



CEN - European Committee for Standardization
CENELEC - European Committee for Electro Technical Standardization
ETSI - European Telecommunications Standards Institute

EC - European Commission
EFTA - European Free Trade Association

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Greeting from Project SESEI!!!



Dear Readers,

A very warm welcome to all the readers to the fifth edition of our “SESEI Newsletter Europe”, covering the period from July to September 2020. This newsletter provides information, latest updates on policy and standards development as well as notifications and market intelligence on the Project priority sectors covering ICT, Smart Cities, Automotive, Electrical Equipment including Consumer Electronics, Energy Efficiency and Environment, etc.

The nationwide lockdown imposed across India was the biggest in the world, forcing 1.3 billion Indians to stay indoors. Except for some essential services and activities, the rest of India’s \$2.9 trillion economy remained shuttered during the lockdown period and economic activity came to a grinding halt in the country. While the COVID-19 pandemic continues, the lockdown is being relaxed to bring normalcy in the businesses, industries, and economic activities.

Finance Ministry is assessing impact of pandemic on the economy, and associated severe contractions in the GDP, which it witnessed in the last two quarters. Govt. will be taking appropriate measures to bring the GDP back on track by announcing stimulus to boost the economy, business, and investment friendly policies. Concurrently, India is also gearing up to become self-reliant ([Atmanirbhar Bharat Abhiyan](#)) in important infrastructure sectors and is calling for private funding & investments and announcing several policies and announcements to objectify this goal. In this newsletter, we are providing you with the glimpse of all such announcements and activities.

Government has started promoting 'Make in India' products on government procurement portal “Government e-Marketplace (GEM)”. It has become mandatory now for the sellers to enter the 'Country of Origin' while registering all new products. Government is encouraging start-ups, small local sellers, MSME’S to list their products and start offering goods and services to govt. organisations, PSUs, state government, etc. The other significant move is prescribing the mandatory standards for imported goods for quality. BIS is also revamping its website, incorporating quality standards, and the information about the international norms along with a new mobile app launched called

'BIS-Care' and three portals – the Standardization, Conformity Assessment and Training Portals of e-BIS on www.manakonline.in. Through this application, consumers can check the authenticity of the ISI-marked and hallmarked products and lodge complaints using this app.

Sustainable Development Goals are increasingly becoming priority area in India. For the Smart Cities Union Housing Ministry has launched a framework that would help cities follow a climate sensitive road map while planning and implementing their actions, including investments. The framework has 28 indicators across five categories covering energy and green buildings, urban planning, green cover and biodiversity, mobility and air quality, water management and waste management.

In the automotive sector a program “Decarbonizing Transport in Emerging Economies (DTEE)” has been launched by Indian think tank of Govt. - Niti Aayog in a collaboration with the International Transport Forum (ITF), and the Wuppertal Institute, and is supported by the International Climate Initiative of the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, which will design a framework for assessing transport emissions and help India develop a pathway towards a low-carbon transport system through new modelling tools and policy scenarios.

The Road Transport and Highways Ministry has also prepared a draft hydrogen fuel cell vehicle feasibility roadmap on which the comments are being invited. The primary objective of this report is evaluation of the safety of using H2 powered vehicles. The H2 specifications for fuel cell vehicles will align with ISO 14687 until appropriate notification takes place as per the requirements of the Bureau of Indian Standard Act of 2016.

Niti Aayog is also working on inviting investments for cell manufacturing and is proposing direct incentives for integrating Energy Storage and E-Mobility. India being the fourth largest manufacturer of automobiles and the largest in two-wheelers, it should optimize the opportunity to integrate energy storage, batteries and vehicle manufacturing for a viable commercial market.

In the ICT sector, I am also very pleased to inform you that OneM2M Specifications (Release 2) has been adopted by the Telecom Engineering Centre as the national standards for IoT/M2M, specifically catering to the need for common M2M service layer that can be readily embedded within various hardware and software and relied upon to connect the myriad of devices in the field with M2M application servers worldwide based on OneM2M Standards. SESEI along with Project partners contributed significantly towards adoption of these OneM2M standards as national standards for India. DoT is also gearing towards 5G trials and auction of 5G spectrum by late 2020.

In the Power Sector, Prime Minister has announced mega plan of "One Sun, One World, One Grid" (OSOWOG), which will connect 140 countries through a common grid that will be used to transfer solar power.

With this I would like to invite you to read the newsletter at your leisure and use the information provided for your benefit. I would like to conclude by praying for safety and good health for everyone. Happy Reading!!!!

Warm regards,

Dinesh Chand Sharma

Seconded European Standardization Expert in India (SESEI)

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[The List of Draft Indian Standards as issued by BIS for eliciting technical comment along with Standards as published by ARAI and TSDSI are available as part of Annexure 1 to this newsletter.](#)

Headlines of the Quarter

Standards, TBTs and IPR

BIS Mobile App 'BIS-Care' & Standardization, Conformity Assessment and Training Portals

Union Minister for Consumer Affairs, Food & Public Distribution launched the Bureau of Indian Standard's Mobile App 'BIS-Care' and three portals – the Standardization, Conformity Assessment and Training Portals of e-BIS on www.manakonline.in for consumers. The mobile app BIS-Care can be operated on any Android phone and can be downloaded free from Google play store. Consumers can check the authenticity of the ISI-marked and hallmarked products and lodge complaints using this app. The Minister said that the government has taken several steps to protect the interests of consumers. [Read More](#)

Consumer Protection Act, 2019 comes into force, covers e-commerce too

The Consumer Protection Act, 2019 comes in to force from 20 July, with its salient features including the establishment of the Central Consumer Protection Authority (CCPA) to promote, protect and enforce the rights of consumers. This new Act will empower consumers and help them in protecting their rights through its various notified rules and provisions like Consumer Protection Councils, Consumer Disputes Redressal Commissions, Mediation, Product Liability and punishment for manufacture or sale of products containing adulterant / spurious goods. [Read more](#)

Modi govt starts promoting Make in India goods on government procurement portal

In tune with the agenda of 'AatmaNirbhar Bharat' (self-reliant India), the government has started promoting 'Make in India' products on government procurement portal Government e-Marketplace (GEM). Launched in 2016, GeM portal is used for online purchases of goods and services by all the central government ministries and departments. Currently, government departments, ministries, public sector units, state governments, and Central Armed Police Forces are allowed to carry out transactions through this portal. Items on sale include a wide range of products - from office stationery to vehicles. [Read More](#)

BIS to frame quality norms for 371 items by March 2021 to curb non-essential imports

As India strives towards self-reliance, imports of many non-essential items will be curbed from March 2021. BIS is ready with the regulations prescribed by the Commerce Ministry for quality imports, many sub-standard and non-essential imports will be stopped from March 2021. BIS is set to frame quality norms for 371 items by March 2021 which will include multiple segments, from steel, chemicals, pharmaceuticals, and electrical machinery to furniture and toys. The identified tariff lines include Chinese products too and they are trying to frame standards and make them mandatory. [Read More](#)

India makes testing of imported telecom equipment mandatory

India has notified the World Trade Organization its intention to make it mandatory for telecom products sold, imported or used in the country, including feedback device, transmission terminal equipment and broadband equipment, to be tested and certified by the Telecom Engineering Centre (TEC) under the Department of Telecommunications (DoT). In three separate submissions made to the WTO Committee on Technical Barrier to Trade on the three identified items, India sought comments from WTO members on the mandatory certification regime within 30 days. [Read More](#)

Smart Cities

Centre launches Climate Smart Cities Assessment Framework 2.0 for climate-sensitive cities

A framework that would help cities follow a climate-sensitive approach in urban planning and development was launched. The objective of the Climate Smart Cities Assessment Framework (CSCAF) 2.0 is to provide a roadmap for cities for combating climate change while planning and implementing their actions, including investments. The framework has 28 indicators across energy and green buildings, urban planning, green cover and biodiversity, mobility and air quality, water management and waste management. [Read More](#)

COVID-19 impact: Smart cities in India to get cycling-friendly with Cycles4Change Challenge

India Cycles4Change Challenge is an initiative of the Smart Cities Mission to support Indian cities to quickly implement cycling-friendly initiatives in response to the pandemic. The housing and urban affairs ministry has launched the India Cycles4Change Challenge to support smart cities to implement cycling-friendly projects in response to the COVID-19. In the first phase, 10 cities will be selected and will receive technical support from the Centre and also a reward of Rs 1 crore (10 Million) each. [Read More](#)

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Automotive

NITI Aayog Introduces New Program to Decarbonize India's Transport System

The five-year project will design a tailor-made transport emissions assessment framework for India. The NITI Aayog and the International Transport Forum (ITF) of Organization for Economic Co-operation & Development (OECD), have jointly launched a project aimed at decarbonizing India's transport sector. The program, Decarbonizing Transport in Emerging Economies (DTEE), is a collaboration between the ITF and the Wuppertal Institute, supported by the International Climate Initiative of the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety. [Read More](#)

Automotive technology e-portal from International Centre of Automotive Technology (ICAT)

As a one stop solution for Indian automobile industry, portal a step towards the vision of 'AatmaNirbhar' Bharat. Department of Heavy Industry (DHI), Govt of India, has embarked on a mission to promote innovation, R&D and product development in India for various sectors. A step towards this mission is the creation of technology platform e-portals where such technology development, information exchange and innovation can be facilitated. There are five portals being developed for specific sectors by different organizations viz, BHEL for power sector equipment, HMT for machine tools, CMFTI for manufacturing technology, ICAT and ARAI for automotive sector. [Read More](#)

India driving electric mobility, energy storage sector growth: Experts

The Govt. of India is encouraging investments in the manufacturing of batteries and Niti Ayog is exploring to incentivize the production per kW. India will be moving fast with various favourable policies and schemes to implement efficient energy storage and electric mobility in the country, point out experts. Niti Aayog is working on inviting investments for cell manufacturing and is proposing direct incentives. The critical opportunity is to integrate energy storage, batteries and vehicle manufacturing for a viable commercial market. [Read More](#)

India can become electric vehicle manufacturing hub within five years says roads minister

The industry needs to cut a dependence on lithium-ion battery imports from China, according to Nitin Gadkari, who said the government is looking to support research into alternative technologies. India can become an electric vehicle (EV) manufacturing hub within five years, according to road transport minister Nitin Gadkari, who urged the industry to grab opportunities as global companies seek alternatives to Chinese supply chains in the wake of the Covid-19 pandemic. [Read More](#)

Indian government produces hydrogen fuel cell vehicle feasibility draft

India's Road Transport and Highways Ministry announced its hydrogen fuel cell vehicle feasibility draft and is seeking comments and suggestions from stakeholders which include the general public. The primary focus is to be on the evaluation of the safety of using H2 powered vehicles. The ministry's draft on hydrogen fuel cell vehicle feasibility was first revealed on July 10. Furthermore, the H2 specifications for fuel cell vehicles will align with ISO 14687 until appropriate notification takes place as per the requirements of the Bureau of Indian Standard Act of 2016, said the release. [Read More](#)

