57	ETD 7(21532)	Low-voltage switchgear and control gear assemblies Part 2: Power switchgear and control gear assemblies	IEC TC-121 SC-121A (P); IEC TC-121 SC-121B (P); IEC TC-23 SC-23E (P)
58	ETD 7(21534)	Low-voltage switchgear and control gear assemblies Part 7: Assemblies for specific applications such as marinas camping sites market squares electric vehicle charging stations	IEC TC-121 SC-121A (P); IEC TC-121 SC-121B (P); IEC TC-23 SC-23E (P)
59	ETD 8(21278)	HIGH-VOLTAGE SWITCHGEAR AND CONTROLGEAR PART 1 COMMON SPECIFICATIONS FOR ALTERNATING CURRENT SWITCHGEAR AND CONTROLGEAR	IEC TC- 17A SC- 17A (P); IEC TC- 17C SC- 17C (P); IEC TC-17 (O)
60	ETD 8(21451)	High-voltage switchgear and control gear Part 100 Alternating-current circuit-breakers	IEC TC- 17A SC- 17A (P); IEC TC- 17C SC- 17C (P); IEC TC-17 (O)
61	ETD 8(21471)	High-Voltage Switchgear and Control gear Part 101: Synthetic Testing	IEC TC- 17A SC- 17A (P); IEC TC- 17C SC- 17C (P); IEC TC-17 (O)

62	ETD 8(21473)	High-voltage switchgear and control gear Part 103: Alternating current switches for rated voltages above 1 kV up to and including 52 kV	IEC TC- 17A SC- 17A (P); IEC TC- 17C SC- 17C (P); IEC TC-17 (O)
63	ETD 8(21475)	High-voltage switchgear and control gear : Part 105 Alternating current switch-fuse combinations for rated voltages above 1 kV up to and including 52 kV	IEC TC- 17A SC- 17A (P); IEC TC- 17C SC- 17C (P); IEC TC-17 (O)
64	ETD 8(21477)	High-voltage switchgear and control gear Part 106: Alternating current contactors contactor-based controllers and motor starters	IEC TC- 17A SC- 17A (P); IEC TC- 17C SC- 17C (P); IEC TC-17 (O)
65	ETD 8(21478)	High-Voltage switchgear and Control gear: Part 109 Alternating-current series capacitor by-pass switches	IEC TC- 17A SC- 17A (P); IEC TC- 17C SC- 17C (P); IEC TC-17 (O)
66	ETD 8(21479)	High Voltage Switchgear and Control gear: Part 111 Automatic circuit reclosers for alternating current systems up to and including 38 kV	IEC TC- 17A SC- 17A (P); IEC TC- 17C SC- 17C (P); IEC TC-17 (O)
67	ETD 8(21481)	High-voltage switchgear and Control gear Part 200 AC metal-enclosed switchgear and Control-gear for rated voltages above 1 kV and up to and Including 52 kV	IEC TC- 17A SC- 17A (P); IEC TC- 17C SC- 17C (P); IEC TC-17 (O)
68	ETD 8(21482)	High-voltage switchgear and control-gear Part 203: AC gas-insulated metal-enclosed switchgear for rated voltages above 52 kV	IEC TC- 17A SC- 17A (P); IEC TC- 17C SC- 17C (P); IEC TC-17 (O)
69	ETD 9(16628)	Recommended Current Ratings for Cables Part 3 Rubber Insulated Cables	IEC TC-20 (P)
70	ETD 9(21545)	Specification for drums for electric cables	IEC TC-20 (P)
71	ETD 9(21550)	SPECIFICATION FOR FLEXIBLE CABLES FOR MINERS CAP-LAMPS	IEC TC-20 (P)
72	ETD 9(21551)	RECOMMENDED SHORT-CIRCUIT RATINGS OF HIGH VOLTAGE PVC CABLES	IEC TC-20 (P)
73	ETD 9(21552)	SPECIFICATION FOR SHOT FIRING CABLES FOR USE OTHER THAN IN SHAFTS	IEC TC-20 (P)
74	ETD 9(21553)	SPECIFICATION FOR ELASTOMERIC INSULATION AND SHEATH OF ELECTRIC CABLES	IEC TC-20 (P)
75	ETD 9(21556)	DIMENSIONS FOR MOULDS FOR CAST RESIN BASED INDOOR TERMINATIONS FOR CABLES FOR WORKING VOLTAGES FROM 33 kV UP TO AND INCLUDING 11 kV	IEC TC-20 (P)
76	ETD 9(21188)	Specification for Thermosetting Insulated Fire Survival Cables for Fixed Installation having Low Emission of Smoke and Corrosive Gases when Affected by Fire for Working Voltages upto and including 1100 Vac and 1500 Vdc Amendment - 1	IEC TC-20 (P)
77	ETD 11(18838)	Lead acid storage batteries for motor vehicles - Valve regulated type Amendment - 1	IEC TC-21 (P); IEC TC- SC-21A (P)

78	ETD 11(21547)	STATIONARY LEAD-ACID BATTERIES WITH TUBULAR POSITIVE PLATES IN MONOBLOC CONTAINER SPECIFICATION	IEC TC-21 (P); IEC TC- SC-21A (P)
79	ETD 11(21558)	Stationary Batteries Lead-Acid Type with Pasted Positive Plates Specification Third Revision	IEC TC-21 (P); IEC TC- SC-21A (P)
80	ETD 18(21367)	SAFETY IN INSTALLATIONS FOR ELECTROHEATING AND ELECTROMAGNETIC PROCESSING - PART 1: GENERAL REQUIREMENTS	IEC TC- (P); IEC TC- 65 A SC- 65 A (P); IEC TC- 65 B SC- 65 B (P); IEC TC- (O)
81	ETD 18(21372)	SAFETY IN ELECTROHEAT INSTALLATIONS - PART 3: PARTICULAR REQUIREMENTS FOR INDUCTION AND CONDUCTION HEATING AND INDUCTION MELTING INSTALLATIONS	IEC TC- (P); IEC TC- 65 A SC- 65 A (P); IEC TC- 65 B SC- 65 B (P); IEC TC- (O)
82	ETD 18(21373)	INDUSTRIAL-PROCESS MEASUREMENT AND CONTROL - PROGRAMMABLE CONTROLLERS - PART 2: EQUIPMENT REQUIREMENTS AND TESTS	IEC TC- (P); IEC TC- 65 A SC- 65 A (P); IEC TC- 65 B SC- 65 B (P); IEC TC- (O)
83	ETD 18(21374)	HIGH-FREQUENCY DIELECTRIC HEATING INSTALLATIONS - TEST METHODS FOR THE DETERMINATION OF POWER OUTPUT	IEC TC- (P); IEC TC- 65 A SC- 65 A (P); IEC TC- 65 B SC- 65 B (P); IEC TC- (O)
84	ETD 18(21375)	SAFETY IN INSTALLATIONS FOR ELECTROHEATING AND ELECTROMAGNETIC PROCESSING - PART 6: PARTICULAR REQUIREMENTS FOR HIGH FREQUENCY DIELECTRIC AND MICROWAVE HEATING AND PROCESSING EQUIPMENT	IEC TC- (P); IEC TC- 65 A SC- 65 A (P); IEC TC- 65 B SC- 65 B (P); IEC TC- (O)
85	ETD 18(21376)	INDUSTRIAL PLATINUM RESISTANCE THERMOMETERS AND PLATINUM TEMPERATURE SENSORS	IEC TC- (P); IEC TC- 65 A SC- 65 A (P); IEC TC- 65 B SC- 65 B (P); IEC TC- (O)
86	ETD 18(21377)	THERMOCOUPLES - PART 3: EXTENSION AND COMPENSATING CABLES - TOLERANCES AND IDENTIFICATION SYSTEM	IEC TC- (P); IEC TC- 65 A SC- 65 A (P); IEC TC- 65 B SC- 65 B (P); IEC TC- (O)
87	ETD 51(21658)	Electric Vehicle Conductive Charging Systems Part 30 Dual Gun dc Electric Vehicle Supply Equipment	IEC TC-69 (P)
88	ETD 51(21660)	ELECTRIC VEHICLE CONDUCTIVE CHARGING SYSTEM Part 31: ac or dc EV supply equipment for where protection relies on electrical separation	IEC TC-69 (P)
89	ETD 51(19223)	Plugs Socket-Outlets Vehicle Connectors and Vehicle Inlets Conductive Charging of Electric Vehicles Part 2 Plugs Socket Outlets Vehicle Connectors and Vehicle Inlets Section 7-Dimensional compatibility and interchangeability requirements for ac	IEC TC-69 (P)

