SESEI
Newsletter

SECONDED EUROPEAN STANDARDIZATION EXPERT IN INDIA

EUROPE

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cen	CENELEC	ETSI	European Commission	EFTA
European Committee for Standardization	European Committee for Electro Technical Standardization	European Telecommunications Standards Institute	European Commission	European Free Trade Association

Greeting from SESEI!

Dear Readers,

We welcome you all to the eleventh edition of the "SESEI Newsletter – Europe". In this newsletter, we have covered the recent news and updates from the India concerning our project priority sectors for the quarter period of January to March 2022.

At the outset, we are pleased to share that a Memorandum of Understanding (MoU) has been signed between Bureau of Indian Standards (BIS) with ETSI and CEN-CENELEC. The signing of the MoU's is a significant milestone for the Project SESEI and the project partners as it will further strengthen our ongoing cooperation between European standardisation bodies and BIS on various topics of mutual interest. BIS under Ministry of Consumer Affairs is steadfastly working towards creating a roadmap for economic growth with quality infrastructure and products at par with the international standards. Emphasis is being given by the Ministry to follow five growth mantras by ensuring that standards become facilitator, not an obstructer, BIS should become a global organization by learning from the experiences of other countries, integration with international standards, setting up of high-quality labs, bring a quality or standard revolution through 'One Nation One Standard', and the fifth mantra was to ensure that maintaining quality did not become expensive. BIS is regularly conducting webinars and workshops on specific topics for the technical committees and the stakeholders, allowing them to engage and keep them abreast of the latest developments in the specific area/ technology standardisation. As a representative of European standards organization, SESEI is actively working with BIS in many domains to ensure synergies between the project partners and BIS.

While the completion of Smart Cities Program has been delayed due to varied reasons including pandemic, it has been informed that the command-and-Control centres of all the 100 smart cities will be operational by August 2022. The World Economic Forum and the National Institute of Urban Affairs (NIUA) have signed a Memorandum of Understanding (MoU) to collaborate on a jointly designed

'Sustainable Cities India program' which will aim to create an enabling environment for cities to generate decarbonization solutions across the energy, transport, and the built environment sectors.

A push to accelerate the take up of EV vehicles has been announced in the Union Budget 2022 and it proposes to build in a big way EV charging infra on the national highways, EV battery policy and boost to local parts manufacturing as part of its announcements. A campaign called Shoonya (Meaning Zero) has also been initiated jointly by the NITI Aayog and RMI India, in which over 70 corporate partners from e-commerce, ride-hailing, logistics and manufacturing ecosystems have joined the initiative to promote zero-pollution mobility across the nation. The other significant development during this quarter has been revision in the EV Charging guidelines in which various changes have been made to create a solid EV Charging ecosystem throughout the country.

A strong surge in the export of electronic goods from India has been witnessed during the financial year 2021-22 and is mainly attributed to a combination of policies and initiatives to position India as a global hub for electronics system design and manufacturing (ESDM). Mobile phones, IT hardware including laptops and tablets, consumer electronics such as televisions and audio, industrial electronics and auto electronics are the key drivers of this growth. In the same framework, a report for India to become a approx. €280-billion electronics manufacturing center has been jointly released by The Ministry of Electronics and Information Technology (MeitY), in association with India Cellular and Electronics Association (ICEA). The government is expecting an investment of €4.26 billion under the Performance Linked Incentive (PLI) scheme for the large-scale electronics manufacturing, mainly mobile phones and electronic components, by 2025. The government has also approved proposals of 20 companies under the Scheme for Promotion of Manufacturing of Electronic Components and Semiconductors (SPECS).

Due importance is being given to the energy efficiency and the green economy by India like as by EU alike. First phase of Green Hydrogen Policy has been released as a step towards National Hydrogen Mission. The mission aims to make India a green hydrogen hub and to meet its climate targets. In fact, as per rating agency ICRA, India's ambitious emission control commitments made at the COP26 climate conference in Glasgow will open massive opportunities for investment across segments and require timely intervention by the government and large capex requirements in greenhouse gas-emitting sectors like power, industry, and transport. On this, India and Denmark have also agreed to work together on green fuels including green hydrogen. The Joint Committee comprising of India and Denmark senior officials discussed national strategic priorities and developments in Science, Technology, and Innovation of both countries with a special focus on green solutions of the future - strategy for investments in green research, technology, and innovation at the virtual meeting.

In the ICT Sector, Department of Telecommunication (DoT) has commenced the process of accepting applications for registration of the M2M Service Provider Companies. Guidelines for Registration Process of M2M Service Providers (M2MSP) & WPAN/WLAN Connectivity Provider for M2M Services have also been issued by DoT. The other important development is that India may scrap the current version of the Personal Data Protection Bill 2019 and introduce a fresh privacy bill to comprehensively address the requirements of the country's changing technology landscape. For smooth and expeditious role out of 5G services in the country, DoT is also likely to come out with draft policy to speed up clearances for radio frequency allocations for small cells, a key 5G infrastructure. This is likely to be implemented across all the 28 states for uniformity purposes. Apart from 5G rollouts, government is also focusing on development of the Artificial Intelligence (AI) technologies for the country. The Ministry of Electronics and Information Technology (MEITY) will set up centres for transformational artificial intelligence that will collaborate with academia and industry to develop AI-based solutions. Telecom Engineering Centre (TEC) has also invited inputs for creating Framework for Fairness Assessment of AI/ML Systems #AIforAll.

Lastly, SESEI has released a sector profile report on "Indian Electrical Power Equipment Industry and Electronics Industry including Consumer Electronics", to provide in brief the sector profile, developments, challenges & opportunities in India, i.e., the regulatory, policy, market insights, latest developments and current state of play covering standards development & policy initiatives in India to support the sectoral growth. As always, we look forward to your comments and suggestions to further improvise it.

Warm Regards,
Dinesh Chand Sharma

SESEI | Seconded European Standardisation Expert in India

Enabling Europe-India Cooperation on Standards

Standards/IPR/TBT-Market Access

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

news18.com

Bureau of Indian Standards (BIS) to chalk out a plan for the next 25 years

Congratulating BIS on its 75th anniversary, Consumer Affairs Minister Piyush Goyal asked the Bureau of Indian Standards (BIS) to follow five growth mantras and it is time for BIS to plan and chart out a 25-year agenda until 2047. First, the minister said BIS should be a facilitator, not an obstructer. Secondly, it should develop as a global organization by learning from the experiences of other countries and integrating with international standards. Thirdly, BIS should work on GAP analysis to assess attesting laboratory needs of the country and set up high-quality modern labs across India. The fourth suggestion from the minister was to bring a quality or standard revolution through 'One Nation One Standard', and the fifth mantra was to ensure that maintaining quality did not become expensive.

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Work Plan 2022 signed between India and Germany to strengthen Quality Infrastructure, reduce technical barriers to trade, enhance product safety and strengthen consumer protection

The 8th Annual Meeting of the Indo-German Working Group on Quality Infrastructure, led by the Indian Ministry for Consumer Affairs, Food and Public Distribution and the German Federal Ministry for Economic Affairs and Energy was held virtually. Secretary, Department of Consumer Affairs said that Germany is as an important and trusted partner for India. He underscored the importance of a well-established and robust quality infrastructure which consists of standardization, technical regulations, and market surveillances for the success of the Government of India initiative to transform India into a Global manufacturing hub. He expressed hope that the Work Plan 2022 signed virtually during the meeting would pave the way forward for collaboration towards well-functioning and resilient systems of quality infrastructures. He urged involvement of all the relevant stakeholders such as different ministries, standardization bodies and Industry to learn from each other's approaches on different aspects of quality infrastructure.

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BIS to intensify Standards Promotion activities through engagement of Consumer Organizations and NGOs

A webinar was organized at BIS HQ on Engagement of Consumer Organization & NGOs in Standards Promotion Activities of BIS. While inaugurating the webinar, Director General, BIS explained about the genesis of Consumer Movement in different parts of World and the important role it played in improving the Quality Ecosystem. He also explained the role of Consumer Organization and NGOs in development of Standards and how these organizations act as a bridge between government, regulators, and common consumers.

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Smart Cities

IPR plays important role in strengthening growth, focus on development: FM

Finance Minister said India is at a stage where growth and the focus on development have got to be strengthened from every side and intellectual property rights (IPRs) have an important role in it. The minister mentioned that 28K patents were granted last year as opposed to 4K in 2013-2014 and the last year also witnessed registration of 250K trademarks and over 16K copyrights, which will have a "very strong ripple effect" on the economy.

