



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

EC - European Commission
EFTA - European Free Trade Association

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Greeting from Project SESEI 3!

Dear All,

Wish you all a very Happy & Prosperous New Year. We are pleased to present our seventh edition of our "Project SESEI Newsletter Europe" for our European readers, bringing latest updates about the policies, new initiatives and related information on standardization from India.

As per the latest GDP growth estimates released by the World Bank, India is projected to grow at 7.3% in 2018. Impressive advance corporate tax payments in 3rd quarter indicates India's growth turnaround to be much better. It was also stated that India is going to register higher growth rate than other major emerging market economies in the next decade. So, the big picture for India indicates that it has enormous potential.

BIS Act 2016 has become effective from 12th October 2017. The Act establishes the Bureau of Indian Standards (BIS) as the National Standards Body of India and brings enabling provisions for the Government to bring under compulsory certification regime any goods or article of any scheduled industry, process, system or service which it considers necessary in the public interest or for the protection of human, animal or plant health, safety of the environment, or prevention of unfair trade practices, or national security. The new Act also allows multiple type of simplified conformity assessment schemes including self-declaration of conformity against a standard which will give simplified options to manufacturers to adhere to the standards and get certificate of conformity.

Under Smart City Mission initiative of the Government, the last set of cities to become eligible for central government funding will be announced by the Ministry of Housing and Urban Development by the end of January 2018.

To achieve Smart city mission objectives, the Ministry is also working effectively on the integrated Capacity Building mission and has already empaneled 30 Training Entities for rolling out individual capacity building for urban local bodies (ULB) functionaries with a 3-capsule framework under Atal Mission for Rejuvenation and Urban Transformation (AMRUT). Under the nations wide smart city initiative, there is also a safe city mandate. Artificial Intelligence (AI) is one of that ubiquitous technology which holds the potential of refurbishing the security surveillance landscape. The government of India is partnering with IBM Watson to bring Artificial Intelligence (AI) into the daily lives of its people.

In the Automotive sector, to attain its goals of going fully electrical by 2030, government has asked automotive companies to start manufacturing electric vehicles in India, and is also studying global markets to come up with a policy surrounding electric mobility and storage. Government wants electric vehicle manufacturers and renewable storage industry to set up their facility in India. Indian think tank, National Institution for Transforming India (NITI) Aayog has also supported the policy and suggested possible measures to push forward Government's flagship programme "Make in India" by strengthening car manufacturing eco-system in India and getting in place the required ecosystem for electric vehicles in the country.

In the ICT Sector, India has now become the second-largest smartphone market in world, overtaking United States with China trailing behind. Similarly, Internet of things (IoT) devices in India are expected to increase 10 times to 2 Billion in next 3-4 years, owing to passion for technology among the people with 200 Million IoT instruments currently working in the country. Owing to the surmounting surge in the Telecom sector in India and introduction of new technologies, the government is looking forward finalizing the National Telecom Policy 2018 (NTP 2018) by March 2018. The work on formulation of the NTP 2018 has been initiated and several working groups have been constituted on different themes for this purpose. Apart from this, to ensure growth of the digital economy while keeping personal data of citizens secure and protected the Ministry has also set up a Committee of Experts to study various issues relating to data protection in India, make specific suggestions on principles underlying a data protection bill and draft such a bill.

In the Electrical & Consumer Electrical Sector, Guidelines for series approval of products for implementation of "Electronics and Information Technology Goods (Requirements for Compulsory Registration) Order, 2012" – Phase III was recently released by the Ministry of Electronics and Information Technology (Meity). The guidelines highlights approvals for a series of products like recessed LED Luminaries, Smart Watches, CCTV Cameras/Recorders, Television Screen size up-to 32, etc. Government has launched Saubhagya scheme under which it intends to provide electricity connections to 40 Million households across the country at a cost of Rs 16,320 crore (2.18B Euro) by December 2018 with the collateral benefits of creating demand for industrial equipment and employment opportunities. Through universal electrification schemes like Saubhagya, Government also plans to push greater use of prepaid, smart meters. Ministry of Power has recently launched an online platform National Power Portal (NPP) for collation and dissemination of information on the country's power sector. It also plans to lay down stringent regulations for multi-level checks on equipment imported for the domestic power distribution sector to prevent the electricity grid from cyber-attacks.

It is also reassuring to know that the India and European Union (EU) has again initiated discussions on the long-stalled free trade pact and expressed willingness to address issues in a time-bound manner. The two sides are working towards ironing out differences related to movement of professionals, besides demanding significant duty cuts in automobiles, and a strong intellectual property regime by EU. We are hopeful that India and EU will overcome trade barriers and free trade agreement will be achieved to enhance trade between the two.

The Newsletter also contains many more interesting news and information around Manufacturing, R&D, Energy Efficiency, and the new policies announced by the Government for investing in India. We invite you to read our newsletter, actively engage and provide us with your feedback and comments to better our efforts.

Happy Reading once again.

Best regards,

Dinesh Chand Sharma

Seconded European Standardization Expert in India

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[The List of Draft Indian Standards issued by Electronics and Information Technology \(ICT/LITD\) and Electrotechnical \(ETD\) and Automotive \(TED\) division council at BIS for eliciting technical comment along with Automotive at ARAI and ICT activity at TSDSI are available as part of Annexure 1 to this newsletter.](#)

Headlines of the Quarter

Standards, TBTs & IPR

BIS Act 2016 brought into effect from 12th Oct' 2017

The Act establishes the Bureau of Indian Standards (BIS) as the National Standards Body of India. The Act has enabling provisions for the Gov. to bring under compulsory certification regime any goods or article of any scheduled industry, process, system or service which it considers necessary in the public interest or for the protection of human, animal or plant health, safety of the environment, or prevention of unfair trade practices, or national security. [Read More](#)

Lab Policy for Testing, Standardization & Certification for the Renewable Energy Sector

Aiming to address the quality issues in India's rapidly growing renewable energy sector, the union Ministry of New and Renewable Energy (MNRE) has come out with a new policy for "testing, standardization and certification" of products in the sector. The policy aims to adopt, update and develop standards in line with international practices.