90	ETD 14(15900)	PLUGS AND SOCKET-OUTLETS FOR HOUSEHOLD AND SIMILAR PURPOSES PART 2 PARTICULAR REQUIREMENTS SECTION 5 ADAPTORS	IEC TC- (O); IEC TC- 23A SC- 23A (O); IEC TC- 23B SC- 23B (P); IEC TC- 23E SC- 23E (P); IEC TC- 23G SC- 23G (O); IEC TC- 23H SC- 23H (O); IEC TC- 23J SC- 23J (O); IEC TC- 34B SC- 34B (P)
91	ETD 14(21251)	Switched Socket-Outlets Without Interlock for Fixed Installations- Particular Requirements	IEC TC- (O); IEC TC- 23A SC- 23A (O); IEC TC- 23B SC- 23B (P); IEC TC- 23E SC- 23E (P); IEC TC- 23G SC- 23G (O); IEC TC- 23H SC- 23H (O); IEC TC- 23J SC- 23J (O); IEC TC- 34B SC- 34B (P)
92	ETD 14(21252)	TIME-DELAY SWITCHES TDS FOR HOUSEHOLD AND SIMILAR FIXED ELECTRICAL INSTALLATIONS - PARTICULAR REQUIREMENTS	IEC TC- (O); IEC TC- 23A SC- 23A (O); IEC TC- 23B SC- 23B (P); IEC TC- 23E SC- 23E (P); IEC TC- 23G SC- 23G (O); IEC TC- 23H SC- 23H (O); IEC TC- 23J SC- 23J (O); IEC TC- 34B SC- 34B (P)
93	ETD 14(21089)	Switches for household and Similar fixed electrical installations Part 2-1: particular requirements electronic control devices	IEC TC- (O); IEC TC- 23A SC- 23A (O); IEC TC- 23B SC- 23B (P); IEC TC- 23E SC- 23E (P); IEC TC- 23G SC- 23G (O); IEC TC- 23H SC- 23H (O); IEC TC- 23J SC- 23J (O); IEC TC- 34B SC- 34B (P)
94	ETD 14(21090)	Plugs and socket-outlets for household and similar purposes Part 3-1: particular requirements for socket-outlets Incorporating USB power supply	IEC TC- (O); IEC TC- 23A SC- 23A (O); IEC TC- 23B SC- 23B (P); IEC TC- 23E SC- 23E (P); IEC TC- 23G SC- 23G (O); IEC TC- 23H SC- 23H (O); IEC TC- 23J SC- 23J (O); IEC TC- 34B SC- 34B (P)
95	ETD 14(21091)	Cable Trunking Systems and Cable Ducting Systems for Electrical Installations Part 1: General Requirements first revision	IEC TC- (O); IEC TC- 23A SC- 23A (O); IEC TC- 23B SC- 23B (P); IEC TC- 23E SC- 23E (P); IEC TC- 23G SC- 23G (O); IEC TC- 23H SC- 23H (O); IEC TC- 23J SC- 23J (O); IEC TC- 34B SC- 34B (P)

96	ETD 14(21092)	Cable trunking systems and cable ducting Systems for electrical installations Part 2-1: particular requirements cable trunking systems and cable Ducting systems intended for mounting on walls and ceilings first revision	IEC TC- (O); IEC TC- 23A SC- 23A (O); IEC TC- 23B SC- 23B (P); IEC TC- 23E SC- 23E (P); IEC TC- 23G SC- 23G (O); IEC TC- 23H SC- 23H (O); IEC TC- 23J SC- 23J (O); IEC TC- 34B SC- 34B (P)
97	ETD 15(21165)	Hydraulic Turbines Storage Pumps and Pump-Turbines - Model Acceptance Tests	IEC TC- (P); ISO TC-43 SC-1 (O)
98	ETD 15(21169)	Carbon Brushes Brush Holders Commutators and Slip-Rings Definitions and Nomenclature	IEC TC- (P); ISO TC-43 SC-1 (O)
99	ETD 15(21170)	Rotating Electrical Machines Part 20-1: Control Motors Stepping Motors	IEC TC- (P); ISO TC-43 SC-1 (O)
100	ETD 15(21171)	Acoustics Test Code for the Measurement of Airborne Noise Emitted by Rotating Electrical Machines	IEC TC- (P); ISO TC-43 SC-1 (O)
101	ETD 15(21172)	Rotating Electrical Machines Part 2-1: Standard Methods for Determining Losses and Efficiency from Tests Excluding Machines for Traction Vehicles	IEC TC- (P); ISO TC-43 SC-1 (O)
102	ETD 15(21175)	Hand-Held Motor-Operated Electric Tools Safety Part 1: General requirements Second Revision	IEC TC- (P); ISO TC-43 SC-1 (O)
103	ETD 15(21176)	Hand-Held Motor-Operated Electric Tools Safety Part 2 Particular requirements Section 1 drills and impact drills	IEC TC- (P); ISO TC-43 SC-1 (O)
104	ETD 15(21177)	Hand-held motor-operated electric tools - Safety - Part 2 Particular requirements Section 2 screwdrivers and impact wrenches	IEC TC- (P); ISO TC-43 SC-1 (O)
105	ETD 15(21178)	Hand-held motor-operated electric tools - Safety Part 2 Particular requirements Section 3 grinders polishers and disk-type sanders	IEC TC- (P); ISO TC-43 SC-1 (O)
106	ETD 15(21179)	Hand-Held Motor-Operated Electric Tools Safety Part 2 Particular Requirements Section 5 Circular Saws	IEC TC- (P); ISO TC-43 SC-1 (O)
107	ETD 15(21180)	Hand-Held Motor-Operated Electric Tools - Safety Part 2 Particular Requirements Section 6 Hammers	IEC TC- (P); ISO TC-43 SC-1 (O)
108	ETD 15(21181)	Safety of Hand-Held Motor-Operated Electric Tools Part 2 Particular Requirements Section 7 Spray Guns for Non-Flammable Liquids	IEC TC- (P); ISO TC-43 SC-1 (O)
109	ETD 16(20725)	Power transformers: Part 16 transformers for wind turbine applications	IEC TC- 14 (P); IEC TC- 96 (P)
https://www.services.bis.gov.in/php/BIS_2.0/dgdashboard/draft/darftdetail/65/3/ETD			

