



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

In this Issue

1. [Headlines of the Quarter](#)
2. [Standards, TBTs, IPR & Market Access](#)
3. [Smart Cities](#)
4. [Mobility](#)
5. [ICT including services](#)
6. [Electrical Equipment including Consumer Electronics](#)
7. [Manufacturing/Make in India](#)
8. [R&D and Innovation](#)
9. [Energy Efficiency – Environment & Circular Economy](#)
10. [EU-INDIA/Trade-FTA/Investments](#)
11. [Invest India](#)
12. [Events](#)
13. [Annexure 1](#)
14. [Indian rupee](#)
15. [About Project SESEI](#)



Dear Readers,

We are pleased to present our seventh edition of “SESEI newsletter – Europe”. India, at present is grappling with the devastating effects of the second wave of the covid 19 virus. Steep rise in the covid cases has forced the states to impose complete lockdown until the numbers starts subsiding.

With hope for “state of affairs” to become better and the country to return to normalcy, we bring to you this edition of the “SESEI Newsletter – Europe”, providing you with important snippets from India on the Project priority sectors covering ICT, Smart Cities, Mobility, Electrical Equipment including Consumer Electronics, Energy Efficiency and Environment, etc. for the period of January 2021 to March 2021.

The United Nations has raised India's growth forecast to 7.5% for calendar year 2021, marking a 0.2 per cent increase from its projection in January, but said the country's outlook for the year remains highly fragile. The surging Covid-19 infections and inadequate vaccination progress in many countries threaten a broad-based recovery of the world economy, said the World Economic Situation and Prospects report.

With “Make in India” as the slogan, Government is intending to take many measures of strengthening the standardization bodies. Following the EU example of Harmonisation of Standards and Single Market, which means One EN applicable among EU members while replacing 34 different national standards, Consumer Affairs, Food and Public Distribution Minister has called for embarking on a mission of 'one nation one standard' and make India the leader in setting global benchmarks in setting standards. The minister said that BIS should explore international partnerships and associations to achieve synergy in the field.

National Standard body, Bureau of Indian Standards (BIS) has brought out 'BIS Talks' Film's series on standardization in different technology sectors to spread awareness about the benefits of standardization and status of its standardisation activities among various stakeholders such as industry, academia, research & development institutions, Govt. Bodies, laboratories etc.

To support domestic manufacturing, the government has also proposed an increase in customs duty on certain imported components used in automobiles. Similarly, Department of Telecom (DoT) has directed all state- owned companies, central ministries, and government departments to give preference to locally produced cybersecurity products in public procurement.

The production linked Scheme (PLI) has been launched across many sectors. The primary motive to encourage indigenous manufacturing and enhance uptake of Indian products is at the core of this scheme. Telecom PLI has already been approved by the government. The [telecom](#) and network equipment manufacturing giants like Nokia, Ericsson are looking forward to expanding their base in India. The scheme will cover core transmission equipment, 4G/5G and next-generation radio access network and wireless equipment, access, and customer premise equipment (CPE), Internet of Things (IoT) access devices, and enterprise equipment such as switches and router.

Indian Urban Data Exchange (IUDX), SmartCode, Smart Cities 2.0 website, and Geospatial Management Information System (GMIS) were also launched during this period. [India Urban Data Exchange](#) (IUDX) Program toward building an Open-Source platform that facilitates secure, authenticated, and managed exchange of data amongst various data sources and consumers, we are pleased to inform that the IUDX Program will adopt ETSI's NGSI-LD Application Programming Interfaces (API) specifications for its resource server.

Ropeways and Alternate Mobility solutions which were earlier being reviewed by the Govt. think tank - NITI Aayog will from now onwards come under the Ministry of Road Transport and Highways. This means that the Ministry will have responsibility for development of ropeway and alternative mobility solutions including its technology, construction, research, and policy in this area. Formulation of institutional, financial, and regulatory framework for the technology will also fall under the ambit of this move. SESEI worked closely with NITI Aayog and BIS on the safety standards required for the Ropeways based on the CEN standards.

Moving towards Electrical Vehicles by 2030, the government is also stressing upon shift towards a completely indigenous battery technology in the coming years. This could be metal-air, metal-ion, and other potential technologies in the R&D pipeline.

After a hiatus of eight years, trade talks between India and the 27-member grouping will "resume" for the possible conclusion of a 'Free Trade Agreement' (FTA) between the two sides. Keen to accelerate investments, technology and capital flows from the EU, India wants the investment and trade deals to happen parallelly and independently which means both the investment deal and trade deal will be addressed parallelly and independently.

India – Finland also held its virtual summit - both sides reviewed the ongoing bilateral engagements and expressed their desire to further expand and diversify the relationship across sectors such as trade and investment, innovation, education, emerging technologies including Artificial Intelligence, 5G/6G, and quantum computing etc.

The Newsletter carries information on many other important topics related to investment landscape and market synopsis concerning important project priority sectors in India. We also provide you details of the upcoming important events/ seminars and workshops. Draft standards formulated by the standardization bodies are also annexed with this Newsletter.

Hope you will find this Newsletter informative. Happy Reading!!!!

Warm regards,

Dinesh Chand Sharma

Seconded European Standardization Expert in India (SESEI)

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/IPR/TBT-Market Access

Lab testing in India should be of world standards

Consumer Affairs, Food and Public Distribution Minister has called for embarking on Mission 'one nation one standard' and make India the leader in setting global benchmarks in setting standards. He said that lab testing in India should be of world standards and modern equipment and latest technologies should be used. BIS should explore international partnerships and associations to achieve synergy in the field. He said that "gap analysis" of BIS and government labs be taken up on a priority basis as well. In management parlance, gap analysis refers to the comparison of actual performance with potential or desired performance. [Read More](#)

BIS reaches out to developing nations for adoption of Indian Standards

The BIS has shared the Indian Standards catalogue and guidelines for adoption of Indian Standards with National Standards Bodies (NSBs) of 21 countries with whom India has cooperation arrangements. This is to create awareness on indigenous Indian Standards among developing and least developed countries and to encourage them to use these wherever suitable, the consumer affairs ministry has urged the external affairs ministry to disseminate information on free availability of indigenous Indian Standards in countries through Indian missions. [Read More](#)

DoT directs all state procurements to be of local cyber security products

The DoT has directed to give preference to locally produced cybersecurity products in public procurement. "Preference has to be given to 'Make in India' cyber security products in public procurement by central ministries/departments, public sector undertakings (PSUs) and government organisations," the DoT said in a circular issued. The development came after the Ministry of Electronics & Information Technology said that it was awash with complaints from droves of indigenous cyber product companies about the challenges, they were facing in participating in public procurement of such products. [Read More](#)

Rise in customs duty on auto parts to support local manufacturing

With an eye on supporting domestic manufacturers, the government proposed an increase in customs duty on certain imported components used in automobiles. In the Budget 2021-22, Finance Minister proposed increase in customs duty of various parts including ignition wiring sets, safety glass and parts of signalling equipment to 15 % with effect from February. The government said the changes in basic customs duty is for creating level-playing field for the benefit of micro, small and medium enterprises (MSMEs) and other domestic manufacturers. [Read more](#)

Foreign Trade Policy 2015-2020 extended for 6 months till September 2021

The Union Commerce and Industry Ministry announced extension of the Foreign Trade Policy (FTP) of Government of India. The present Policy which came into force on 1st April 2015, was for 5 years and was extended thereafter upto 31st March 2021. In view of the unprecedented situation arising out of the pandemic Novel COVID-19, which is persisting, the Government has decided to continue benefits under various export promotion schemes by extending existing Foreign Trade Policy by another six months i.e. up to 30th September, 2021 which will provide continuity in the policy regime. Similar extension is made in the related procedures, by extending validity of Handbook of Procedures. [Read More](#)

‘BIS Talks’ Films series on standardization in different technology sectors

Bureau of Indian Standards (BIS) has brought out 'BIS Talks' Film's series on standardization in different technology sectors. The films are primarily educational in nature and present an overview of the standardization activities carried out through Technical Committees of BIS. It is envisaged that this knowledge would enable various stakeholders such as industry, academia, research & development institutions, Govt. Bodies, laboratories etc. to reap the benefits of standardization and to contribute towards strengthening it through their valuable inputs. The 'BIS Talks' Films can be accessed through our website www.bis.gov.in or directly through the link <http://203.153.41.213:8081/php/bistalks/>

[Back to contents](#)

Smart Cities

National Urban Digital Mission & Several Digital Initiatives launched for Transforming Urban Governance India urban data exchange (IUDX) production version, smartcode platform also launched

The National Urban Digital Mission (NUDM) has been launched by the Ministry of Housing and Urban Affairs (MoHUA) along with the Ministry of Electronics and Information Technology (MEITY). The event was attended by Secretary, MoHUA & Secretary, MeitY and other officers of the Central and State Governments were also present at the launch. Several other digital initiatives of MoHUA viz. India Urban Data Exchange (IUDX), SmartCode, Smart Cities 2.0 website, and Geospatial Management Information System (GMIS) were also launched. These initiatives are among the ongoing efforts of both Ministries to realize the Prime Minister's vision of Digital India and AtmaNirbhar Bharat, by making cities more self-reliant and enabled to meet the needs of and provide services to their citizens.