MoRTH Notifications

MoRTH notifies regulations for tyres, safety glass, external projections, etc. under CMVR

The Ministry of Road Transport and Highways (MoRTH) vide GSR 457 (E) dated 20th July 2020, has made following amendments in CMVR 1989. The specification for the Tyre pressure monitoring system (TPMS) for vehicles up to maximum mass of 3.5 Tonnes which monitors the inflation pressure of the tyre or its variation, while the vehicle is running and transmits the information to the driver, thereby providing advance information to the driver and enhancing road safety has been provided if fitted in the Vehicle. [Read More](#)

MoRTH allows Sale and Registration of Electric Vehicles without batteries

MoRTH has allowed registration of electric vehicles without pre-fitted batteries. In a letter to Transport Secretaries of all the States and UTs, the ministry has clarified that vehicles without batteries can be sold and registered based on the type approval certificate issued by the Test Agency. Further, that there is no need to specify the Make/Type or any other details of the Battery for the purpose of Registration. However, the prototype of the electrical vehicle, and the battery (regular battery or the swappable battery) is required to be type approved by the test Agencies specified under Rule 126 of the Central Motor Vehicles Rules, 1989. [Read More](#)

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ICT including services

Adoption of TSDSI transposed 3GPP standards National Standards by TEC

TSDSI, as an organizational partner of 3GPP has transposed 3GPP standards (same as Recommendations ITU-R M.2012-4) totaling 402 in numbers and had provided to TEC for adoption as national standards by TEC. These radio interface standards detail the features and parameters of IMT-Advanced like compatibility, international roaming, and access to high-speed data services. These standards have been processed for adoption as per the "Standardization Guide – A policy document for adoption of the domestic/international standards into national standards". Now, these standards [TSDSI transposed 3GPP standards (402 Nos.)] have been approved for adoption into national standards. [Read More](#)

Adoption of TSDSI transposed OneM2M (Release 2) specifications as National Standards by TEC

TSDSI, as a partner type 1 of oneM2M has transposed oneM2M (release2) specifications totaling 27 documents in numbers and had provided to TEC for adoption as national standards by TEC. These specifications address the need for common M2M service layer that can be readily embedded within various hardware and software and relied upon to connect the myriad of devices in the field with M2M application servers worldwide. These transposed documents cover oneM2M functional architecture, requirements, Service layer control protocols, Management enablement etc. These specifications have been processed for adoption as per the "Standardization Guide – A policy document for adoption of the domestic/international standards into national standards. Now, these standards [TSDSI transposed oneM2M (release2) specifications] have been approved for adoption into national standards. [Read More](#)

STPI launches Apiary, centre of excellence in Blockchain at its incubation centre in Gurugram

Apiary-CoE aims to incubate 100 start-ups in the field of blockchain technology and to contribute to government of India's 'Make-in-India' and 'Digital India' programmes. Software Technology Parks of India (STPI) has launched Apiary, a centre of excellence (CoE) in Blockchain and also an 'Idea Challenge Program in Blockchain' at STPI incubation centre, Gurugram in association with Ministry of Electronics and Information Technology (MeitY), Government of Haryana, Government Blockchain Association and several blue-chip companies and top tier academic institutions. [Read More](#)

TEC providing technical documents to stakeholders for free, industry lauds move

Government's telecom standard body TEC is providing free access to all technical documents to stakeholders with a view to easing manufacturing and public procurement hassles. The access to Generic Requirements (GRS), Interface Requirements (IR), Essential Requirements (ERs) has been made free. Telecom gear makers are required to follow the technical standards set by TEC for supplying telecom equipment. Every player was required to purchase GRs, IRs and ERs for getting their product tested and also submit the same to meet the tender requirement of the public sector telecom firms. [Read More](#)

Department of Telecommunications (DoT) may allow 5G trials for telcos by September

DoT is expected to provide the spectrum needed by telecom service providers for testing their 5G networks. 5G is the fifth-generation technology standard for cellular networks, superior to the 4G networks which currently provide connectivity to most cellphones. The testing was originally scheduled for March but got delayed because of the COVID-19 pandemic. "Telecom operators will need 6 months of testing 5G devices and spectrum before we begin auctions". "We are looking at providing the companies with spectrum for the testing by September so that they can begin the process," the official said. [Read More](#)

Indian SaaS landscape growing at 1.5X faster than global SaaS

As India continues to take swift steps towards digitalization, it is also witnessing the rise of new SaaS verticals and segments backed by strategic partnerships. To chart out the imperatives to make India a "Global SaaS Hub", the National Association of Software and Services Companies (NASSCOM) in partnership with SaaSBOOMI and Zinnov as knowledge partners, today announced the findings of their first in depth SaaS study "Riding the Storm: Towards the Giant India SaaS Opportunity". Growing at 30% CAGR, India's SaaS revenue has reached \$3.5 billion as of FY2020, with 75% of it coming from global sales. [Read More](#)

DoT notifies additional telecom equipment for mandatory testing, certification

The Telecom Department (DoT) has notified mandatory testing and certification for additional range of products, used in telecom and data networks, from October 1, 2020. Transmission Terminal Equipment (including multiplexing equipment), PON (passive optical network) family of broadband equipment, and feedback device are the products which have been notified under the second phase of Mandatory Testing and Certification of Telecom Equipment (MTCTE) regime. Applications for testing and certification of these telecom products will be accepted on MTCTE portal from June 25, 2020. [Read More](#)

Government invites suggestions on non-personal data framework

The government has invited inputs on the "Draft Non-Personal Data Governance Framework" by July 19. The committee to study issues under non personal data was set up last year in September under the chairmanship of Infosys co-founder Kris Gopalakrishnan. The committee has made a case for regulating non-personal data, defining it under three main categories- public non-personal data, community non-personal data and private non-personal data. It has further outlined the need for defining a new category or taxonomy of business called data business. [Read More](#)

ICT related notifications/consultation Papers/recommendations/policies and directives, whitepapers

- Meity-NITI launched Digital India AatmaNirbhar Bharat App Innovation Challenge to realise PM's vision of Digital India – AatmaNirbhar Bharat. [Read more](#)

Telecom Regulatory (TRAI) issued following Consultation Papers/recommendations:

- Telecom Regulatory (TRAI) has released recommendations on 'Provision of Cellular Backhaul Connectivity via Satellite through VSAT under Commercial VSAT CUG Service Authorization'. [Read more/Download](#)
- Consultation Paper on Roadmap to Promote Broadband Connectivity and Enhanced Broadband Speed. [Read more/Download](#)
- Recommendations on Methodology of applying Spectrum Usage Charges (SUC) under the weighted average method of SUC assessment, in cases of Spectrum Sharing. [Read more/Download](#)
- Consultation Paper on Regulation of International Mobile Roaming Services. [Read more/ Download](#)
- Recommendations on Traffic Management Practices (TMPs) and Multi-Stakeholder Body for Net Neutrality. [Read more/Download](#)
- Recommendations on Cloud Services. [Read more/Download](#)
- Recommendations on Regulatory Framework for Over-The-Top (OTT) Communication Services. [Read more/Download](#)
- Telecom Consumers Protection (Eleventh Amendment) Regulations, 2020. [Read more/Download](#)

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Electrical Equipment including Consumer Electronics**One Sun, One World, One Grid (OSOWOG) initiative:**

India's mega plan of "One Sun, One World, One Grid" (OSOWOG) — a trans-national electricity grid supplying solar power across the globe. The idea was first floated by Modi in 2018 during the first assembly of International Solar Alliance (ISA). Policy experts describe it as part of India's answer to China's "One Belt One Road" project. According to the draft plan of the Ministry of New and Renewable Energy (MNRE), the ambitious OSOWOG will connect 140 countries through a common grid that will be used to transfer solar power.

[Read More](#)

State joint venture to support smart meter rollout in India

A joint venture company is being established to provide the infrastructure to enable India's distribution companies to accelerate their smart meter rollout. Press reports indicate that the joint venture under the ministry of power will provide a 'common backend infrastructure facility' with a standardised and scalable architecture that the discoms can 'plug and play'. Such an architecture should simplify the rollout of smart meters by avoiding duplication and enabling the meter data management to be scaled as required. [Read More](#)

India to have 60% power capacity from renewable energy by 2030

India can integrate more than 30% of wind and solar in its power system, while still maintaining security of supply and without raising the total economic costs of its electricity system, according to a new report by The Energy and Resources Institute (TERI). The report also identifies a number of strategies to achieve this. The report, titled 'Renewable Power Pathways: Modelling the Integration of Wind and Solar in India by 2030', was launched with the report titled 'Bending the Curve: 2025 Forecasts for Electricity Demand by Sector and State in the Light of the COVID Epidemic'. [Read More](#)

Power minister launches pan-India real-time market in electricity

Power and renewable energy minister launched the pan-India real-time market (RTM) in electricity, placing India amongst a few electricity markets in the world having it. RTM is an organized market platform to enable the buyers and sellers pan-India to meet their energy requirement closer to real time of operation. RTM would bring required flexibility in the market to provide real-time balance while ensuring optimal utilisation of the available surplus capacity in the system and would also help manage demand pattern diversity in the country with an organized market. [Read More](#)

Electronics manufacturing in India to grow 30% annually for next 5 years: IT Secretary

The government is expecting electronics manufacturing in the country to register an annual growth rate of 30 % over the next five years and clock Rs 11.5 lakh crore (€135 billion) additional production during this period, electronics and IT secretary Ajay Prakash Sawhney. Also, the exports of electronic products will grow in the range of 40-50 % annually over the next five years, he added. "Electronics manufacturing in India has been growing quite significantly. We have registered 23 % cumulative annual rate of growth over past five years. Now in this journey the growth is expected to be 30% year on year for next five years," official said at the Invest India Exclusive Investment Forum - Japan Edition.

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Department of Heavy Industry, Ministry of Heavy Industry and Public Enterprises (MHI&PE) issued Electrical Equipment (Quality Order) 2020: Low - Voltage switchgear and control gear. [Read more/Download](#)

Ministry of Power (MoP) has released following notification

- Draft Electricity (Rights of Consumers) Rules, 2020 for stakeholder comments till September 30, 2020. [Read more/Download](#)
- Public Procurement (Preference to Make in India) to provide Purchase Preference (linked with local content) in respect of Power Sector [Read more/Download](#)
- Measures for contributing towards 'Atmanirbhar Bharat/Self Reliant' and 'Make in India' through phased indigenisation in Power Sector. [Read more/Download](#)
- Power Sector as Strategic and Critical Sector-Testing of imported equipment, components, and parts. [Read more/Download](#)

Ministry of New and Renewable Energy (MNRE) issued following notifications/guidelines

- RFP for Developing a Long-Term Vision, Implementation Plan, Road Map and Institutional Framework for implementing One Sun One World One Grid (OSOWOG). [Read more/Download](#)
- Request for comments on draft specifications for technology neutral Lithium batteries for solar off-grid applications. [Read more/Download](#)
- Order for formation of Project Development Cell (PDC) for "Attracting Investments in India". [Read more](#)
- Modifications in Scheme for "Development of solar parks and Ultra Mega solar power projects" – [Read more](#)

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Manufacturing/Make in India

20 sectors identified for boosting manufacturing and export

The central government has identified 20 sectors where India can meet domestic demand as well as become a 'global factory of the world' by pushing out more exports and reining in costly imports, Commerce and Industry Minister. We had first identified 12 sectors. Now, there are eight more. We have 20 sectors where Ficci and other associations form a part of our engagement. Earlier, food processing, iron and steel, electronics, industrial machinery, furniture, automobile parts, and leather and footwear were among the sectors identified for import substitution and increasing exports.

