SESEI 3

Seconded European Standardization Expert in India

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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

Greeting from Project SESEI 3!!!

Dear All,

A very warm welcome to all our readers as we bring this ninth edition of our "Project SESEI Newsletter Europe". Through this newsletter, it is our endeavor to update you with the latest Standards, regulatory and policy scenario and current market dynamic in India around our Project Priority sectors (Smart Cities, Automotive, ICT including Services and Electrical Equipment including Consumer Electronics) including R&D and Innovation, Make in India, Energy Efficiency, EU-INDIA/Trade/FTA/Investment etc.

We would like to begin by thanking all of you in making the success of the 3rd Indo-European Conference on Standards and Emerging Technology held on 26th April 2018, New Delhi, India. This 3rd conference in the series was an ongoing attempt to further build on the platform for having an effective and continuous dialogue between India and Europe around new and emerging technologies and as well identify key areas of collaboration. The focus of the conference this year was on Automotive, Smart Energy and ICT. During the conference three comprehensive study reports were released on these subjects. You may download the copy of study report, conference presentations and the event report from here (http://www.cii-iq.in/Indo_European_Conference.php).

Indian govt. is determined to implement stringent quality checks for the products and services. The Conformity Assessment Regulations 2017 as introduced by Bureau of Indian Standards (BIS) lays down the terms and conditions for grant, operation, suspension, renewal, cancellation of licences for using or applying a 'Standard Mark' on any article or goods.

Ministry of Electronics and Information Technology (Meity) has also released its Modified Surveillance Process under the Compulsory Registration Order (CRO) in order to curb the sale of non-registered and non-compliant goods. The Ministry of New and Renewable Energy (MNRE) has earlier mandated that, effective from 5th September 2018, all solar PV manufacturers will have to register their equipment with the BIS, this notification was further modified and date of coming into force of the said Order was advanced to 16th April, 2018 vide S.O. 1602(E) and for few items it was changed to 1st October 2018.

The 100th city under the Smart city mission was selected by Ministry of Housing and Urban Affairs (MoUD), however Smart Cities Mission is still very much a work in progress post three years of its launch and only 0.38% of the mission outlay has been utilized so far. The Niti Aayog which is the think tank of the Indian govt. is working on introducing new technologies and platforms to boost the implementation of Smart City solutions. It has recently released a discussion paper on "National Strategy for Artificial Intelligence" seeking public opinion and comments.

Things are also moving on a faster lane in the Automotive sector. A lot of emphasis is being given to creating an ecosystem for electrical charging of the E-Vehicles. With a goal of turning all vehicles electrical by 2030, India's biggest challenge will be to have a smooth and effective automotive charging policy. In this regard, the government has already made amendments to the electricity Act 2003 while clarifying that the charging of batteries of electric vehicles through charging station does not require any license. It has also proposed to set up charging stations for electric vehicles every 3 KMs in cities with million-plus population and as part of smart cities, and every 50 km on busy national highways. Other initiatives in this sector are Zero emission policy, introduction of FAME (Faster Adoption and Manufacturing of Hybrid and Electric Vehicles) Phase II and purchase of Electrical vehicles for the govt. department which is under progress. Many new global entrants are now looking at India as the new market for E-Vehicles.

Similarly, in the ICT Sector, the Department of Telecom (DoT) has released the final draft National Digital Communications Policy-2018 (NDCP 2018). The policy recognizes importance of penetration of broadband/mobility, new emerging technologies such as 5G, M2M, fibre backhaul, AI, blockchain, building robust world class telecom infrastructure etc. Department of Telecommunications (DoT) has also created a High-Level Forum for the faster introduction of 5G services in India and is also working on M2M/IoT policy framework. The implementation of GDPR in Europe has also sent Indian IT Companies in tizzy but appropriate measures are being adopted by them to ensure data protection of their European clients. The Telecom Regulatory Authority of India (TRAI) was also working on similar lines to create data privacy guidelines laying out broader principles on data ownership, security and privacy and now they have released the recommendations on it.

In the Electrical sector, Govt. is setting up higher benchmarks for the production of electricity and is encouraging the power generation through renewable sources, primarily solar and wind. Concurrently it is also working towards implementation of Smart grids and Smart meters across the country.

As per Indian Govt. statistics, there is steep rise in imports of electronic items in India and the Consumer Electronics and Appliances Industry in India is expected to become the fifth largest in the world by 2025 hence the government in its new electronic policy is proposing to boost the local manufacturing plans to attract sub-assembly manufacturers in India. Mega special economic zone (SEZ) are also likely to be set up in every state to boost manufacturing of electrical/electronic components.