- **India Urban Data Exchange (IUDX):** IUDX has been developed in partnership between the Smart Cities Mission and the Indian Institute of Science (IISc), Bengaluru. IUDX serves as a seamless interface for data providers and data users, including ULBs, to share, request, and access datasets related to cities, urban governance, and urban service delivery. IUDX is an open-source software platform which facilitates the secure, authenticated, and managed exchange of data amongst various data platforms, 3rd party authenticated and authorised applications, and other sources.
- **SmartCode Platform:** SmartCode is a platform that enables all ecosystem stakeholders to contribute to a repository of open-source code for various solutions and applications for urban governance. It is designed to address the challenges that ULBs face in the development and deployment of digital applications to address urban challenges, by enabling cities to take advantage of existing codes and customising them to suit local needs, rather than having to develop new solutions from scratch.
- **New Smart Cities Website ver. 2.0 and GMIS:** To better connect with people on the Smart Cities Missions efforts and achievements, and to make it easier for ULBs and citizens to access resources related to their work, the Smart Cities Mission website has been redesigned to serve as a single stop for all Smart Cities initiatives. The Geospatial Management Information System (GMIS) is integrated with this website.

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Bureau of Indian Standards (BIS) published following Smart City standards

- [IS 18000: 2020](#) Unified Digital Infrastructure - ICT Reference Architecture (UDI-ICTRA)
- [IS 18010 \(Part 1\): 2020](#) Unified Digital Infrastructure - Unified Last Mile Communication Protocols Stack Part 1 Reference Architecture (UDI – ULMCPS – RA)
- [IS 18003 \(Part 1\): 2020](#) Unified Data Exchange Part 1 Architecture

Smart Cities Mission train officers in data-driven governance

In each of the 100 Smart Cities across the country, the appointed City Data Officer (CDO) is currently undergoing a six-week training by the Centre's Smart Cities Mission and Tata Trusts to reimagine how data and information can solve local issues. In the "Enabling Data Driven Decision Making in Urban Local Bodies" course, their chosen case studies showcase their city's new technological objectives. "The Ministry has developed a structured course specifically designed for training in data. Everyone must deal with data. The kind of energy the City Data Officers are showing — the program has flourished.

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Target to develop more than 4,372 cities as smart cities

Stating that the smart cities concept does not have a single dimension of focusing on just big or small cities, Secretary, Ministry of Housing and Urban Affairs, has said that the target is to develop more than 4,372 cities as smart cities. "Our target is to develop our 4,372 cities, along with other cities, as smart cities. To make this happen, cities should use their land, resources, local people, and skills to move on different path," he said at the virtual 4th Smart Cities Summit & 2nd Smart Urban Innovation Awards, organized by FICCI in the Capital. He said that the learning of one city chosen under 100 smart cities should be spread to other cities so that it becomes a light house. [Read More](#)

[Back to contents](#)

Mobility**Ropeways and Alternate Mobility Solutions to be under Ministry of Road Transport and Highways from now on**

The Ministry of Road Transport and Highways will, from now on, also look after the development of Ropeways and Alternate Mobility Solutions. The move is expected to give a boost to the sector, by setting up a regulatory regime, and facilitating research and new technology to come into this sector. An amendment to the Government of India Rules, 1961 has been notified, to enable this step. This means that the Ministry will have responsibility for development of ropeway and alternative mobility solutions technology, as well as construction, research, and policy in this area. Formulation of institutional, financial, and regulatory framework for the technology will also fall under the ambit of this move. [Read More](#)

Government of India and Fime move closer to national mobility scheme roll-out

Fime has collaborated with the Government of India to develop and launch the testing infrastructure for India's National Common Mobility Card (NCMC). Part of the national Make in India program, the ambitious initiative will deliver 'One nation, one mobility card' to bring unity, efficiency, and smoother end-to-end travel experiences to India. Fime has become the first transit testing lab in India. Its technical consultancy, next-gen test tool and testing services are now helping local vendors, transit operators and banks to define, design, deliver and test automated fare collection (AFC) systems with confidence.

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Vehicle manufacturers to build indigenous vehicles for using flexible fuel alternatives

Union Minister for Road Transport and Highways & MSME has urged car manufacturers give priority to the indigenous production of flex engines, which can be used in vehicles using alternative fuels such as ethanol. Meeting a delegation of carmakers from the Society of India Automobile Manufacturers, the Minister said that, with ethanol beginning to be easily available in the country, and more than 70% of gasoline consumption being done by two-wheelers, there is a need to develop indigenous technology for flex fuel vehicles. [Read More](#)

Indian auto industry seeks government support for localisation of electronic components

Auto industry body SIAM sought government support for localisation of electronic components, especially semiconductors, which is currently facing a global shortage, stating it would need huge investments. The shortage of semiconductors globally due to a spike in demand from the consumer electronics industry during the COVID-19 lockdowns has impacted automobile manufacturers in India as well. Semiconductors have become a crucial part in modern cars with increased electronic components and connectivity features. [Read more](#)

Report on “Mobilising Finance for EVs in India”: A Toolkit of Solutions to Mitigate Risks and Address Market Barriers”

India’s transition to EVs has advanced rapidly in the past few years. A supportive policy environment, improving economics, and emerging business models have poised the EV market for significant growth in the coming decade. Key barriers related to EV adoption—including technology cost, infrastructure availability, and consumer behavior—must be overcome.

NITI Aayog and Rocky Mountain Institute has come out with a report titled “Mobilising Finance for EVs in India”: A Toolkit of Solutions to Mitigate Risks and Address Market Barriers” which identified solutions to direct capital and financing to aid in India’s EV transition. [Read more/Download](#)

Call for R&D and shift towards alternate battery technologies for EVs

With electric vehicles fast becoming the new reality, Union Minister for MSME and Road Transport & Highways has stressed the need to emerge as pioneers in developing leading battery and power-train technologies. Noting that the challenge we presently face is the control on strategic reserves of Lithium, which is used to manufacture Lithium-ion rechargeable batteries used in vehicles, the Minister has called upon the EV sector to shift towards a completely indigenous battery technology in the coming years. This could be metal-air, metal-ion and other potential technologies in the R&D pipeline.

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MoRTH/Railway ministry Notifications**Ministry of Road, Transport and Highways issued following notifications:**

- G.S.R. 148(E): Mandating dual airbags for all passenger cars in India. [Read more/Download](#)
- G.S.R. 136(E): regarding Notification for electronic Monitoring and Enforcement of Road Safety. Public comments are invited until 25th March [Read more/Download](#)
- S.O 1433(E) regarding Implementations of sections of MV Act 2019. [Read more](#)
- G.S.R 220(E) regarding Concession in Motor Vehicle Taxes against submission of Certificate of Vehicle Scrapping. [Read more](#)
- G.S.R 190(E) regarding Motor Vehicles (Registration and Functions of Vehicle Scrapping Facility) Rules, 2021. [Read more](#)
- G.S.R 173(E) regarding Construction, Equipment and Maintenance of Motor Vehicles. [Read more](#)
- S.O 1232(E) regarding Vehicle Recall formula. [Read more](#)

Railway Ministry issued following notifications:

- Implementation of Public Procurement (Preference to Make in India) Order, 2017 - Notification of RE items under para-3(a) of PPP-MII Order. [Read more](#)
- Pre-qualification criteria for Elevator/Lifts. [Read more](#)
- Misclassification of Goods as Works in procurement. [Read more](#)
- New safety norms for vehicle manufacturers under discussion: Official [Read more](#)
- Government of India and FIME move closer to national mobility scheme roll-out. [Read more](#)

[Back to contents](#)

ICT including services**5G ‘Test Bed’ is expected to boost telecommunications technology by October, 2021**

With the aim of taking the lead in implementing 5G, India’s ongoing project to set up ‘Indigenous 5G Test Bed’ which was launched in March 2018, with a total cost of 224.01 million, is expected to be ready by October 2021 to improve the national capability in telecommunications technology, which fills the Indian telecommunications manufacturers. To provide test beds full access for research teams to work on new concepts or ideas that have potential for standardization in India and on a global scale, make a test bed available for Indian operators to understand the workings of 5G technologies and security aspects and to plan their future. networks are among the main objectives of the ‘5G Test Bed’. [Read More](#)

Government to launch National Programme on Artificial Intelligence (AI) soon

The Centre is going to launch a National Programme on AI soon. The programme will identify high value data sets in the public sector and provide access to the data to AI models. The government will also set up a Centre for Transformational AI to tap the data in various sectors and make it available for AI models, according to Joint Secretary, MEITY. The govt. will launch Digital India 2.0 with an aim to take the digital service offerings, infrastructure, and cyber security to next level. More services will be offered through digital platforms, India will focus on developing indigenous cybersecurity products and robust digital infrastructure. [Read More](#)