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Govt likely to set up multi-purpose R&D technology centre to reduce import dependence, promote MII

Minister for MSMEs, Road Transport & Highways, Govt of India, said that the government is likely to set up a multi-purpose R&D centre to reduce import dependence and promote the Make in India (MII) and Made in India initiatives. Addressing an 'Interactive Meeting of Industry Chambers & Business Associations', organized by FICCI, Mr Gadkari said, "Industry can buy land and the government will support by providing technology and equipment to the centre." The industry can tie-up with various IITs and engineering colleges, especially those in agri-related equipment, to find solutions to various products being imported and develop under the Make in India and Made in India campaigns. [Read More](#)

Government to roll out PLI scheme to boost domestic telecom equipment production

The Department of Telecom is working on rolling out a Rs 15,000-crore (€1.8 billion) worth production-linked incentive (PLI) scheme to promote the domestic production of telecom equipment. The DoT is preparing the draft cabinet note to provide financial incentives to companies that produce 5G telecom equipment. The scheme's primary aim would be to boost the domestic production of telecom equipment and reduce the dependence of Chinese suppliers. State-run Indian Telephone Industries Limited (ITI), Sterlite Technology, Tejas Network, and Himachal Futuristic Communications Ltd. (HFCL) are some of the domestic players involved in the manufacturing of telecom equipment. [Read More](#)

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R&D and Innovation

MeitY announces AI Solution Challenge to showcase innovations of Indian tech startups

Artificial intelligence (AI) driven technology startups in India can now showcase their innovative solutions in various fields such as healthcare, education, agriculture, and more, through a new challenge initiated by the government. In order to promote and showcase such innovative AI solutions developed by entrepreneurs, an AI Solution Challenge is being organised for Indian startups in the field of Artificial Intelligence by the Ministry of Electronics and Information Technology (MeitY). [Read More](#)

India moves 4 position up in Global Innovation Index (GII) 2020, makes it to top 50 economies

India has for the first time made it to the top 50 countries in the Global Innovation Index (GII) 2020. India has moved up four positions since 2019 to become the third-most innovative lower-middle-income economy in the world, according to the report. India, at 48, also retains the highest rank in the central and southern Asia region. India ranks in the top 15 in indicators such as information and communications technology services exports, government online services, graduates in science and engineering, and research and development (R&D)-intensive global companies. The report has attributed the improvement to universities, such as the Indian Institutes of Technology in Bombay and Delhi, and the Indian Institute of Science in Bengaluru, besides its top scientific publications, stating that India is the lower middle-income economy with the highest innovation quality. [Read More](#)

Research Policy of Bureau of Indian Standards

BIS is continuously evolving in its pursuit of excellence, in various fields of its activities. Innovation is the cornerstone of any organizational evolution; and continuous creation of intellectual property, through research, is the foundation of such innovations. As per BIS Act, 2016, Section 10 (2) (d), one of the functions of the Bureau is to undertake, support and promote such research as may be necessary for formulation of Indian Standards. With a view to aid the creation of a vibrant atmosphere of research in BIS, where fertile minds can work on generation of knowledge, which can create evidence for trying out new ideas & innovations, eventually leading to progressive organizational evolution with the aim to meet its objectives, serve better and excel in all spheres of its activities, a draft research policy has been formulated as provided at Annex I. [Read More](#)

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Energy Efficiency-Environment

- Ministry of Environment, Forest and Climate Change released draft Environment Impact Assessment Notification (EIA) 2020. [Read more](#)
- Ministry of Environment, Forest and Climate Change (MoEFCC) released annual report 2019-20. [Read more/Download](#)

BEE to study energy efficiency measures

The Bureau of Energy Efficiency has selected Andhra Pradesh to conduct a study on energy efficiency measures in refractory industries. Micro Small and Medium Enterprises (MSMEs) making refractories in East and West Godavari districts have been chosen for the study. The Energy and Resource Institute (TERI) will take up a detailed study in the refractory clusters. Detailed energy audits will be conducted by TERI by closely interacting with stakeholders, manufacturers and industry associations. This will help assess the areas of improvement for energy savings and to identify the scope for introducing latest technologies. [Read More](#)

India sees narrowing gap between clean energy, coal power

India has achieved an unexpected benefit on the energy front during this Covid-19 pandemic phase. The gap between the share of renewables and coal-fired power in India's electricity generation sector has narrowed more than ever before. The share of renewables increased from 17 % just before the pandemic to almost 24 % and coal-fired power declined from 76 % to 66 %," said energy analysts of International Energy Agency (IEA) in their note on India's energy sector. IEA is of the view that the clean energy transition is good, both for the economy and the environment of India, the world's third-largest energy consumer. [Read More](#)

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EU-India/Trade-FTA/Investments

India-EU Strategic Partnership: A Roadmap to 2025

The Leaders held the 15th India-European Union Summit on the 15th July 2020. They endorsed this "India-EU Strategic Partnership: A Roadmap to 2025" as a common roadmap to guide joint action and further strengthen the India-EU Strategic Partnership over the next five years. In a complex international environment, the Republic of India and the European Union, both "unions of diversity", sharing values of democracy, rule of law and human rights, are equally convinced of the necessity to preserve the rules-based international order and effective multilateralism. India and the EU have a common interest in each other's security, prosperity and sustainable development. They can contribute jointly to a safer, cleaner and more stable world. They therefore endeavour to develop further their Strategic Partnership, based on this Roadmap. [Read More](#)

India-EU renew agreement on Science & Technology cooperation

India and the European Union have renewed their agreement to expand scientific and technological cooperation aimed at strengthening their collaboration in this area in the next five years. Last week, the two sides agreed to renew the agreement on scientific cooperation till 2025 at the 15th India-EU Summit, which was led by Prime Minister from the Indian side. The European Union delegation was headed by European Council President Charles Michel and President of the European Commission Ursula von der Leyen. The agreement was initially signed on Nov 23, 2001 and renewed in 2007 and 2015. [Read More](#)

Cabinet approves MoU between India & Finland in the field of Geology and Mineral Resources

The Union Cabinet chaired by the Prime Minister approved MoU for cooperation in the field of geology and mineral resources between Geological Survey of India, Ministry of Mines, the Government of the Republic of India and Geological Survey of Finland (Geologiantutkimuskeskus), Ministry of Employment and the Economy, the Government of Finland. The MoU facilitates cooperation in the field of geology, training, mineral prognostication and suitability analysis, 3/4D modelling, Seismic and other Geophysical surveys finalised with the intent of reinforcing and strengthening scientific links between the two Organisations. [Read More](#)

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Invest India

Make in India boost! Indian Railways eyes over \$4 bn investments with world-class private passenger trains

The national transporter has stated that it is eyeing over \$4 billion investments with private passenger train services. Recently, the government has announced two major initiatives of seeking private investment, one is the running of passenger trains by private operators on the Indian Railways network and the other is the redevelopment of railway stations across the country. According to Indian Railways, these projects have the potential of bringing an investment of over \$7.5 billion in the next five years. The national transporter has stated that it is eyeing over \$4 billion investments with private passenger train services. Railway Ministry has invited both domestic as well as global investors to actively participate in the bidding process for these initiatives. [Read More](#)

Foreign trade regulator rejig to cut imports, promote 'Make in India' and 'Ease of Doing Business'

The Directorate General of Foreign Trade will realign itself along the lines of Prime Minister's Make in India and will push for production of items domestically to cut down imports. The organisation is "focusing on creating more capacities within the country to produce items that can cut down imports and accelerate exports from the electronics and hardware sector, including ventilators," Director General Amit Yadav said at an event organized by Electronics and Computer Software Export Promotion Council (ESC). He also said that the government-run agency is also taking suggestions from the industry and others as to the areas which promise new capacities to reduce import and accelerate exports. [Read More](#)

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Event calendar 2020

Urban Mobility India Conference

When: 30 Oct- 1 Nov, 2020

Where: New Delhi, India

Urban Mobility India Conference is a flagship event held under the aegis of the Ministry of Housing and Urban Affairs, Government of India. The genesis of UMI is from the National Urban Transport Policy of the Government of India, 2006, which lays a very strong emphasis on building capabilities at the State and city level to address the problems associated with urban transport and undertake the task of developing sustainable urban transport systems. For more information please [click here](#)

Global Smart Cities

When: 18-19 Nov, 2020

Where: India Expo Centre, Greater Noida, India

The GiDMC series will return with Global Smart Cities -2020 which will focus on the various aspects of a smart city including urban development, surveillance, power, energy, transport, technology, smart building, smart grid, smart health, network & communication technology etc. For more information please [click here](#)

International Conference on Cyber Law, Cyber Crime & Cybersecurity

When: 25-27 Nov, 2020

Where: New Delhi, India

The International Conference on Cyberlaw, Cybercrime & Cybersecurity aim is to examine and analyze the emerging Cyberlaw, Cybercrime and Cybersecurity trends of today's times. The International Conference will be attended by various international delegates and speakers as also representatives from the national Diaspora representing the stakeholders in the digital ecosystem and alive web. For more information please [click here](#)

Data Science and Machine Learning Workshop

When: 09-10 Jan, 2021

Where: Deen Dayal Upadhyaya College, New Delhi, India

International Seminar on Sustainable Development Goals will focus on Innovations & Best Practices in Higher Education, Higher Educational Institutions: Benchmarking & Way Forward, Engaging & Assessing Learners: Issues & Challenges, Research Paper Presentations on Contemporary Issues: Supply Chain Management, Agricultural Economics, Entrepreneurship Development, Creativity and Innovative Practices, International Financial Architecture. For more information please [click here](#)

Global Artificial Intelligence Summit

When: 14 Jan, 2020

Where: Vigyan Bhawan Auditorium, New Delhi, India

Artificial Intelligence technology is transforming Business Models and challenging the status quo in the business community. India's Largest Platform for innovators, the AICRA AI Summit is the platform for the exchange of deep actionable insights into the world of Artificial Intelligence and its impact on businesses. For more information please [click here](#)

Power & Energy Technology Summit

When: 10-11 Dec, 2020

Where: Holiday Inn New Delhi Mayur Vihar Noida, New Delhi, India

Power & Energy Technology Summit covers all aspects and activities necessary to run your power plant in a safe and most economical manner. The key objective is to continuously optimize the operations with an aim

to enhance availability, output, the efficiency of the power plant along with power plant life. For more information please [click here](#)