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TBT Notifications:

- India has submitted TBT notification "G/TBT/N/IND/229" related to Telephone sets, including telephones for cellular networks or for other wireless networks; etc. to the World Trade Organization (WTO).
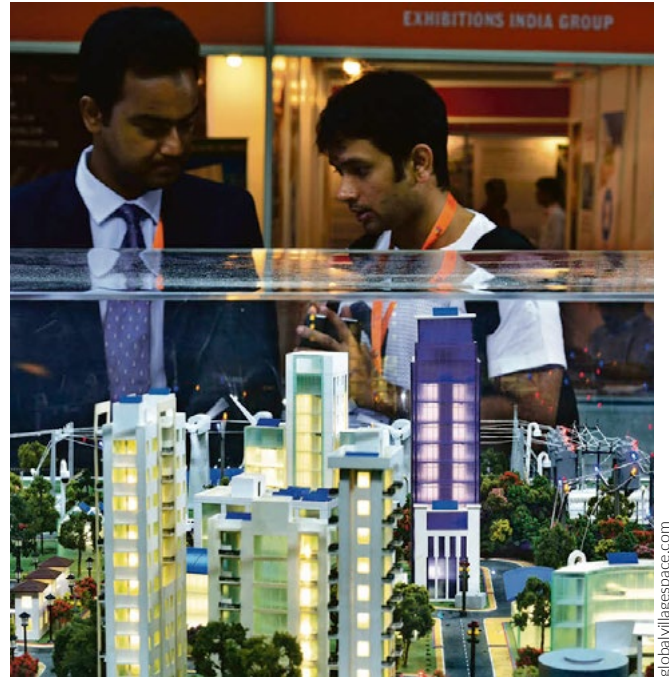
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- India has submitted TBT notification - G/TBT/N/IND/228 related to Food Products to the World Trade Organization (WTO)

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- Food Safety and Standards Authority of India (FSSAI) has submitted G/TBT/N/IND/228: Food Products TBT Notifications to World Trade Organization

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World Economic Forum and the National Institute of Urban Affairs sign a MoU to collaborate on a jointly designed 'Sustainable Cities India program'

The World Economic Forum and the National Institute of Urban Affairs (NIUA) signed a Memorandum of Understanding (MoU) to collaborate on a jointly designed 'Sustainable Cities India program' which will aim to create an enabling environment for cities to generate decarbonization solutions across the energy, transport, and the built environment sectors. The 'Sustainable Cities India program' intends to enable cities to decarbonize in a systematic and sustainable way that will reduce emissions and deliver resilient and equitable urban ecosystems. The Forum and NIUA will adapt the Forum's City Sprint process and Toolbox of Solutions for decarbonization in the context of five to seven Indian cities across two years. The City Sprint process is a series of multi-sectoral, multi-stakeholder workshops involving business, government, and civil society leaders to enable decarbonization, especially through clean electrification and circularity.

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Mobility

Command, control centres of 100 smart cities will be operational by Aug 2022: Centre

Command and control centres of all 100 smart cities will be operational by August 15 this year, Urban Affairs Minister said. Responding to supplementary during Question Hour, he said the command-and-control centers in 75 smart cities are already operational.

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Launch of Smart cities and Academia Towards Action & Research (SAAR)

The Smart Cities Mission, Ministry of Housing and Urban Affairs (MoHUA) has launched "Smart cities and Academia Towards Action & Research (SAAR)" program, a joint initiative of MoHUA, National Institute of Urban Affairs (NIUA) and leading Indian academic institutions of the country. Under the program, 15 premier architecture & planning institutes of the country will be working with Smart Cities to document landmark projects undertaken by the Smart Cities Mission. The documents will capture the learnings from best practices, provide opportunities for engagement on urban development projects to students, and enable real-time information flow between urban practitioners and academia.

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Revised guidelines and standards for Electric Vehicle (EV) charging infrastructure

The Ministry of Power (MoP) has promulgated the revised consolidated Guidelines & Standards for Charging Infrastructure for Electric Vehicles (EV) on 14th January, 2022. The guidelines seek to proactively support creation of EV Charging Infrastructure; To provide for affordable tariff chargeable from Charging Station Operators/Owners and Electric Vehicle (EV) owners. Owners of Electric Vehicles can now charge them at their residence/offices using their existing electricity connections. A revenue sharing model has been put in place for land use for making a charging station financially viable. Timelines prescribed for providing connectivity for the Public Charging Station (PCS), and for Rollout of EV Public Charging Infrastructure.

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Download Guidelines

NITI Aayog's Shoonya campaign urges Indians to adopt EVs for clean mobility

NITI Aayog, RMI and RMI India have launched the Shoonya ad campaign to accelerate the Electric Vehicle (EV) adoption in India. Over 70 corporate partners from e-commerce, ride-hailing, logistics and manufacturing

ecosystems have joined the initiative to promote zero-pollution mobility across the nation. The campaign aims to promote the use of electric vehicles (EVs) for deliveries and rides through a corporate branding program and EV awareness drive.

Read more

Union Budget 2022: What does it hold for the automobile industry?

Finance Minister made some key announcements for the automobile industry. Such as, enhanced allocation of capital expenditure, high target for national highways, the proposal of an EV battery policy, tax incentives for start-ups, support for MSMEs, emphasis on rural economy, and boost to local parts manufacturing, and are some of the major hits of the Union Budget 2022 from the Automotive industry perspective. With the announcement of the new battery swapping policy, the government is focused on creating an environment-friendly public transportation service. Developing new mobility zones will make the electric vehicle ecosystem more efficient. The policy will lead to a faster rollout time for EVs as there will be no wastage in time due to charging. Therefore, the depleted batteries will be swapped with charged ones.

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The Production Linked Incentive (PLI) Scheme for Automobile and Auto Component successful

The Production Linked Incentive (PLI) Scheme for Automobile and Auto Component is successful in attracting proposed investment of ~ 9.35 billion Euro against the target estimate of investment approx. ~5.31 billion Euro over a period of five years. 75 Applicants approved under "Component Champion Incentive Scheme"; 20 Applicants were earlier approved under "Champion OEM Incentive Scheme".

PLI scheme for Automobile and auto components and PLI for ACC along with FAME Scheme to enable India to leapfrog to environmentally cleaner, sustainable, advanced, and more efficient Electric Vehicles (EV) based system.

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Ministry of Railways notifications:

- 2022/RS(G)/777/1: Efficiency of procurement - Effective utilization of IREPS/iMMS.

- 2022/RS(G)/779/3: Amendment to Rule 153 of General Financial Rules (GFR), 2017.

- 2022/RS(G)/779/2: Fall Clause applicability and amendment.

- 2022/RS(G)/363/1: Revised FAQs in respect of Public Procurement Policy for MSME Order, 2012 - reg.

Ministry of Road, Transport and Highways issued following notifications:

- G.S.R. 127(E) inviting comments and suggestions from stakeholders for fitting of vehicle tracking system device in goods carriage vehicle, carrying any dangerous or hazardous goods.

Read more/Download

- G.S.R. 98(E) regarding Mandatory testing of the Transport vehicles through Automated Testing Stations.

Read more/Download

- Notification - G.S.R. 175(E) regarding Central Motor Vehicles (Amendment) Rules, 2022

Read more

- Notification - G.S.R. 192(E) regarding the Motor Vehicles (Registration and Functions of Vehicle Scrapping Facility Amendment) Rules, 2022

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- Draft notification which mandates vehicles of category M1, manufactured after 1st October 2022 to be fitted with two side/side torso air bags and two side curtain/tube air bags.

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ICT including Services

pexels.com

Draft policy on key 5G infrastructure soon

The Department of Telecommunications (DoT) is predicted to come back out with a draft policy to speed up clearances for radio frequency allocations for small cells, a key 5G infrastructure, a prime official mentioned. The department, according to Secretary Telecom would circulate the proposed framework to all 28 states and eight Centre-ruled territories for expanding 5G-specific infrastructure in the country. The development has come on the back of the industry's demands to bring in a uniform policy to boost telecom infrastructure, particularly 5G-led connectivity, with telecom companies saying that they would not be able to utilize airwaves they plan to buy in the upcoming auction planned for Mid-2022.

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Telecom Department (DoT) starts accepting applications for registration of M2M Companies

Companies providing Machine-to-Machine (M2M) solutions and connectivity for the M2M services can now apply online for registration and obtaining a licence from the Department of Telecom. The DoT has mandated all machine-to-machine (M2M) players to register for providing service. "To obtain registration/ licence, as may be applicable, the entities may visit the Saral Sanchar portal. The guidelines, user manual and FAQs are available on the portal," the official memorandum said.

The communication among devices like deduction of money on toll plaza through Fastag and sending the alert to the subscriber about deduction of money fall under M2M category, where the message is transmitted automatically. According to the memorandum, the government has identified that M2M and the internet of things is one of the fastest emerging technologies across the globe, providing enormous beneficial opportunities for society, industry, and consumers.

Read more

India Might Scrap Data Protection Bill and Introduce Fresh Legislation: Report

India may scrap the current version of the Personal Data Protection Bill 2019 and introduce a fresh privacy bill to comprehensively address the requirements of the country's changing technology landscape. The Personal Data Protection Bill, 2019, was referred to a Joint Parliamentary Committee (JPC) which submitted its report in December 2021 with a new draft bill to Parliament. This bill is seen by some as potentially detrimental to the India's technology and startup ecosystem. "Since it's a JCP draft Bill, the government can only tweak the clauses to some extent, but the provisions cannot be changed completely... A better option is to bring a new Bill altogether which is aligned with the current times,".