Department of Telecommunications (DoT) to issue guidelines for implementation of PLI in telecom

DoT is likely to issue guidelines on implementation of production-linked incentive (PLI) schemes for manufacturers in the sector and start inviting applications for the same. Telecom gear makers firms such as Ericsson and Nokia are keen to expand their operations in India, and global companies like Samsung, Cisco, Ciena and Foxconn have "shown interest" to set up manufacturing bases in the country for telecom and networking products for domestic and export markets. "Telecom PLI has already been approved by the government. The DoT is ready with guidelines to implement it, application format, incentive allocation, etc. [Read More](#)

Department of Telecommunications (DoT) amends rules for procurement of gear

The government tightened norms for internet service providers (ISPs), mandating them to buy telecom equipment approved by it because of concerns over national security, in a move that could impact Chinese equipment suppliers. This comes in the wake of the government amending procurement rules for operators on 10 March. The development will impact companies such as Gas Authority of India Ltd (GAIL), Power Grid Corp Ltd, RailTel Corp Ltd, and Oil India Ltd, which hold ISP licences. Starting 15 June, these companies and other ISPs will only be able to procure telecom equipment listed as "trusted products", which is yet to be finalized by the government-appointed authority. [Read More](#)

Government eases 5G path by reducing notice period to 6 months for rolling out new tech by telcos

The government eased the path for 5G rollout in the country by reducing to six months the notice period for offering any new technology using the spectrum being put up for auction in March. Earlier, the Telecom department DoT has asked telecom operators to give one year notice before starting any technology using spectrum across the seven frequency bands that will be offered in auction on March 1. "In case of switching over to different technology while rolling out the networks for compliance of roll out obligations, information regarding the new technology should be given at least six months before any new technology base station is offered for testing," the amendment in the spectrum auction clause released by the DoT said. [Read More](#)

Mandatory testing on hold: Telecom vendors say impact on broadband rollout likely

Telecom gear vendors like Nokia, Huawei and ZTE have said that TEC's move to put mandatory testing and certification for wireline equipment on hold will impact deployments in the country. The Telecommunication Engineering Center (TEC) informed all vendors through notices that certifications issued have been put on hold till further notice due to "anomaly" found in the process of phase-II of Mandatory Testing and Certification of Telecommunication Equipment (MTCTE) regime. Under the phase-2, telecom equipment makers were supposed to get certification for transmission terminal equipment, passive optical network family (PON) of broadband equipment and feedback devices. [Read More](#)

Notifications/consultation Papers/recommendations/policies and directives, whitepapers released by MEITY/TEC/TRAI

- Draft "National Blockchain Strategy" for public comments/inputs. [Read more/Download](#)
- Notice for seeking stakeholders' inputs on the Draft Indian Telecom Security Assurance requirements (ITSAR) for PCRF (4G Core network element). [Read more](#)
- Extension of last date for submitting comments on Draft guidelines for Consumer IoT Security. [Read more](#)

- Annual Report for the year 2019-20. [Read more](#)
- Consultation Paper on Licensing Framework for Satellite-based connectivity for low bit rate applications [Read and Download](#)

[‘Back to contents](#)

Electrical Equipment including Consumer Electronics

Tata Power DDL introduces Narrow-Band IoT technology in smart meters

Tata Power Delhi Distribution Ltd (TPDDL) announced it has introduced Narrow Band-Internet of Things (NB-IoT) technology in its smart meters. The private power distributor has so far installed 230,000 smart meters on the Radio Frequency (RF) technology. The company said the "first-of-its-kind" technology integration has been done involving meter manufacturers and NB-IoT service of Reliance-Jio Network. "NB-IoT is a new and cost-effective technology in 4G and 5G spectrum with fast deployment quality. [Read More](#)

MEITY invites applications for second round of large-scale electronics manufacturing under PLI scheme

The government has started inviting applications for the second round of large-scale electronics manufacturing under the production-linked incentive (PLI) scheme with focus on some electronic components like motherboards boards semiconductor devices, among others. The application window for the scheme has been opened till March 31 which may be further extended, as per guidelines issued by the Ministry of Electronics and IT (Meity). [Read More](#)

Cabinet approves PLI scheme for air-conditioners, LED lights, etc.

The Union Cabinet approved the production-linked incentive (PLI) scheme for air conditioners (ACs) and light-emitting diode (LED) lights with an aim to boost the local component supply ecosystem for these items. Under the new PLI, a sum of Rs 6,238 crore (€73 billion) has been approved as incentives to selected manufacturers over a five-year period starting 2021-22. Since last April, the cabinet, headed by Prime Minister, has approved PLI for five sectors. But unlike the previous ones the latest scheme solely focuses on component manufacturing. [Read More](#)

The India Energy Outlook 2021: a special report in the IEA's World Energy Outlook series

India is set to see the largest increase in energy demand of any country over next 20 years, new IEA report says, highlighting potential for policies and investment to accelerate clean energy transition. India's ability to ensure affordable, clean and reliable energy for its growing population will be vital for the future development of its economy but avoiding the kind of carbon-intensive path previously followed by other countries will require strong policies, technological leaps and a surge in clean energy investment, according to a new report released today by IEA. [Read More](#)

Ministry of Power (MoP) has released following notifications:

- Central Electricity Authority (CEA) notified Draft Central Electricity Authority (Measures Relating to Safety and Electric Supply) Regulations, 2021 for public comments. [Read more/Download](#)
- Central Electricity Authority (CEA), Ministry of Power (MoP) invited comments on draft standard technical specifications of Transformer (s) for Solar Park Pooling station. [Read more](#)
- Notification on the division and demerger of the Central Transmission Utility and Power Grid Corporation of India Limited Transfer Scheme, 2021. [Read more/Download](#)
- Amendments to the Guidelines for Tariff Based Competitive Bidding Process for Procurement of Round-The Clock Power from Grid Connected Renewable Energy Power Projects, complemented with Power from any other source or storage. [Read more/Download](#)

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

- Approved Models and Manufacturers of Solar Photovoltaic Modules (Requirement for Compulsory Registration) Order, 2019 - Implementation - Reg. [Read more/Download](#)

- Imposition of 25% Basic Customs Duty (BCD) on Solar PV Cells & 40% on Solar Modules/ Panels. [Download](#)
- Draft policy framework for developing and promoting decentralised renewable energy livelihood applications. [Read more/Download](#)
- Guidelines for International Solar Alliance (ISA) undergraduate Fellowship Program. [Read more/Download](#)
- Guidelines for enlistment under "Approved Models and Manufacturer of Solar Photovoltaic Modules Order, 2019" – Amendment. [Read more](#)

[Back to contents](#)

Manufacturing/Make in India

India finalises norms of Rs 12,000 crore (€1.4 billion) PLI scheme for telecom manufacturing: Report

The Indian government has finalized PLI norms for the telecom and network equipment manufacturing. The cabinet had recently approved the broader PLI scheme worth Rs 12,200 crore (€1.4 billion) to boost local manufacturing of telecom gear for both the domestic market and exports. The scheme will cover core transmission equipment, 4G/5G and next-generation radio access network and wireless equipment, access, and customer premise equipment (CPE), Internet of Things (IoT) access devices, and enterprise equipment such as switches and router. [Read More](#)

India must develop technology to indigenously manufacture electronic materials: MoS

Minister of State for Education, Communications, Electronics, and IT said that materials are the backbone of the manufacturing sector in the country and that India's electronics manufacturing has grown from Rs 1.90 lakh crore (€ 22.3 billion) International Energy Agency akh crore to Rs 5.33 lakh crore (€62.7 billion) in recent years. From contributing approximately 1.3% in 2012, the share of mobile phone manufacturing has increased to 3.6 per cent during 2019 - 2020. This growth has opened employability for thousands,". [Read More](#)

PLI scheme to boost India's manufacturing output by \$520 bn in 5 years

Prime Minister said production linked incentive scheme, which is aimed at boosting domestic manufacturing and exports, is expected to increase the country's production by USD 520 billion in the next five years. In this year's Budget, about Rs 2 lakh crore was earmarked for the PLI scheme for the next five years and "there is an expectation that the scheme would result in increasing the production by about USD 520 billion in the next five years". There is also an expectation that the current workforce in the sectors, which will avail the benefits of the PLI scheme, will be doubled and job creation will also increase. [Read More](#)

Auto component manufacturers to increase localisation to 100%

Union Minister asked automobile manufacturers to hike localisation of components to 100% or else the government will think of increasing basic customs duty on imported items, but the auto industry wants support for localisation of electronic parts, especially semiconductors. Speaking at an event organised by the Automotive Components Manufacturers Association of India (ACMA), Minister of Road Transport and Highways, said the present level of localisation of parts in the Indian auto sector is around 70% and "at any cost we need to stop imports of auto components". [Read More](#)