International Conference on Electrical, Electronics and Communication Engineering

When: 15 Nov, 2020

Where: Hotel Florence, New Delhi, India

International Conference on Electrical, Electronics and Communication Engineering conference is to bring together innovative academics and industrial experts in the field of Science, Engineering and Technology to a common forum. For more information please [click here](#)

IoT Symposium

When: 11 Nov, 2020

Where: Gurgaon, India

IoT Symposium will focus on the areas of control, communications, industrial robot, industrial cloud, smart sensors and actuators, informatics and security. It moves away from the hyped and unrealistic dreams and focuses on identifying the successful business models, case studies, actions and profitability strategies. IoT symposium brings experts together to define the future of IoT. For more information please [click here](#)

Future Mobility India

When: 24-25 Nov, 2020

Where: Pune, India

The main topics of this conference include autonomous vehicle mapping and testing, artificial intelligence, connected vehicle networks, automotive data, automaker strategy, eMobility, urban mobility, mobility-as-a-service and the consumer of the future. For more information please [click here](#)

7th Annual IoT, AI & Blockchain Summit 2020 (Virtual Conference)

When: 25 Nov, 2020

Where: remotely

This summit will explore the impact of the Internet of Things (IoT), AI & Blockchain on industries, such as manufacturing, transport, supply chain, insurance, logistics, government, energy and automotive. This will be surely an exciting event wherein you could get chance to meet big industry gems. For more information please [click here](#)

National Conference on Smart Energy Systems (NCSES)

When: 26 Oct, 2020

Where: Mumbai, Maharashtra, India

National Conference on Smart Energy Systems (NCSES) addresses the rapid strides and technological advancements currently witnessed in the fields of NCSES. The conference aspires to exhibit the technical excellence of budding technocrats, research scholars, representatives from the academia and industry. This conference aims to bring together the best of globally renewed research professionals. English is the official language of the conference. For more information please [click here](#)

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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:

At Bureau of Indian Standards (BIS)			
Electrotechnical (ETD)			
SI No	Document No	Title of the Doc	IEC/ISO
1	ETD 40 (15893)	High-voltage direct current HVDC systems Guidance to the specification and design evaluation of AC filters Part 1: Overview first revision	IEC TC- 22F SC- 22F (P)
2	ETD 40 (15894)	High-voltage direct current HVDC systems Guidance to the specification and design evaluation of AC filters Part 2: Performance first revision	IEC TC- 22F SC- 22F (P)
3	ETD 40 (15895)	High-Voltage Direct Current HVDC systems Guidance to the specification and design evaluation of ac filters Part 3: Modelling first revision	IEC TC- 22F SC- 22F (P)
4	ETD 40 (15896)	High-voltage direct current HVDC systems Guidance to the specification and design evaluation of AC filters Part 4: Equipment first revision	IEC TC- 22F SC- 22F (P)
5	ETD 3 (15981)	Draft AMENDMENT NO. 1 TO IS 335: 2018 NEW INSULATING OILS — SPECIFICATION (FIFTH REVISION)	IEC TC- (P)
6	ETD 9 (16034)	Halogen free flame retardant (HFFR) cables for working voltages up to and including 1 100 Volts - Specification Amendment - 1	IEC TC-20 (P)
7	ETD 22 (16073)	Classification of hazardous areas (Other Than Mines) having flammable gases and vapours for electrical installation (Third Revision) Amendment – 1	IEC TC-31 SC-31J,31G (P)
8	ETD 16 (14436)	DRAFT AMENDMENT NO. 4 TO IS 1180 (PART 1) : 2014 OUTDOOR/INDOOR TYPE OIL IMMERSSED DISTRIBUTION TRANSFORMERS UPTO AND INCLUDING 2 500 kVA, 33kV — SPECIFICATION (Fourth Revision)	IEC TC- 14 (P); IEC TC- 96 (P)
9	ETD 16 (1513)	Distribution transformers: Part 2 use with ester oils	IEC TC- 14 (P); IEC TC- 96 (P)

10	ETD 25 (16086)	Energy performance of lifts escalators and moving walks Part 1: Energy measurement and verification identical to ISO 25745-1	ISO TC- 178 (P)
11	ETD 25 (16087)	Energy performance of lifts escalators and moving walks Part 2: Energy calculation and classification for lifts elevators identical to ISO 25745-2	ISO TC- 178 (P)
12	ETD 25 (16088)	Energy performance of lifts escalators and moving walks Part 3: Energy calculation and classification of escalators and moving walks identical to ISO 25745-3	ISO TC- 178 (P)
13	ETD 25 (16105)	Electrical requirements for lifts escalators and moving walks : Part 6 Programmable electronic systems in safety-related applications for escalators and moving walks PESSRAE	ISO TC- 178 (P)
14	ETD 25 (16106)	Measurement of ride quality : Part 1 Lifts elevators	ISO TC- 178 (P)
15	ETD 25 (16107)	Measurement of ride quality : Part 2 Escalators and moving walks	ISO TC- 178 (P)
16	ETD 19 (16189)	Power installations exceeding 1 kV ac Part 1: Common rules	IEC TC-28 (P); IEC TC-42 (P); IEC TC-109 (O)
17	ETD 19 (16190)	Power installations exceeding 1 kV ac and 15 kV dc Part 2: dc	IEC TC-28 (P); IEC TC-42 (P); IEC TC-109 (O)
18	ETD 14 (16205)	Conduit fittings for electrical installations - Specification: Part 1 general requirements Amendment – 2	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)
19	ETD 11 (15802)	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	IEC TC-21 (O); IEC TC- SC-21A (P)

20	ETD 32 (15971)	Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 2 Vacuum Cleaners And Water-Suction Cleaning Appliances	IEC TC- 61B, 61H, 61J SC- 61B, 61H, 61J (P); IEC TC- 59A, 59C, 59D, 59F, 59L SC- 59A, 59C, 59D, 59F, 59L (P)
21	ETD 32 (15972)	Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 4 Spin Extractors	IEC TC- 61B, 61H, 61J SC- 61B, 61H, 61J (P); IEC TC- 59A, 59C, 59D, 59F, 59L SC- 59A, 59C, 59D, 59F, 59L (P)
22	ETD 32 (15973)	Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 6 Cooking Ranges Hobs Ovens and Similar Appliances	IEC TC- 61B, 61H, 61J SC- 61B, 61H, 61J (P); IEC TC- 59A, 59C, 59D, 59F, 59L SC- 59A, 59C, 59D, 59F, 59L (P)
23	ETD 32 (15974)	Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 7: Domestic Electric Clothes Washing Machines	IEC TC- 61B, 61H, 61J SC- 61B, 61H, 61J (P); IEC TC- 59A, 59C, 59D, 59F, 59L SC- 59A, 59C, 59D, 59F, 59L (P)
24	ETD 32 (15975)	Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 15 Appliances for Heating Liquids	IEC TC- 61B, 61H, 61J SC- 61B, 61H, 61J (P); IEC TC- 59A, 59C, 59D, 59F, 59L SC- 59A, 59C, 59D, 59F, 59L (P)
25	ETD 32 (16013)	SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES PART 2 PARTICULAR REQUIREMENTS SECTION 9 PARTICULAR REQUIREMENTS FOR GRILLS TOASTERS AND SIMILAR PORTABLE COOKING APPLIANCES	IEC TC- 61B, 61H, 61J SC- 61B, 61H, 61J (P); IEC TC- 59A, 59C, 59D, 59F, 59L SC- 59A, 59C, 59D, 59F, 59L (P)
26	ETD 40 (16343)	Voltage sourced converter (Vsc) valves for high - Voltage direct current (Hvdc) power transmission - Electrical testing Amendment - 1	IEC TC- 22F SC- 22F (P)
27	ETD 40 (16345)	High Voltage Direct Current (HVDC) Substation Audible Noise Amendment - 1	IEC TC- 22F SC- 22F (P)
28	ETD 20 (16347)	NATIONAL ELECTRICAL CODE OF INDIA - PART 1 (All sections) -General and Common Aspects	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)

29	ETD 20 (16357)	NATIONAL ELECTRICAL CODE OF INDIA- PART 2 All sections - GENERATING SETS AND CAPTIVE SUB-STATIONS	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)
30	ETD 20 (16358)	NATIONAL ELECTRICAL CODE OF INDIA - PART 3 (All sections) -Requirements for special installations or locations	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)
31	ETD 20 (16359)	NATIONAL ELECTRICAL CODE OF INDIA- PART 4 - Electrical installations in Industrial buildings	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)
32	ETD 20 (16360)	NATIONAL ELECTRICAL CODE OF INDIA- PART 5 - Outdoor installations	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)
33	ETD 20 (16361)	NATIONAL ELECTRICAL CODE OF INDIA - PART 6 - Electrical installations in Agricultural premises	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)
34	ETD 20 (16362)	NATIONAL ELECTRICAL CODE OF INDIA - PART 7- ELECTRICAL INSTALLATIONS IN HAZARDOUS AREAS	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)
35	ETD 20 (16363)	NATIONAL ELECTRICAL CODE OF INDIA - PART 8- Solar photovoltaic PV power supply systems	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)

ICT/LITD

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

At Bureau of Indian Standards (BIS)			
Electronics and Information Technology (LITD)			
S.No.	Document No	Title of the Doc	IEC/ISO
1	LITD 17 (14996)	Mobile Device Security Part 1 Overview	ISO/IEC TC-JTC 1 SC-27 (P)
2	LITD 17 (14997)	Mobile Device Security Part 2 Security Requirements	ISO/IEC TC-JTC 1 SC-27 (P)
3	LITD 17 (14998)	Mobile Device Security Part 3 Security levels	ISO/IEC TC-JTC 1 SC-27 (P)
4	LITD 17 (14999)	Mobile Device Security Part 4 Assessment and Evaluation	ISO/IEC TC-JTC 1 SC-27 (P)
5	LITD 9 (15865)	Electromagnetic Compatibility of Multimedia Equipment Immunity Requirements	IEC TC- 77 (P); IEC TC-CISPR (O); IEC TC- 77A SC- 77A (P); ISO TC- 77B SC- 77B (P):
6	LITD 9 (15866)	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices Part 3: Vector measurement-based systems Frequency range of 600 MHz to 6 Ghz)	IEC TC- 77 (P); IEC TC-CISPR (O); IEC TC- 77A SC- 77A (P); ISO TC- 77B SC- 77B (P):
7	LITD 9 (15871)	Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices Human models instrumentation and procedures Part 2 Procedure to determine the specific absorption rate SAR for wireless communication devices	IEC TC- 77 (P); IEC TC-CISPR (O); IEC TC- 77A SC- 77A (P); ISO TC- 77B SC- 77B (P):
8	LITD 6 (15888)	Hollow Metallic Waveguides Part 1 General requirements and measuring methods Second Revision	IEC TC-SC 46C SC- (O); IEC TC-SC 46F SC- (O)
9	LITD 6 (15889)	Flanges for waveguides Part 1 General requirements Superseding IS 10738Part 1: 1983	IEC TC-SC 46C SC- (O); IEC TC-SC 46F SC- (O)
10	LITD 6 (15890)	Radio frequency and coaxial cable assemblies Part 1 Generic specification General requirements and test methods Second Revision	IEC TC-SC 46C SC- (O); IEC TC-SC 46F SC- (O)