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India's 6G Technology Implementation Strategy Under ITU Deliberation

The UN-backed forum, International Telecommunication Union (ITU) has been considering India's vision and views on implementing technologies for sixth-generation or 6G and might even decide on it by mid-2022. The views proposed by the national standard body, if get accepted, would help India lead the path of ground-breaking 6G technology. TSDSI (Telecommunications Standards Development Society, India) last year submitted a vision document and suggestions to the forum responsible for enabling the sixth-gen technologies – ITU. According to a statement from Vice chairman TSDSI, has been deliberating on 6G in working groups and has been able to consolidate the vision from India as well as the set of technologies that will act as an enabler.

Read more

Government to set up centres for transformational artificial intelligence: MyGov CEO

The Ministry of Electronics and Information Technology (MEITY) will set up centres for transformational artificial intelligence that will collaborate with academia and industry to develop AI-based solutions, a senior government official said. MyGov CEO Abhishek Singh, who also heads Digital India Corporation and National e-Governance Division, said that a fund of funds is also being created that will provide financial support to startups at all stages of their development. "A lot of AI research is being done in all our academic institutions, we still lag far behind China and the US when it comes to AI research. There are certain initiatives that have been taken but we need to go further," he said.

Read more

MEITY invites feedback on Draft India Data Accessibility & Use Policy

Ministry of Electronics and Information Technology (MEITY) has Invited feedback and inputs on the Draft India Data Accessibility & Use Policy that aims to enhance access, quality, and use of data, in line with the current and emerging technology needs of the decade.

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DoT/TEC Notifications:

- Telecom Department (DoT) issued Guidelines for Registration Process of M2M Service Providers (M2MSP) & WPAN/WLAN Connectivity Provider for M2M Services.

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- Department of Telecommunications invitation or Expression of Interest for setting up of an Open RAN in PPP/Collaborative mode with TEC.

  Download

- Ministry of Communications (Wireless Planning and Coordination Wing) have issued notification G.S.R. 853(E)- Use of Low Power Equipment in frequency range: 865-868 MHz

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- Telecom Engineering Centre (TEC) has invited inputs for creating Framework for Fairness Assessment of Artificial Intelligence (AI)/ Machine Learning (ML) Systems #AIforAll.

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- Telecom Engineering Centre (TEC) have invited public comments for the adoption of TSDSI transposed 3GPP Release 16 standards as national standards

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Electrical Equipment including Consumer Electronics

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India's electronic goods export up by 88% since 2013-14: Ministry of Commerce

Pushed by a combination of policies and initiatives to position India as a global hub for electronics system design and manufacturing, India's export of electronic goods rose by almost 88% from ~ €6187 million in 2013-14 to ~€11625 million in 2021-22, the Ministry of Commerce and Industry said.

Mobile phones, IT hardware including laptops and tablets, consumer electronics such as televisions and audio, industrial electronics and auto electronics are the key drivers of this growth, according to a statement released by the Ministry of Commerce and Industry. Official figures show electronic goods exports grew 49% in April-December 2021 at ~ €10.3 billion over ~€6.9 billion during the same period last year with the US and the UAE being the top two destinations.

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India unveils 5-year roadmap to becoming $300-billion electronics powerhouse

India has released a roadmap for becoming a ~ €280 billion electronics manufacturing center. The Ministry of Electronics and Information Technology (MeitY), in association with India Cellular and Electronics Association (ICEA), released its vision document, 'USD 300 bn Sustainable Electronics Manufacturing & Exports by 2026'. This report provides a year-wise break-up and production projections for the various products that will lead India's transformation into a ~ €280 billion electronics manufacturing powerhouse, from the current ~€70 billion.

Download the Report

Govt. Reopens application window for PLI Scheme for White Goods (ACs and LED Lights) 10th March to 25th April 2022

The Union Cabinet had given approval for the PLI Scheme for White Goods for manufacture of components and sub-assemblies of Air Conditioners (ACs) and LED Lights on April 07, 2021, in pursuance of Prime Minister's clarion call for 'Atmanirbhar Bharat' to bring manufacturing at the center stage and emphasize its significance in driving India's growth and creating jobs. The Scheme is to be implemented over a seven-year period, from FY 2021-22 to FY 2028-29 and has an outlay of ~ €780 million.

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3.73 million Smart Electricity Meters Installed in Country So Far

To date, approximately 3.73 million smart meters have been installed in various states under various schemes of the Government of India and discoms, Union Power Minister stated. The government launched the Revamped Distribution Sector Scheme (RDSS) on July 20, 2021, under which deployment of 250 million smart prepaid meters for all domestic consumers have been

envisaged till March 2025. Smart meters are being installed under various schemes of the Centre as well as by the state utilities themselves. The Centre is providing funding to the states for the implementation of smart metering under the National Smart Grid Mission (NSGM) and Integrated Power Development Scheme (IPDS).

Read more

Ministry of Power (MoP) & Ministry of New and Renewable Energy (MNRE) notifications/guidelines:

Ministry of New and Renewable Energy (MNRE) has issued following notifications/Office Memorandum (OM):

- Amendment in the "Guidelines for Tariff Based Competitive Bidding Process for procurement of power from grid connected wind solar hybrid projects issued on October 14, 2020, and amended on July 23, 2021.

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- Simplification of procedure – Rooftop solar programme Ph-II

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- Framework for promotion of decentralized Renewable Energy Livelihood applications

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- Approved Models and Manufacturers of Solar Photovoltaic Modules (Requirements for Compulsory Registration) Order, 2019: Amendment - reg.

  Read more

- Invitation for Expression of Interest (EOI) for conducting evaluation of Phase –II of Grid Connected Rooftop Solar Programme.

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Ministry of Power (MoP) has issued following notifications/Office Memorandum (OM):

- Clarification on Electricity (Timely Recovery of Costs due to Change in Law) Rules, 2021

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- Guidelines for Procurement and Utilization of Battery Energy Storage Systems as part of Generation, Transmission and Distribution assets, along with Ancillary Services

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- Guidelines on Planning of Communication System for Inter-State Transmission System (ISTS).

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Manufacturing/ Make in India

pexels.com

Government expects ~€4.26 billion investment under PLI scheme for electronics manufacturing

The government is expecting an investment of ~€4.26 billion under the PLI scheme for large-scale electronics manufacturing, mainly mobile phones and electronic components, by 2025. The government has approved proposals of 20 companies under the Scheme for Promotion of Manufacturing of Electronic Components and Semiconductors (SPECS), including that of Tata Electronics, till January 27, 2022. Around ~€2.5 billion is expected to come from electronic components and semiconductor companies and ~€1.76 billion from 32 proposals approved under the production linked incentive (PLI) scheme for large scale electronics manufacturing, Minister of state for electronics and IT.

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Budget 2022: Focus on Make in India continues

The concessional tax regime for new manufacturing companies has been extended, domestic production of solar modules and defence equipment has been given a boost, while various levies have been reduced or raised on some items to aid local manufacturers.

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TRAI's consultation paper on Promoting Networking and Telecom Equipment Manufacturing in India

Telecom regulator (TRAI) has issued a consultation paper on promoting networking and telecom equipment manufacturing in India. The detailed consultation paper seeks to take stakeholder views on existing concerns in networking and telecom equipment manufacturing and examine measures that need to be taken to meet the demand of growing market both within the country and outside, TRAI said in a statement. The Telecom Regulatory Authority of India (TRAI) will also deliberate on measures required for transforming the telecommunication manufacturing landscape and establish the country as an export hub.

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R&D and Innovation

pexels.com

IIT Madras Partners with French Firm to Develop RE Research Park

French glass and building material major Saint-Gobain India and IIT Madras Research Park have entered an MoU to develop a 100% Renewable Energy (RE) – research park. Saint-Gobain India will support IIT Madras Research Park with a funding of ~120K Euro over the next three years and the collaboration is to boost the transformation towards a low carbon future and to aid India in achieving 100% renewable energy. The partnership will focus on addressing the energy challenges and promote maximum use of alternate energy sources and develop sustainable models to ensure energy efficiency. IIT-M Research Park intends to create a robust energy storage mechanism within the campus that will allow it to operate primarily on energy generated from renewable sources.

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Volvo announces expansion of R&D operations in India

Swedish automotive major Volvo Group announced the expansion of its research and development operations in India, which has become its largest development site outside Sweden. As part of the expansion in the country, Volvo Group Deputy CEO laid the foundation for the 'Vehicle TechLab' for Volvo Group's research and development operations in India, the group said in a statement. Volvo Group has one of the most ambitious SBTi (Science-Based Targets initiative) in the industry, targeting to achieve net-zero value chain greenhouse gas (GHG) emissions by 2040, and cutting CO2 emissions of its vehicles by 40% by 2030, when it aims 50% of its trucks sold to be electric.