ICT/LITD

The following Draft Indian Standards were issued by Electronics and Information Technology division council (LTD) of BIS for eliciting technical comments:

Electronics and Information Technology Department (LITD)			
S. No.	Document No	Title of the Doc	IEC/ISO
1	LITD 1(21253)	Basic environmental testing procedures Part 2 Tests Test XA and guidance Sec 45 Immersion in cleaning solvents	IEC TC- 89 SC- (O); IEC TC-104 (P)
2	LITD 1(21277)	Basic Environmental Testing Procedures Part 2: Tests - Test Ga and Guidance Section 7: Acceleration Steady State	IEC TC- 89 SC- (O); IEC TC-104 (P)
3	LITD 1(21535)	Environmental Testing Part 2: Tests - Test B Section 2: Dry Heat	IEC TC- 89 SC- (O); IEC TC-104 (P)
4	LITD 3(21495)	Environmental testing - Part 2 Tests Section 42 Test Kc: Sulphur dioxide test for contacts and connections	IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O); IEC TC-48 (O)
5	LITD 15(18260)	Information technology Digital publishing EPUB 3.0.1 Part 2: Publications	ISO/IEC/JTC1 TC- 22 SC- 22 (O); ISO/IEC/JTC1 TC- 32 SC- 32 (P); ISO/IEC/JTC1 TC- 34 SC- 34 (P)
6	LITD 15(21259)	Information technology -- Programming languages their environments and system software interfaces -- Programming language COBOL	ISO/IEC/JTC1 TC- 22 SC- 22 (O); ISO/IEC/JTC1 TC- 32 SC- 32 (P); ISO/IEC/JTC1 TC- 34 SC- 34 (P)
7	LITD 27(20029)	Information technology Open Connectivity Foundation OCF Specification Part 1: Core specification	ISO/IEC/JTC1 TC- 41 SC- 41 (P)
8	LITD 27(20031)	Information technology Open Connectivity Foundation OCF Specification Part 2: Security specification	ISO/IEC/JTC1 TC- 41 SC- 41 (P)
9	LITD 27(20032)	Information technology Open Connectivity Foundation OCF Specification Part 3: Bridging specification	ISO/IEC/JTC1 TC- 41 SC- 41 (P)
10	LITD 27(20033)	Information technology Open Connectivity Foundation OCF Specification Part 4: Resource type specification	ISO/IEC/JTC1 TC- 41 SC- 41 (P)
11	LITD 27(20034)	Information technology Open Connectivity Foundation OCF Specification Part 5: OCF device specification	ISO/IEC/JTC1 TC- 41 SC- 41 (P)
12	LITD 27(20035)	Information technology Open Connectivity Foundation OCF Specification Part 6: Resource to AllJoyn interface mapping specification	ISO/IEC/JTC1 TC- 41 SC- 41 (P)

13	LITD 27(20036)	Information technology Open Connectivity Foundation OCF Specification Part 7: Wi-Fi easy setup specification	ISO/IEC/JTC1 TC- 41 SC- 41 (P)
14	LITD 27(20037)	Information technology Open Connectivity Foundation OCF Specification Part 8: OCF resource to oneM2M resource mapping specification	ISO/IEC/JTC1 TC- 41 SC- 41 (P)
15	LITD 27(20038)	Information technology Open Connectivity Foundation OCF Specification Part 9: Core optional specification	ISO/IEC/JTC1 TC- 41 SC- 41 (P)
16	LITD 27(20039)	Information technology Open Connectivity Foundation OCF Specification Part 10: Cloud API for cloud services specification	ISO/IEC/JTC1 TC- 41 SC- 41 (P)
17	LITD 27(20040)	Information technology Open Connectivity Foundation OCF Specification Part 11: Device to cloud services specification	ISO/IEC/JTC1 TC- 41 SC- 41 (P)
18	LITD 27(20041)	Information technology Open Connectivity Foundation OCF Specification Part 12: Cloud security specification	ISO/IEC/JTC1 TC- 41 SC- 41 (P)
19	LITD 27(20042)	Information technology Open Connectivity Foundation OCF Specification Part 13: Onboarding tool specification	ISO/IEC/JTC1 TC- 41 SC- 41 (P)
20	LITD 27(20043)	Information technology Open Connectivity Foundation OCF Specification Part 14: OCF resource to BLE mapping specification	ISO/IEC/JTC1 TC- 41 SC- 41 (P)
21	LITD 27(20045)	Information technology Open Connectivity Foundation OCF Specification Part 15: OCF resource to EnOcean mapping specification	ISO/IEC/JTC1 TC- 41 SC- 41 (P)
22	LITD 27(20047)	Information technology Open Connectivity Foundation OCF Specification Part 16: OCF resource to UPlus mapping specification	ISO/IEC/JTC1 TC- 41 SC- 41 (P)
23	LITD 27(20048)	Information technology Open Connectivity Foundation OCF Specification Part 17: OCF resource to Zigbee cluster mapping specification	ISO/IEC/JTC1 TC- 41 SC- 41 (P)
24	LITD 27(20049)	Information technology Open Connectivity Foundation OCF Specification Part 18: OCF resource to Z-wave mapping specification	ISO/IEC/JTC1 TC- 41 SC- 41 (P)
25	LITD 29(20727)	Blockchain and distributed ledger technologies Taxonomy and Ontology	ISO TC-ISO TC 307 (P)