11	LITD 6 (15891)	Fire performance of communication cables installed in buildings	IEC TC-SC 46C SC- (O); IEC TC-SC 46F SC- (O)
12	LITD 6 (15911)	Radio frequency cables Part 3 Sectional specification for coaxial cables for use in local area networks	IEC TC-SC 46C SC- (O); IEC TC-SC 46F SC- (O)
13	LITD 6 (15912)	Radio-frequency cables Part 3 Coaxial cables for digital communication in horizontal floor wiring Section 1 Detail specification for cables of 500 m reach and up to 10 Mbps	IEC TC-SC 46C SC- (O); IEC TC-SC 46F SC- (O)
14	LITD 6 (15913)	Radio frequency cables Part 3 Coaxial cables for digital communication in horizontal floor wiring Section 2 Detail specification for coaxial cables with solid dielectric for local area networks of 185 m reach and up to 10 Mbps	IEC TC-SC 46C SC- (O); IEC TC-SC 46F SC- (O)
15	LITD 6 (15914)	Radio frequency cables Part 3 Coaxial cables for digital communication in horizontal floor wiring Section 3 Detail specification for coaxial cables with foamed dielectric for local area networks of 185 m reach and up to 10 Mbps	IEC TC-SC 46C SC- (O); IEC TC-SC 46F SC- (O)
16	LITD 6 (15915)	Coaxial communication cables Part 6 CATV drop cables Section 1 Blank detail specification	IEC TC-SC 46C SC- (O); IEC TC-SC 46F SC- (O)
17	LITD 6 (15916)	Coaxial communication cables Part 6 CATV drop cables Section 2 Detail specification for 75-4 type cables	IEC TC-SC 46C SC- (O); IEC TC-SC 46F SC- (O)
18	LITD 6 (15917)	Coaxial communication cables Part 6 CATV drop cables Section 3 Detail specification for 75-5 type cables	IEC TC-SC 46C SC- (O); IEC TC-SC 46F SC- (O)
19	LITD 6 (15918)	Coaxial communication cables Part 6 CATV drop cables Section 3 Detail specification for 75-7 type cables	IEC TC-SC 46C SC- (O); IEC TC-SC 46F SC- (O)
20	LITD 6 (15942)	Coaxial communication cables Part 8 Semi-flexible cables with polytetrafluoroethylene PTFE dielectric Section 1 Blank detail specification	IEC TC-SC 46C SC- (O); IEC TC-SC 46F SC- (O)

21	LITD 6 (15943)	Coaxial communication cables Part 8 Semi-flexible cables with solid polytetrafluoroethylene PTFE insulation Section 2 Detail specification for 50-047 type	IEC TC-SC 46C SC- (O); IEC TC-SC 46F SC- (O)
22	LITD 6 (15944)	Coaxial communication cables Part 8 Semi-flexible cables with solid polytetrafluoroethylene PTFE insulation Section 3 Detail specification for 50-086 type	IEC TC-SC 46C SC- (O); IEC TC-SC 46F SC- (O)
23	LITD 6 (15945)	Coaxial communication cables Part 8 Semi-flexible cables with polytetrafluoroethylene PTFE insulation Section 4 Detail specification for 50-141 type	IEC TC-SC 46C SC- (O); IEC TC-SC 46F SC- (O)
24	LITD 6 (15946)	Radio frequency and coaxial cable assemblies Part 2 Flexible coaxial cable assemblies Section 2 Blank detail specification	IEC TC-SC 46C SC- (O); IEC TC-SC 46F SC- (O)
25	LITD 6 (15947)	Radio frequency and coaxial cable assemblies Part 2 Flexible coaxial cable assemblies Section 3 Detail specification Frequency range 0 MHz to 1 000 MHz IEC 61169-8 connectors	IEC TC-SC 46C SC- (O); IEC TC-SC 46F SC- (O)
26	LITD 6 (15948)	Radio frequency and coaxial cable assemblies Part 2 Flexible coaxial cable assemblies Section 4 Detail specification - Radio and TV receivers Frequency range 0 MHz to 3 000 MHz IEC 61169-2 connectors	IEC TC-SC 46C SC- (O); IEC TC-SC 46F SC- (O)
27	LITD 4 (16030)	Liquid Crystal Display Devices Part 1-1: Generic Specification	IEC TC- 110 (P)
28	LITD 4 (16066)	Liquid Crystal And Solid-State Display Devices Part 2 Liquid Crystal Display Modules Sectional Specification	IEC TC- 110 (P)
29	LITD 4 (16067)	LIQUID CRYSTAL DISPLAY DEVICES PART 3: LIQUID CRYSTAL DISPLAY LCD CELLS SECTIONAL SPECIFICATION	IEC TC- 110 (P)
30	LITD 4 (16068)	LIQUID CRYSTAL DISPLAY DEVICES PART 3: LIQUID CRYSTAL DISPLAY LCD CELLS SECTION 1 BLANK DETAIL SPECIFICATION	IEC TC- 110 (P)
31	LITD 4 (16069)	Liquid Crystal Display Devices Part 4: Liquid Crystal Display Modules and Cells Essential Ratings and Characteristics First Revision of IS15934Part 4	IEC TC- 110 (P)
32	LITD 4 (16071)	LIQUID CRYSTAL DISPLAY DEVICES PART 4 MATRIX COLOUR LCD MODULES SECTION 1 ESSENTIAL RATINGS AND CHARACTERISTICS First Revision of IS 15934 Part 4 Sec 1	IEC TC- 110 (P)

33	LITD 14 (13806)	Software and Systems Engineering – Part 1 Core Agile Practices	ISO/IEC TC-JTC 1 SC-7 (P); ISO/IEC TC-JTC 1 SC-40 (P)
34	LITD 28 (14073)	Unified Data Exchange Part 1: Architecture	IEC TC-SyC SC- (P); IEC TC-SyC SC- (P); IEC TC-SEG 9 (P); ISO/IEC TC-JTC 1 SC-WG 11 (P)
35	LITD 17 (14996)	Mobile Device Security Part 1 Overview	ISO/IEC TC-JTC 1 SC-27 (P):
36	LITD 17 (14997)	Mobile Device Security Part 2 Security Requirements	ISO/IEC TC-JTC 1 SC-27 (P):
37	LITD 17 (14998)	Mobile Device Security Part 3 Security levels	ISO/IEC TC-JTC 1 SC-27 (P):
38	LITD 17 (14999)	Mobile Device Security Part 4 Assessment and Evaluation	ISO/IEC TC-JTC 1 SC-27 (P):
39	LITD 26 (16014)	Video Surveillance Systems for use in security applications-Part 5: Data specifications and image quality performance for camera devices	IEC TC- 79 SC- (P)
40	LITD 26 (16017)	Alarms and Electronics Security Systems - Part 11-31: Electronic Access Control Systems- Core interoperability protocol based on Web services	IEC TC- 79 SC- (P)
41	LITD 26 (16018)	Video surveillance systems for use in security applications Part 2-31: Live streaming and control based on web services	IEC TC- 79 SC- (P)
42	LITD 26 (16019)	Video surveillance systems for use in security applications Part 2-32: Recording control and replay based on web services	IEC TC- 79 SC- (P)
43	LITD 4 (16030)	Liquid Crystal Display Devices Part 1-1: Generic Specification	IEC TC- 110 (P)
44	LITD 4 (16066)	Liquid Crystal And Solid-State Display Devices Part 2 Liquid Crystal Display Modules Sectional Specification	IEC TC- 110 (P)
45	LITD 4 (16067)	LIQUID CRYSTAL DISPLAY DEVICES PART 3: LIQUID CRYSTAL DISPLAY LCD CELLS SECTIONAL SPECIFICATION	IEC TC- 110 (P)
46	LITD 4 (16068)	LIQUID CRYSTAL DISPLAY DEVICES PART 3: LIQUID CRYSTAL DISPLAY LCD CELLS SECTION 1 BLANK DETAIL SPECIFICATION	IEC TC- 110 (P)
47	LITD 4 (16069)	Liquid Crystal Display Devices Part 4: Liquid Crystal Display Modules and Cells Essential Ratings and Characteristics First Revision of IS15934Part 4	IEC TC- 110 (P)

48	LITD 4 (16071)	LIQUID CRYSTAL DISPLAY DEVICES PART 4 MATRIX COLOUR LCD MODULES SECTION 1 ESSENTIAL RATINGS AND CHARACTERISTICS First Revision of IS 15934 Part 4 Sec 1	IEC TC- 110 (P)
49	LITD 3 (16157)	Connectors for frequencies below 3 MHz for use with printed boards Part 1: Generic specification General requirements and guide for the preparation of detail specifications, with assessed quality	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O):
50	LITD 3 (16158)	Connectors for frequencies below 3 MHz for use with printed boards – Part 2: Detail specification for two-part connectors with assessed quality, for printed boards, for basic grid of 2.54 mm (0.1 in) with common mounting features	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O):
51	LITD 3 (16159)	Connectors for frequencies below 3 MHz for use with printed boards Part 3: Two-part connectors for printed boards having contacts spaced at 2.54 mm (0.100 in) centres and staggered terminations at that same spacing	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O):
52	LITD 3 (16160)	Connectors for frequencies below 3 MHz for use with printed boards Part 4: Two-part connectors for printed boards having contacts spaced at 1.91 mm (0.075 in) centres and staggered terminations at that same spacing	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O):
53	LITD 3 (16161)	Connectors for frequencies below 3 MHz for use with printed boards Part 5: Edge-socket connectors and two-part connectors for double-sided printed boards with 2.54 mm (0.1 in) spacing	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O):
54	LITD 3 (16162)	Connectors for frequencies below 3 MHz for use with printed boards Part 6: Edge-socket connectors and printed-board connectors with 2.54 mm (0.1 in) contact spacing for single or double-sided printed boards of 1.6 mm (0.063 in) nominal thickness	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O):
55	LITD 3 (16163)	Connectors for frequencies below 3 MHz for use with printed boards Part 8: Two-part connectors for printed boards for basic grid of 2.54 mm (0.1 in), with square male contacts of 0.63 mm x 0.63 mm	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O):