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PM calls for innovating for India, from India

The government is focusing on three aspects to strengthen innovation, entrepreneurship, and startup ecosystem - "Freeing entrepreneurship, innovation from government and bureaucratic silos; setting up institutional mechanisms to promote innovation, and handholding of youth innovators". The government is focusing on three aspects -- first, to liberate entrepreneurship and innovation from the web of government processes, bureaucratic silos; second, creating an institutional mechanism to promote innovation; and third, handholding of young innovators and young enterprises, he said.

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Energy Efficiency & Environment including Circular Economy

India to have two National Centres of Excellence in Carbon Capture & Utilization, supported by DST

Two National Centres of Excellence (CoE) in Carbon Capture and Utilization are being established in India. The two Centres, namely the National Centre of Excellence in Carbon Capture and Utilization (NCoE-CCU) at Indian Institute of Technology (IIT) Bombay, Mumbai and the National Centre in Carbon Capture and Utilization (NCCCU) at Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bengaluru are being set up with support from the Department of Science & Technology (DST), Govt. of India.

These CoEs will facilitate capturing & mapping of current R&D and innovation activities in the domain and also develop networks of researchers, industries and stakeholders with coordination and synergy between partnering groups and organizations. The Centres will act as multi-disciplinary, long-term research, design development, collaborative and capacity-building hubs for state-of-the-art research and application-oriented initiatives in the field of CCU.

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Green Hydrogen Policy – another positive step towards India's energy security

Government of India notified first phase of its Green Hydrogen Policy last week as a step forward towards National Hydrogen Mission. The mission aims to make India a green hydrogen hub and help to meet its climate targets. It targets production of five million metric tonnes per annum (MMTPA) of green hydrogen by 2030 and the related development of renewable energy capacity. India's Green Hydrogen Policy announcement comes promptly, as the country pledged to be carbon-neutral by 2070 at the COP-26 summit in Glasgow last year.

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India's COP26 commitments to offer massive investment opportunities: ICRA

India's ambitious emission control commitments made at the COP26 climate conference in Glasgow recently, open massive opportunities for investment across segments and require timely intervention by the government and large capex requirements in greenhouse gas-emitting sectors like power, industry and transport, rating agency ICRA said. The roadmap is expected to benefit India with not just carbon reduction, but also building new technologies in energy efficiency and green fuels, the report said. Investment opportunities will be available in segments such as renewables, carbon capture technologies, the EV ecosystem, improvement in energy efficiencies and ethanol blending, ICRA said.

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EU-India/Trade-FTA/ Investments

Indian Second-Hand Smartphone Market to Reach ~ 4.3 billion Euro in 2025

According to a joint analysis by the mobile devices industry group ICEA and research firm IDC, the country's secondhand smartphone market gets predicted to double in three years, to ~ 4.3 billion Euro by 2025. According to the survey, consumers exchanged 25 million smartphones in the secondhand market. By exploiting its labor cost differential, India should become the world center of re-manufacturing and re-commerce. The rapid expansion of e-commerce will successfully bridge the digital divide by allowing users to migrate from feature phones to smartphones.

During the introduction of the research, India Cellular and Electronics Association (ICEA) Chairman remarked, the rise of this sector would also assure that there will be a considerable decline in e-waste as recycling will become the new standard.

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Ministry of Environment, forest and Climate Change released following notifications:

- Plastic Waste Management (Amendment) Rules, 2022.

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- Notification for seeking public comments on "Regulation on Extended Producer Responsibility for Waste Tyres".

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India & Denmark agree to work together on green fuels including green hydrogen

India & Denmark agreed to initiate joint research and development on green fuels including green hydrogen, during the Joint S&T Committee meeting on 14th January 2022. The Joint Committee discussed national strategic priorities and developments in Science, Technology, and Innovation of both countries with a special focus on green solutions of the future - strategy for investments in green research, technology, and innovation at the virtual meeting.

The committee emphasized on development of bilateral collaboration on mission-driven research, innovation, and technology development, including climate and green transition, energy, water, waste, food, and so on as agreed by the two Prime Ministers while adopting the Green Strategic Partnership – Action Plan 2020-2025. They agreed to organize 3-4 webinars for partnership development and stressed on promoting call for proposals in green fuels, including green hydrogen.

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Invest India

European Union to fund urban infrastructure programme for Indian cities

The EU funded International Urban and Regional Cooperation (IURC) Asia & Australasia programme in India was officially launched in a virtual event with the presence of Sanjay Kumar, Additional Secretary (International Cooperation), Ministry of Housing and Urban Affairs, Government of India, Dr. Ronald Hall, Senior Advisor, DG REGIO, EU Commission, and Kamilla Kristensen Rai, Counsellor, Delegation of the European Union to India. As part of this city-to-city cooperation, 25 city authorities from Europe and India will work together until end 2023 in the areas of ecological transition, urban and regional renewal and innovative, sustainable and carbon neutral ecosystems.

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India and UK conclude second round of talks for India-UK Free Trade Agreement (FTA)

The Republic of India and the United Kingdom concluded the second round of talks for an India-UK Free Trade Agreement (FTA). A delegation of Indian officials undertook technical talks in London. The negotiations were conducted in a hybrid fashion, with some negotiators in a dedicated UK negotiations facility, and others attending virtually. For this round of negotiations, draft treaty text was shared and discussed across most chapters that will make up the agreement. Technical experts from both sides came together for discussions in 64 separate sessions covering 26 policy areas. The third round of negotiations is due to be hosted by India in April 2022.

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India receives FDI worth ~ €50.7 bn during Apr-Nov 2021-2022

India has received total foreign direct investment (FDI) of ~€50.7 bn during April-November 2021-22, as against ~€76.8 bn in 2020-21, Parliament was informed. Worth mentioning here is that to promote FDIs, the government has put in place an investor-friendly policy, wherein most sectors are open for 100% FDI under the automatic route. Further, the policy on FDI is reviewed on an ongoing basis, to ensure that India remains an attractive and investor-friendly destination. In the last one year alone, reforms in the FDI policy have been undertaken in sectors such as insurance, defence, petroleum & natural gas, telecom and so on. In a separate reply, the minister said as on January 31, 16,737 startups have been recognised by the ministry.

Read more

Upcoming Events

International Conference on Advancements in Computing, Communication and Technology

When: 22 - 23 Apr 2022

Where: Galgotias College of Engineering and Technology, Greater Noida, India

The objective of the conference is to provide an international open forum for the scientists, researchers and technocrats in academia and industries from different places of the world interact, exchange of novel research ideas, concepts, prototypes etc. the conference will provide the good opportunity for new researchers to discuss their research work on international forum, receive good feedback from multiple reviewers and enhance their work in right direction of research. For more information, please click here.

Conference on Solar Power in India

When: 05 - 06 May 2022

Where: Le Meridien New Delhi, New Delhi, India

Conference on Solar Power in India mission is to discuss the recent trends and developments shaping the solar sector, share experiences from successful projects, and deliberate on the next steps to address the barriers for an improved outlook. This conference will provide a forum to policymakers, renewable energy developers, manufacturers, discoms, technology providers, consultants, and investors to share their insights. For more details, please click here.

6G India Congress

When: 30 Jun 2022

Where: Le Meridien New Delhi, New Delhi, India

6G India Congress brings together Equipment vendors, Telecom operators, OTT players, OEMs, Specialists, and IoT players. It will feature areas like the impact of 5G on various telecom industry stakeholders as well as the potential and relevance of 5G across industry verticals, the current telecom ecosystem and preparedness to embrace 5G, discussion on to ensure 5G commercial launch in India in line with global launch, key business models and intermediaries that could evolve in lieu of 5G, etc. For more information, please click here.

World Renewable Energy Technology Congress & Expo

When:21 - 23 Aug 2022

Where: New Delhi, India

The WRETC & Expo aims to deliberate upon the challenges and opportunities faced by Energy sector in the wake of volatile energy markets and environmental concerns, the requisite strategies and approach to ensure fullest exploitation of potential of renewable energy to the energy mix of the country for the energy security of India in particular and the energy security of other nations in general. For more details, please click here.

Upcoming Events

EV India Expo

When: 07 - 09 Sep 2022

Where: India Exposition Mart, Greater Noida, India

EV India Expo is an International Electric Motor Vehicle Show that will provide the opportunity and platform to electric vehicle manufacturers to showcase their latest products, technology and equipment, Smart and NextGen transport, electric passengers cars, scooter, motorcycle, cycles, buses, etc to meet and network with the trade industry as well as end-users with the main aim to find out new business and protection of the environment. For more details, please click here.

International Conference on Advances and Applications of Artificial Intelligence and Machine Learning

When: 16 - 17 Sep 2022

Where: Sharda University, Greater Noida, India

The conference is an international forum which aims to bring together leading academician, researchers and research scholars to exchange and share their experiences and hard-earned technological advancements and applications in Artificial Intelligence and Machine Learning. For more information, please click here.