[Read More](#)

IPR protection: Government wants to engage schools to drive awareness

To protect intellectual property rights, government is looking at engaging the education sector to help deepen awareness on the important aspect. "Government is taking IP education and awareness programme right to schools and universities," controller-general of patents, design & trademarks, department of industrial & policy promotion, OP Gupta said. Government has asked National Council of Educational Research & Training to include IP in the syllabus. [Read More](#)

USTDA Advances Standards and Conformance Cooperation with India

U.S. Trade and Development Agency launched the second phase of its U.S.-India Standards and Conformance Cooperation Program (SCCP). The Program will convene six workshops in India for U.S. and Indian industry and government representatives to discuss standards and conformity assessment practices in three core sectors of U.S.-India trade: clean energy, smart and sustainable cities, and water and sanitation. [Read More](#)

India opposes e-commerce talks at WTO; submits document

India has for the first time submitted a formal document opposing any negotiations on e-commerce at the World Trade Organization (WTO). The country has said that it would "continue the work under the Work Programme on electronic commerce based on the existing mandate and guidelines", referring to the programme on e-commerce adopted by the WTO countries in 1998. [Read More](#)

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Smart Cities

Smart City Mission: Centre to announce next 10 cities' names by January-end

The Centre will announce the next set of 10 cities for funding under the Smart City Mission by January-end next year. The Housing and Urban Affairs Ministry has till now announced the names of 90 cities under the scheme and each city will get Rs 500 crore as central assistance for implementing projects.

[Read More](#)

Google Set to Offer Free Wi-Fi In Smart Cities

As part of the company's Next Billion User initiative, Google is all set to extend its free Wi-Fi services beyond railway stations to include entire cities. Google has already connected 227 railway stations in India through Google Stations to provide high speed connectivity. We are now taking this beyond the railway stations to entire smart cities. Pune will be the first smart city to receive free connectivity across the city from Google Stations initiative.

[Read More](#)

India to get expertise on smart cities from France

In a bid to bring the delayed Smart City projects on fast track, India will get expertise and know-how in planning and development of Smart cities from France. French President is scheduled to visit in December this year. Officials said that France will help in sectors ranging from multi-modal transport and logistics to infrastructure development and urban planning and design.

[Read More](#)

Artificial Intelligence in smart city plans

IBM Watson has been partnering with Indian Government to bring Artificial Intelligence (AI) into the daily lives of its people. Artificial intelligence can help governments handle their regulations monitoring by creating a natural language processing system to read through the legalities of regulations and reassemble the words into a set of computer-understandable rules.

[Read More](#)

Unified Secure & Resilient ICT Framework for Smart Infrastructure

Panel on Smart Infrastructure LITDC/P2 under Electronics and Information Technology Division Council (LITDC), BIS has prepared a Pre-standardization study report on "Unified, Secure & Resilient ICT Backbone for Smart Cities/Smart Infrastructure" [Read more/Download](#)

Ministry of Housing & Urban Affairs has released following Office Memorandums (OMs) during last quarter

- Submission of Smart Cities Proposals for participation in the next round of challenge - Extension of last date of submission. [Read more](#)
- Minutes of the Meeting in r/o Strategy for integration of Capacity Building activities of all Missions of Ministry of Housing and Urban Affairs. [Read more](#)
- Integrated Capacity Building covering all Missions of Ministry of Housing and Urban Affairs. [Read more](#)
- Introduction of integrated Capacity Building for covering all Missions of Ministry of Housing and Urban Affairs. [Read more](#)

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Automotive

NITI Aayog favors 'National Council for Electric Mobility' for e-vehicle push

The union ministry for road transport and highways has received a draft note from National Institution for Transforming India (NITI) Aayog suggesting possible measures, including a “push to Make in India and setting up institutional framework” to get in place the required ecosystem for electric vehicles in the country. NITI Aayog is trying to push forward Centre’s flagship programme, Make in India, through the policy by strengthening the car manufacturing system in India.

[Read More](#)

No BS-IV vehicle registrations beyond June 2020: Draft rules

The government has come out with a draft notification to amend Central Motor Vehicles Rules to prevent registration of BS-IV compliant automobiles built before April 1, 2020 beyond June 30, 2020. In a major step to curb vehicular pollution, the government last year decided that the country will leapfrog directly from Euro IV emission norms for petrol and diesel to Euro VI standards from April 1, 2020.

[Read More](#)

Govt to provide grants to cities buying EVs for mass transport

The Centre has invited proposals from cities with population above 1M for extending grants under the FAME India scheme to promote large-scale adoption of electric vehicles in multi-modal public transport. Using clean energy modes like electric vehicles for shared mass transport will help bring down high pollution level in big cities.

[Read More](#)

German startup plans sub-Rs 10 lakh e-cars and trucks

India's electric vehicle push is attracting global players, too. While automobile majors including Toyota, Suzuki and Mahindra are eyeing the space, a German start-up proposes to offer battery - operated sports cars, family cars and small trucks in the sub-Rs 10 lakh range.

[Read More](#)

Government readies institutional framework to push electric mobility

The government plans to set up a committee for an institutional framework on large-scale adoption of electric vehicles in India as a viable clean energy mode particularly for shared mass transport to help bring down alarming levels of pollution in big cities. Government think-tank Niti Aayog has sought comments from ministries. [Read more](#)

All four-wheel Motor Vehicles sold after 1st December 2017 to be fitted with FASTags

The Ministry of Road Transport & Highways has issued a Gazette Notification according to which all four-wheel motor vehicles sold on or after 1st December 2017 will have FASTags fitted on them by the manufacturer of the vehicle or its authorized dealer, as the case may be. [Read more](#)

Ministry Notifications

- G.S.R.1361 (E): Central Motor Vehicles (11th Amendment) Rules, 2017; Government of India. [Read More](#)

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ICT including Services

Govt may allow 100% foreign direct investment (FDI) in telecom via automatic route

The government is finalizing a plan to allow 100 per cent FDI for telecom services through the automatic route which allows firms to attract foreign funds without its approval. At present 100 per cent FDI is allowed, of which up to 49 percent investment only can be done through the automatic route.