56	LITD 3 (16164)	Connectors for frequencies below 3 MHz for use with printed boards Part 11: Detail specification for concentric connectors dimensions for free connectors and fixed connectors	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O):
57	LITD 3 (16165)	Connectors for frequencies below 3 MHz for use with printed boards Part 12: Detail specification for dimensions general requirements and tests for a range of sockets designed for use with integrated circuits	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O):
58	LITD 3 (16166)	Connectors for frequencies below 3 MHz for use with printed boards - Part 13: Detail specification for two-part connectors of assessed quality for printed boards for basic grid of 2.54 mm(0.1 in) with free connectors for non-accessible insulation displacement terminations (ID)	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O):
59	LITD 3 (16173)	Connectors for use in dc low-frequency analogue and digital high speed data applications Part 4-103: Printed board connectors with assessed quality Detail specification for two-part connectors with shielding and a basic grid of 2.5 mm	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O):
60	LITD 3 (16174)	Connectors for use in d.c., low frequency analogue and digital high speed data applications – Part 4-104: Printed board connectors with assessed quality – Detail specification for two-part modular connectors, basic grid of 2.0 mm, with terminations on a multiple grid of 0.5 mm	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O):
61	LITD 3 (16175)	Connectors with assessed quality for use in dc low-frequency analogue and in digital high-speed data applications - Part 4: Printed board connectors - Section 105: Detail specification for 9 mm circular connector with 3 to 8 contacts for use in a wide range of applications including the telecommunication and audio industry	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O):

62	LITD 3 (16176)	Connectors for electronic equipment – Part 4-107: Printed board connectors with assessed quality – Detail specification for shielded two-part connectors having a basic grid of 2.0 mm, fixed part with solder and press-in terminations for printed boards, free part with non-accessible insulation displacement and crimp terminations	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O):
63	LITD 3 (16177)	Connectors for electronic equipment - Part 4-108: Printed board connectors with assessed quality - Detail specification for cable-to-board connectors, with a modular pitch of 25 mm and integrated shielding function, applicable for transverse packing density of 15 mm, having a basic grid of 2.5 mm in accordance with IEC 60917-1	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O):
64	LITD 3 (16179)	Connectors for electronic equipment – Printed board connectors – Part 4-113: Detail specification for two-part connectors having 5 rows with a grid of 2.54 mm for printed boards and backplanes in bus applications	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O):
65	LITD 26 (16182)	ALARM SYSTEMS PART 7-8: Message Formats and Protocols for serial data interfaces in alarm transmission systems Requirements for common protocol for alarm transmission using the Internet protocol	IEC TC- 79 SC- (P)
66	LITD 26 (16183)	BUILDING INTERCOM SYSTEMS PART 3-2: Application Guidelines Advanced security building intercom systems ASBIS	IEC TC- 79 SC- (P)
67	LITD 14 (13806)	Software and Systems Engineering – Part 1 Core Agile Practices	ISO/IEC TC-JTC 1 SC-7 (P); ISO/IEC TC-JTC 1 SC-40 (P)
68	LITD 28 (14073)	Unified Data Exchange Part 1: Architecture	IEC TC-SyC SC- (P); IEC TC-SEG 9 (P); ISO/IEC TC-JTC 1 SC-WG 11 (P):
69	LITD 3 (16157)	Connectors for frequencies below 3 MHz for use with printed boards Part 1: Generic specification General requirements and guide for the preparation of detail specifications, with assessed quality	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O)

70	LITD 3 (16158)	Connectors for frequencies below 3 MHz for use with printed boards – Part 2: Detail specification for two-part connectors with assessed quality, for printed boards, for basic grid of 2.54 mm (0.1 in) with common mounting features	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O)
71	LITD 3 (16159)	Connectors for frequencies below 3 MHz for use with printed boards Part 3: Two-part connectors for printed boards having contacts spaced at 2.54 mm(0.100 in)centres and staggered terminations at that same spacing	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O)
72	LITD 3 (16160)	Connectors for frequencies below 3 MHz for use with printed boards Part 4: Two-part connectors for printed boards having contacts spaced at 1.91 mm (0.075 in)centres and staggered terminations at that same spacing	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O)
73	LITD 3 (16161)	Connectors for frequencies below 3 MHz for use with printed boards Part 5: Edge-socket connectors and two-part connectors for double-sided printed boards with 2.54 mm (0.1 in) spacing	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O)
74	LITD 3 (16162)	Connectors for frequencies below 3 MHz for use with printed boards Part 6: Edge-socket connectors and printed-board connectors with 2.54 mm (0.1 in) contact spacing for single or double-sided printed boards of 1.6 mm (0.063 in) nominal thickness	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O)
75	LITD 3 (16163)	Connectors for frequencies below 3 MHz for use with printed boards Part 8: Two-part connectors for printed boards for basic grid of 2.54 mm (0.1 in), with square male contacts of 0.63 mm x 0.63 mm	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O)
76	LITD 3 (16164)	Connectors for frequencies below 3 MHz for use with printed boards Part 11: Detail specification for concentric connectors dimensions for free connectors and fixed connectors	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O)
77	LITD 3 (16165)	Connectors for frequencies below 3 MHz for use with printed boards Part 12: Detail specification for dimensions general requirements and tests for a range of sockets designed for use with integrated circuits	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O)

78	LITD 3 (16166)	Connectors for frequencies below 3 MHz for use with printed boards - Part 13: Detail specification for two-part connectors of assessed quality for printed boards for basic grid of 2.54 mm(0.1 in) with free connectors for non-accessible insulation displacement terminations (ID)	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O)
79	LITD 3 (16167)	Connectors for frequencies below 3 MHz for use with printed boards Part 14: Detail specification for circular connectors for low-frequency audio and video applications such as audio video and audio-visual equipment	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O)
80	LITD 3 (16168)	Connectors for electronic equipment Product requirements Part 1: Generic specification	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O)
81	LITD 3 (16170)	Connectors for electronic equipment Part 4-100: Printed board connectors with assessed quality Detail specification for two-part connector modules having a grid of 2.5 mm for printed boards and backplanes	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O)
82	LITD 3 (16171)	Connectors for electronic equipment Part 4-101: Printed board connectors with assessed quality Detail specification for two-part connector modules having a basic grid of 2.0 mm for printed boards and backplanes in accordance with IEC 60917	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O)
83	LITD 3 (16172)	Connectors with assessed quality for use in d.c., low-frequency analogue and in digital high speed data applications – Part 4: Printed board connectors – Section 102: Detail specification for two-part single-pole connectors, for multiple uses on plug-in units, with pre-centring, coding and early mating features, having a metric grid in accordance with IEC 60917	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O)
84	LITD 3 (16173)	Connectors for use in dc low-frequency analogue and digital high speed data applications Part 4-103: Printed board connectors with assessed quality Detail specification for two-part connectors with shielding and a basic grid of 2.5 mm	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O)

85	LITD 3 (16174)	Connectors for use in d.c., low frequency analogue and digital high speed data applications – Part 4-104: Printed board connectors with assessed quality – Detail specification for two-part modular connectors, basic grid of 2.0 mm, with terminations on a multiple grid of 0.5 mm	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O)
86	LITD 3 (16175)	Connectors with assessed quality for use in dc low-frequency analogue and in digital high-speed data applications - Part 4: Printed board connectors - Section 105: Detail specification for 9 mm circular connector with 3 to 8 contacts for use in a wide range of applications including the telecommunication and audio industry	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O)
87	LITD 3 (16176)	Connectors for electronic equipment – Part 4-107: Printed board connectors with assessed quality – Detail specification for shielded two-part connectors having a basic grid of 2.0 mm, fixed part with solder and press-in terminations for printed boards, free part with non-accessible insulation displacement and crimp terminations	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O)
88	LITD 3 (16177)	Connectors for electronic equipment - Part 4-108: Printed board connectors with assessed quality - Detail specification for cable-to-board connectors, with a modular pitch of 25 mm and integrated shielding function, applicable for transverse packing density of 15 mm, having a basic grid of 2.5 mm in accordance with IEC 60917-1	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O)
89	LITD 3 (16178)	Connectors for electronic equipment- Part 4-110: Printed board connectors with assessed quality Detail specification for latched cable connector system having a basic grid of 2.0 mm including full shielding and latching function	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O)
90	LITD 3 (16179)	Connectors for electronic equipment – Printed board connectors – Part 4-113: Detail specification for two-part connectors having 5 rows with a grid of 2.54 mm for printed boards and backplanes in bus applications	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O)
91	LITD 3 (16180)	Connectors for electronic equipment Part 4-115: Printed board connectors Backplane connector for InfiniBand equipment	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O)

92	LITD 3 (16181)	Connectors for electronic equipment Product requirements Part 4-116: Printed board connectors Detail specification for a high-speed two-part connector with integrated shielding function	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O)
93	LITD 26 (16182)	ALARM SYSTEMS PART 7-8: Message Formats and Protocols for serial data interfaces in alarm transmission systems Requirements for common protocol for alarm transmission using the Internet protocol	IEC TC- 79 SC- (P)
94	LITD 26 (16183)	BUILDING INTERCOM SYSTEMS PART 3-2: Application Guidelines Advanced security building intercom systems ASBIS	IEC TC- 79 SC- (P)
95	LITD 3 (16372)	Capacitors and resistors for use in electronic equipment Preferred dimensions of shaft ends bushes and for the mounting of single-hole bush-mounted shaft-operated electronic components	IEC TC- 48 (P); IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O)

Transport (TED)

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

At Bureau of Indian Standards (BIS)			
Transport Engineering Department (TED)			
S.No.	Document No	Title of the Doc	IEC/ISO
1	TED 7 (14005)	Automotive Vehicles Temporary - Use Spare Tyres and T-Type Temporary Use Spare 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);
2	TED 11 (15614)	Rear marking plates for heavy and long vehicles - specification	ISO TC-22 (P); ISO TC-22 SC-31 (P); ISO TC-22 SC-32 (P); ISO TC-22 SC-35 (P)
3	TED 26 (15682)	ROAD VEHICLES - LIQUEFIED NATURAL GAS LNG FUEL SYSTEM COMPONENTS - CHECK VALVE	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)

4	TED 6 (15754)	Automotive vehicles - Window retention and release systems for buses - Safety 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)
5	TED 26 (15905)	Gaseous Hydrogen Land Vehicle Refuelling Connection Devices	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)
6	TED 26 (15906)	FUEL CELL ROAD VEHICLES - ENERGY CONSUMPTION MEASUREMENT - VEHICLES FUELLED WITH COMPRESSED HYDROGEN	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)
7	TED 26 (15941)	Road Vehicles Compressed Gaseous Hydrogen CGH2 And Hydrogen Natural Gas Blend Fuel System Components Part 1: General Requirements And Definitions	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)
8	TED 26 (15949)	ROAD VEHICLES COMPRESSED GASEOUS HYDROGEN CGH2 AND HYDROGEN NATURAL GAS BLEND FUEL SYSTEM COMPONENTS PART 2: PERFORMANCE AND GENERAL TEST METHODS	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)
9	TED 26 (15979)	ROAD VEHICLES COMPRESSED GASEOUS HYDROGEN CGH2 AND HYDROGEN NATURAL GAS BLENDS FUEL SYSTEM COMPONENTS CHECK VALVE	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)
10	TED 26 (15995)	ROAD VEHICLES COMPRESSED GASEOUS HYDROGEN CGH2 AND HYDROGEN NATURAL GAS BLEND FUEL SYSTEM COMPONENTS AUTOMATIC VALVE	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)
11	TED 26 (15996)	ROAD VEHICLES COMPRESSED GASEOUS HYDROGEN CGH2 AND HYDROGEN NATURAL GAS BLENDS FUEL SYSTEM COMPONENTS GAS INJECTOR	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)
12	TED 26 (15997)	ROAD VEHICLES COMPRESSED GASEOUS HYDROGEN CGH2 AND HYDROGEN NATURAL GAS BLENDS FUEL SYSTEM COMPONENTS PRESSURE INDICATOR	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)
13	TED 26 (16028)	ROAD VEHICLES COMPRESSED GASEOUS HYDROGEN CGH2 AND HYDROGEN NATURAL GAS BLENDS FUEL SYSTEM COMPONENTS FLEXIBLE FUEL LINE	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)
14	TED 26 (16029)	ROAD VEHICLES COMPRESSED GASEOUS HYDROGEN CGH2 AND HYDROGEN NATURAL GAS BLENDS FUEL SYSTEM COMPONENTS FILTER	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)