[Back to contents](#)

R&D and Innovation

India's First Engineering R&D Policy Announced in Karnataka

The engineering R&D (ER&D) sector is one of the fastest growing industries in India. This E R&D policy has become first of a kind in the country. The aim of the policy is to contribute approximately 45% to India's engineering R&D needs during the policy tenure. "Karnataka is currently the leading contributor to the Indian Engineering R&D industry revenue. The State is home to over 400 leading R&D Centers/ GCCs. This policy aims to retain this position, generation of intellectual properties (IPs), and to make this as skilled knowledge capital." It is to be noted here that the expenditure of global E R&D is forecast to clock \$2 trillion by 2025, and the same industry is growing at an CAGR of around 12.5% in India. [Read More](#)

Budget to further boost Science and Technology ecosystem

Budget 2021 includes several initiatives to promote science, technology, and innovation with applications in the country. It is a forward-looking budget to substantially boost support for R&D in the key identified areas of national priorities. These are also in line with the projections in the draft Science Technology and Innovation Policy 2021 put up for public consultations. This includes a total allocation of Rs 50,000 crore (€5.9 billion) over 5 years for the National Research Foundation, an autonomous body envisaged to support researchers working across several streams of S&T with special focus on universities. [Read More](#)

[Back to contents](#)

Energy Efficiency & Environment including Circular Economy

Cabinet approves MoU between India and France on Renewable Energy Cooperation

The Union Cabinet, chaired by the Prime Minister, apprised of the signing of MoU between India and French Republic in the field of renewable energy cooperation. The MoU was signed in January 2021. The objective of the MoU is to establish the basis for promotion of bilateral cooperation in the field of new and renewable energy based on mutual benefit, equality and reciprocity. It covers technologies relating to solar, wind, hydrogen, and biomass energy. [Read More](#)

EESL calls private players to boost adoption of energy efficient products, services

With the aim to maximise the adoption of energy efficient products and services in India, Energy Efficiency Services Limited ([EESL](#)), a joint venture under the Ministry of Power, has decided to empanel Corporate Sales Agencies, Direct Sales Agencies, Dealers and Retailers and other Demand Aggregators, including ESCOs with requisite under the Success Fee Model. Through this, EESL seeks to boost and expand the sale of its various existing and new products and services in the markets. [Read More](#)

India to meet its Paris agreement commitments ahead of 2030

Prime Minister said, that India is on track to achieving its climate goals well before the target date as it switches over to energy-efficient mediums and uses waste to generate energy. Speaking after accepting the 2021 CERAWEEK Global Energy & Environment Leadership Award for his commitment to energy sustainability and the environment, Modi said climate change and calamity are major challenges facing the world. Both are interlinked, and one way to fight them is through policies, laws, rules, and orders, and the other is bringing behavioral change, he said, listing measures taken by his government for sustainable energy usage. [Read More](#)

Battery storage, smart grid, energy efficiency firms raise \$1.3 bn in Q1 2021: Report by Mercom Capital Group

Total corporate funding in battery energy storage came to \$4.7 billion in 17 deals compared to \$3.1 billion in 19 deals in Q4 2020. In the first quarter (Q1) of 2021, \$1.3 billion was raised in venture capital funding by battery storage, smart grid, and energy efficiency companies, a 410% increase from the \$252 million raised in the same quarter last year, according to a recent report. It added that total corporate funding in battery energy storage came to \$4.7 billion in 17 deals compared to \$3.1 billion in 19 deals in Q4 2020. "Funding was up significantly YoY compared to \$244 million in nine deals in Q1 2020," said consulting firm in its report. [Read More](#)

Ministry of Environment, Forest and Climate change issued following notifications:

- User manuals for accelerating industrial energy efficiency. [Read more](#)
- Annual report 2020-21. [Read more/Download](#)
- G.S.R 243(E)- Notification of Environment Standards for thermal Power Plants. [Read more](#)
- G.S.R 228(E)- Final Notification of Environment Standards for Lead Stabilizer in Polyvinyl [Read more](#)

[Back to contents](#)**EU-India/Trade-FTA/Investments****India keen on investment, trade talks with EU**

India wants to start negotiations on an investment deal with the European Union simultaneously with a trade agreement in a renewed push to boost bilateral ties with the trade bloc. Keen to accelerate investments, technology and capital flows from the EU, India wants the investment and trade deals to happen parallelly and independently. “Both the investment deal and trade deal will have to happen parallelly and independently. The EU has said it is ready to consider launching negotiations on a standalone investment protection agreement, which would increase legal certainty for investors on both sides. [Read More](#)

India, Denmark chalks out Action Work Plan

India and Denmark announced the Green Strategic Partnership last year following the virtual summit between Prime Minister Narendra Modi and his Danish counterpart Mette Frederiksen. Following the summit, a joint statement issued listed out the core sectors of cooperation in the Green Strategic Partnership and mandated an Action Work Plan to be worked out for the next five years. In accordance with the decisions, the Danish Embassy has stationed four sector experts in the capital to liaise with the Indian authorities and give shape to the Green Strategic Partnership. Experts in the four core sectors - urbanization, water, energy and IPR - speak about how the partnership can be taken forward. [Read More](#)

First India-EU IPR dialogue held in the field of Intellectual Property Rights

The 1st India-EU IPR dialogue was held on 14th January 2021 between the EU Commission and Department for Promotion of Industry and Internal Trade (DPIIT) through a virtual platform. The aim of the dialogue was to further strengthen the India-EU relation & facilitate enhanced cooperation in the field of Intellectual Property Rights. The meeting was co-chaired by Sh. Ravinder, Joint Secretary, DPIIT and Mr. Carlo Pettinato, Head of Unit Investment & Intellectual Property, DG Trade, European Commission, jointly hosted by EU Commission and DPIIT.

[Read More](#)**India-Finland Virtual Summit**

Prime Minister Shri Narendra Modi and Prime Minister of the Republic of Finland H.E. Ms. Sanna Marin held a Virtual Summit and discussed the entire gamut of bilateral issues as well as other regional and multilateral issues of mutual interest. The two leaders reviewed the ongoing bilateral engagements and expressed their desire to further expand and diversify the relationship across sectors such as trade and investment, innovation, education, emerging technologies including Artificial Intelligence, 5G/6G, and quantum computing. PM appreciated Finland’s leading role in clean and green technologies and noted the potential for Finnish companies to partner India’s drive towards sustainable development. [Read More](#)

[Back to contents](#)**Invest India****FDI equity inflows into India cross \$500 bn milestone**

The key sectors which attracted the maximum of these inflows include services segment, computer software and hardware, telecommunications, trading, construction, automobile, chemicals, and pharmaceuticals. FDI equity inflows into India crossed the USD 500 billion milestone during April 2000 to September 2020 period, firmly establishing the country’s credentials as a safe and key investment destination in the world. According to the data of the Department for Promotion of Industry and Internal Trade (DPIIT), the inflows during the period stood at USD 500.12 billion. About

29% of the FDI came through the Mauritius route. It was followed by Singapore (21 %), the US, the Netherlands, Japan (each 7%), and UK (6 %). [Read More](#)

India implemented several measures to facilitate trade during 2015-20: WTO

India has implemented several measures to facilitate trade, such as simplification of procedures and customs clearances for imports and exports, according to WTO. Geneva-based World Trade Organisation said that the other trade-facilitation initiatives introduced by India since 2015 include introduction of Indian Customs Electronic Gateway (ICEGATE); Single Window Interface for Facilitation of Trade (SWIFT); the Direct Port Delivery and the Direct Port Entry facilities; and the increased use of the Risk Management System (RMS). These points were part of the report of India's seventh Trade Policy Review (TPR), which began on January 6 at the World Trade Organization. [Read More](#)

[Back to contents](#)

Event calendar 2021

National Summit on Smart Cities India

When: 27 Aug 2021

Where: The LaLiT New Delhi

National Summit on Smart Cities India will feature the designated heads of municipalities, urban/city planning, research/academic institutes, engineers/consultants, energy and utility experts, mobility and transportation experts, technology providers, and many more. For more information, please [click here](#)

IoTshow.in 2021

When: 21st – 23rd July 2021

Where: KTPO Trade Centre, Bengaluru, India

IoTshow.in 2021 is one of the largest exhibitions and event where you will find exhibitors from all the domains of IoT. Be it the hardware, software or the complete product organizations, be rest assured to see the latest from all. . For more information, please [click here](#)

AI Testing Conference

When: 20 May 2021

Where: Chinnappa Associates, Bengaluru, India

AI is not more a buzzword in the IT industry is, it is now main stream. Global enterprises have embraced AI and ML in an unprecedented scale and many other organizations are waiting at the sideline to step into this area. Initial results are promising and perhaps superlative. For more information, please [click here](#)