[Read more](#)

Government releases white paper on data protection framework

To secure digital transactions and address data privacy issues, the government has released a white paper on the data protection framework. As per the paper, a nuanced approach towards data protection will have to be followed in India, bearing in mind the fact that individual privacy is a fundamental right limited by reasonable restrictions. [Read More](#)

Government to build local microprocessors for smartphones, strategic sectors for better security

In the backdrop of security concerns over electronic devices manufactured abroad, including in China, the ministry of electronics and information technology (Meity) is planning to promote local development of microprocessors. These will be used initially in strategic sectors including space, defence and atomic energy.

[Read more](#)

IoT Experts & Stakeholders drive Interoperable Standards: OneM2M India Industry Day

The industry-wide collaboration will be the driving force behind a global adoption of the Internet of Things (IoT), according to leading IoT organizations and stakeholders who gathered in Bengaluru, India at the third oneM2M Industry Day, which was hosted by Telecommunications Standards Development Society India (TSDSI). [Read more](#)

TRAI plans 40 % carbon emission reduction in telecom network by 2022- 23 with base year being 2011-12

To make the telecom sector greener, the Telecom Regulatory Authority of India (TRAI) has recommended 40 percent reduction in carbon emission in telecom networks by 2022-23 considering 2011-12 as the base year. It has set a target of 5 percent reduction by 2012-13, 8 percent by 2014-15, 12 percent by 2016-17 and 17 percent by 2018-19. [Read More](#)

India now second-largest Smartphone market in world

India's smartphone market recovered quickly, with shipments growing 23% year on year to reach just over 40 million units. India has now overtaken the United States to become the world's second largest smartphone market after China. According to Canalys, one of the main reasons for this boost were the low barriers to entry India affords mobile phone manufacturers.

[Read More](#)

India to have 200 crore IoT devices in 4 years

Internet of things (IoT) devices in India are expected to increase 10 times to 2B in the next 3-4 years, owing to passion for technology among the people. Any product or equipment whose function can be controlled using internet falls under the category of IoT. [Read More](#)

Indian ICT revenue to touch US\$ 225 billion by 2020

The revenue of the Indian ICT (Information and Communication Technology) sector is expected to reach an approximate value of about INR 14,42,839.5 crores (US\$ 225 Billion) by the end of 2020 from current level of INR 10,53,434 crores (US\$ 164.3 Billion) growing at CAGR of about 11.1%, reveals the ASSOCHAM-RNCOS study. [Read more](#)

Series Guidelines for products notified under CRO Phase-III

Guidelines for Series Approval of Products for Implementation of “Electronics and Information Technology Goods (Requirements for Compulsory Registration) Order, 2012” – Phase III [Read more](#)

DoT to finalize the new telecom policy by March 2018

The Department of Telecommunications envisages to formulate a new National Telecom Policy in view of rapid technological advancement in the sector. The work on formulation of the National Telecom Policy 2018 has been initiated and is targeted to be finalized by March 2018. [Read more](#)

Telecom Regulatory Authority of India has issued following Consultation Papers

- [Consultation Paper on Promoting Local Telecom Equipment Manufacturing](#)
- [Consultation Paper on Empanelment of Auditors for Digital Addressable Systems](#)
- [Consultation Paper on Making ICT Accessible for Persons with Disabilities](#)
- [Consultation Paper on Issues relating to Uplinking and Downlinking of Television Channels in India](#)
- [Consultation Paper on ‘Next Generation Public Protection and Disaster Relief \(PPDR\) communication networks’](#)

Electrical Equipment including Consumer Electronics

Govt may amend Electricity Act to allow e-vehicle charging stations to sell power

The Centre is set to make changes to the amendment to the Electricity Act, 2003 to allow electric vehicle charging stations to sell power. “The NITI Aayog is preparing the roadmap for this and will propose changes to the amendment to the Electricity Act”. [Read more](#)

Cybersecurity tests for Imported Power Equipment

The Indian government plans to lay down stringent regulations and will also lay down product-wise technical specifications for multi-level checks on equipment imported for the domestic power distribution sector to prevent the electricity grid from cyberattacks. In addition to this, the government plans to develop a testing facility for cybersecurity. [Read more](#)

Govt launches 'Saubhagya' scheme to light up All Homes by December 2018

Government of India launched a new scheme Pradhan Mantri Sahaj Bijli Har Ghar Yojana — “Saubhagya” which aims at providing electricity connections to four crore households across the country at a cost of Rs 16,320 crore by December 2018 with the collateral benefits of creating demand for industrial equipment and employment opportunities. [Read more](#)

Power ministry launches online portal for power sector information

The power ministry launched an online platform National Power Portal (NPP) for collation and dissemination of information on the country’s power sector. “NPP is a centralized system for the Indian power sector which facilitates online data capture and input (daily, monthly, annually) from generation, transmission and distribution utilities in the country. [Read more](#)

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[Guidelines issued for procurement of wind power through tariff based competitive bidding process](#)

Government has issued Guidelines to provide a framework for procurement of wind power through a transparent process of bidding including standardization of the process and defining of roles and responsibilities of various stakeholders. [Read more](#)

[Solar Photovoltaic Systems/Devices/Components Goods Order 2017](#)

Ministry of New and Renewable Energy (MNRE) has released Solar Photovoltaic Systems/Devices/Components Goods Order 2017 under the scheme of Compulsory Registration under BIS Act, effective from 1st January 2018 [Read more](#)

[Indian appliance & consumer electronics market to grow at 10% CAGR by 2022](#)

The Indian ACE (Appliance and Consumer Electronics) market is expected to grow by 10 per cent CAGR approximately by 2022, according to PwC's report. A comprehensive study on the growth possibilities of this segment, the report states that India has the potential to be one of fastest growing ACE markets in the world, not only in terms of consumption, but also manufacturing and job creation. [Read more](#)

[Government to push prepaid, smart meters in universal electrification drive](#)

Prepaid and smart meters are going to get greater thrust from the government as India moves towards the target of achieving universal household electrification as part of the Saubhagya scheme by end of this year. [Read more](#)

[Niti Aayog to finalize National Energy Policy soon](#)

Government think-tank Niti Aayog will soon finalize the National Energy Policy (NEP) and take it to the Union Cabinet, a top official said. The Aayog had released the draft National Energy Policy in June this year. "We will finalize the National Energy Policy in the next 10 days and will send it to the cabinet," the official said [Read more](#)

[Govt to auction 3 GW of wind power projects by the end of this fiscal](#)