15	TED 26 (16031)	ROAD VEHICLES COMPRESSED GASEOUS HYDROGEN CGH2 AND HYDROGEN NATURAL GAS BLENDS FUEL SYSTEM COMPONENTS FITTINGS	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)
16	TED 26 (16083)	ROAD VEHICLES COMPRESSED GASEOUS HYDROGEN CGH2 AND HYDROGEN NATURAL GAS BLENDS FUEL SYSTEM COMPONENTS PRESSURE RELIEF DEVICE PRD	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)
17	TED 7 (16084)	Automotive vehicles - Wheel rims for two and three wheeled vehicles: Part 1 light alloy wheel rims - Method of tests and requirements 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);
18	TED 7 (16085)	Automotive vehicles - Wheel rims for two and three wheeled vehicles: Part 2 sheet metal wheel rims - Method of tests and requirements 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);
19	TED 26 (15995)	ROAD VEHICLES COMPRESSED GASEOUS HYDROGEN CGH2 AND HYDROGEN NATURAL GAS BLEND FUEL SYSTEM COMPONENTS AUTOMATIC VALVE	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)
20	TED 26 (15996)	ROAD VEHICLES COMPRESSED GASEOUS HYDROGEN CGH2 AND HYDROGEN NATURAL GAS BLENDS FUEL SYSTEM COMPONENTS GAS INJECTOR	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)
21	TED 26 (15997)	ROAD VEHICLES COMPRESSED GASEOUS HYDROGEN CGH2 AND HYDROGEN NATURAL GAS BLENDS FUEL SYSTEM COMPONENTS PRESSURE INDICATOR	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)
22	TED 26 (16028)	ROAD VEHICLES COMPRESSED GASEOUS HYDROGEN CGH2 AND HYDROGEN NATURAL GAS BLENDS FUEL SYSTEM COMPONENTS FLEXIBLE FUEL LINE	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)

23	TED 26 (16029)	ROAD VEHICLES COMPRESSED GASEOUS HYDROGEN CGH2 AND HYDROGEN NATURAL GAS BLENDS FUEL SYSTEM COMPONENTS FILTER	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)
24	TED 26 (16031)	ROAD VEHICLES COMPRESSED GASEOUS HYDROGEN CGH2 AND HYDROGEN NATURAL GAS BLENDS FUEL SYSTEM COMPONENTS FITTINGS	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)
25	TED 26 (16083)	ROAD VEHICLES COMPRESSED GASEOUS HYDROGEN CGH2 AND HYDROGEN NATURAL GAS BLENDS FUEL SYSTEM COMPONENTS PRESSURE RELIEF DEVICE PRD	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)
26	TED 7 (16085)	Automotive vehicles - Wheel rims for two and three wheeled vehicles: Part 2 sheet metal wheel rims - Method of tests and requirements 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)
27	TED 2 (16117)	Reciprocating internal combustion engine - Vocabulary - Part 2: Terms for engine maintenance	ISO TC-22 (P); ISO TC-22 SC-34 (P); ISO TC-70 (P); ISO TC-70 SC-7 (P); ISO TC-70 SC-8 (P):
28	TED 2 (16120)	Reciprocating internal combustion engine driven alternating current generating sets - Part 2: Engines	ISO TC-22 (P); ISO TC-22 SC-34 (P); ISO TC-70 (P); ISO TC-70 SC-7 (P); ISO TC-70 SC-8 (P):
29	TED 2 (16121)	Reciprocating internal combustion engines - Exhaust emission measurement - Part 3: Test procedures for measurement of exhaust gas smoke emissions from compression ignition engines using a filter type smoke meter	ISO TC-22 (P); ISO TC-22 SC-34 (P); ISO TC-70 (P); ISO TC-70 SC-7 (P); ISO TC-70 SC-8 (P):

30	TED 7 (16127)	Automotive vehicles - Wheel rims for two and three wheeled vehicles: Part 1 light alloy wheel rims - Method of tests and requirements 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)
31	TED 2 (16129)	Reciprocating internal combustion engines - Exhaust emission measurement - Part 9: Test cycles and test procedures for measurement of exhaust gas smoke emissions from compression ignition engines using an opacimeter	ISO TC-22 (P); ISO TC-22 SC-34 (P); ISO TC-70 (P); ISO TC-70 SC-7 (P); ISO TC-70 SC-8 (P):
32	TED 11 (16132)	Road Vehicles - Fuse-links - Part 6: Single-bolt fuse-links	ISO TC-22 (P); ISO TC-22 SC-31 (P); ISO TC-22 SC-32 (P); ISO TC-22 SC-35 (P)
33	TED 11 (15885)	Headlight Switches for Automobiles – Specification	ISO TC-22 (P); ISO TC-22 SC-31 (P); ISO TC-22 SC-32 (P); ISO TC-22 SC-35 (P)
34	TED 2 (16117)	Reciprocating internal combustion engine - Vocabulary - Part 2: Terms for engine maintenance	ISO TC-22 (P); ISO TC-22 SC-34 (P); ISO TC-70 (P); ISO TC-70 SC-7 (P); ISO TC-70 SC-8 (P)
35	TED 2 (16120)	Reciprocating internal combustion engine driven alternating current generating sets - Part 2: Engines	ISO TC-22 (P); ISO TC-22 SC-34 (P); ISO TC-70 (P); ISO TC-70 SC-7 (P); ISO TC-70 SC-8 (P)
36	TED 2 (16121)	Reciprocating internal combustion engines - Exhaust emission measurement - Part 3: Test procedures for measurement of exhaust gas smoke emissions from compression ignition engines using a filter type smoke meter	ISO TC-22 (P); ISO TC-22 SC-34 (P); ISO TC-70 (P); ISO TC-70 SC-7 (P); ISO TC-70 SC-8 (P)
37	TED 2 (16129)	Reciprocating internal combustion engines - Exhaust emission measurement - Part 9: Test cycles and test procedures for measurement of exhaust gas smoke emissions from compression ignition engines using an opacimeter	ISO TC-22 (P); ISO TC-22 SC-34 (P); ISO TC-70 (P); ISO TC-70 SC-7 (P); ISO TC-70 SC-8 (P)

38	TED 11 (16132)	Road Vehicles - Fuse-links - Part 6: Single-bolt fuse-links	ISO TC-22 (P); ISO TC-22 SC-31 (P); ISO TC-22 SC-32 (P); ISO TC-22 SC-35 (P)
39	TED 24 (16292)	Freight containers Electronic seals Part 1: Communication protocol	ISO TC- 51 (P); ISO TC- 104 (P); ISO TC- 122 (P); ISO TC- 3 SC- 3 (O); ISO TC- 4 SC- 4 (P); ISO TC- 1 SC- 1 (P); ISO TC- 2 SC- 2 (P); ISO TC- 4 SC- 4 (P):
40	TED 24 (16293)	Freight containers Electronic seals Part 2: Application requirements	ISO TC- 51 (P); ISO TC- 104 (P); ISO TC- 122 (P); ISO TC- 3 SC- 3 (O); ISO TC- 4 SC- 4 (P); ISO TC- 1 SC- 1 (P); ISO TC- 2 SC- 2 (P); ISO TC- 4 SC- 4 (P):
41	TED 24 (16294)	Freight Containers Electronic Seals Part 3: Environmental Characteristics	ISO TC- 51 (P); ISO TC- 104 (P); ISO TC- 122 (P); ISO TC- 3 SC- 3 (O); ISO TC- 4 SC- 4 (P); ISO TC- 1 SC- 1 (P); ISO TC- 2 SC- 2 (P); ISO TC- 4 SC- 4 (P):
42	TED 24 (16295)	Freight containers Electronic seals Part 4: Data protection	ISO TC- 51 (P); ISO TC- 104 (P); ISO TC- 122 (P); ISO TC- 3 SC- 3 (O); ISO TC- 4 SC- 4 (P); ISO TC- 1 SC- 1 (P); ISO TC- 2 SC- 2 (P); ISO TC- 4 SC- 4 (P):
43	TED 24 (16296)	Freight containers Electronic seals Part 5: Physical layer	ISO TC- 51 (P); ISO TC- 104 (P); ISO TC- 122 (P); ISO TC- 3 SC- 3 (O); ISO TC- 4 SC- 4 (P); ISO TC- 1 SC- 1 (P); ISO TC- 2 SC- 2 (P); ISO TC- 4 SC- 4 (P):

44	TED 24 (16307)	Packaging Transport packaging for dangerous goods Recycled plastics material	ISO TC- 51 (P); ISO TC- 104 (P); ISO TC- 122 (P); ISO TC- 3 SC- 3 (O); ISO TC- 4 SC- 4 (P); ISO TC- 1 SC- 1 (P); ISO TC- 2 SC- 2 (P); ISO TC- 4 SC- 4 (P):
45	TED 24 (16308)	Transport packages for dangerous goods Dangerous goods packagings intermediate bulk containers IBCs and large packagings Guidelines for the application of ISO 9001	ISO TC- 51 (P); ISO TC- 104 (P); ISO TC- 122 (P); ISO TC- 3 SC- 3 (O); ISO TC- 4 SC- 4 (P); ISO TC- 1 SC- 1 (P); ISO TC- 2 SC- 2 (P); ISO TC- 4 SC- 4 (P):
46	TED 24 (16309)	Packaging Transport packaging for dangerous goods Test methods	ISO TC- 51 (P); ISO TC- 104 (P); ISO TC- 122 (P); ISO TC- 3 SC- 3 (O); ISO TC- 4 SC- 4 (P); ISO TC- 1 SC- 1 (P); ISO TC- 2 SC- 2 (P); ISO TC- 4 SC- 4 (P):
47	TED 24 (16324)	Pallets — Slip Sheets	ISO TC- 51 (P); ISO TC- 104 (P); ISO TC- 122 (P); ISO TC- 3 SC- 3 (O); ISO TC- 4 SC- 4 (P); ISO TC- 1 SC- 1 (P); ISO TC- 2 SC- 2 (P); ISO TC- 4 SC- 4 (P):
48	TED 24 (16326)	Freight containers Container Tracking and Monitoring Systems CTMS: Requirements	ISO TC- 51 (P); ISO TC- 104 (P); ISO TC- 122 (P); ISO TC- 3 SC- 3 (O); ISO TC- 4 SC- 4 (P); ISO TC- 1 SC- 1 (P); ISO TC- 2 SC- 2 (P); ISO TC- 4 SC- 4 (P):