An increase in investment from the European companies especially France, Germany, Sweden and UK has been witnessed and many MoU's have been signed between the two regions to enhance the ongoing cooperation between India and Europe.

With this message, first I am taking this opportunity to wish you all a very happy summer break and sincerely inviting you all to read this newsletter and earnestly share your comments and suggestions to make this newsletter even better and informative.

Best 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, TBTs and IPR

10 % tax on import of smartphone components

India has imposed a 10 % tax on imports of key smartphone components including populated printed circuit boards, imports of camera modules for phones and connectors. The move is a part of phased manufacturing plan for lifting local production of mobile devices, aimed at boosting 'Make In India' drive to turn the country into a manufacturing hub. Read More

Quality control order for solar equipment

Ministry of New and Renewable Energy (MNRE) has mandated that, effective April 16, 2018, all solar PV manufacturers will have to register their equipment with the Bureau of Indian Standards (BIS). The latest notification is a follow-up to the government's Solar Photovoltaics, Systems, Devices and Components Goods (Requirements for Compulsory Registration) Order, 2017, dated September 5, 2017. Read More

Government extends mandatory telecom equipment testing deadline to March 2019

The government has extended the deadline for mandatory local telecom equipment testing to March 31, 2019, a move that will give some relief to gear makers such as Nokia, Ericsson and China's Huawei. The government aims to implement its plan of mandatory telecom equipment testing from Oct 1 2018. Read More

Ministry of Electronics and Information Technology (MeitY) releases Modified Surveillance Process

MeitY released "Modified Surveillance Process" under Electronics and Information Technology Goods (Requirement for Compulsory Registration) Order, 2012. The surveillance comprises of random surveillance of registered manufacturer and market surveillance to curb the sale of non-registered/non-compliant notified goods being sold in the market. Read more/Download

Bureau of Indian Standards (BIS) Publishes New Indian Standards

Bureau of Indian Standards published new Indian standards pertaining to Information and Documentation namely IS 16602: 2018 / ISO 28560-1: 2014 Information and Documentation RFID (Radio Frequency Identification) in libraries. Read more

Conformity Assessment Regulations

Bureau of Indian Standards (BIS) has notified Conformity Assessment Regulations, 2018. Read more/Download

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Smart Cities

NEC launches FIWARE Lab in India for smart city innovation

NEC has launched a new FIWARE Lab node in India to encourage application developers, solution providers, government bodies and academia to experiment and innovate with the open source-based solutions for smart cities. NEC also signed **Memorandums of Understanding (MoU)** with partners including Tech Mahindra, Hughes and Mobilepedia to explore collaboration on new solutions. Read More

Revamp of 500 cities: 0.38% of outlay utilized in 3 years

3 years after the launch of **ATAL MISSION FOR REJUVENATION AND URBAN TRANSFORMATION** (AMRUT), government's initiative to introduce urban reforms and provide civic amenities in 500 cities, 0.38% of the mission outlay has been utilized so far. The statistics by the ministry of housing and urban affairs reveal 365 projects worth Rs 296 crore (37 million euro) (0.38% utilization of total mission target) have been completed. Read More

Shillong gets selected as the 100th Smart City

Shillong, the capital city of Meghalaya has been selected as 100th Smart City. Till now, 99 smart cities had been selected in four rounds of competition. With the selection of Shillong, the total proposed investment in the finally selected 100 cities under the Smart Cities Mission would be Rs.2,05,018 crores (25.62 billion euro). Read More

ABB India signs MoU with IIT Roorkee for Smart Cities

The ABB (India) Limited has signed a MoU with the Indian Institute of Technology Roorkee (IITR) for technical cooperation for the construction of an operational smart electricity distribution network and management system in the campus. The move is aimed to serve as a pilot project for the Smart Cities. Read More

Artificial Intelligence : A smarter way to build smart cities

The challenges of developing brownfield cities are different from greenfield, but common to both is the understanding that technologies like Artificial intelligence (AI) and Internet of things (IoT) will be the cornerstone of realizing India's aspirations of building 'intelligent' cities of tomorrow. With the publication of a discussion paper on AI by the NITI Aayog recently, the government has not just signaled its priority to this disruptive technology, but also thrown it open to the public for ideas and suggestions. Read More

Netherlands and India join hands in High Tech & IT and Smart Cities

The Netherlands Trade Mission to India 2018 unfurled from 22nd May to 25th May. During the course of the trade mission, Indian and Dutch companies brainstormed, discussed and shared ideas about collaborations in Agribusiness & Horticulture, Water Management, Logistics & Maritime, **High tech & IT and Smart Cities** Read More

Ministry of Housing and Urban Affairs has released following Office Memorandums (OMs)