The Ministry of New and Renewable Energy (MNRE) is looking to auction close to 3 GW of wind power projects by the end of this fiscal. The ministry is also in the final stages of drafting separate bidding guidelines for auctioning wind power projects. [Read More](#)

[R&D and Innovation](#)

[India ranked 60th most innovative country on the Global Innovation Index-2017](#)

Emerging as the top-ranked economy in Central and South Asia, India climbed up six places to the 60th spot among 130 nations on the Global Innovation Index (GII) 2017. While Switzerland, Sweden, Netherlands, US, and the UK retained top spots as most innovative, India's improvement comes after five continuous years of a slide. [Read more](#)

[Govt. to create Rs 500-cr \(66.6M Euro\) fund for R&D in 5G](#)

As India pursues to grow to be a frontrunner in 5G, the government is operating on to create a Rs 500-crore (66.6M Euro) fund for improvement of the technology and it has also created an excessive-level committee to paintings on a roadmap for the roll-out of 5G by 2020. [Read More](#)

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Manufacturing / Make in India

Govt. may meld Make in India with Invest India

The Centre is mulling a new approach that institutionalizes the combined strengths of its 'Make In India' (MII) and 'Invest India' initiatives with an aim to streamline them for attracting more investments, including from overseas, in the manufacturing sector.

[Read more](#)

Government invites Belgian investors to come and Make in India

India invited Belgian Industry to explore the Investment opportunities in the country during Belgian King Philippe's maiden state visit to India, organized by CII (Confederation of Indian Industry) and Belgium's Wallonia Trade and Investment Agency.

[Read More](#)

Government plans Rs 3000 crore (400M Euro) spend to push capital goods manufacture

The Central government plans to spend Rs 3,000 crore (400M Euro) to implement various programs under the National Capital Goods Policy. The government is also coming up with changes and support measures in key sectors including Capital Goods to fasten up employment creation.

[Read more](#)

To boost Make in India, SEZs prepare for revamp

India is eyeing a revamp of its framework for special economic zones (SEZs) to boost manufacturing, including the exemption of factories located in them from minimum alternate tax (MAT), seen as a key factor that has stunted the zones.

[Read more](#)

Energy Efficiency – Environment

MNRE Issues Draft Technology Development and Innovation Policy for New and Renewable Energy

The Ministry of New and Renewable Energy (MNRE) has issued a draft Technology Development and Innovation Policy (TDIP) for New & Renewable Energy to further research, development and demonstration (RD&D) efforts with an eye to promote indigenous technology development and manufacturing, quality improvement

[Read More](#)

Govt planning 'rent a roof' policy in solar power push

The Union government is working on a "rent a roof" policy to support its ambitious plan to generate 40 gigawatts (GW) of power from solar rooftop projects by 2022. The government is also planning to bid out wind power contracts totaling 24.5 GW over the next two years.

[Read more](#)

'India's renewables to double by 2022, overtake EU expansion

The government has an ambitious target of raising its installed capacity from 58.3 GW to 175 GW by 2022 including 100 GW of solar and 60 GW of wind energy. This growth is enough to overtake renewable expansion in the European Union for the first time," IEA said

[Read more](#)

India's global rank up for reducing greenhouse gas emissions

India is ranked 14th in this year's Climate Change Performance Index (CCPI) 2018 out of 56 nations an improvement from its 20th position last year, for reducing greenhouse gas (GHG) emissions by opting to transform its electricity sector towards green technology.

[Read more](#)

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EU-INDIA/Trade-FTA/Investments

India, EU hold discussions on proposed free trade agreement

India and European Union (EU) held discussions on the long-stalled free trade pact and expressed willingness to address issues in a time-bound manner, the department of commerce said. The chief negotiators of India and EU held discussions here on the proposed free trade agreement, officially dubbed as Bilateral Trade and Investment Agreement (BTIA). [Read more](#)

Strengthening EU-India ties on Resource Efficiency

India's large population, rapid urbanization and expanding industrial production have led to exploitation of available limited natural resources with concerns regarding resource depletion and future availability becoming more pronounced. Ensuring resource security requires an integrated, concerted and collaborative approach to fulfil the needs of a vast and growing population. [Read more](#)

European Investment Bank partners with International Solar Alliance and confirms EUR 800 million support for Indian renewable energy

The European Investment Bank (EIB) agreed a new partnership with the International Solar Alliance to mobilize finance to develop and deploy affordable solar energy in solar rich countries. The EIB also confirmed plans to provide a record EUR 800m for renewable energy investment across India. [Read more](#)

India, and EU strengthen partnership to implement the Paris Agreement and boost clean energy cooperation

India and the EU are major players in the clean energy transition and the global efforts to mitigate and adapt to the effects of climate change. Both have been instrumental in the swift ratification of the Paris Agreement. [Read more](#)

Invest India

Huge ranking jump to boost biz in India

In the World Bank's Doing Business report, India has shot up 30 places to 100th rank, bringing this target within reach. The World Bank report is the first touchpoint for investors who plan to do business in another country. Its rankings are closely examined and can determine the investment attractiveness of a country. [Read more](#)

Minister of Commerce and Industry released the much-awaited Mid-term Review of the Foreign Trade Policy (FTP) 2015-20

Union Commerce and Industry Minister unveiled Mid-Term Review of Foreign Trade Policy 2015-20 by announcing a slew of incentives to boost country's exports. Mid-term review of Foreign Trade Policy will focus on finding new markets and new products as well as increasing India's share in the traditional markets and products [Read more](#)

Events:**5th edition of India m2m + iot Forum on 30-31 Jan 2018, India Habitat Centre New Delhi India**

The 5th edition of the forum, will host the most prestigious '4th India Smart Cities Forum' and '4th India Smart Villages Forum' and invites; Students, Researchers, Academicians for the 'Poster Presentation Competition'. Startups and budding Entrepreneurs for 'Idea Pitch Competition'. For more information please [click here](#)

Elets Smart City Gurugram: on 1st Feb 2018, Gurugram, India

Elets Technomedia, Asia & Middle East's premier media & technology research organization is proud to announce its landmark Smart City Summit in the hi-tech city of Gurugram on 1st February 2018. For more information please [click here](#)