49	TED 24 (16338)	Packaging — Accessible Design — Ease of Opening	ISO TC- 51 (P); ISO TC- 104 (P); ISO TC- 122 (P); ISO TC- 3 SC- 3 (O); ISO TC- 4 SC- 4 (P); ISO TC- 1 SC- 1 (P); ISO TC- 2 SC- 2 (P); ISO TC- 4 SC- 4 (P):
50	TED 24 (16339)	Packaging Accessible Design General Requirements	ISO TC- 51 (P); ISO TC- 104 (P); ISO TC- 122 (P); ISO TC- 3 SC- 3 (O); ISO TC- 4 SC- 4 (P); ISO TC- 1 SC- 1 (P); ISO TC- 2 SC- 2 (P); ISO TC- 4 SC- 4 (P):
51	TED 24 (16340)	Packaging Tactile Warnings of Danger Requirements	ISO TC- 51 (P); ISO TC- 104 (P); ISO TC- 122 (P); ISO TC- 3 SC- 3 (O); ISO TC- 4 SC- 4 (P); ISO TC- 1 SC- 1 (P); ISO TC- 2 SC- 2 (P); ISO TC- 4 SC- 4 (P):
52	TED 24 (16352)	Packaging Label Material Required Information for Ordering and Specifying Self-Adhesive Labels	ISO TC- 51 (P); ISO TC- 104 (P); ISO TC- 122 (P); ISO TC- 3 SC- 3 (O); ISO TC- 4 SC- 4 (P); ISO TC- 1 SC- 1 (P); ISO TC- 2 SC- 2 (P); ISO TC- 4 SC- 4 (P):
53	TED 24 (16367)	Series 1 Freight Containers — Handling and Securing — Rationale for ISO 3874:2017 Annexes A To E	ISO TC- 51 (P); ISO TC- 104 (P); ISO TC- 122 (P); ISO TC- 3 SC- 3 (O); ISO TC- 4 SC- 4 (P); ISO TC- 1 SC- 1 (P); ISO TC- 2 SC- 2 (P); ISO TC- 4 SC- 4 (P):

54	TED 24 (16368)	Series 1 Freight Containers - Rationale for Structural Test Criteria	ISO TC- 51 (P); ISO TC- 104 (P); ISO TC- 122 (P); ISO TC- 3 SC- 3 (O); ISO TC- 4 SC- 4 (P); ISO TC- 1 SC- 1 (P); ISO TC- 2 SC- 2 (P); ISO TC- 4 SC- 4 (P):
55	TED 24 (16369)	Thermal Containers Safety Standard for Refrigerating Systems Using Flammable Refrigerants Requirements for Design and Operation	ISO TC- 51 (P); ISO TC- 104 (P); ISO TC- 122 (P); ISO TC- 3 SC- 3 (O); ISO TC- 4 SC- 4 (P); ISO TC- 1 SC- 1 (P); ISO TC- 2 SC- 2 (P); ISO TC- 4 SC- 4 (P):

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:

At Automotive Research Association of India (ARAI)				
S.No.	Department	Code	Title	Last Date for Comments
1	Automotive	Draft AIS-167/DF/ August 2020	Constructional and Functional Requirements for Special Purpose Vehicle Two Wheeled First Responder- Fire	--
2	Automotive	Draft AIS-163/D1/July 2020	Procedure for Type Approval of Special Purpose Vehicles (SPV's) for Compliance to Central Motor Vehicles Rules	--
3	Automotive	Draft AIS-167/DF/ August 2020	Constructional and Functional Requirements for Special Purpose Vehicle Two Wheeled First Responder- Fire	--
4	Automotive	Proposed Draft Amd. No. 2 to AIS-071 (Part 1)/2009	Automotive Vehicles – Identification of Controls, Tell-Tales and Indicators	--
5	Automotive	Proposed Draft Amd. No. 1 to AIS-071 (Part 1) (Rev. 1)	Automotive Vehicles – Identification of Controls, Tell-Tales and Indicators	--
6	Automotive	Draft Amd. No. 4 to AIS 110:2009	Automotive Vehicles -Temporary-Use Spare Wheel/ Tyres and Run Flat Tyres	--
7	Automotive	Draft AIS-170/ DF / Sept. 2020	Remote Sensing Devices for on-road Emissions Monitoring – Product Specifications and Programme Guidelines	--

ICT at TSDSI

Activities at TSDSI				
"List of New Item for Proposal at TSDSI"				
S. No.	New Item Proposal	Name	Version	Status
1	NIP 256	Study of technical aspects for deployment of a pan-India PPDR network based on PS-LTE technology	TSDSI-SGSS-NIP256-V1.0.0-20201006	Accepted
2	NIP 255	Rural Broadband Architecture	TSDSI-SGSS-NIP255-V1.0.0-20200925	Accepted
3	NIP 235	Proposal for study on use cases, requirements and technologies towards 6G	TSDSI-SGN-NIP235-V3.0.0-20200918	Accepted
4	NIP 239	Common user profile to promote accessibility in audio visual media	TSDSI-SGSS-NIP239-V1.1.0-20200917	Accepted
5	NIP 254	Need of Post Quantum Cryptography in 5G Networks	TSDSI-SGSS-NIP254-V1.0.0-20200911	Accepted
6	NIP 245	Need of Post Quantum Cryptography in 5G Networks	TSDSI-SGSS-NIP245-V1.0.0-20200910	Accepted
7	NIP 244	Know-Your-Machine-Custodian (KYMC)	TSDSI-SGSS-NIP244-V2.0.0-20200910	Accepted
8	NIP 243	IoT Identifier	TSDSI-SGSS-NIP243-V1.1.0-20200909	Accepted
9	NIP 244	Machine KYC	TSDSI-SGSS-NIP244-V1.1.0-20200909	Accepted
10	NIP 235	Proposal for study on use cases, requirements and technologies towards 6G	TSDSI-SGN-NIP235-V2.0.0-20200907	Accepted
11	NIP 249	NB-IoT Performance Assessment for Metering and SCADA	TSDSI-SGN-NIP249-V2.0.0-20200906	Accepted
12	NIP 253	UAV Assisted C-RAN for 5G and beyond	TSDSI-SGN-NIP253-V1.0.0-20200902	Accepted
13	NIP 252	EPON based back-hauling in 4G/5G networks to reduce hand-off latency	TSDSI-SGN-NIP252-V1.0.0-20200902	Accepted

14	NIP 251	Dynamic joint deployment of SDN Controllers and Hypervisors (Load and Latency Aware Joint Hypervisor Controller Deployment for 5G)	TSDSI-SGN-NIP251-V1.0.0-20200902	Accepted
15	NIP 250	Bandwidth aggregation for 5G TV Broadcast from the co-located UEs: A physical layer prospective with FeMBMS and downlink broadcast control channel.	TSDSI-SGN-NIP250-V1.0.0-20200902	Accepted
16	NIP 249	NIP NB-IoT Performance Assessment for Metering and SCADA	TSDSI-SGN-NIP249-V1.0.0-20200901	Accepted
17	NIP 248	Evaluation of the existing IAB architecture in 5G Networks	TSDSI-SGN-NIP248-V1.0.0-20200831	Accepted
18	NIP 247	oneM2M Release 3 Transposition as TSDSI specifications	TSDSI-SGSS-NIP247-V1.0.0-20200824	Accepted
19	NIP 246	Study of 6 GHz spectrum for license-exempt wireless applications in India	TSDSI-SGN-NIP246-V1.0.0-20200805	Accepted

[For complete details of the NIP please click here](#)

“List of Study Item status update”

S. No.	Study Item	Name	Version	Status
1	SI74	Study of 6 GHz spectrum for license-exempt wireless applications in India	TSDSI-SGN-SI74-V1.0.0-20200901	Initiated
2	SI73	Study of 6 GHz spectrum for IMT applications in India	TSDSI-SGN-SI73-V1.0.0-20200805	Initiated

[For complete details of the Study Items please click here](#)

“List of SWIP Status Update”

S. No.	SWIP	Name	Version	Status
1	SWIP684	Draft Cover Letter for TR – Reducing Threats to Nation CII Using DNS (SI68)	TSDSI-SGSS-SWIP684-V1.1.0-20201005	Accepted
2	SWIP676	Comparison of proposed scheme with 3GPP Rel. 16 scheme for cross-link interference measurement in SRS misalignment scenario	TSDSI-SGN-SWIP676-V1.0.0-20200831	Accepted
3	SWIP677	Summary of Email discussion on “SWIP 664 “	TSDSI-SGN-SWIP677-V1.0.0-20200831	Accepted
4	SWIP678	TR update on enhancement of flexible UL/DL resource utilization	TSDSI-SGN-SWIP678-V1.0.0-20200831	Accepted
5	SWIP679	Status update on Technical Report for “5G Extension of Broadcast Offload “	TSDSI-SGN-SWIP679-V1.0.0-20200906	Accepted

6	SWIP680	Next Steps for SI 68 (Reducing threat to national critical infrastructure using DNS)	TSDSI-SGSS-SWIP680-V1.0.0-20200904	Accepted
7	SWIP677	Summary of Email discussion on “SWIP 664 “	TSDSI-SGN-SWIP677-V2.0.0-20200907	Accepted
8	SWIP681	Indian Language Support for Financial Transaction & Application base document	TSDSI-SGSS-SWIP681-V1.0.0-20200909	Accepted
9	SWIP682	Rural Broadband Architecture	TSDSI-SGSS-SWIP682-V1.0.0-20200909	Accepted
10	SWIP683	DCS draft TR	TSDSI-SGSS-SWIP683-V1.0.0-20200909	Accepted
11	SWIP683	DCS draft TR	TSDSI-SGSS-SWIP683-V1.1.0-20200910	Accepted
12	SWIP684	Draft Cover Letter for TR – Reducing Threats to Nation CII Using DNS (SI68)	TSDSI-SGSS-SWIP684-V1.0.0-20200910	Accepted

[For complete details of the SWIP please click here and select SWIP](#)

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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 IV

SESEI stands for “Seconded European Standardization Expert in India” and is a 5-partner’s project based in New Delhi, India, with the objective to increase visibility of European standardization and promote EU/EFTA-India cooperation on standards and related issues. The Project is managed by the European Telecommunications Standards Institute (ETSI), a European Union recognized Standards Organization, and is further supported by the other two other recognized EU Standards Organizations CEN and CENELEC. The other two partners to this Project are the European Commission and the European Free Trade Association. It is a Standardization focused project, with a priority emphasis on the following sectors: ICT, Automotive, Electronic Appliances including Consumer Electronics and Smart Cities etc.

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