26	LITD 29(20728)	Blockchain and distributed ledger technologies Reference Architecture	ISO TC-ISO TC 307 (P)
27	LITD 29(20729)	Blockchain and distributed ledger technologies — Overview of existing DLT systems for identity management	ISO TC-ISO TC 307 (P)
28	LITD 29(20730)	Blockchain and distributed ledger technologies Guidelines for governance	ISO TC-ISO TC 307 (P)
29	LITD 29(20731)	Blockchain and distributed ledger technologies — Use cases	ISO TC-ISO TC 307 (P)
30	LITD 30(20707)	Information technology Artificial intelligence Process management framework for big data analytics	ISO/IEC TC-JTC 1 SC-SC 42 (P)
31	LITD 30(20716)	Information technology Artificial intelligence Artificial intelligence concepts and terminology	ISO/IEC TC-JTC 1 SC-SC 42 (P)
32	LITD 30(20717)	Framework for Artificial Intelligence AI Systems Using Machine Learning ML	ISO/IEC TC-JTC 1 SC-SC 42 (P)
33	LITD 30(21245)	Information Technology Artificial Intelligence Overview of Ethical and Societal Concerns	ISO/IEC TC-JTC 1 SC-SC 42 (P)
34	LITD 36(20589)	Information Technology - 130 mm Rewritable Optical Disk Cartridge for Information Interchange	ISO/IEC/JTC1 TC- SC-23 (P); ISO/IEC/JTC1 TC- SC-28 (P); ISO/IEC/JTC1 TC- SC-35 (P)
35	LITD 36(20616)	Information Processing - Magnetic Tape Cassette and Cartridge Labelling and File Structure for Information Interchange	ISO/IEC/JTC1 TC- SC-23 (P); ISO/IEC/JTC1 TC- SC-28 (P); ISO/IEC/JTC1 TC- SC-35 (P)
36	LITD 36(20617)	Information Processing - Volume and File Structure Of CD - ROM for Information Interchange	ISO/IEC/JTC1 TC- SC-23 (P); ISO/IEC/JTC1 TC- SC-28 (P); ISO/IEC/JTC1 TC- SC-35 (P)
37	LITD 36(20619)	File Structure and Labelling of Flexible Disk Cartridges for Information Interchange	ISO/IEC/JTC1 TC- SC-23 (P); ISO/IEC/JTC1 TC- SC-28 (P); ISO/IEC/JTC1 TC- SC-35 (P)
38	LITD 1(20474)	Environmental testing Part 2: Tests Section 68 Test L: Dust and sand	IEC TC- 89 SC- (O); IEC TC-104 (P)

39	LITD 7(20422)	Digital Television Receiver for Satellite Broadcast Transmission Specification	ISO TC-43 SC-1 (O); IEC TC-29 (P); IEC TC-108 (P); IEC TC-100 (P)
40	LITD 7(20499)	UNIVERSAL SERIAL BUS INTERFACES FOR DATA AND POWER PART 1-2: COMMON COMPONENTS USB POWER DELIVERY SPECIFICATION	ISO TC-43 SC-1 (O); IEC TC-29 (P); IEC TC-108 (P); IEC TC-100 (P)
41	LITD 7(20500)	UNIVERSAL SERIAL BUS INTERFACES FOR DATA AND POWER PART 1-3: COMMON COMPONENTS USB TYPE-C CABLE AND CONNECTOR SPECIFICATION	ISO TC-43 SC-1 (O); IEC TC-29 (P); IEC TC-108 (P); IEC TC-100 (P)
42	LITD 17(20436)	Information security cybersecurity and privacy protection Information security management systems Requirements	ISO/IEC TC-JTC 1 SC-27 (P); ISO/IEC/JTC1 TC-WG SC-13 (P)
43	LITD 26(20696)	Video Surveillance Systems for Use in Security Applications Part 5 Data Specifications and Image Quality Performance for Camera Devices Amendment - 1	IEC TC- 79 SC- (P)
https://www.services.bis.gov.in/php/BIS_2.0/dgdashboard/draft/darftdetail/66/3/LITD			

Smart City/Civil Department (CED)

The following Draft Indian Standards were issued by CED 59-Smart Cities Sectional Committee of Civil engineering division council at BIS during the last quarter for eliciting technical comment:

Smart Cities			
S. No.	Document No	Title of the Doc	IEC/ISO
1	CED 59(21289)	Smart Community Infrastructures — Smart Transportation for Compact Cities — Guidelines	ISO TC- 268 (P); ISO TC- 1 SC- 1 (P); ISO TC-268 SC-2 (P)
2	CED 59(21650)	Smart Community Infrastructures Smart Transportation for Rapid Transit in and between Large City Zones and their Surrounding Areas Guidelines	ISO TC- 268 (P); ISO TC- 1 SC- 1 (P); ISO TC-268 SC-2 (P)
https://www.services.bis.gov.in/php/BIS_2.0/dgdashboard/draft/darftdetail/63/3/CED			

Service Sector Department

The following Draft Indian Standards were issued by SSD of BIS during the last quarter for eliciting technical comment:

Services			
S. No.	Document No	Title of the Doc	IEC/ISO
1	SSD 19(18925)	SERVICES - GLOSSARY OF TERMS	--
2	SSD-I 9(20698)	Online Consumer Reviews Principles and Requirements for their Collection Moderation and Publication	ISO TC-312 (P); ISO TC-324 (P)
3	SSD-II 14(20621)	REQUIREMENTS FOR DISASTER MANAGEMENT SYSTEM IN DRINKING WATER SERVICES	--
4	SSD-II 14(20622)	SERVICE ACTIVITIES RELATING TO DRINKING WATER SUPPLY WASTEWATER AND STORMWATER SYSTEMS VOCABULARY	--
https://www.services.bis.gov.in/php/BIS_2.0/dgdashboard/draft/darftdetail/107/3/SSD-I			
https://www.services.bis.gov.in/php/BIS_2.0/dgdashboard/draft/darftdetail/108/3/SSD-II			

Mobility/Transport (TED)

The following Draft Indian Standards were issued by Transport engineering division council at BIS during the last quarter for eliciting technical comment:

Transport Engineering Department (TED)			
S. No.	Document No	Title of the Doc	IEC/ISO
1	TED 7(21198)	AUTOMOTIVE VEHICLES RIMS GENERAL REQUIREMENTS PART 1 NOMENCLATURE DESIGNATION MARKING AND MEASUREMENT	ISO TC- 22 (P); ISO TC- 19 SC- 19 (O); ISO TC- 31 (P); ISO TC- 3 SC- 3 (P); ISO TC- 34 SC- 34 (P); ISO TC- 5 SC- 5 (O); ISO TC- 6 SC- 6 (O); ISO TC- 7 SC- 7 (O); ISO TC- 9 SC- 9 (P); ISO TC- 10 SC- 10 (P)
2	TED 7(21265)	ANIMAL DRAWN VEHICLES PNEUMATIC TYRES SPECIFICATION	ISO TC- 22 (P); ISO TC- 19 SC- 19 (O); ISO TC- 31 (P); ISO TC- 3 SC- 3 (P); ISO TC- 34 SC- 34 (P); ISO TC- 5 SC- 5 (O); ISO TC- 6 SC- 6 (O); ISO TC- 7 SC- 7 (O); ISO TC- 9 SC- 9 (P); ISO TC- 10 SC- 10 (P)