India Smart Grid Week 2018: on 5-9 March, New Delhi, India

INDIA SMART GRID WEEK (ISGW 2018) is the fourth edition of the Conference cum Exhibition on Smart Grids and Smart Cities, organized by India Smart Grid Forum scheduled from 05 – 09 March 2018, New Delhi, India. ISGW 2018 will bring together India's leading Electricity Utilities, Policy Makers, Regulators, Investors and world's top-notch Smart Grid Experts and Researchers to discuss trends, share best practices and showcase next generation technologies and products in smart grid and smart cities domain. For more information please [click here](#)

2nd Internet of Things India expo 2018: on 07-09 MARCH 2018 Pragati Maidan, New Delhi, India

IoT India Expo is a premier technology platform that will encompass IoT innovations in the field of smart cities, wearables, design applications, enablers, industrial IoT, data analytics and many other disruptive technologies for enterprises. For more information please [click here](#)

CII Internet of Things Summit: on 16th March 2018 at Hotel Le Meridian, New Delhi

The objective of the Summit is to highlight the potential of IoT to revolutionize the way we lead our lives and the way businesses are run today. It will also focus on the key benefits that organizations are undertaking towards this digital journey. For more information please [click here](#)

World IoT Summit 2018: on 12th April, Bangalore, India

"Internet of Things: Link your World" - Exploring the latest happening in IoT Industry and how the Internet of Things will offer businesses and consumers. The conference explores how the Internet of Things will re-shape our interactions with the real and virtual worlds in the coming years. For more information please [click here](#)

Indian Telecom 2018 on 27th – 28th April, 2018, New Delhi

India Telecom conference 2018 (10th edition of event) is India's leading international ICT platform for the global community to connect, debate, network and share knowledge. India Telecom is jointly organized by the Department of Telecommunications, Ministry of Communications, Government of India, and Federation of Indian Chambers of Commerce & Industry (FICCI), with support from several prominent industry associations since 2006. For more information please [click here](#)

Convergence India 2018 – International Exhibition & Conference on 7th to 9th March 2018, Pragati Maidan, New Delhi, India

Exhibitions India Group (EIG) is a 3-day event being held from 7th March to 9th March 2018 at Pragati Maidan in New Delhi, India. Convergence India expo is known for stimulating growth and innovation in the Indian ICT industry. For more information please [click here](#)

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Annexure 1

ICT/LITD

The following Draft Indian Standards were issued for by Electronics and Information Technology division council at BIS during the last quarter for eliciting technical comment

- [LITD 11 \(12240\) : SEMICONDUCTOR OPTOELECTRONIC DEVICES FOR FIBRE OPTIC SYSTEM APPLICATIONS –PART 1 SPECIFICATION TEMPLATE FOR ESSENTIAL RATINGS AND CHARACTERISTICS \(SECOND REVISION\) ICS :33.080.01; 33.260; 33.180.01](#)
- [LITD 11 \(12245\) : FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS –FIBRE OPTIC SPATIAL SWITCHES –PART 1: GENERIC SPECIFICATION \(FIRST REVISION\) ICS 33.180.20](#)
- [LITD 11 \(12246\) : FIBRE OPTIC SENSORS – PART 1: GENERIC SPECIFICATION \(FIRST REVISION\) ICS 33.180.99](#)
- [LITD 11 \(12248\) : OPTICAL FIBRE CABLES PART 1 GENERIC SPECIFICATION SECTION 1 GENERAL \(FIRST REVISION\) ICS 33.180.10](#)
- [LITD 11 \(12247\) : FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – CONNECTORS FOR OPTICAL FIBRES AND CABLES –PART 1: GENERIC SPECIFICATION \(SUPERSEEDING ISQC 210000: 1994\) ICS 33.180.20](#)
- [LITD 11 \(12241\) :FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – FIBRE OPTIC PASSIVE POWER CONTROL DEVICES – PART 1: GENERIC SPECIFICATION \(FIRST REVISION\) ICS 33.180.20](#)
- [LITD 11 \(12242\) : OPTICAL FIBRES –PART 1 MEASUREMENT METHODS AND TEST PROCEDURES – SECTION 1 GENERAL AND GUIDANCE \(FIRST REVISION \) ICS 33.180.10](#)
- [LITD 11 \(12243\) : OPTICAL FIBRES PART 1 MEASUREMENT METHODS AND TEST PROCEDURES SECTION 20 FIBRE GEOMETRY \(FIRST REVISION \) ICS 33.180.10](#)
- [LITD 11 \(12244\) : OPTICAL FIBRES PART 1 MEASUREMENT METHODS AND TEST PROCEDURES SECTION 54 GAMMA IRRADIATION \(FIRST REVISION\) ICS 33.180.10](#)
- [LITD 16 \(12234\) : Identification Cards – Test Methods Part 1:General Characteristics](#)
- [LITD 16 \(12235\) : Identification Cards – Test Methods Part 2:Cards with Magnetic Stripes](#)
- [LITD 16 \(12236\) :Identification Cards – Test Methods Part 3: Integrated circuit cards with contacts and related interface devices](#)
- [LITD 16 \(12237\) :Identification Cards – Test Methods Part 8: USB-ICC](#)
- [LITD 16 \(12238\) :Identification Cards – Test Methods Part 9: Optical Memory Cards Holographic Recording Method](#)
- [LITD 11 \(12270 \) :OPTICAL FIBRES PART 1 MEASUREMENT METHODS AND TEST PROCEDURES SECTION 54 GAMMA IRRADIATION \(FIRST REVISION\) ICS 33.180.10](#)
- [LITD 17 \(12158\) : INFORMATION TECHNOLOGY- SECURITY TECHNIQUES – INFORMATION SECURITY MANAGEMENT SYSTEMS – GUIDANCE \(First Revision\)](#)
- [LITD 17 \(12160\) : INFORMATION TECHNOLOGY- SECURITY TECHNIQUES – MODES OF OPERATION FOR AN n-BIT BLOCK CIPHER \(Second Revision\)](#)
- [LITD 17 \(12159\) : INFORMATION TECHNOLOGY- COMMON BIOMETRIC EXCHANGE FORMATS FRAMEWORK – Part 1 DATA ELEMENT SPECIFICATION \(First Revision\)](#)
- [LITD 05 \(12219\) : Marking Codes For Resistors and Capacitors \(First Revision\) ICS 31.020](#)
- [LITD 05 \(12220\) :Measurement of the dimensions of a cylindrical component with axial terminations \(First Revision\) ICS 31.020](#)