IOT India Expo

When: 21 - 23 Sep 2022

Where: India Exposition Mart, Greater Noida, India

IOT India Expo will explore the impact of the Internet of Things (IoT) on industries, such as manufacturing, transport, supply chain, insurance, logistics, government, energy, and automotive. The Indian industry will witness an upsurge in the demand for emerging digital technologies and services in the coming years. The recent initiatives by the Indian government to foster best-in-class infrastructure for developing the industries will lead to the adoption of smart factories, thereby further boosting the need for advanced technologies. For more details, please click here.

Renewable Energy India Expo

When: 28 - 30 Sep 2022

Where: India Exposition Mart, Greater Noida, India

Renewable Energy India will attract exhibitors, trade visitors, and esteemed policy-makers, decision-makers, influencers, technical experts, and professionals. It is a platform to exchange ground breaking ideas & technologies on an international platform, stay informed about the latest technological innovations in the renewable energy sector, meet the decision-makers who are shaping the renewable energy market and gain profound insights into current global trends in the renewable energy industry. For more details, please click here.

India e-Mobility Show

When: 03 - 04 Oct 2022

Where: India Exposition Mart, Greater Noida, India

The India e-Mobility Show 2022 will provide an excellent convening space for regional & global EV players to network and explore business opportunities in a highly engaging business atmosphere. For more details, please click here.

Annexure 1

Electrical Equipment including Consumer Electronics (ETD)

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

S. No.	Document No	Title of the Doc	IEC/ISO	Last Date for Comments	Detail
		At Bureau of Indian Standards (BIS)			
		Electrotechnical (ETD)			
1	ETD 35(16435)	Electromechanical elementary relays - Part 4: General and safety requirements for reed relays	IEC TC- (O)	16-05-2022	Detail
2	ETD 8(18950)	High-Voltage Switchgear and Control gear: Part 104 Alternating Current Switches for Rated Voltages Higher than 52 kV	IEC TC- 17A SC- 17A (P); IEC TC- 17C SC- 17C (P); IEC TC-17 (O)	17-04-2022	Detail
3	ETD 11(15802)	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	IEC TC-21 (P); IEC TC-SC-21A (P)	26-02-2022	Detail
4	ETD 11(18838)	Lead acid storage batteries for motor vehicles - Valve regulated type Amendment – 1	IEC TC-21 (P); IEC TC-SC-21A (P)	29-03-2022	Detail
5	ETD 13(18664)	a.c. Static Transformer Operated Watthour Meters (Class 0.2 S and 0.5 S) and Var-Hour Meters (Class 0.2 S, 0.5 S and 1 S) — Specification (First Revision) -Amendment 1	IEC TC-13 (P)	27-02-2022	Detail
6	ETD 32(17945)	Specification for electric ceiling type fans and regulators (Third Revision) Amendment - 1	IEC TC- 61B, 61H, 61J SC- 61B, 61H, 61J (P); IEC TC- 59A, 59C, 59D, 59F, 59L SC- 59A, 59C, 59D, 59F, 59L (P)	08-03-2022	Detail
7	ETD 43(15314)	Determination of certain substances in electrotechnical products: Part 4 mercury in polymers, metals and electronics by cv - Aas, cv - Afs, icp - Oes and icp - Ms Amendment – 1	IEC TC-111 (P)	04-03-2022	Detail

8	ETD 43(15472)	Technical Documentation for the Assessment of Electrical and Electronic Products with respect to the Restriction of Hazardous Substances	IEC TC-111 (P)	04-03-2022	Detail
9	ETD 43(18861)	Environmentally conscious design ECD - Principles requirements and guidance (First Revision of IS 16244)	IEC TC-111 (P)	04-03-2022	Detail
10	ETD 43(18862)	Determination of certain substances in electrotechnical products - Part 3-2: Screening - Fluorine bromine and chlorine in polymer and electronics by combustion-ion chromatography C-IC First Revision of IS 16197: Part 3-2	IEC TC-111 (P)	04-03-2022	Detail
11	ETD 43(18863)	Material declaration for products of and for the electrotechnical industry	IEC TC-111 (P)	04-03-2022	Detail
12	ETD 43(18864)	Material declaration for products of and for the electrotechnical industry - Part 1: Guidance for the implementation of IEC 62474	IEC TC-111 (P)	04-03-2022	Detail
13	ETD 40(16861)	Determination of Power Losses In High-Voltage Direct Current HVDC Converter Stations With Line-Commutated Converters first revision	IEC TC- 22F SC-22F (P)	21-03-2022	Detail
14	ETD 40(17464)	Terminology For Voltage-Sourced Converters VSC for High-Voltage Direct Current HVDC Systems	IEC TC- 22F SC-22F (P)	06-02-2022	Detail
15	ETD 40(17465)	Power Losses in Voltage Sourced Converter VSC Valves for High-Voltage Direct Current HVDC Systems Part 1: General Requirements	IEC TC- 22F SC-22F (P)	06-02-2022	Detail
16	ETD 40(17466)	Power losses in voltage sourced converter VSC valves for high-voltage direct current HVDC systems Part 2: Modular multilevel converters	IEC TC- 22F SC-22F (P)	06-02-2022	Detail
17	ETD 40(17467)	Fire prevention measures on converters for high-voltage direct current HVDC systems static var compensators SVC and flexible ac transmission systems FACTS and their valve halls	IEC TC- 22F SC-22F (P)	06-02-2022	Detail
18	ETD 40(17470)	Thyristor valves for thyristor-controlled series capacitors TCSC Electrical testing	IEC TC- 22F SC-22F (P)	06-02-2022	Detail
19	ETD 40(17471)	Voltage sourced converter VSC valves for static synchronous compensator STATCOM Electrical testing	IEC TC- 22F SC-22F (P)	06-02-2022	Detail
20	ETD 40(17594)	Performance of Unified Power Flow Controller UPFC in Electric Power Systems	IEC TC- 22F SC-22F (P)	16-02-2022	Detail
21	ETD 40(18809)	High - Voltage direct current (Hvdc) installations - System tests (Amendment No. - 1)	IEC TC- 22F SC-22F (P)	21-03-2022	Detail

22	ETD 1(18824)	Degrees of protection provided by enclosures (IP Code) (Amendment No - 1)	IEC TC-1 (O); IEC TC-3 (P); IEC TC- SC-3C (O); IEC TC-8 (P); IEC TC-25 (O); IEC TC-70 (O)	23-02-2022	Detail
23	ETD 11(18132)	Methods of test for measurement of Energy density and Cycle life of Advanced Chemistry Cells ACCs	IEC TC-21 (P); IEC TC-SC-21A (P)	08-02-2022	Detail
24	ETD 21(18661)	Arc Welding Equipment Part 2: Liquid Cooling Systems (First Revision)	ISO TC-44 (O); IEC TC-26 (O)	22-02-2022	Detail
25	ETD 21(18662)	Arc welding equipment Part 3: Arc striking and stabilizing devices (First Revision)	ISO TC-44 (O); IEC TC-26 (O)	22-02-2022	Detail
26	ETD 21(18663)	Arc welding equipment Part 5: Wire feeders (First Revision)	ISO TC-44 (O); IEC TC-26 (O)	22-02-2022	Detail
27	ETD 21(18665)	Arc welding equipment Part 8: Gas consoles for welding and plasma cutting systems (First Revision)	ISO TC-44 (O); IEC TC-26 (O)	25-02-2022	Detail
28	ETD 21(18666)	Arc welding equipment Part 10: Electromagnetic compatibility EMC requirements (First Revision)	ISO TC-44 (O); IEC TC-26 (O)	25-02-2022	Detail
29	ETD 21(18667)	Arc welding equipment Part 11: Electrode holders	ISO TC-44 (O); IEC TC-26 (O)	13-03-2022	Detail
30	ETD 21(18755)	Arc welding equipment Part 13: Welding current return clamp	ISO TC-44 (O); IEC TC-26 (O)	12-03-2022	Detail
31	ETD 21(18756)	Resistance welding equipment Part 2: Electromagnetic compatibility EMC requirements	ISO TC-44 (O); IEC TC-26 (O)	12-03-2022	Detail
32	ETD 28(18548)	Photovoltaic devices Part 14: Guidelines for production line measurements of single-junction PV module maximum power output and reporting at standard test conditions	IEC TC-82 (P)	15-02-2022	Detail
33	ETD 28(18549)	Photovoltaic PV Module Performance Testing and Energy Rating Part 3: Energy Rating of PV Modules	IEC TC-82 (P)	31-01-2022	Detail
34	ETD 28(18550)	Photovoltaic PV Module Performance Testing and Energy Rating Part 4: Standard Reference Climatic Profiles	IEC TC-82 (P)	31-01-2022	Detail