Virtual summit on Smart Metering: Power and water

When: JULY 21, 2020

Where: Virtual

India is currently witnessing a revolution in the field of metering, where advanced products are fast replacing the conventional ones. With Indian government taking various initiatives to increase advanced metering infrastructure in the Power and Water sector. For more information, please [click here](#)

World Machine Learning Summit

When: 10 - 11 Jun 2021

Where: DoubleTree Suites by Hilton Hotel Bangalore, Bengaluru, India

World Machine Learning Summit will focus on Technical Sessions on RPA, Cognitive, Artificial Intelligence, Machine learning and many more. This is a Program being curated based on guidelines from industry experts, with a target of about delegates. For more information, please [click here](#)

International Conference on Artificial Intelligence and Energy System

When: 12 - 13 Jun 2021

Where: Jaipur, India

The ICAIES Conference offers a great opportunity to bring together academicians and professionals around the globe to deliver the latest innovative research. For more information, please [click here](#)

Global Artificial Intelligence Summit & Awards

When: 07 - 08 Jul 2021

Where: New Delhi, India

Global Artificial Intelligence Summit & Awards 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](#)

Global Renewable Energy Recycling Conference

When: 05 Oct 2021

Where: New Delhi, India

With a population of 1.4 billion and one of the world's fastest-growing major economies, India will be vital for the future of the global energy markets. The Indian government has already increased its focus on environmental monitoring in recent years, by announcing ambitious targets for renewable energy. As a result of the increase, the volume of modules that reach the end of their life will grow at the same rate shortly. For more information, please [click here](#)

Two-Wheeler Forum

When: 17 Jun 2021

Where: The Leela Ambience Gurugram Hotel & Residences, Gurgaon, India

Two-Wheeler Forum (TWF) is the only conference of its kind, dedicated to the Two Wheeler Sector in India. Attendees come hungry to learn from our highly interactive panel sessions that include industry experts from all corners of the Two-Wheeler space (Two Wheeler Manufacturers, Auto Component Suppliers, Government, Auto Associations and more). For more information, please [click here](#)

[Back to contents](#)

Annexure 1**Electrical Equipment including Consumer Electronics (ETD)**

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

Electrotechnical (ETD)				
SI No	Document No	Title of the Doc	IEC/ISO	Give comments
1	ETD 25(16075)	Lifts for the transport of persons and goods Part 1: Passenger and goods lifts	ISO TC- 178 (P)	Comment
2	ETD 25(16077)	Lifts for the transport of persons and goods Part 2: Design rules calculations examinations and tests of lift components	ISO TC- 178 (P)	Comment
3	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)	Comment
4	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)	Comment
5	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)	Comment
6	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)	Comment
7	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)	Comment

8	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)	Comment
9	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)	Comment
10	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)	Comment
11	ETD 51(16825)	Road Vehicles --- Vehicle to Grid Communication Interface Part 8: Physical Layer and Data Link Layer Requirements for Wireless Communication	IEC TC-69 (P)	Comment
12	ETD 32(16833)	DOMESTIC ELECTRIC CLOTHES WASHING MACHINES FOR HOUSEHOLD USE SPECIFICATION	IEC TC- 61B, 61H, 61J SC- 61B, 61H, 61J (P); IEC TC- 59A, 59C, 59D, 59F, 59L SC- 59A, 59C, 59D, 59F, 59L (P)	Comment
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)	Comment
14	ETD 40(16862)	Performance of high-voltage direct current HVDC systems with linecommutated converters : Part 1 Steady-state conditions second revision	IEC TC- 22F SC- 22F (P)	Comment
15	ETD 40(16863)	Guideline for planning of HVDC systems : Part 1 HVDC systems with line-commutated converters	IEC TC- 22F SC- 22F (P)	Comment
16	ETD 25(16905)	Lifts Elevators Escalators and Moving Walks Programmable Electronic Systems in Safety Related Applications Part 3 Life Cycle Guideline for Programmable Electronic Systems related to PESSRAL and PESSRAE	ISO TC- 178 (P)	Comment
17	ETD 25(16906)	Lifts for the Transport of Persons and Goods: Part 1 Class I II III And VI Lifts Installation	ISO TC- 178 (P)	Comment
18	ETD 25(16907)	Lift Installation : Part 2 Class IV Lifts	ISO TC- 178 (P)	Comment
19	ETD 25(16908)	Passenger Lift Installations - Part 3 : Service Lifts Class V	ISO TC- 178 (P)	Comment
20	ETD 25(16909)	Lift Elevator Installation: Part 4 Control Devices Signals and Additional Fittings	ISO TC- 178 (P)	Comment

21	ETD 25(16910)	Lifts for the transportation of persons and goods : Part 5 Planning and selection of passenger lifts to be installed in office hotel and residential buildings	ISO TC- 178 (P)	Comment
22	ETD 25(16911)	Electrical Requirements for Lifts Escalators and Moving Walks Part 1 Electromagnetic Compatibility With Regard To Emission	ISO TC- 178 (P)	Comment
23	ETD 25(16912)	Electromagnetic Compatibility Product Family Standard For Lifts Escalators And Moving Walks : Part 2 Immunity	ISO TC- 178 (P)	Comment
24	ETD 25(16924)	Passenger lifts and service lifts Guide rails for lift cars and counterweights T-type	ISO TC- 178 (P)	Comment
25	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)	Comment
26	ETD 40(16862)	Performance of high-voltage direct current HVDC systems with linecommutated converters : Part 1 Steady-state conditions second revision	IEC TC- 22F SC- 22F (P)	Comment
27	ETD 40(16863)	Guideline for planning of HVDC systems : Part 1 HVDC systems with line-commutated converters	IEC TC- 22F SC- 22F (P)	Comment
28	ETD 25(16905)	Lifts Elevators Escalators and Moving Walks Programmable Electronic Systems in Safety Related Applications Part 3 Life Cycle Guideline for Programmable Electronic Systems related to PESSRAL and PESSRAE	ISO TC- 178 (P)	Comment
29	ETD 25(16906)	Lifts for the Transport of Persons and Goods: Part 1 Class I II III And VI Lifts Installation	ISO TC- 178 (P)	Comment
30	ETD 25(16907)	Lift Installation : Part 2 Class IV Lifts	ISO TC- 178 (P)	Comment
31	ETD 25(16908)	Passenger Lift Installations - Part 3 : Service Lifts Class V	ISO TC- 178 (P)	Comment
32	ETD 25(16909)	Lift Elevator Installation: Part 4 Control Devices Signals and Additional Fittings	ISO TC- 178 (P)	Comment
33	ETD 25(16910)	Lifts for the transportation of persons and goods : Part 5 Planning and selection of passenger lifts to be installed in office hotel and residential buildings	ISO TC- 178 (P)	Comment
34	ETD 25(16911)	Electrical Requirements for Lifts Escalators and Moving Walks Part 1 Electromagnetic Compatibility With Regard To Emission	ISO TC- 178 (P)	Comment
35	ETD 25(16912)	Electromagnetic Compatibility Product Family Standard For Lifts Escalators And Moving Walks : Part 2 Immunity	ISO TC- 178 (P)	Comment
36	ETD 25(16924)	Passenger lifts and service lifts Guide rails for lift cars and counterweights T-type	ISO TC- 178 (P)	Comment
37	ETD 11(17002)	Stationary cells and batteries, lead - Acid type (With Tubular Positive Plates) - Specification (Fourth Revision)-Amendment 1	IEC TC-21 (O), IEC TC- SC-21A (P)	Comment
38	ETD 36(12946)	Live Working - Electrical Insulating Blankets	IEC TC- 78 (O)	Comment
39	ETD 36(12947)	Rigid Protective Covers for Live Working on A.C. Installation	IEC TC- 78 (O)	Comment

40	ETD 11(17002)	Stationary cells and batteries, lead - Acid type (With Tubular Positive Plates) - Specification (Fourth Revision)-Amendment 1	IEC TC-21 (O), IEC TC- SC-21A (P)	Comment
41	ETD 10(17240)	Multipurpose dry batteries - Specification (Second Revision) Amendment - 1	IEC TC- 35 (P)	Comment
42	ETD 51(17241)	Electric Vehicle Conductive Charging Systems Part 23 dc Electric Vehicle Supply Equipment	IEC TC-69 (P)	Comment
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:

Electronics and Information Technology Department (LITD)				
Sl No	Document No	Title of the Doc	IEC/ISO	Give comments
1	LITD 4(16723)	Organic light emitting diode OLED displays Part 5-2: Mechanical endurance test methods	IEC TC- 110 (P); ISO TC-295 (P)	Comment
2	LITD 4(16727)	Organic light emitting diode OLED displays Part 5-3: Measuring methods of image sticking and lifetime	IEC TC- 110 (P); ISO TC-295 (P)	Comment
3	LITD 17(16733)	Information technology Lightweight cryptography Part 6: Message authentication codes MACs	ISO/IEC TC-JTC 1 SC-27 (P); ISO/IEC/JTC1 TC- WG SC-13 (P)	Comment
4	LITD 17(16734)	Information security Lightweight cryptography Part 7: Broadcast authentication protocols	ISO/IEC TC-JTC 1 SC-27 (P); ISO/IEC/JTC1 TC- WG SC-13 (P)	Comment
5	LITD 4(16736)	Organic light emitting diode OLED displays Part 6-1: Measuring methods of optical and electro-optical parameters	IEC TC- 110 (P); ISO TC-295 (P)	Comment
6	LITD 4(16740)	Organic light emitting diode OLED displays Part 6-3: Measuring methods of image quality	IEC TC- 110 (P); ISO TC-295 (P)	Comment
7	LITD 17(16742)	Information technology Security techniques Test and analysis methods for random bit generators within ISO/IEC 19790 and ISO/IEC 15408	ISO/IEC TC-JTC 1 SC-27 (P); ISO/IEC/JTC1 TC- WG SC-13 (P)	Comment
8	LITD 17(16743)	Information technology Security techniques Authentication context for biometrics	ISO/IEC TC-JTC 1 SC-27 (P); ISO/IEC/JTC1 TC- WG SC-13 (P)	Comment

9	LITD 10(16746)	Power systems management and associated information exchange Data and communications security Part 8: Role-based access control for power system management	IEC TC- 57 (P); IEC TC- SC-PC 118 (P); IEC TC-SyC Smart Energy (P);	Comment
10	LITD 10(16747)	Power systems management and associated information Exchange Data and communications security Part 9: Cyber security key management for power system equipment	IEC TC- 57 (P); IEC TC- SC-PC 118 (P); IEC TC-SyC Smart Energy (P);	Comment
11	LITD 10(16748)	Power systems management and associated information exchange - Data and communications security Part 10: Security architecture guidelines	IEC TC- 57 (P); IEC TC- SC-PC 118 (P); IEC TC-SyC Smart Energy (P);	Comment
12	LITD 10(16749)	Power systems management and associated information exchange Data and communications security Part 11: Security for XML documents	IEC TC- 57 (P); IEC TC- SC-PC 118 (P); IEC TC-SyC Smart Energy (P);	Comment
13	LITD 10(16751)	Power systems management and associated information exchange Data and communications security Part 12: Resilience and security recommendations for power systems with distributed energy resources DER cyber-physical systems	IEC TC- 57 (P); IEC TC- SC-PC 118 (P); IEC TC-SyC Smart Energy (P);	Comment
14	LITD 17(16752)	Information technology Security techniques Privacy engineering for system life cycle processes	ISO/IEC TC-JTC 1 SC-27 (P); ISO/IEC/JTC1 TC-WG SC-13 (P)	Comment
15	LITD 17(16753)	Information security cybersecurity and privacy protection Guidelines for information security management systems auditing	ISO/IEC TC-JTC 1 SC-27 (P); ISO/IEC/JTC1 TC-WG SC-13 (P)	Comment
16	LITD 10(16754)	Power systems management and associated information exchange - Data and communications security Part 13: Guidelines on security topics to be covered in standards and specifications	IEC TC- 57 (P); IEC TC- SC-PC 118 (P); IEC TC-SyC Smart Energy (P);	Comment
17	LITD 17(16755)	Information technology Online privacy notices and consent	ISO/IEC TC-JTC 1 SC-27 (P); ISO/IEC/JTC1 TC-WG SC-13 (P)	Comment

18	LITD 17(16756)	Information technology Electronic discovery Part 3: Code of practice for electronic discovery	ISO/IEC TC-JTC 1 SC-27 (P); ISO/IEC/JTC1 TC-WG SC-13 (P)	Comment
19	LITD 10(16757)	Power systems management and associated information exchange -Data and communications security Part 90-1: Guidelines for handling role-based access control in power systems	IEC TC- 57 (P); IEC TC- SC-PC 118 (P); IEC TC-SyC Smart Energy (P);	Comment
20	LITD 10(16758)	Power systems management and associated information exchange Data and communications security Part 90-2: Deep packet inspection of encrypted communications	IEC TC- 57 (P); IEC TC- SC-PC 118 (P); IEC TC-SyC Smart Energy (P);	Comment
21	LITD 10(16759)	Power systems management and associated information exchange Data and communications security Part 100-1: Conformance test cases for IEC TS 62351-5 and IEC TS 60870-5-7	IEC TC- 57 (P); IEC TC- SC-PC 118 (P); IEC TC-SyC Smart Energy (P);	Comment
22	LITD 10(16760)	Power systems management and associated information exchange Data and communications security Part 100-3: Conformance test cases for IEC 62351-3 the secure communication extension for profiles including TCPIP	IEC TC- 57 (P); IEC TC- SC-PC 118 (P); IEC TC-SyC Smart Energy (P);	Comment
23	LITD 10(16762)	Telecontrol equipment and systems Part 5-7: Transmission protocols Security extensions to IEC 60870-5-101 and IEC 60870-5-104 protocols applying IEC 62351	IEC TC- 57 (P); IEC TC- SC-PC 118 (P); IEC TC-SyC Smart Energy (P);	Comment
24	LITD 29(16815)	Blockchain and distributed ledger technologies Vocabulary	No details found	Comment
25	LITD 29(16816)	Blockchain and distributed ledger technologies Privacy and personally identifiable information protection considerations	No details found	Comment
26	LITD 29(16818)	Blockchain and distributed ledger technologies Overview of and interactions between smart contracts in blockchain and distributed ledger technology systems	No details found	Comment
27	LITD 17(16938)	INFORMATION TECHNOLOGY SECURITY TECHNIQUES SECURITY REQUIREMENTS FOR CRYPTOGRAPHIC MODULES	ISO/IEC TC-JTC 1 SC-27 (P); ISO/IEC/JTC1 TC-WG SC-13 (P)	Comment

28	LITD 5(16953)	Environmental testing Part 2 Tests Section 20 Test T: Test methods for solderability and resistance to soldering heat of devices with leads	IEC TC- 40 (P) IEC TC- 47A SC-47A (P) IEC TC- 91 (P) IEC TC- 47F SC-47F (O) IEC TC- 86B SC-86B (O)	Comment
29	LITD 5(16954)	Environmental testing Part 2 Tests Section 58 Test Td: Test methods for solderability resistance to dissolution of metallization and to soldering heat of surface mounting devicesSMD	IEC TC- 40 (P) IEC TC- 47A SC-47A (P) IEC TC- 91 (P) IEC TC- 47F SC-47F (O) IEC TC- 86B SC-86B (O)	Comment
30	LITD 5(16955)	Environmental testing Part 2 Tests Section 69 Test TeTc: Solderability testing of electronic components and printed boards by the wetting balance force measurement method	IEC TC- 40 (P) IEC TC- 47A SC-47A (P) IEC TC- 91 (P) IEC TC- 47F SC-47F (O) IEC TC- 86B SC-86B (O)	Comment
31	LITD 5(16956)	Environmental testing Part 2 Tests Section 82 Test Xw1: Whisker test methods for components and parts used in electronic assemblies	IEC TC- 40 (P) IEC TC- 47A SC-47A (P) IEC TC- 91 (P) IEC TC- 47F SC-47F (O) IEC TC- 86B SC-86B (O)	Comment
32	LITD 5(16957)	Environmental testing Part 2 Tests Section 83 Test Tf: Solderability testing of electronic components for surface mounting devices SMD by the wetting balance method using solder paste	IEC TC- 40 (P) IEC TC- 47A SC-47A (P) IEC TC- 91 (P) IEC TC- 47F SC-47F (O) IEC TC- 86B SC-86B (O)	Comment
33	LITD 5(16958)	Electronics assembly technology Part 4 Endurance test methods for solder joint of area array type package surface mount devices	IEC TC- 40 (P) IEC TC- 47A SC-47A (P) IEC TC- 91 (P) IEC TC- 47F SC-47F (O) IEC TC- 86B SC-86B (O)	Comment