- [LITD 05 \(12221\) : Semiconductor Devices – Part 2: Discrete devices – Rectifier diodes \(First Revision\) ICS 31.080.10](#)
- [LITD 05 \(12223\) : Semiconductor Devices –Discrete Devices – Part 7: Bipolar transistors \(First Revision\) ICS 31.080.30](#)
- [LITD 05 \(12224\) : SEMICONDUCTOR DEVICES –DISCRETE DEVICES – Part 8: Field-Effect Transistors’ \(Second Revision\) ICS 31.080.30](#)
- [LITD 17 \(12225\) : AMENDMENT No. 1 TO INFORMATION TECHNOLOGY- BIOMETRIC APPLICATION PROGRAMMING INTERFACE PART 2 BIOMETRIC ARCHIVE FUNCTION PROVIDER INTERFACE](#)
- [LITD 17 \(12227\) : AMENDMENT No. 1 TO INFORMATION TECHNOLOGY- BIOMETRIC APPLICATION PROGRAMMING INTERFACE PART 4 BIOMETRIC SENSOR FUNCTION PROVIDER INTERFACE](#)
- [LITD 12 \(12130\) : Methods of measurement for radio transmitters Part 9: Cabinet radiation at frequencies between 130 kHz and 1 GHz](#)
- [LITD 12 \(12131\) :Methods of measurement for radio transmitters Part 10: Cabinet radiation at frequencies above 1 GHz](#)
- [LITD 12 \(12129\) :Methods of measurement for radio transmitters Part 8: Performance characteristics of television transmitters](#)
- [LITD 12 \(12128\) : Methods of measurement for radio transmitters Part 7: Amplitude/frequency characteristics and non-linearity distortion in transmitters for radiotelephony and sound broadcasting](#)
- [LITD 12 \(12127\) :Methods of measurement for radio transmitters Part 6 : Wanted and unwanted modulation](#)
- [LITD 12 \(12126\) : Methods of measurement for radio transmitters Part 5: Bandwidth, out-of-band power and power of non-essential oscillations](#)
- [LITD 12 \(12133\) :Methods of measurement for radio transmitters Part 12: Performance characteristics for television transposers](#)
- [LITD 12 \(12134\) : Methods of measurement for radio transmitters Part 13: Methods of measurement for television transmitters and transposers employing insertion test signals](#)
- [LITD 12 \(12132\) : Methods of measurement for radio transmitters Part 11: Performance characteristics of vestigial-sideband demodulators used for testing television transmitters and transposers](#)
- [LITD 12 \(12139\) : Methods of measurement for radio transmitters Part 1: Genral Characteristics For Broadcast Transmitters \(First Revision\)](#)
- [LITD 12 \(12137\) : Methods of measurement for radio transmitters Part 18: Amplitudemodulated transmitters for sound broadcasting](#)
- [LITD 12 \(12136\) : Methods of measurement for radio transmitters Part 17: External intermodulation products caused by two or more transmitters using the same or adjacent antennas](#)
- [LITD 12 \(12135\) :Methods of measurement for radio transmitters Part 14: Transposers for FM sound broadcasting](#)

Electrical Equipment including Consumer Electronics (ETD)

The following Draft Indian Standards were issued for eliciting technical comments for Electro Technical Sector at BIS:

- [ETD 28\(12293\) :Photovoltaic concentrators \(CPV\) – Performance testing – Part 2: Energy measurement](#)
- [ETD 28\(12295\) : Photovoltaic concentrators \(CPV\) – Performance testing – Part 3 : Performance measurements and power rating](#)

- [ETD 20 \(12257\) : Code of practice for selection installation and maintenance of switchgear and controlgear: Part 1 General \(First Revision\)](#)
- [ETD 20 \(12267\) :Low-voltage electrical installations: Part 7-712 Requirements for special installations or locations - Solar photovoltaic \(PV\) power supply systems](#)
- [ETD 40 \(12259\) : IS 2165 \(Part 5\)- INSULATION CO-ORDINATION – Part 5: Procedures for high-voltage direct current \(HVDC\) converter stations \(First Revision\)](#)
- [ETD 40\(12258\) : IS 14911\(Part 1\)- THYRISTOR VALVES FOR HIGH VOLTAGE DIRECT CURRENT \(HVDC\) POWER TRANSMISSION – Part 1: Electrical testing \(First Revision\)](#)
- [ETD 40\(12274\) : DRAFT AMENDMENT NO. 1 PERFORMANCE OF HIGH-VOLTAGE DIRECT CURRENT \(HVDC\) SYSTEMS WITH LINECOMMUTATED CONVERTERS PART 3 DYNAMIC CONDITIONS \(First Revision\)](#)
- [ETD 40\(12272 \) : DRAFT AMENDMENT NO 2 to IS 14801: 2000- TERMINOLOGY FOR HIGH-VOLTAGE DIRECT CURRENT\(HVDC \) TRANSMISSION](#)
- [ETD 40\(12273\) : DRAFT AMENDMENT NO. 1 to IS 14902 \(Part 2\) : 2013 PERFORMANCE OF HIGH-VOLTAGE DIRECT CURRENT \(HVDC\) SYSTEMS WITH LINE-COMMUTATED CONVERTERS PART 2 FAULTS AND SWITCHING \(First Revision \)](#)
- [ETD 40\(12275\) :DRAFT AMENDMENT NO 2 DETERMINATION OF POWER LOSSES IN HIGHVOLTAGE DIRECT CURRENT \(HVDC\) CONVERTER STATIONS](#)
- [ETD 14 \(11714\) :ELECTRONICS TYPE FAN REGULATOR](#)
- [ETD 10 \(12298\) :Watch Batteries – Specification](#)
- [ETD 10 \(12299\) Primary Batteries - Safety of batteries with aqueous electrolyte](#)
- [ETD 42 \(12175\) :WIND TURBINES – Part 23: Full-scale structural testing of rotor blades](#)
- [ETD 35 \(12157\) : Electromechanical Elementary Relays Part 2-1 : Reliability – Procedure for the Verification of b10 Values](#)
- [ETD 35 \(12156\) :Electromechanical elementary relays Part 2: Reliability](#)
- [ETD 16 \(12138 \) :Draft Amendment No. 3 November 2017 to IS 1180 \(Part 1\) : 2014 Outdoor/Indoor type oil immersed distribution transformers upto and including 2500 kVA, 33kV - Specification Part 1 Mineral Oil Immersed \(Fourth Revision\)](#)
- [ETD 34 \(12176\) : Current and voltage sensors or detectors to be used for fault passage indication purposes– Part 100: Requirements and proposals for the IS/IEC 61850 series data model extensions to support fault passage indicators applications](#)
- [ETD 20 \(12207\) :Effects of current on human beings and livestock - Part 4: Effects of lightning strokes on human beings and livestock](#)
- [ETD 23\(12233\) : Draft Amendment No. 3 To IS 16103 \(Part 2\) : 2012 LED MODULES FOR GENERAL LIGHTING PART 2 PERFORMANCE REQUIREMENTS](#)
- [ETD 23 \(11661\) : DOUBLE-CAPPED LED LINEAR LAMPS PART 2 PERFORMANCE REQUIREMENTS](#)
- [ETD 09 \(12119\) : Draft AMENDMENT NO. 2 TO IS 7098 \(Part 2\) : 2011 Specification For Crosslinked Polyethylene Insulated Thermoplastic Sheathed Cables Part 2 For Working Voltages from 3.3 Kv Upto and Including 33 Kv \(Second Revision\)](#)
- [ETD 28\(12081\) :Terrestrial photovoltaic \(PV\) modules – Design qualification and type approval – Part 1-4 : Special requirements for testing of thin-film Cu\(In,Ga\)\(S,Se\)₂ based photovoltaic \(PV\) modules \(Second Revision of IS 14286\)](#)
- [ETD 28\(12080\) : Terrestrial photovoltaic \(PV\) modules – Design qualification and type approval – Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic \(PV\) modules\(Second Revision of IS 14286\)](#)