- Implementation of PAN City Smart Solutions. Read more
- Incentive to Urban Local Bodies (ULBs), which are covered under Atal Mission for Rejuvenation and Urban Transformation (AMRUT) for issuance of Municipal Bonds-regarding Read more

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Automotive

Govt. considers FAME-II scheme with Rs 9,381 cr (1.17 billion euro) outlay

The second phase of the scheme spanning five years from 2018-19 to 2022-23 is likely to entail financial support of Rs 9,381 crore (1.17 billion euro) and target new energy vehicles. The Heavy Industry Ministry had circulated a draft Cabinet note with details of the proposed scheme among various related government departments, including power, new and renewable energy, road transport and highways, finance and others. Read More

E-vehicles charging stations need no licence, says government

Ministry of Power has categorized charging batteries of electric vehicles as a service, a move which will help such stations operate without licence and encourage the use of e-vehicles. Transmission, distribution and trading of electricity need licences under the Electricity Act. However, the ministry said in a clarification that during the charging of e-vehicles, a station does not perform any activity related to the transmission, distribution or trading of electricity. Read More

GPS not mandatory for public transport vehicles until April 1,2019

The Centre has decided to postpone the mandatory requirement to have Global Positioning System (GPS) equipment and panic button connected to all public transport service vehicles till April 1, 2019. The Centre for Development of Advanced Computing (C-DAC) is developing a software titled 'Suraksha Mitra' that can track, locate and give the real time data of one lakh vehicles. Read More

NITI submits draft Cabinet note on zero-emission vehicles

NITI Aayog has submitted a draft Cabinet note on developing a strategy for zero emission vehicles and ancillary technology. NITI Aayog has proposed the formation of six committee to decide issues pertaining to finalization of non-fiscal incentive; promotion of last mile connectivity; electric mobility in public transport; etc. Read More

Centre proposes charging points for EVs every 3 kilometer (KM)

The government proposes to set up charging stations for electric vehicles every 3 KMs in cities with million-plus population and smart cities, and every 50 km on busy national highways. It is expected that 30,000 slow-charging and 15,000 fast-charging stations will be required to be put up in a phase-wise manner in the next 3-5 years. Read More

EESL to invest Rs 2,400 crore (300 million euro) to buy 20,000 EVs by March 2019

Energy Efficiency Services Limited (EESL) plans to invest around 300 million euro to procure 20,000 electric vehicles for government use by March next year. Already 100 electric vehicles are operational in Delhi and 20,000 electric vehicles will be procured by March 2019. Read More

Ministry notifications

- Notification no. S.O. 1663(E) regarding Exemption of Vehicle Location Tracking device and emergency buttons in Public Service Vehicles Read more
- Notification no. G.S.R 201(E) regarding Emission standards for CEV and Agricultural tractors Read more
- Notification no. G.S.R. 453(E): Background colour of registration plate for electric vehicle Read more
- Notification no. G.S.R 371(E): regarding Light and Light Signaling Devices. Read more

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ICT including services

Department of Telecommunications (DoT) releases draft National Digital Communication Policy

The draft of National Digital Communication Policy (NDCP) 2018 has been uploaded for public consultations on the DoT's website. One of the key strategies in the draft talks of recognizing spectrum as a key natural resource for public benefit to achieve India's socio-economic goals, optimize availability and utilization by making adequate spectrum available to be equipped for the new broadband era.
Down load Draft NDCP 2018

NITI Aayog Releases Paper for India's Strategy on AI and Identifies 5 Core focus Areas

The NITI Aayog unveiled a discussion paper which addresses the national strategy on artificial intelligence and other emerging technologies in India. The government think tank identified five sectors to focus its efforts towards implementation of AI to serve societal needs. The five sectors are, **Healthcare, Agriculture, Education, Smart Cities and Infrastructure, Smart Mobility and Transportation.**
Download Discussion Paper on AI by NITI Aayog

Stand-alone policy on Internet of Things (IoT) on cards

The DoT will bring soon announce a stand-alone policy on IoT under a regulatory and security framework and is currently identifying appropriate spectrum bands and technology for this web-enabled ecosystem. It is studying the business models of IoT – the revenue, cost and product sharing. The government is looking for simplified licencing and regulatory framework for IoT/ M2M service provider.
Read More

Task force to prepare e-commerce policy framework in 6 months

The government hopes to be ready in six months with a framework for an e-commerce policy that will address issues such as taxation, competition policy, data localisation, regulatory requirements and technology transfer. The task force will be headed by the Commerce Secretary and include secretaries and senior officials from other ministries and departments such as IT, telecom and finance. Read More