3	TED 7(20722)	TUBELESS TYRES VALVES AND COMPONENTS PART 2: CLAMP-IN TUBELESS TYRE VALVE-TEST METHOD	ISO TC- 22 (P); ISO TC- 19 SC- 19 (O); ISO TC- 31 (P); ISO TC- 3 SC- 3 (P); ISO TC- 34 SC- 34 (P); ISO TC- 5 SC- 5 (O); ISO TC- 6 SC- 6 (O); ISO TC- 7 SC- 7 (O); ISO TC- 9 SC- 9 (P); ISO TC- 10 SC- 10 (P)
4	TED 7(21145)	Automotive vehicles - Pneumatic tyres for commercial vehicles - Diagonal and radial ply Amendment - 1	ISO TC- 22 (P); ISO TC- 19 SC- 19 (O); ISO TC- 31 (P); ISO TC- 3 SC- 3 (P); ISO TC- 34 SC- 34 (P); ISO TC- 5 SC- 5 (O); ISO TC- 6 SC- 6 (O); ISO TC- 7 SC- 7 (O); ISO TC- 9 SC- 9 (P); ISO TC- 10 SC- 10 (P)
5	TED 7(21146)	Automotive Vehicles — Pneumatic Tyres for Two and Three-Wheeled Motor Vehicles, Quadricycles and E-Rickshaw/E-Carts — Specification	ISO TC- 22 (P); ISO TC- 19 SC- 19 (O); ISO TC- 31 (P); ISO TC- 3 SC- 3 (P); ISO TC- 34 SC- 34 (P); ISO TC- 5 SC- 5 (O); ISO TC- 6 SC- 6 (O); ISO TC- 7 SC- 7 (O); ISO TC- 9 SC- 9 (P); ISO TC- 10 SC- 10 (P)
6	TED 14(21266)	Aerospace - Lead and Runout Threads: Part 2 Internal Threads	ISO TC- 20 (O); ISO TC- 31 (P); ISO TC- 192 (P; ISO TC-20 SC-1 (P); ISO TC-20 SC-4 (P); ISO TC-20 SC-6 (O); ISO TC-20 SC-8 (P); ISO TC-20 SC-9 (O); ISO TC-20 SC-10 (P); ISO TC-20 SC-13 (P); ISO TC-20 SC-14 (P); ISO TC-31 SC-8 (O)

7	TED 14(21268)	Aircraft Ground Equipment - Basic Requirements: Part 2 Safety Requirements	ISO TC- 20 (O); ISO TC- 31 (P); ISO TC- 192 (P; ISO TC-20 SC-1 (P); ISO TC-20 SC-4 (P); ISO TC-20 SC-6 (O); ISO TC-20 SC-8 (P); ISO TC-20 SC-9 (O); ISO TC-20 SC-10 (P); ISO TC-20 SC-13 (P); ISO TC-20 SC-14 (P); ISO TC-31 SC-8 (O)
8	TED 14(21269)	Aerospace - Bolts Normal Bihexagonal Head Normal Shank Short or Medium Length Mj Threads Metallic Material Coated or Uncoated Strength Classes Less Than Or Equal To 1 100 Mpa -Dimensions	ISO TC- 20 (O); ISO TC- 31 (P); ISO TC- 192 (P; ISO TC-20 SC-1 (P); ISO TC-20 SC-4 (P); ISO TC-20 SC-6 (O); ISO TC-20 SC-8 (P); ISO TC-20 SC-9 (O); ISO TC-20 SC-10 (P); ISO TC-20 SC-13 (P); ISO TC-20 SC-14 (P); ISO TC-31 SC-8 (O)
9	TED 14(21271)	Aerospace - Nuts - Tolerances of Form and Position	ISO TC- 20 (O); ISO TC- 31 (P); ISO TC- 192 (P; ISO TC-20 SC-1 (P); ISO TC-20 SC-4 (P); ISO TC-20 SC-6 (O); ISO TC-20 SC-8 (P); ISO TC-20 SC-9 (O); ISO TC-20 SC-10 (P); ISO TC-20 SC-13 (P); ISO TC-20 SC-14 (P); ISO TC-31 SC-8 (O)
10	TED 14(21273)	Safety Features for Ground Power Units for Direct Current Aircraft Servicing And Engine Starting	ISO TC- 20 (O); ISO TC- 31 (P); ISO TC- 192 (P; ISO TC-20 SC-1 (P); ISO TC-20 SC-4 (P); ISO TC-20 SC-6 (O); ISO TC-20 SC-8 (P); ISO TC-20 SC-9 (O); ISO TC-20 SC-10 (P); ISO TC-20 SC-13 (P); ISO TC-20 SC-14 (P); ISO TC-31 SC-8 (O)

11	TED 14(21274)	Aerospace - Screws 100 Normal Countersunk Head Internal Offset Cruciform Ribbed Drive Normal Shank Short or Medium Length MJ Threads Metallic Material Coated or Uncoated Strength Classes Less Than Or Equal To 1 100 MPa - Dimensions	ISO TC- 20 (O); ISO TC- 31 (P); ISO TC- 192 (P; ISO TC-20 SC-1 (P); ISO TC-20 SC-4 (P); ISO TC-20 SC-6 (O); ISO TC-20 SC-8 (P); ISO TC-20 SC-9 (O); ISO TC-20 SC-10 (P); ISO TC-20 SC-13 (P); ISO TC-20 SC-14 (P); ISO TC-31 SC-8 (O)
12	TED 14(20723)	AEROSPACE - LEAD AND RUNOUT THREADS: PART 1 ROLLED EXTERNAL THREADS	ISO TC- 20 (O); ISO TC- 31 (P); ISO TC- 192 (P; ISO TC-20 SC-1 (P); ISO TC-20 SC-4 (P); ISO TC-20 SC-6 (O); ISO TC-20 SC-8 (P); ISO TC-20 SC-9 (O); ISO TC-20 SC-10 (P); ISO TC-20 SC-13 (P); ISO TC-20 SC-14 (P); ISO TC-31 SC-8 (O)
13	TED 4(20200)	METHOD OF DETERMINATION OF CENTRE OF GRAVITY OF AUTOMOTIVE VEHICLES	ISO TC- 22 SC- 22 (P); ISO TC- 22 (P); ISO TC-22 SC-2 (O); ISO TC-22 SC-9 (O); ISO TC-22 SC-13 (O); ISO TC-22 SC-33 (O); ISO TC-22 SC-38 (P); ISO TC-22 SC-39 (O)
14	TED 4(20201)	AUTOMOTIVE VEHICLES INTEGRAL POWER STEERING GEAR METHOD OF TEST	ISO TC- 22 SC- 22 (P); ISO TC- 22 (P); ISO TC-22 SC-2 (O); ISO TC-22 SC-9 (O); ISO TC-22 SC-13 (O); ISO TC-22 SC-33 (O); ISO TC-22 SC-38 (P); ISO TC-22 SC-39 (O)
15	TED 4(20385)	METHOD OF EVALUATION OF ACCELERATION OF AUTOMOTIVE VEHICLE	ISO TC- 22 SC- 22 (P); ISO TC- 22 (P); ISO TC-22 SC-2 (O); ISO TC-22 SC-9 (O); ISO TC-22 SC-13 (O); ISO TC-22 SC-33 (O); ISO TC-22 SC-38 (P); ISO TC-22 SC-39 (O)