- [ETD 28\(12079\) : Terrestrial photovoltaic \(PV\) modules – Design qualification and type approval – Part 1-2: Special requirements for testing of thin-film Cadmium Telluride \(CdTe\) based photovoltaic \(PV\) modules \(Second Revision of IS 14286\)](#)
- [ETD 28\(12077\) : Terrestrial photovoltaic \(PV\) modules – Design qualification and type approval – Part 1: Test requirements\(Second Revision of IS 14286\)](#)
- [ETD 28\(12082\) : Terrestrial photovoltaic \(PV\) modules – Design qualification and type approval – Part 2: Test Procedures \(Second Revision of IS 14286\)](#)
- [ETD 28\(12078\) : Terrestrial photovoltaic \(PV\) modules – Design qualification and type approval – Part 1-1: Special requirements for testing\(Second Revision of IS 14286\)](#)
- [ETD 28\(12083\) :Photovoltaic \(PV\) module safety qualification - Part 1: Requirements for construction \(IEC 61730-1:2016\)](#)
- [ETD 28\(12084\) : Photovoltaic \(PV\) module safety qualification - Part 2: Requirements for testing \(IEC 61730-2:2016\)](#)
- [ETD 28\(12102\) : Photovoltaic \(PV\) module performance testing and energy rating – Part 2: Spectral responsivity, incidence angle and module operating temperature measurements \(IEC 61853-2 : 2016\)](#)

Transport (TED)

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

- [TED 14 \(12315\) W : Gas turbines — Acceptance tests \(Adoption of ISO 2314 : 2009\)](#)
- [TED 7\(12218\) : DRAFT AMENDMENT NO. 5 NOVEMBER 2017 TO IS 15633 : 2005 AUTOMOTIVE VEHICLES — PNEUMATIC TYRES FOR PASSENGER CAR VEHICLES — DIAGONAL AND RADIAL PLY — SPECIFICATION](#)
- [TED 18 \(12121\)W : Small craft – Permanently installed petrol and diesel fuel tank \(Adoption of ISO 21487:2012\) \(ICS No. 47.080\)](#)
- [TED 17 \(11883\) W : SHIPS AND MARINE TECHNOLOGY – CERAMIC WELD BACKING FOR MARINE USE \(Adoption of ISO 17683:2014\)](#)
- [TED 2 \(12069\) W / ISO 8178-1:2017 : Reciprocating internal combustion engine – Exhaust emission measurement – Part 1: Test bed measurement of gaseous and particulate emissions](#)
- [TED 2 \(12070\) W / ISO 8178-8:2015 : Reciprocating internal combustion engine – Exhaust emission measurement – Part 8: Engine group determination](#)
- [TED 2 \(12071\) W / ISO 8178-7:2015 : Reciprocating internal combustion engine – Exhaust emission measurement – Part 7: Engine family determination \(First Revision of IS/ ISO 8178-7\)](#)
- [TED 2 \(12072\) W / ISO 8528-5:2013 : Reciprocating internal combustion engine driven alternating current generating sets – Part 5: Generating sets \(First Revision of IS/ ISO 8528-5\)](#)
- [TED 2 \(12073\) W / ISO 8528-8:2016 : Reciprocating internal combustion engine driven alternating current generating sets – Part 8: Requirements and tests for low-power generating sets \(First Revision of IS/ ISO 8528-8\)](#)
- [TED 2 \(12066\) W / ISO 4548-5:2013 : Method of test for full-flow lubricating oil filters for internal combustion engines – Part 5: Test for cold start simulation and hydraulic pulse durability \(Second Revision of IS 11509 \(Part 6\)\)](#)