34	LITD 10(16961)	POWER SYSTEMS MANAGEMENT AND ASSOCIATED INFORMATION EXCHANGE DATA AND COMMUNICATION SECURITY Part 6: Security for IEC 61850	IEC TC- 57 (P); IEC TC- SC-PC 118 (P); IEC TC-SyC Smart Energy (P);	Comment
35	LITD 20(16341)	Linguistic Resources - POS Tag Set for Indian Languages Guidelines for designing Tagsets and Specification	ISO/IEC/JTC1 TC- 2 SC- 2 (P)	Comment
36	LITD 17(16938)	INFORMATION TECHNOLOGY SECURITY TECHNIQUES SECURITY REQUIREMENTS FOR CRYPTOGRAPHIC MODULES	ISO/IEC TC-JTC 1 SC-27 (P); ISO/IEC/JTC1 TC-WG SC-13 (P)	Comment
37	LITD 10(16961)	POWER SYSTEMS MANAGEMENT AND ASSOCIATED INFORMATION EXCHANGE DATA AND COMMUNICATION SECURITY Part 6: Security for IEC 61850	IEC TC- 57 (P); IEC TC- SC-PC 118 (P); IEC TC-SyC Smart Energy (P);	Comment
38	LITD 26(17004)	Alarm systems Intrusion and hold-up systems Part 2 Intrusion detectors Section 6 Opening contacts magnetic	IEC TC- 79 SC- (P)	Comment
39	LITD 9(17072)	Specification for radio disturbance and immunity measuring apparatus and methods Part 1 Radio disturbance and immunity measuring apparatus Section 6 EMC antenna calibration	IEC TC- 79 SC- (P)	Comment
40	LITD 9(17074)	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 1528: Human models instrumentation and procedures Frequency range of	IEC TC- 77 (P), IEC TC-CISPR (O), IEC TC- 77A SC- 77A (P), ISO TC- 77B SC- 77B (P)	Comment
41	LITD 20(16341)	Linguistic Resources - POS Tag Set for Indian Languages Guidelines for designing Tagsets and Specification	ISO/IEC/JTC1 TC- 2 SC- 2 (P)	Comment
42	LITD 32(16714)	Information technology Object oriented BioAPI Part 2: Java implementation	ISO/IEC TC-JTC 1 SC-37 (P)	Comment
43	LITD 32(16715)	Information technology Object oriented BioAPI Part 3: C implementation	ISO/IEC TC-JTC 1 SC-37 (P)	Comment
44	LITD 32(16724)	Information technology Biometric presentation attack detection Part 4: Profile for testing of mobile devices	ISO/IEC TC-JTC 1 SC-37 (P)	Comment

45	LITD 32(16725)	INFORMATION TECHNOLOGY BIOMETRIC PERFORMANCE TESTING AND REPORTING PART 2: TESTING METHODOLOGIES FOR TECHNOLOGY AND SCENARIO EVALUATION	ISO/IEC TC-JTC 1 SC-37 (P)	Comment
46	LITD 32(16726)	INFORMATION TECHNOLOGY BIOMETRIC PERFORMANCE TESTING AND REPORTING PART 3: MODALITY-SPECIFIC TESTING	ISO/IEC TC-JTC 1 SC-37 (P)	Comment
47	LITD 32(16729)	Information Technology - Biometric performance testing and reporting - part 4: Interoperability performance testing	ISO/IEC TC-JTC 1 SC-37 (P)	Comment
48	LITD 32(16730)	Information Technology - Biometric performance testing and reporting - part 5: Access control scenario and grading scheme	ISO/IEC TC-JTC 1 SC-37 (P)	Comment
49	LITD 32(16731)	Information Technology - Biometric performance testing and reporting - part 6: Testing methodologies for operational evaluation	ISO/IEC TC-JTC 1 SC-37 (P)	Comment
50	LITD 32(16732)	Information Technology - Biometric performance testing and reporting - part 7: Testing of on-card biometric comparison algorithms	ISO/IEC TC-JTC 1 SC-37 (P)	Comment
51	LITD 26(17004)	Alarm systems Intrusion and hold-up systems Part 2 Intrusion detectors Section 6 Opening contacts magnetic	IEC TC- 79 SC- (P)	Comment
52	LITD 9(17072)	Specification for radio disturbance and immunity measuring apparatus and methods Part 1 Radio disturbance and immunity measuring apparatus Section 6 EMC antenna calibration	IEC TC- 77 (P), IEC TC-CISPR (O), IEC TC- 77A SC-77A (P), ISO TC- 77B SC-77B (P)	Comment
53	LITD 9(17073)	Television broadcast receivers and associated equipment Immunity characteristics Methods of objective picture assessment	IEC TC- 77 (P), IEC TC-CISPR (O), IEC TC- 77A SC-77A (P), ISO TC- 77B SC-77B (P)	Comment
54	LITD 9(17074)	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 1528: Human models instrumentation and procedures Frequency range of	IEC TC- 77 (P), IEC TC-CISPR (O), IEC TC- 77A SC-77A (P), ISO TC- 77B SC-77B (P)	Comment

55	LITD 14(17221)	Information technology Software asset management Part 2: Software identification tag	ISO/IEC TC-JTC 1 SC-7 (P); ISO/IEC TC-JTC 1 SC-40 (P)	Comment
56	LITD 14(17222)	Information technology IT asset management Part 3: Entitlement schema	ISO/IEC TC-JTC 1 SC-7 (P); ISO/IEC TC-JTC 1 SC-40 (P)	Comment
57	LITD 14(17223)	Systems and software engineering Lifecycle profiles for Very Small Entities VSEs Part 1: Overview	ISO/IEC TC-JTC 1 SC-7 (P); ISO/IEC TC-JTC 1 SC-40 (P)	Comment
58	LITD 14(17224)	Software Engineering Lifecycle profiles for Very Small Entities VSEs Part 2: Framework and taxonomy	ISO/IEC TC-JTC 1 SC-7 (P); ISO/IEC TC-JTC 1 SC-40 (P)	Comment
59	LITD 14(17225)	Software systems and enterprise Architecture processes	ISO/IEC TC-JTC 1 SC-7 (P); ISO/IEC TC-JTC 1 SC-40 (P)	Comment
60	LITD 14(17226)	Software systems and enterprise Architecture evaluation framework	ISO/IEC TC-JTC 1 SC-7 (P); ISO/IEC TC-JTC 1 SC-40 (P)	Comment

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	Give comments
1	TED 27(13664)	Electric Traction Motor - Performance and Functional Requirements	ISO TC-22 (P); ISO TC-22 SC-37 (O); IEC TC-69 (O)	Comment
2	TED 27(16615)	SPECIFIC REQUIREMENT FOR ELECTRIC POWER TRAIN OF L CATEGORY VEHICLES	ISO TC-22 (P); ISO TC-22 SC-37 (O); IEC TC-69 (O)	Comment
2	TED 27(16784)	SPECIFIC REQUIREMENT FOR ELECTRIC POWER TRAIN OF M N CATEGORY VEHICLES	ISO TC-22 (P); ISO TC-22 SC-37 (O); IEC TC-69 (O)	Comment

3	TED 11(17018)	ISO 26262-1 Road vehicles Functional safety Part 1: Vocabulary	ISO TC-22 (P); ISO TC-22 SC-31 (P); ISO TC-22 SC-32 (P); ISO TC-22 SC-35 (P)	Comment
4	TED 11(17019)	Road vehicles Functional safety Part 2: Management of functional safety	ISO TC-22 (P); ISO TC-22 SC-31 (P); ISO TC-22 SC-32 (P); ISO TC-22 SC-35 (P)	Comment
5	TED 11(17020)	Road vehicles Functional safety Part 3: Concept phase	ISO TC-22 (P); ISO TC-22 SC-31 (P); ISO TC-22 SC-32 (P); ISO TC-22 SC-35 (P)	Comment
6	TED 11(17021)	Road vehicles Functional safety Part 4: Product development at the system level	ISO TC-22 (P); ISO TC-22 SC-31 (P); ISO TC-22 SC-32 (P); ISO TC-22 SC-35 (P)	Comment
7	TED 11(17022)	Road vehicles Functional safety Part 5: Product development at the hardware level	ISO TC-22 (P); ISO TC-22 SC-31 (P); ISO TC-22 SC-32 (P); ISO TC-22 SC-35 (P)	Comment
8	TED 11(17023)	Road vehicles Functional safety Part 6: Product development at the software level	ISO TC-22 (P); ISO TC-22 SC-31 (P); ISO TC-22 SC-32 (P); ISO TC-22 SC-35 (P)	Comment
9	TED 11(17024)	Road vehicles Functional safety Part 7: Production, operation, service and decommissioning	ISO TC-22 (P); ISO TC-22 SC-31 (P); ISO TC-22 SC-32 (P); ISO TC-22 SC-35 (P)	Comment
10	TED 11(17025)	Road vehicles Functional safety Part 8: Supporting processes	ISO TC-22 (P); ISO TC-22 SC-31 (P); ISO TC-22 SC-32 (P); ISO TC-22 SC-35 (P)	Comment
11	TED 11(17026)	Road vehicles Functional safety Part 9: Automotive safety integrity level (ASIL)-oriented and safety-oriented analyses	ISO TC-22 (P); ISO TC-22 SC-31 (P); ISO TC-22 SC-32 (P); ISO TC-22 SC-35 (P)	Comment