35	ETD 28(18551)	Safety of Power Converters for Use in Photovoltaic Power Systems Part 3: Particular Requirements for Electronic Devices in Combination with Photovoltaic Elements	IEC TC-82 (P)	31-01-2022	Detail
36	ETD 28(18552)	Photovoltaic PV Systems Requirements for Testing Documentation and Maintenance Part 2: Grid Connected Systems Maintenance of PV Systems	IEC TC-82 (P)	31-01-2022	Detail
37	ETD 28(18553)	Measurement Procedures for Materials Used in Photovoltaic Modules Part 1-7: Encapsulates Test Procedure of Optical Durability	IEC TC-82 (P)	31-01-2022	Detail
38	ETD 28(18554)	Measurement Procedures For Materials Used In Photovoltaic Modules Part 5-1: Edge Seals Suggested Test Methods For Use With Edge Seal Materials	IEC TC-82 (P)	04-02-2022	Detail
39	ETD 28(18555)	Measurement Procedures for Materials Used in Photovoltaic Modules Part 5-2: Edge Seals Durability Evaluation Guideline	IEC TC-82 (P)	15-02-2022	Detail
40	ETD 28(18556)	Measurement Procedures for Materials Used In Photovoltaic Modules Part 6-2: General Tests Moisture Permeation Testing Of Polymeric Materials	IEC TC-82 (P)	15-02-2022	Detail
41	ETD 28(18557)	Maximum Power Point Tracking Efficiency of Grid Connected Photovoltaic Inverters	IEC TC-82 (P)	15-02-2022	Detail
42	ETD 28(18558)	Extended Thermal Cycling of PV Modules Test Procedure	IEC TC-82 (P)	31-01-2022	Detail
43	ETD 28(18559)	Photovoltaic Power Systems Pvps Information Model for Availability	IEC TC-82 (P)	15-02-2022	Detail
44	ETD 28(18560)	Photovoltaics in Buildings Part 2: Requirements for Building-Integrated Photovoltaic Systems	IEC TC-82 (P)	15-02-2022	Detail
45	ETD 28(18561)	Simulators Used for Testing Of Photovoltaic Power Conversion Equipment Recommendations Part 1: AC Power Simulators	IEC TC-82 (P)	15-02-2022	Detail
46	ETD 28(18562)	Photovoltaic Systems Power Conversion Equipment Performance Energy Evaluation Method	IEC TC-82 (P)	15-02-2022	Detail
47	ETD 28(18563)	Photovoltaic Systems Guidelines for Effective Quality Assurance of Power Conversion Equipment	IEC TC-82 (P)	31-01-2022	Detail
48	ETD 28(18564)	Incompatibility of Connectors for Dc-Application in Photovoltaic Systems	IEC TC-82 (P)	04-02-2022	Detail
49	ETD 28(18565)	Managing Fire Risk Related to Photovoltaic PV Systems on Buildings	IEC TC-82 (P)	04-02-2022	Detail

50	ETD 28(18566)	Lightning and Surge Voltage Protection for Photovoltaic PV Power Supply Systems	IEC TC-82 (P)	04-02-2022	Detail
51	ETD 28(18567)	Measurement Protocols for Photovoltaic Devices Based on Organic Dye-Sensitized or Perovskite Materials	IEC TC-82 (P)	04-02-2022	Detail
52	ETD 28(18568)	Derisking Photovoltaic Modules Sequential and Combined Accelerated Stress Testing	IEC TC-82 (P)	04-02-2022	Detail
53	ETD 28(18569)	Photovoltaic Power Systems PVPSs Roadmap for Robust Reliability	IEC TC-82 (P)	05-02-2022	Detail
54	ETD 28(18570)	Guidelines for Qualifying PV Modules Components and Materials for Operation at High Temperatures	IEC TC-82 (P)	05-02-2022	Detail
55	ETD 28(18571)	Photovoltaics in Buildings Part 1: Requirements for Building-Integrated Photovoltaic Modules	IEC TC-82 (P)	15-02-2022	Detail
56	ETD 36(18655)	Live Working - Conductive Clothing (Second Revision)	IEC TC- 78 (O)	22-02-2022	Detail
57	ETD 36(18656)	Live Working Methods for Assessment of Defects And Verification of Performance Applicable To Tools Devices And Equipment (Second Revision)	IEC TC- 78 (O)	22-02-2022	Detail
58	ETD 36(18657)	Live Working Voltage Detectors Part 1: Capacitive Type to Be Used For Voltages Exceeding 1 KV AC (First Revision)	IEC TC- 78 (O)	22-02-2022	Detail
59	ETD 36(18658)	Live Working Guidelines for The Installation of Transmission And Distribution Line Conductors And Earth Wires Stringing Equipment And Accessory Items (First Revision)	IEC TC- 78 (O)	22-02-2022	Detail
60	ETD 39(18582)	HIGH-VOLTAGE FUSES PART 4: ADDITIONAL TESTING REQUIREMENTS FOR HIGH-VOLTAGE EXPULSION FUSES UTILIZING POLYMERIC INSULATORS	IEC TC-10 (P)	05-02-2022	Detail
https://www.services.bis.gov.in:8071/php/BIS_2.0/dgdashboard/draft/darftdetail/65/3/ETD					

ICT/LITD

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

S. No.	Document No	Title of the Doc	IEC/ISO	Last Date for Comments	Detail
1	LITD 10(19002)	Power line communication systems for power utility applications Part 1: Planning of analogue and digital power line carrier systems operating over EHVHVMV electricity grids	IEC TC- 57 (P); IEC TC- SC-PC 118 (P); IEC TC-SyC Smart Energy (P)	04-05-2022	Detail
2	LITD 10(19003)	Power line communication systems for power utility applications Part 2: Analogue power line carrier terminals or APLC	IEC TC- 57 (P); IEC TC- SC-PC 118 (P); IEC TC-SyC Smart Energy (P)	04-05-2022	Detail
3	LITD 10(19006)	Power line communication systems for power utility applications Part 3: Digital Power Line Carrier DPLC Terminals and hybrid ADPLC Terminals	IEC TC- 57 (P); IEC TC- SC-PC 118 (P); IEC TC-SyC Smart Energy (P)	04-05-2022	Detail
4	LITD 17(18953)	Information security cybersecurity and privacy protection Information security controls	ISO/IEC TC-JTC 1 SC-27 (P); ISO/IEC/JTC1 TC-WG SC-13 (P)	17-04-2022	Detail
5	LITD 17(19027)	Cybersecurity Supplier relationships Part 1: Overview and concepts First Revision	ISO/IEC TC-JTC 1 SC-27 (P); ISO/IEC/JTC1 TC-WG SC-13 (P)	20-05-2022	Detail
6	LITD 17(19028)	Information technology -Electronic discovery Part 4: Technical readiness	ISO/IEC TC-JTC 1 SC-27 (P); ISO/IEC/JTC1 TC-WG SC-13 (P)	20-05-2022	Detail
7	LITD 17(19029)	Information security Encryption algorithms Part 1: General First Revision	ISO/IEC TC-JTC 1 SC-27 (P); ISO/IEC/JTC1 TC-WG SC-13 (P)	20-05-2022	Detail
8	LITD 17(19031)	Information Technology-Security Techniques - Encryption Algorithms Part 3 Block Ciphers Amendment – 1	ISO/IEC TC-JTC 1 SC-27 (P); ISO/IEC/JTC1 TC-WG SC-13 (P)	20-05-2022	Detail

9	LITD 20(19019)	Coding of machine - Readable characters MICR And OCR for information processing	ISO/IEC/JTC1 TC- 2 SC- 2 (P)	13-05-2022	Detail
10	LITD 35(19173)	Accessibility for ICT Products and Services, Part1, Requirements	IEC TC-IEC SyC AAL (P)	23-04-2022	Detail
11	LITD 8(18683)	RADIATION PROTECTION INSTRUMENTATION DOSIMETRY SYSTEMS WITH INTEGRATING PASSIVE DETECTORS FOR INDIVIDUAL WORKPLACE AND ENVIRONMENTAL MONITORING OF PHOTON AND BETA RADIATION First Revision	IEC TC- 45 (O) IEC TC- 85 (O); IEC TC- 45A SC- 45A (O); IEC TC- 45B SC- 45B (O); ISO TC- 85 (P); ISO TC- 2 SC- 2 (P) ISO TC- 5 SC- 5 (P)	02-03-2022	Detail
12	LITD 15(18680)	Programming Languages — C++	ISO/IEC/JTC1 TC- 22 SC- 22 (O); ISO/IEC/ JTC1 TC- 32 SC- 32 (P); ISO/ IEC/JTC1 TC- 34 SC- 34 (P)	02-03-2022	Detail
13	LITD 16(18910)	Identification cards Physical characteristics	ISO/IEC/JTC1 TC- 31 SC- 31 (P); ISO/IEC/JTC1 TC- SC-17 (P)	13-04-2022	Detail
14	LITD 16(18916)	Identification cards Identification of issuers Part 1: Numbering system	ISO/IEC/JTC1 TC- 31 SC- 31 (P); ISO/IEC/JTC1 TC- SC-17 (P)	13-04-2022	Detail
15	LITD 16(18918)	Identification cards Identification of issuers Part 2: Application and registration procedures	ISO/IEC/JTC1 TC- 31 SC- 31 (P); ISO/IEC/JTC1 TC- SC-17 (P)	13-04-2022	Detail
16	LITD 1(18703)	Electrotechnical Vocabulary Part 84 Terminology Concerning Fire Tests for Electrotechnical Products Third Revision	IEC TC- 89 SC- (O); IEC TC-104 (P)	02-03-2022	Detail
17	LITD 17(18953)	Information security cybersecurity and privacy protection Information security controls	ISO/IEC TC- JTC 1 SC-27 (P); ISO/IEC/JTC1 TC-WG SC- 13 (P)	17-04-2022	Detail
18	LITD 30(18790)	Information technology Artificial intelligence AI Bias in AI systems and AI aided decision making	ISO/IEC TC-JTC 1 SC-SC 42 (P)	17-04-2022	Detail
19	LITD 30(18791)	Information technology Artificial intelligence AI Overview of computational approaches for AI systems	ISO/IEC TC-JTC 1 SC-SC 42 (P)	17-04-2022	Detail