16	TED 4(20393)	METHOD OF RECORDING DUST INGRESS IN AUTOMOTIVE VEHICLES	ISO TC- 22 SC- 22 (P); ISO TC- 22 (P); ISO TC-22 SC-2 (O); ISO TC-22 SC-9 (O); ISO TC-22 SC-13 (O); ISO TC-22 SC-33 (O); ISO TC-22 SC-38 (P); ISO TC-22 SC-39 (O)
17	TED 4(20402)	Automotive vehicles - Passenger cars verification of drivers direct field of view Part 2 Method of test	ISO TC- 22 SC- 22 (P); ISO TC- 22 (P); ISO TC-22 SC-2 (O); ISO TC-22 SC-9 (O); ISO TC-22 SC-13 (O); ISO TC-22 SC-33 (O); ISO TC-22 SC-38 (P); ISO TC-22 SC-39 (O)
18	TED 4(20404)	Automotive Vehicles - Passenger Cars - Verification of Drivers Direct Field of View - Part 1 : Vehicle Positioning for Static Measurement	ISO TC- 22 SC- 22 (P); ISO TC- 22 (P); ISO TC-22 SC-2 (O); ISO TC-22 SC-9 (O); ISO TC-22 SC-13 (O); ISO TC-22 SC-33 (O); ISO TC-22 SC-38 (P); ISO TC-22 SC-39 (O)
19	TED 4(20201)	AUTOMOTIVE VEHICLES INTEGRAL POWER STEERING GEAR METHOD OF TEST	ISO TC- 22 SC- 22 (P); ISO TC- 22 (P); ISO TC-22 SC-2 (O); ISO TC-22 SC-9 (O); ISO TC-22 SC-13 (O); ISO TC-22 SC-33 (O); ISO TC-22 SC-38 (P); ISO TC-22 SC-39 (O)
20	TED 4(20385)	METHOD OF EVALUATION OF ACCELERATION OF AUTOMOTIVE VEHICLE	ISO TC- 22 SC- 22 (P); ISO TC- 22 (P); ISO TC-22 SC-2 (O); ISO TC-22 SC-9 (O); ISO TC-22 SC-13 (O); ISO TC-22 SC-33 (O); ISO TC-22 SC-38 (P); ISO TC-22 SC-39 (O)

21	TED 4(20390)	METHOD OF WEIGHTMENT OF AUTOMOTIVE VEHICLES	ISO TC- 22 SC- 22 (P); ISO TC- 22 (P); ISO TC-22 SC-2 (O); ISO TC-22 SC-9 (O); ISO TC-22 SC-13 (O); ISO TC-22 SC-33 (O); ISO TC-22 SC-38 (P); ISO TC-22 SC-39 (O)
22	TED 4(20391)	PROCEDURE FOR SPLASH PROOF TESTING OF AUTOMOTIVE VEHICLES	ISO TC- 22 SC- 22 (P); ISO TC- 22 (P); ISO TC-22 SC-2 (O); ISO TC-22 SC-9 (O); ISO TC-22 SC-13 (O); ISO TC-22 SC-33 (O); ISO TC-22 SC-38 (P); ISO TC-22 SC-39 (O)
23	TED 4(20402)	Automotive vehicles - Passenger cars verification of drivers direct field of view Part 2 Method of test	ISO TC- 22 SC- 22 (P); ISO TC- 22 (P); ISO TC-22 SC-2 (O); ISO TC-22 SC-9 (O); ISO TC-22 SC-13 (O); ISO TC-22 SC-33 (O); ISO TC-22 SC-38 (P); ISO TC-22 SC-39 (O)
24	TED 4(20404)	Automotive Vehicles - Passenger Cars - Verification of Drivers Direct Field of View - Part 1 : Vehicle Positioning for Static Measurement	ISO TC- 22 SC- 22 (P); ISO TC- 22 (P); ISO TC-22 SC-2 (O); ISO TC-22 SC-9 (O); ISO TC-22 SC-13 (O); ISO TC-22 SC-33 (O); ISO TC-22 SC-38 (P); ISO TC-22 SC-39 (O)
25	TED 6(19426)	Specification for footrest assembly for mopeds	ISO TC- 22 (P); ISO TC- 11 SC- 11 (P); ISO TC- 15 SC- 15 (O); ISO TC- 35 SC- 35 (P); ISO TC- 40 SC- 40 (O); ISO TC- 227 (P)
26	TED 6(19640)	Automotive Vehicles Strength of Superstructure of Large Passenger Vehicles	ISO TC- 22 (P); ISO TC- 11 SC- 11 (P); ISO TC- 15 SC- 15 (O); ISO TC- 35 SC- 35 (P); ISO TC- 40 SC- 40 (O); ISO TC- 227 (P)

27	TED 6(19957)	Specification of Handle bars for mopeds	ISO TC- 22 (P); ISO TC- 11 SC- 11 (P); ISO TC- 15 SC- 15 (O); ISO TC- 35 SC- 35 (P); ISO TC- 40 SC- 40 (O); ISO TC- 227 (P)
28	TED 6(19958)	Specification for moped seat pillars	ISO TC- 22 (P); ISO TC- 11 SC- 11 (P); ISO TC- 15 SC- 15 (O); ISO TC- 35 SC- 35 (P); ISO TC- 40 SC- 40 (O); ISO TC- 227 (P)
29	TED 6(20420)	MOPED SPOKES AND NIPPLES FOR SPOKES - SPECIFICATION	ISO TC- 22 (P); ISO TC- 11 SC- 11 (P); ISO TC- 15 SC- 15 (O); ISO TC- 35 SC- 35 (P); ISO TC- 40 SC- 40 (O); ISO TC- 227 (P)
30	TED 6(20425)	AUTOMOTIVE VEHICLES REGISTRATION PLATE REQUIREMENTS	ISO TC- 22 (P); ISO TC- 11 SC- 11 (P); ISO TC- 15 SC- 15 (O); ISO TC- 35 SC- 35 (P); ISO TC- 40 SC- 40 (O); ISO TC- 227 (P)
31	TED 6(20459)	Specification For Aircraft Fuel Servicing Vehicles	ISO TC- 22 (P); ISO TC- 11 SC- 11 (P); ISO TC- 15 SC- 15 (O); ISO TC- 35 SC- 35 (P); ISO TC- 40 SC- 40 (O); ISO TC- 227 (P)
32	TED 6(20473)	RECOMMENDATIONS FOR SAFETY REQUIREMENTS FOR FUEL TANK ASSEMBLY OF AUTOMOTIVE VEHICLES	ISO TC- 22 (P); ISO TC- 11 SC- 11 (P); ISO TC- 15 SC- 15 (O); ISO TC- 35 SC- 35 (P); ISO TC- 40 SC- 40 (O); ISO TC- 227 (P)
33	TED 22(18937)	GLOSSARY OF TERMS RELATING TO SAFETY ASPECTS CONCERNING OPERATING AREAS OF INDUSTRIAL TRUCKS	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)

34	TED 22(18938)	SPECIFICATION FOR TOWING HOOK FOR USE BETWEEN TRAILERS OF UP TO 16 TONNES GROSS MASS AND TRANSPORT TRACTOR	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)
35	TED 22(18939)	SPECIFICATION FOR TOWING HOOK FOR USE BETWEEN TRAILERS OF UP TO 35 TONNES GROSS MASS AND TRANSPORT TRACTOR	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)
36	TED 22(18940)	DIMENSIONS FOR COUPLING ARRANGEMENTS BETWEEN TOWING VEHICLE AND TRAILER	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)
37	TED 22(19022)	Performance testing of powered industrial trucks working in hazardous areas: Part 2 electric battery powered industrial trucks	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)
38	TED 22(19030)	General requirements of powered industrial trucks working in hazardous areas: Part 1 internal combustion engine powered trucks	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)
39	TED 22(19037)	Specification for electrical connector for tractor - Trailer jumper cable	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)
40	TED 22(19041)	Glossary of terms relating to fork arms and attachments of forklift trucks	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)