12	TED 11(17027)	Road vehicles Functional safety Part 10: Guidelines on ISO 26262	ISO TC-22 (P); ISO TC-22 SC-31 (P); ISO TC-22 SC-32 (P); ISO TC-22 SC-35 (P)	Comment
13	TED 11(17028)	Road vehicles Functional safety Part 11: Guidelines on application of ISO 26262 to semiconductors	ISO TC-22 (P); ISO TC-22 SC-31 (P); ISO TC-22 SC-32 (P); ISO TC-22 SC-35 (P)	Comment
14	TED 11(17029)	Road vehicles Functional safety Part 12: Adaptation of ISO 26262 for motorcycles	ISO TC-22 (P); ISO TC-22 SC-31 (P); ISO TC-22 SC-32 (P); ISO TC-22 SC-35 (P)	Comment
15	TED 7(17234)	Automotive vehicles - Rims - General requirements: Part 1 nomenclature, designation, marking and measurement (First Revision) 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)	Comment
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
1	CED 59(16966)	Sustainable development of habitats - Indicators for smart cities	ISO TC- 268 (P) ISO TC- 1 SC- 1 (P)	comment
2	CED 59(16967)	Sustainable development of habitats - Indicators for resilient cities	ISO TC- 268 (P) ISO TC- 1 SC- 1 (P)	Comment

Service Sector Department-I (SSD-I)

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

Services (SSD-I)				
S. No.	Document No	Title of the Doc	IEC/ISO	Give comments
1	SSD-I 9(16039)	SIMULTANEOUS INTERPRETING PERMANENT BOOTHS REQUIREMENTS	ISO TC-312 (P); ISO TC-324 (P)	Comment
2	SSD-I 9(16049)	DIGITAL ANALYTICS AND WEB ANALYSES FOR PURPOSES OF MARKET OPINION AND SOCIAL RESEARCH VOCABULARY AND SERVICE REQUIREMENTS	ISO TC-312 (P); ISO TC-324 (P)	Comment
3	SSD-I 9(16059)	COLLABORATIVE BUSINESS RELATIONSHIP MANAGEMENT SYSTEMS- REQUIREMENTS AND FRAMEWORK	ISO TC-312 (P); ISO TC-324 (P)	Comment
4	SSD-I 2(17009)	Recreational diving services - Requirements and guidance on environmentally sustainable practices in recreational diving	ISO TC-228 (P)	Comment
5	SSD-I 2(17013)	Recreational diving services-Requirements for training on environmental awareness for recreational divers	ISO TC-228 (P)	Comment
6	SSD-I 2(17014)	Recreational diving services - Requirements for recreational diving providers	ISO TC-228 (P)	Comment
7	SSD-I 9(17145)	XLIFF XML Localisation interchange file format	ISO TC-312 (P); ISO TC-324 (P)	Comment
8	SSD-I 9(17147)	Translation projects - General guidance	ISO TC-312 (P); ISO TC-324 (P)	Comment

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
No records found			
https://araiindia.com/downloads			

ICT at TSDSI

"List of New Item for Proposal at TSDSI"				
S. No.	New Item Proposal	Name	Version	Status
1	NIP 258	Characterization of E-band for 4G/5G Backhaul & Rural Broadband	TSDSI-SGN-NIP258-V1.2.0-20210128	Accepted
2	NIP 258	Characterization of E-band for 4G/5G Backhaul & Rural Broadband	TSDSI-SGN-NIP258-V1.1.0-20210127	Accepted

3	NIP 261	Technical Report for User Device Data Protection	TSDSI-SGSS-NIP261-V4.0.0-20210315	Accepted
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[For complete details of the NIP please click here](#)

“List of Study Item status update”

S. No.	Study Item	Name	Version	Status
1	SI83	UAV Assisted C-RAN for 5G and beyond	TSDSI-SGN-SI83-V1.0.0-20210208	Initiated
2	SI82	Bandwidth aggregation for 5G TV Broadcast from the co-located UEs: A physical layer prospective with FeMBMS and downlink broadcast control channel	TSDSI-SGN-SI82-V1.0.0-20210208	Initiated
1	SI87	Communications requirements and recommendations for the energy sector	TSDSI-SGSS-SI87-V1.0.0-20210215	Initiated
2	SI86	Study of technical aspects for deployment of a pan-India Broadband PPDR network based on PS-LTE and 5G technology	TSDSI-SGSS-SI86-V1.0.0-20210215	Initiated
3	SI85	Rural Broadband Architecture	TSDSI-SGSS-SI85-V1.0.0-20210215	Initiated
4	SI84	Smart IoT Communication : Context Specific Data Pruning in Smart IoT Applications	TSDSI-SGSS-SI84-V1.0.0-20210215	Initiated

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

“List of SWIP Status Update”

S. No.	SWIP	Name	Version	Status
1	SWIP694	Flexible resource utilization in IAB networks with in-band full duplex	TSDSI-SGN-SWIP694-V1.0.0-20210115	Accepted
2	SWIP695	6G use case of hologram authentication	TSDSI-SGN-SWIP695-V1.0.0-20210120	Accepted
3	SWIP696	Frugal Hologram	TSDSI-SGN-SWIP696-V1.0.0-20210120	Accepted
4	SWIP697	Open Disaggregated Virtual RAN	TSDSI-SGN-SWIP697-V1.0.0-20210127	Accepted
5	SWIP698	Email discussion summary on TSDSI NIP226	TSDSI-SGN-SWIP698-V1.0.0-20210127	Accepted
6	SWIP699	NB-IoT capabilities for Energy Metering	TSDSI-SGN-SWIP699-V1.0.0-20210127	Accepted

7	SWIP700	Limitations of existing relay architectures in 3GPP Standards	TSDSI-SGN-SWIP700-V1.0.0-20210127	Accepted
8	SWIP701	Draft LS for SI 73 and SI 74	TSDSI-SGN-SWIP701-V1.0.0-20210127	Accepted
9	SWIP702	TSDSI-SGN-SI73 -V1.0.0_StatusReport-Jan-2020	TSDSI-SGN-SWIP702-V1.0.0-20210127	Accepted
10	SWIP703	TSDSI-SGN-SI74 -V1.0.0_StatusReport-Jan-2021	TSDSI-SGN-SWIP703-V1.0.0-20210127	Accepted
11	SWIP701	TSDSI-SGN-SI74 -V1.0.0_StatusReport-Jan-2021	TSDSI-SGN-SWIP701-V1.1.0-20210127	Accepted
12	SWIP702	TSDSI-SGN-SI74 -V1.0.0_StatusReport-Jan-2021	TSDSI-SGN-SWIP702-V1.1.0-20210127	Accepted
13	SWIP703	TSDSI-SGN-SI74 -V1.0.0_StatusReport-Jan-2021	TSDSI-SGN-SWIP703-V1.1.0-20210127	Accepted
1	SWIP705	Need for Post-Quantum-Cryptography in 5G Networks	TSDSI-SGN-SWIP705-V1.1.0-20210315	Accepted
2	SWIP706	Common User Profile Format	TSDSI-SGN-SWIP706-V1.1.0-20210315	Accepted
3	SWIP707	Study of technical aspects for deployment of a pan-India Broadband PPDR network based on PS-LTE and 5G technology	TSDSI-SGN-SWIP707-V1.1.0-20210315	Accepted
4	SWIP708	Indian Language Support for Financial Transactions & Application	TSDSI-SGN-SWIP708-V1.1.0-20210315	Accepted
5	SWIP710	Rural Broadband Architecture	TSDSI-SGN-SWIP710-V1.1.0-20210315	Accepted
1	SWIP709	COMMUNICATIONS REQUIREMENTS AND RECOMMENDATIONS FOR THE ENERGY SECTOR	TSDSI-SGN-SWIP709-V1.1.0-20210315	Accepted
2	SWIP710	Rural Broadband Architecture	TSDSI-SGN-SWIP710-V1.1.0-20210315	Accepted
3	SWIP711	Status Report for SI 70	TSDSI-SGN-SWIP711-V1.0.0-20210330	Accepted

4	SWIP712	Status Report for SI 73	TSDSI-SGN-SWIP712- V1.0.0-20210330	Accepted
5	SWIP713	Status Report on SI 74	TSDSI-SGN-SWIP713- V1.0.0-20210315	Accepted
6	SWIP714	UAV Assisted C-RAN for 5G and Beyond	TSDSI-SGN-SWIP714- V1.0.0-20210331	Accepted
7	SWIP715	Bandwidth aggregation for 5G TV Broadcast from the co-located UEs: A physical layer prospective with FeMBMS and downlink broadcast control channel	TSDSI-SGN-SWIP715- V1.0.0-20210331	Accepted
8	SWIP716	Email discussion summary on TSDSI NIP226	TSDSI-SGN-SWIP715- V1.0.0-20210401	Accepted

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

[Back to contents](#)

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.

[Back to contents](#)

SESEI

European Business and Technology Centre
DLTA Complex, South Block, 1st Floor
1, Africa Avenue, New Delhi 110029
Mobile: +91 9810079461
Desk: +91 11 3352 1525 Board: +91 11 3352 1500
Fax: +91 11 3352 1501
E-mail: dinesh.chand.sharma@sesei.eu
www.sesei.eu

CEN - European Committee for Standardization www.cen.eu
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