20	LITD 8(18683)	RADIATION PROTECTION INSTRUMENTATION DOSIMETRY SYSTEMS WITH INTEGRATING PASSIVE DETECTORS FOR INDIVIDUAL WORKPLACE AND ENVIRONMENTAL MONITORING OF PHOTON AND BETA RADIATION First Revision	IEC TC- 45 (O) IEC TC- 85 (O); IEC TC- 45A SC- 45A (O); IEC TC- 45B SC- 45B (O); ISO TC- 85 (P); ISO TC- 2 SC- 2 (P) ISO TC- 5 SC- 5 (P)	02-03-2022	Detail
21	LITD 15(18172)	Digital publishing EPUB accessibility Conformance and discoverability requirements for EPUB publications	ISO/IEC/JTC1 TC- 22 SC- 22 (O); ISO/IEC/ JTC1 TC- 32 SC- 32 (P); ISO/ IEC/JTC1 TC- 34 SC- 34 (P)	29-01-2022	Detail
22	LITD 15(18527)	Information technology Metadata registries MDR Part 2: Classification	ISO/IEC/JTC1 TC- 22 SC- 22 (O); ISO/IEC/ JTC1 TC- 32 SC- 32 (P); ISO/ IEC/JTC1 TC- 34 SC- 34 (P)	29-01-2022	Detail
23	LITD 15(18680)	Programming Languages — C++	ISO/IEC/JTC1 TC- 22 SC- 22 (O); ISO/IEC/ JTC1 TC- 32 SC- 32 (P); ISO/ IEC/JTC1 TC- 34 SC- 34 (P)	02-03-2022	Detail
24	LITD 1(18703)	Electrotechnical Vocabulary Part 84 Terminology Concerning Fire Tests for Electrotechnical Products Third Revision	IEC TC- 89 SC- (O); IEC TC-104 (P)	02-03-2022	Detail
25	LITD 7(18480)	Electroacoustics- Specifications For Personal Sound Exposure Meters First Revision	ISO TC-43 SC-1 (O); IEC TC-29 (P); IEC TC-108 (P); IEC TC-100 (P)	29-01-2022	Detail
26	LITD 7(18484)	Audio video and related equipment Determination of power consumption Part 5: Set top boxes STB	ISO TC-43 SC-1 (O); IEC TC-29 (P); IEC TC-108 (P); IEC TC-100 (P)	29-01-2022	Detail
27	LITD 7(18485)	Electroacoustics Audiometric equipment Part 3: Test signals of short duration	ISO TC-43 SC-1 (O); IEC TC-29 (P); IEC TC-108 (P); IEC TC-100 (P)	29-01-2022	Detail

28	LITD 7(18486)	Electroacoustics Audiometric equipment Part 6: Instruments for the measurement of otoacoustic emissions	ISO TC-43 SC-1 (O); IEC TC-29 (P); IEC TC-108 (P); IEC TC-100 (P)	01-02-2022	Detail
29	LITD 7(18487)	Sound system equipment Part 10: Peak programme level meters	ISO TC-43 SC-1 (O); IEC TC-29 (P); IEC TC-108 (P); IEC TC-100 (P)	01-02-2022	Detail
30	LITD 7(18488)	Analogue audio disk records and reproducing equipment	ISO TC-43 SC-1 (O); IEC TC-29 (P); IEC TC-108 (P); IEC TC-100 (P)	29-01-2022	Detail
31	LITD 7(18489)	Methods of measurement on receivers for television Broadcast transmissions Part 13: General considerations - Measurements at radio and video frequencies	ISO TC-43 SC-1 (O); IEC TC-29 (P); IEC TC-108 (P); IEC TC-100 (P)	02-02-2022	Detail
32	LITD 7(18490)	Methods of measurement on receivers for television Broadcast transmissions Part 14: Audio channels General methods and methods for monophonic channels	ISO TC-43 SC-1 (O); IEC TC-29 (P); IEC TC-108 (P); IEC TC-100 (P)	02-02-2022	Detail
33	LITD 9(18772)	Limits and Methods of Measurement of Radio Disturbance Characteristics PART 2 Electromagnetic Compatibility EMC Requirements for Household Appliances Electric Tools and Similar Apparatus Section 1 Emission Forth Revision of IS 6873 Part 2Sec 1	IEC TC-77 (P); IEC TC-CISPR (O); IEC TC- 77A SC-77A (P); ISO TC-77B SC- 77B (P)	26-03-2022	Detail
34	LITD 9(18774)	Limits and Methods of Measurement of Radio Disturbance Characteristics PART 2 Electromagnetic Compatibility EMC Requirements for Household Appliances Electric Tools and Similar Apparatus Section 2 Emission Product Family Standard Fourth Revision	IEC TC-77 (P); IEC TC-CISPR (O); IEC TC- 77A SC-77A (P); ISO TC-77B SC- 77B (P)	26-03-2022	Detail
35	LITD 9(18776)	Electromagnetic compatibility EMC Part 4 Testing and Measurement Techniques Section 3 Radiated radio-frequency electromagnetic field immunity test Second Revision of IS 14700 Part 4Sec 3	IEC TC-77 (P); IEC TC-CISPR (O); IEC TC- 77A SC-77A (P); ISO TC-77B SC- 77B (P)	26-03-2022	Detail
36	LITD 9(18777)	Electromagnetic compatibility EMC Part 6 Generic standards Section 3 Emission standard for equipment in residential environments Second Revision of IS 14700 Part 6Sec 3	IEC TC-77 (P); IEC TC-CISPR (O); IEC TC- 77A SC-77A (P); ISO TC-77B SC- 77B (P)	26-03-2022	Detail

37	LITD 31(18278)	Information technology Cloud computing Overview and vocabulary	ISO/IEC TC-JTC 1 SC-38 (P); SOA ISO/IEC TC-JTC 1 SC-39 (P)	21-02-2022	Detail
38	LITD 31(18279)	Information technology Cloud computing Reference architecture	ISO/IEC TC-JTC 1 SC-38 (P); SOA ISO/IEC TC-JTC 1 SC-39 (P)	12-02-2022	Detail
39	LITD 31(18280)	Information technology Cloud computing Interoperability and portability	ISO/IEC TC-JTC 1 SC-38 (P); SOA ISO/IEC TC-JTC 1 SC-39 (P)	12-02-2022	Detail
40	LITD 31(18282)	Information technology Cloud computing Part 1: Vocabulary	ISO/IEC TC-JTC 1 SC-38 (P); SOA ISO/IEC TC-JTC 1 SC-39 (P)	14-02-2022	Detail
41	LITD 31(18285)	Cloud computing and distributed platforms Data flow data categories and data use Part 1: Fundamentals	ISO/IEC TC-JTC 1 SC-38 (P); SOA ISO/IEC TC-JTC 1 SC-39 (P)	12-02-2022	Detail
https://www.services.bis.gov.in:8071/php/BIS_2.0/dgdashboard/draft/darftdetail/66/3/LITD					

Transport (TED)

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

Transport Engineering Department (TED)					
S. No.	Document No	Title of the Doc	IEC/ISO	Last date for Comments	Detail
1	TED 2(16879)	Automotive power - Performance requirements Measurement of power sfc opacity of positive and compression ignition engine - Method of test	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)	20-05-2022	Detail
2	TED 14(16194)	Unmanned Aircraft Systems – Cybersecurity	ISO TC-20 (O); ISO TC- 31 (P); ISO TC- 192 (P); ISO TC-20 SC-1 (P); ISO TC-20 SC-4 (P); ISO TC-20 SC-6 (O); ISO TC-20 SC-8 (P); ISO TC-20 SC-9 (O); ISO TC-20 SC-10 (P); ISO TC-20 SC-13 (P); ISO TC-20 SC-14 (P); ISO TC-31 SC-8 (O)	05-04-2022	Detail
3	TED 27(18123)	Electric Power Train Vehicles Part 1 Measurement of Electrical Energy Consumption Amendment - 1	ISO TC-22 (P); ISO TC-22 SC-37 (O); IEC TC-69 (O)	01-05-2022	Detail
4	TED 27(18135)	Electric Power Train Vehicles Part 2 Method of Measuring the Range Amendment – 1	ISO TC-22 (P); ISO TC-22 SC-37 (O); IEC TC-69 (O)	01-05-2022	Detail
5	TED 27(18136)	Electric Power Train Vehicles Part 3 Measurement of Net Power and the Maximum 30 Minute Power Amendment – 1	ISO TC-22 (P); ISO TC-22 SC-37 (O); IEC TC-69 (O)	01-05-2022	Detail