41	TED 22(19073)	Specification for drawbar eyes and fore carriage pins for connection between trailers of gross mass above 5 tonnes and upto 35 tonnes and transport tractor	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)
42	TED 22(19074)	Specification for towing jaw for use between trailers of up to 16 tonnes gross mass and transport tractor	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)
43	TED 22(19075)	Specification for towing jaw for use between trailers of up to 35 tonnes gross mass and transport tractor	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)
44	TED 22(19076)	Specification for towing jaw for use between trailers of up to 5 tonnes gross mass and transport tractor	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)
45	TED 22(19077)	Specification for towing hook for use between trailers of up to 5 tonnes gross mass and transport tractor	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)
46	TED 22(19078)	Specification for drawbars for trailers of up to 5 tonnes gross mass	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)
https://www.services.bis.gov.in/php/BIS_2.0/dgdashboard/draft/darftdetail/67/3/TED			

At Automotive Research Association of India (ARAI)

The following Draft Indian Standards were issued by Automotive Research Association of India during the last quarter for eliciting technical comment:

Mobility at Automotive Research Association of India (ARAI)		
S. No.	Code	Title
1	Draft AIS-178/D3	Provisions for Adapted Vehicles of categories L1, L2, L5M and Tricycles
2	Draft AIS-008 (Rev.3)	Installation Requirements of Lighting and Light - Signalling Devices for Motor Vehicle having more than Three Wheels including Quadricycles, Trailer and Semi-Trailer excluding Agricultural Tractors
3	Draft Amd 3 to AIS-137 (Part 1)	Test Method, Testing Equipment and Related Procedures for Type Approval and Conformity of Production (COP) Testing of L2 category Vehicles for Bharat Stage VI emission norms as per CMV Rules 115, 116 and 126
4	Draft Amendment No. 3 to AIS-084 (Part 1)	Automotive Vehicles – Performance requirements of Demisting Systems of Glazed Surfaces (Windscreen) of Motor Vehicles
5	Draft Amendment No. 3 to AIS-084 (Part 2)	Automotive Vehicles – Performance requirements of Defrosting Systems of Glazed Surfaces (Windscreen) of Motor Vehicles
6	Draft Amendment 3 to AIS-160	Safety Requirements for Construction Equipment Vehicles(s)
7	Draft Amendment No. 1 to AIS-139	Specific Requirements for Double Deck Buses
8	Draft amendment 1 to AIS-137 (Part 9)	Test method, testing equipment and related procedures for type approval and conformity of Production (COP) testing of Quadricycle (L7 category) vehicles for Bharat Stage VI emission norms as per CMV rules 115, 116 and 126
9	Draft AIS 001(Part 1)(Rev. 2)/D1/30th Sept. 2022	Automotive Vehicles – Approval of Devices for Indirect Vision Intended for use on [A], M, N Category and L Category with Bodywork Vehicles – Specification
10	Draft AIS 002(Part 1)(Rev. 2)/D1/30th Sept. 2022	Automotive Vehicles – Approval of Devices for Indirect Vision intended for use on L category with bodywork vehicles, M and N category - Installation requirements
11	Draft AIS-175/D1/June 2022	Test Method, Testing Equipment and Related Procedures for Type Approval, Conformity of Production (COP) and In Service Conformity (ISC) Testing for the Worldwide harmonized Light vehicle Test Procedure (WLTP) of M and N Category Vehicles having GVW not exceeding 3500 kg as per CMV Rules 115, 116 and 126
https://www.araiindia.com/downloads		

At Research Designs & Standards Organization (RDSO)

The following Draft Indian Specifications/Drawings were issued by Research Designs & Standards Organization (RDSO) during the last quarter for eliciting technical comment:

Specifications/Drawings: RDSO		
S. No.	Specification/STR No.	Description
1	STR for fabrication of HSFG bolting assemblies with direct tension indicatoe washer	Para 5 of STR regarding Hot Dip Galvanizing facility
2	RDSO/EL/SPEC/2017/0126 Rev. '1'	Draft Specification for Computer/ Microprocessor Controlled Air Brake System with Advanced Features For 3-Phase Electric Locomotives
3	RDSO/EL/FRS/BEARING (Rev 0) of -20xx	Functional Requirement Specification (FRS) for Axle Box bearings used in WAP5/WAP7/WAG9 Locos, Gear Box bearing used in WAP5 and MSU Bearings used in conventional locos
4	RDSO/2022/EL/STR/00XX, Rev.'0'	SCHEDULE OF TECHNICAL REQUIREMENT (STR) FOR MANUFACTURE OF METALLISED CARBON STRIPS WITH AUTO DROPPING DEVICE FOR PANTOGRAPHS FOR ELECTRIC LOCOMOTIVES
5	RDSO/2011/EL/STR/0076, Rev. '3' DEC'2022	DRAFT SCHEDULE OF TECHNICAL REQUIREMENTS OF BRAKE SYSTEM AND EP ASSISTED BRAKE SYSTEM FOR THREE PHASE ELECTRIC LOCOMOTIVES
6	TI/SPC/OHE/MRI/0142	TECHNICAL SPECIFICATION FOR MEASURING AND RECORDING INSTRUMENTATION TO BE RETROFITTED ON 8-WHEELER TOWER CARS.
7	Draft policy for Codal life of mobile and stationary flash butt welding machines	Draft policy for Codal life of Mobile and Stationary Flash Butt
8	IS/RDSO-TDD/0012:2023	Indian Railway Standard Specification for Flat Bottom Rails known as IRS-T-12/2009 specification.
9	RDSO/2022/EL/STR/XXXX Rev0	SCHEDULE OF TECHNICAL REQUIREMENTS FOR ELASTIC RING USED ON THREE PHASE DRIVE ELECTRIC LOCOMOTIVES (WAP5, WAP7 & WAG9)

10	RDSO/PE/SPEC/AC/0080-2007 (Rev-3)	Final draft revised RDSO specification for integrated 60KVA Transformer for LHB Variant AC Coaches.
11	M&C/PCN/54/2020 Rev.-2.0	Schedule of technical requirements for infrastructure, manufacturing, testing facilities & quality control requirements for Enamel, Interior a) Under Coating and b) Finishing with Fire Retardant Properties
12	RDSO/2008/EL/SPEC/0071, Rev. '6'	DRAFT TECHNICAL SPECIFICATION FOR DESIGN, DEVELOPMENT, SUPPLY AND COMMISSIONING OF IGBT BASED 3-PHASE DRIVE PROPULSION EQUIPMENT ON WAG9/ WAG9H/ WAP7/ WAP5 ELECTRIC LOCOMOTIVES
13	RDSO/2022/EL/STR/00xx(Rev '0')	Draft Schedule of Technical Requirement for Crew Voice & Video Recording System for Electric & Diesel Locomotives
14	RDSO/2021/EL/SPEC/0144(Rev 2)	Draft specification of End-of-Train Telemetry (EoTT) System for Indian Railways
15	Document No. STT/TAN/IP-MPLS/2020 Version 1.0 First Issue Dec- 2020	IP-MPLS TECHNOLOGY FOR UNIFIED COMMUNICATION BACKBONE ON INDIAN RAILWAY
https://rdso.indianrailways.gov.in/view_section.jsp?lang=0&id=0,4		