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

- [Amd. No 5 to AIS-018: Automotive Vehicles - Speed Limitation Devices – Specifications \(Last date for comments: 20th December 2017\)](#)
- [Draft AIS-142/D2: Evaluation Of Tyres With Regard To Rolling Sound Emissions and/or to Adhesion on Wet Surfaces and/or to Rolling Resistance \(Last date for comments: 14th December 2017\)](#)
- [Draft Amd. No. 2 to AIS-012 \(Part 4\) \(Rev. 1\): 2011- Performance Requirements for Rear Registration Plate \(Mark\) Illuminating Lamps for Motor Vehicles \(Last date for comments: 20th December 2017\)](#)
- [Draft Amd. No. 1 to AIS-012 \(Part 7\)\(Rev.1\):2011- Performance Requirements for Reversing Lamps for Motor Vehicles\(Last date for comments: 20th December 2017\)](#)
- [Draft Amd. No. 1 to AIS-012 \(Part 8\) \(Rev.1\) 2011-Performance Requirements for Parking Lamps for Motor Vehicles\(Last date for comments: 20th December 2017\)](#)
- [Draft Amd. No. 1 to AIS-012 \(Part 10\)\(Rev.1\):2011- Performance Requirements for Daytime Running Lamps for Motor Vehicles\(Last date for comments: 20th December 2017\)](#)
- [Draft Amd. No 2 to AIS-125 \(Part 1\):Constructional and Functional Requirements for Road Ambulances \(Last date for comments: 20th December 2017\)](#)
- [Draft amd 2 to AIS- 110: Automotive Vehicles Temporary-Use Spare Wheel / Tyres and Run Flat Tyres\(Last Date for comments: 30th November 2017\)](#)
- [Draft AIS-091\(Part 3\)/D7: Interchangeability dimensions for ensuring safe coupling between N3 category Haulage Tractors and T3 & T4 category Semi-Trailers \(Last date for comments: 18th December 2017\)](#)
- [Draft AIS-056 \(Rev 1\): Requirements of Truck Cabin Ventilation System for Category N2 & N3 Vehicles](#)
- [Draft AIS-146/D0: Requirements applying to stands fitted in two wheeled motor vehicles \(Last date for comments: 25th November 2017\)](#)
- [Draft AIS-147/D0: External Projection requirements for Two Wheeled Motor Vehicles \(Last date for comments: 25th November 2017\)](#)
- [Draft AIS-148/D0: Automotive Vehicles - Requirements of Footrests for Two-wheeled Motor Vehicles \(Last date for comments: 25th November 2017\)](#)

ICT at TSDSI

Activities at TSDSI			
"List of New Item for Proposal at TSDSI"			
New Item Proposal	Name	Version	Status
NIP196	LS to transpose 3GPP specs on security by DOT	TSDSI-SG2-NIP196-V1.0.0-20180117	Accepted
NIP187	PCG Approval of contributions to the ITU	TSDSI-SG1-NIP 187-V1.0.0-20180112	Approved
NIP186	Discussions on the 60Ghz for 4G/5G backhaul on the 60Ghz for 4G/5G backhaul	TSDSI-SG1-1-[NIP 186]-V1.0.0-20180111	Approved as SI

NIP185	A unified Broadband PPDR Communication System for India	TSDSI-SG2-NIP185-V1.0.0-20180111	Accepted
NIP184	Development of Standards for Interoperability and Portability of Cloud Services	TSDSI-SG2-NIP184-V1.0.0-20180110	Accepted
NIP183	LS on Standards for Cloud Computing Interoperability	TSDSI-SG2-NIP183-V1.0.0-20180104	Accepted
NIP180	WI proposal for eMBMS support for NSA	TSDSI-SG-Networks-NIP180-V1.0.0-20171025	Accepted
NIP179	400Khz NB-IOT Specification	TSDSI-SG-Networks-NIP179-V1.0.0-20171025	Accepted
NIP178	Internet Architecture Board(IAB) statement on IPv6	TSDSI-SG2-NIP178-V1.0.0-20171025	Accepted
NIP177	LS related to the Draft New Report for IMT-2020 Evaluation	TSDSI-SG1-NIP177-V1.0.0-20171025	Accepted
NIP176	LS for further progress in development of terrestrial components for IMT-2020 radio interface(s)	TSDSI-SG1-NIP176-V1.0.0-20171025	Accepted
NIP175	LS on schedule for updating recommendation ITU-R M.2012 to Revision 4	TSDSI-SG1-NIP175-V1.0.0-20171025	Accepted
For complete details of the NIP please click here			
“Status update of Study Items at TSDSI”			
Study Item	Name	Version	Status
SI56	High Power UE	TSDSI-SG1-NIP165-[SI56]-V1.0.0-20180118	SG/WG approved
SI55	LS from ITU-R titled "Addendum 3 to Circular Letter 5/LCCE/59 on candidate RIT proposals for IMT-2020 and their subsequent evaluation"	TSDSI-SG1-SI55-V1.0.0-20171222	Initiated
For complete details of the Study Items please click here			
“List of Work Item status update”			
Work Item	Name	Version	Status
WI1-SI6	Control and Management of Large Scale WLAN networks	TSDSI-SG1-WI1-[SI6]-V1.0.0-20150814	Initiated
WI1-SI1	Fronthaul Transport of CPRI signal	TSDSI-SG3-WI1-[SI1]-V1.0.0-20150609	Initiated
WI1-SI17	Work Load Design for NFV performance evaluation	TSDSI-SG1-WI1-[SI17]-V1.0.0-20150814	Initiated
WI1-SI19	LTE and WiFi Co-existence	TSDSI-SG1-WI1-[SI19]-V1.0.0-20150814	Initiated

WI1-SI44	Indian language text-entry in 12-key devices	TSDSI-SG2-WI1-[SI44]-V1.0.0-20160810	Initiated
For complete details of the Work Items (WI) please click here and select Work Items			
"List of SWIP Status Update"			
SWIP	Name	Version	Status
SWIP552	Initiating the work on RIT/SRIT submission for IMT-2020	TSDSI-SI41-SWIP552-V1.0.0-20180110	Accepted
SWIP551	Further changes in the CPRI-T document.	TSDSI-WI1-SWIP551-[SI39]-V1.0.0-20180109	Accepted in principle
SWIP545	Final LS draft to ITU-R regarding IMT2020 submission	TSDSI-SI41-SWIP545-V1.0.0-20180108	Approved
SWIP538	Standalone NB-IOT TDD operations for India Deployments	TSDSI-WI1-SWIP538-[SI35]-V1.0.0-20171027	Accepted
SWIP532	Submission of RIT or SRIT to ITU for IMT2020 evaluation	TSDSI-SI41-SWIP532-V1.0.0-20171026	Accepted
For complete details of the SWIP please click here and select SWIP			

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 = 70 INR and for more information please [click here](#)

About Project SESEI 3

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

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EFTA - European Free Trade Association
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