6	TED 18(17789)	Small craft - Hull construction and scantlings Part 1 Materials: Thermosetting resins, glass-fibre reinforcement, reference laminate	ISO TC- 8 (P); ISO TC- 7 SC-7 (P); ISO TC- 11 SC-11 (P); ISO TC- 188 (O)	04-03-2022	Detail
7	TED 29(14091)	Approval of Restraining Devices for Child Occupants of Power- Driven Vehicles Child restraint System	ISO TC- 22 (P); ISO TC-22 SC-36 (P); ISO TC-22 SC-12 (P); ISO TC-22 SC-10 (O)	28-03-2022	Detail
8	TED 18(17789)	Small craft - Hull construction and scantlings Part 1 Materials: Thermosetting resins, glass-fibre reinforcement, reference laminate	ISO TC- 8 (P); ISO TC- 7 SC- 7 (P); ISO TC- 11 SC-11 (P); ISO TC- 188 (O):	04-03-2022	Detail
9	TED 26(15013)	Road vehicles - Compressed natural gas CNG fuel system components - Conduit Ventilation Hose	ISO TC- 22 (P); ISO TC- 41 SC-41 (P)	25-02-2022	Detail
10	TED 26(15014)	Road vehicles - Compressed natural gas CNG fuel system components - CNG high pressure fuel line Rigid with end connections having pressure exceeding 215 Mpa 215 Bar	ISO TC- 22 (P); ISO TC- 41 SC-41 (P)	05-02-2022	Detail
11	TED 26(15015)	Road vehicles - Compressed natural gas CNG Fuel system components - Current limiting devices	ISO TC- 22 (P); ISO TC- 41 SC-41 (P)	25-02-2022	Detail
https://www.services.bis.gov.in:8071/php/BIS_2.0/dgdashboard/draft/darftdetail/67/3/TED					

Smart City/Civil Department (CED)

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

Smart Cities				
S. No.	Document No	Title of the Doc	IEC/ISO	Give comments
No records found				
https://www.services.bis.gov.in:8071/php/BIS_2.0/dgdashboard/draft/darftdetail/63/3/CED				

Service Sector Department

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

S. No.	Document No	Title of the Doc	IEC/ISO	Last date for Comments	Detail
		Services			
1	SSD-II 5(17440)	Yoga Centre — Service Requirements	––	02-04-2022	Detail
2	SSD-II 5(17442)	Physical Activity, Sports and Injury Management - Guidelines for Safety in Educational Institutions and Community Sports Academies	––	15-04-2022	Detail
3	SSD-II 1(18008)	Transportation of Dangerous Goods – Guidelines	ISO TC-315 (P)	11-03-2022	Detail
4	SSD-I 13(16880)	Media and Entertainment Services– Categorization of Programmes offered by Skill Development Services Providers	_	18-02-2022	Detail
5	SSD-II 18(17397)	Guidelines on Supply Chain of Onions	_	13-02-2022	Detail
https://www.services.bis.gov.in:8071/php/BIS_2.0/dgdashboard/draft/darftdetail/107/3/SSD-I					
https://www.services.bis.gov.in:8071/php/BIS_2.0/dgdashboard/draft/darftdetailcomm/402/3/SSD-II-1					

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:

S. No.	Department	Code	Title
		At Automotive Research Association of India (ARAI)	
1	Automotive	Draft AIS-162/D3/Feb 2022	Type Approval of Motor Vehicles of categories M2, M3, N2 and N3 with regard to the Advanced Emergency Braking Systems (AEBS)
2	Automotive	Draft Amd 1 to AIS-137 (Part 1)	Test Method, Testing Equipment and Related Procedures for Type Approval and Conformity of Production (COP) Testing of L2 category Vehicles for Bharat Stage VI emission norms as per CMV Rules 115, 116 and 126
3	Automotive	Draft AIS-186/D0	Approval of motor vehicles with regard to the Blind Spot Information System for the Detection of Bicycles
4	Automotive	Draft AIS-187/D0	Approval of motor vehicles with regard to the Moving Off Information System for the Detection of Pedestrians and Cyclists
5	Automotive	Draft AIS-178/D1	Provisions for Adapted Vehicles of categories L1, L2, L5M and E-rickshaw

6	Automotive	Draft AIS-100(Rev. 1)/D2	Requirements for the Protection of Pedestrian and other Vulnerable Road Users in the event of a Collision with a Motor Vehicle
7	Automotive	Draft AIS-180/D1/ Feb 2022	Specific Requirements for Motor Vehicles intended for the carriage of Dangerous and Hazardous Goods with regard to their Constructional Features
8	Automotive	Draft Amd 2 to AIS-024 and AIS-028 (Rev.1)	Safety and procedural requirements for type approval of CNG/Bio-CNG/LNG operated vehicles (DEDICATED, BI-FUEL & DUAL FUEL) and Code of practice for use of CNG/Bio-CNG/LNG fuel in internal combustion engine vehicles
9	Automotive	Draft AIS-181/D1/ Feb. 2022	Approval of Tank Vehicles with regard to Rollover Stability
10	Automotive	Draft AIS 174 / D1	Specific Requirements for Electric Power Train Construction Equipment Vehicle(s)
https://www.araiindia.com/downloads			

ICT at TSDSI

		"List of New Item for Proposal at TSDSI"		
S. No.	New Item Proposal	Name	Version	Status
1	NIP 276	Technical Standards Activity Roadmap Planning	TSDSI-SGN-NIP276-V1.0.0-20220309	Accepted
2	NIP 275	Transposition of Security Standards for 5G elements covered under 3GPPs "Series 33" specifications of Release 15 and Release 16	TSDSI-SGSS-NIP275-V1.0.0-20220119	Accepted
3	NIP 270	Functional Split and Fronthaul Interface in FBS Driven C-RAN for 5G and Beyond	TSDSI-SGN-NIP270-V2.0.0-20220304	Introduced in SGN TP#24 (August 2021) and approved as a Work Item in SGN TP#26 (March 2022)
For complete details of the NIP please click here				

"List of Study Item status update"				
S. No.	Study Item	Name	Version	Status
1	SI93	Study UAV/Drone 3GPP-5G standards applicability to India use cases	TSDSI-SGSS-SI93-V1.0.0-20220308	Initiated
For complete details of the Study Items please click here				
"List of SWIP Status Update"				
S. No.	SWIP	Name	Version	Status
1	SWIC770	5Gi 3GPP merger LS to ITU-R WP5D, TEC, 3GPP PCG, & 3GPP TSG RAN	TSDSI-SGN-SWIC770-V1.0.0-20220110	Accepted
2	SWIC771	Architecture Contribution for NIP226	TSDSI-SGN-SWIC771-V1.0.0-20220228	Accepted
3	SWIC772	Table of Contents for NIP 248	TSDSI-SGN-SWIC772-V1.0.0-20220301	Accepted
4	SWIC773	A Generic Relay Architecture for 5G & beyond	TSDSI-SGN-SWIC773-V1.0.0-20220301	Accepted
5	SWIC774	Evaluation of coexistence between FSS & IMT in 6GHz spectrum	TSDSI-SGN-SWIC774-V1.0.0-20220301	Accepted
6	SWIC775	Email discussion [TSDSI-SGN-TP25-ED04] outcome	TSDSI-SGN-SWIC775-V1.0.0-20220301	Accepted
7	SWIC777	Detailed TR on VLC/LiFi	TSDSI-SGN-SWIC777-V1.0.0-20220303	Accepted
8	SWIC778	Characterization of E-band Transmission in India	TSDSI-SGN-SWIC778-V1.0.0-20220303	Accepted
9	SWIC779	Dynamic Joint Deployment of SDN Controllers and Hypervisors for Softwarized 5G and Beyond	TSDSI-SGN-SWIC779-V1.0.0-20220303	Accepted
10	SWIC772	Table of Contents for NIP 248	TSDSI-SGN-SWIC772-V1.1.0-20220307	Accepted
11	SWIC780	Drafting of SWIC 758 WD	TSDSI-SGN-SWIC780-V1.0.0-20220308	Accepted
12	SWIC774	Evaluation of coexistence between FSS & IMT in 6GHz spectrum	TSDSI-SGN-SWIC774-V1.1.0-20220308	Accepted
https://tsdsi.in/study-work-items-proposals/16/				

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

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

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