ICT at TSDSI

"List of New Item for Proposal at TSDSI"				
S. No.	New Item Proposal	Name	Version	Status
1	NIP 287	Adoption of specifications from ATSC 3.0 standards	TSDSI-SGN-NIP287-V2.1.0-20221215	Reserved
2	NIP 279	A local language repository as an enabler for financial workflows	TSDSI-SGSS-NIP279-V2.0.0-20221215	Reserved
3	NIP 282	Architecture to support tactile applications with edge intelligence over 5GS	TSDSI-SGSS-NIP282-V2.0.0-20221213	Reserved
4	NIP 292	Enablement of common edge connectivity for public utility purposes	TSDSI-SGSS-NIP292-V3.0.0-20221213	Reserved
5	NIP 298	Adoption of specifications from ATSC 3.0 standards	TSDSI-SGSS-NIP298-V1.0.0-20221207	Reserved

6	NIP 297	Study of using reconfigurable intelligent surfaces in a wireless network	TSDSI-SGN-NIP297-V1.1.0-20221205	Reserved
7	NIP 287	Adoption of specifications from ATSC 3.0 standards	TSDSI-SGN-NIP287-V2.0.0-20221201	Accepted
8	NIP 297	Study of using reconfigurable intelligent surfaces in a wireless network	TSDSI-SGN-NIP297-V1.0.0-20221128	Accepted
9	NIP 292	Title Enablement of common edge connectivity for public utility purposes	TSDSI-SGSS-NIP292-V2.0.0-20221124	Accepted
10	NIP 293	Open APIs to use Smart-ambulance Services.	TSDSI-SGSS-NIP293-V2.0.0-20221101	Accepted
11	NIP 296	Study on system requirements related to Metaverse use cases in mobile network	TSDSI-SGSS-NIP296-V2.0.0-20221020	Accepted

For complete details of the NIP please click here

"List of Study Item status update"

S. No.	Study Item	Name	Version	Status
1	SI98	NIP 296 Study on system requirements related to Metaverse use cases in mobile network	TSDSI-SGSS-SI98-V2.0.0-20221013	Initiated

For complete details of the Study Items please click here

"List of SWIC Status Update"

S. No.	SWIP	Name	Version	Status
1	SWIC810	Architecture Contributions for NIP226 (5G Extensions for Broadcast Offload)	TSDSI-SGN-SWIC810-V1.0.0-20221127	Accepted
2	SWIC811	Limitations of the Existing Relay (IAB) Architecture in 3GPP 4G LTE & 5G Networks	TSDSI-SGN-SWIC811-V1.0.0-20221128	Accepted
3	SWIC812	5G Extension to Broadcast Offload – Key Performance Indicators	TSDSI-SGN-SWIC812-V1.0.0-20221128	Accepted
4	SWIC813	A Generic Relay Architecture for 5G & Beyond	TSDSI-SGN-SWIC813-V1.0.0-20221128	Accepted
5	SWIC814	TR SI#96 – Study of waveforms for B5G communication systems	TSDSI-SGN-SWIC814-V1.0.0-20221202	Accepted
6	SWIC815	SI-95 Futuristic Architecture of 5G Backbone and Slicing	TSDSI-SGN-SWIC815-V1.0.0-20221205	Accepted
7	SWIC812	5G Extension to Broadcast Offload – Key Performance Indicators	TSDSI-SGN-SWIC812-V1.1.0-20221205	Accepted

8	SWIC816	A framework for 6G KPI definition	TSDSI-SGN-SWIC816-V1.0.0-20221205	Accepted
9	SWIC818	6G Network Architecture Requirements	TSDSI-SGN-SWIC818-V1.0.0-20221206	Accepted
10	SWIC819	Interface Design for RIS-assisted Communication Systems	TSDSI-SGN-SWIC819-V1.0.0-20221207	Accepted
11	SWIC820	Study on system requirements related to Metaverse use cases in mobile network	TSDSI-SGSS-SWIC820-V1.0.0-20221214	Reserved
12	SWIC821	Study on system requirements related to Metaverse use cases in mobile network	TSDSI-SGSS-SWIC820-V1.0.0-20221216	Reserved
13	SWIC822	Study of Post-Quantum-Cryptography for Future 5G Networks and Application Verticals Study of Post-Quantum-Cryptography for Future 5G Networks and Application Verticals	TSDSI-SGSS-SWIC822-V1.0.0-20221217	Reserved
14	SWIC823	Digital Process for Know Your Machine Custodian	TSDSI-SGSS-SWIC823-V1.0.0-20221217	Reserved
15	SWIC824	Study on system requirements related to Metaverse use cases in mobile network	TSDSI-SGSS-SWIC820-V1.0.0-20221217	Reserved
https://tsdsi.in/study-work-items-proposals/16/				

ICT at TEC

S. No.	Standard/ER No	Name of standard /ER	Standard type
1	TEC 91000:2022	Quantum Key Distribution System	GR
2	TEC 23070:2022	Compact LTE Mobile System	GR
3	TEC 21060:2022	gNodeB	GR
4	TEC 71120:2022	Converged Multi-Service Application Access Equipment	GR
5	TEC 42012:2022	Standard for Interface Requirements for Communication and Broadcast Networks for FSS/BSS + Addendum	IR
https://www.tec.gov.in/essential-requirements			
https://www.tec.gov.in/standards-specifications			

Indian Rupee

The Indian numeral system is based on the decimal system, with two notable differences from Western systems using long and short scales. The system is ingrained in everyday monetary transactions in the Indian subcontinent.

Indian semantic	International semantic	Indian comma placement	International comma placement
1 hazar	1 thousand	1,000	1,000
10 hazar	10 thousand	10,000	10,000
1 lakh	100 thousand	1,00,000	100,000
10 lakhs	1 million	10,00,000	1,000,000
1 crore	10 million	1,00,00,000	10,000,000
10 crores	100 million	10,00,00,000	100,000,000
100 crores	1 billion	100,00,00,000	1,000,000,000

Conversion applied above at 1 Euro = 80 INR and for more information please click here

About Project

SESEI | Seconded European Standardisation Expert in India

Enabling Europe-India Cooperation on Standards

The SESEI project (Seconded European Standardization Expert in India) is a project co-funded by five European partners, operating from New Delhi, India, with the objective to increase the visibility of European standardization in India and to promote EU/EFTA-India cooperation on standards and related activities. The SESEI Project (http://sesei.eu/) is managed by the European Telecommunications Standards Institute (ETSI - http://www.etsi.org/ - EU recognized Standards Organization for Telecommunication sectors) and is further supported by two other EU recognized Standards Organization, namely the European Committee for Standardization (CEN) and the European Committee for Electrotechnical Standardization (CENELEC) – http://www.cencenelec.eu- which develop and adopt European standards in a wide range of products, services and processes, as well as by the European Commission (www.ec.europa.eu) and the European Free Trade Association (http://www.efta.int/). It is a Standardization focused project, with a priority emphasis on the sectors of ICT, Automotive, Electronic Appliances including Consumer Electronics and Smart Cities etc.

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