The National Institution for Transforming India (NITI Aayog) plans National Data & Analytics Platform

The Government of India is planning to launch advanced technological platform that would analyze and interpret humongous data to understand spending patterns, revenue expenditure, citizen's perception and the success phase of government policies. The platform will be developed by NITI Aayog in collaboration with private players. Read More

IT companies play it safe ahead of European Union's data protection law

A month before the European Union's General Data Protection Regulation (GDPR) come into force Indian IT companies like Infosys, Wipro and HCL, are rushing to tweak their vendor and customer contracts. These companies want to ensure data of EU citizens and companies they obtain is protected and deleted after the work is done. Read More

Separate Computer Emergency Response Team (CERT) for telecom sector

The Centre is working on to set up CERT for telecom sector to protect the country's communication networks from cyber-attack. The CERT in telecom sector will provide real time information about the cyber threat to stakeholders to take proper action and safeguard the networks. Read More

5G services to be rolled out in India by 2020

Telecom Minister has set the target for commercial roll-out of 5G services in India by 2020 which will be at par with other countries. Around 6000 Mhz of spectrum can be made available of the next generation mobile services without delay, said the 5G committee of the Telecom industry. Read More

Consultation Papers, recommendations, policies and directives

- Telecom Regulatory Authority of India (TRAI) released draft Telecom Commercial Communications Customer Preference Regulations, 2018. Read more/Download
- TRAI releases Recommendations on ''Next Generation Public Protection and Disaster Relief (PPDR) communication networks''. Read more/ Download
- Telecom Regulatory Authority of India issued a draft to amend interconnect regulations, 2018. Read more/Download
- Ministry of Electronics & Information Technology (MeitY) has notified "Information Technology (Information Security Practices and Procedures for Protected System) Rules 2018". Read more/ Download
- TRAI releases Recommendations on Draft Principles on Privacy of User Data. Read More

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Electrical Equipment including Consumer Electronics

Power Grid sets Target of 25,000 Crore (3.12 billion euro) for 2018-19

Power Grid Corporation of India Limited (POWERGRID) has signed MoU for the year 2018-19 with Ministry of Power. The MoU includes various targets to be achieved by POWERGRID during FY 2018-19. Capex target for the year has been set as Rs. 25,000 crore (3.12 billion euro). Read More

Govt. launches Pilot scheme for Procurement of Aggregate Power of 2500 MW for three years.

Ministry of Power has launched Pilot Scheme for Procurement of Aggregate Power of 2500 MW on competitive basis for 3 years. The main purpose of scheme is to revive commissioned power plants which are unable to sell electricity in absence of valid power purchase agreements (PPAs). Read More

New electronics policy to focus on making India as export hub

The govt. plans to bring in new incentives and schemes to attract global firms from countries like Japan, Taiwan and South Korea to set up their manufacturing base into India. The new electronics policy to be unveiled soon and will focus on opening up Indian market for exports, a senior official from the ministry of IT and electronics.   Read More

All electricity meters to be smart prepaid in 3 years: Minister

All electricity meters in India will become smart prepaid meters in the next three years. Manufacturing of smart prepaid meters as their demand is bound go up in the coming years, according to a Power Ministry statement. Need of the hour is to scale up manufacturing of smart prepaid meters and to bring down their prices. Read More

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R&D and Innovation

Bharat Forge sets up e-mobility Research and Development (R&D) centre in UK

Pune-based auto components major Bharat Forge has opened a research and development (R&D) facility in Britain for developing components and sub-systems focused on electric vehicles (EVs). This facility at the Mira Technology Park will complement the capabilities and knowledge established over the past 2 years in Kalyani Centre for Technology & Innovation Read more

Institutes want Govt to play bigger role in funding tech research: NASSCOM study

As many as 92% of India's technology institutes want the Union government to play a bigger role to encourage research and innovation, and enhance industry-academia collaboration to boost innovation, according to a joint study by NASSCOM and Infoholic. The study, which featured interviews with representatives of 75 prominent technology institutes across the country Read More

NITI Aayog announces the launch of 'Atal New India Challenges' programme

NITI Aayog announced the launch of the 'Atal New India Challenges' programme under the Atal Innovation Mission to provide grants of up to Rs 1 crore (10 million) to innovative products and solutions to address challenges in 17 different fields that have been named. Read More

Manufacturing / Make in India

Mobile manufacturing industry to mark Rs 132,000 cr (16.5 euro billion) by 2018

Indian mobile manufacturing industry is expected to touch Rs 1,32,000 crore (16.5-euro bn) by end of 2018. In terms of volume, in 2014 India produced 5 core mobile phone made locally in India which reached to 15 crore in 2015-16. In 2017 the Indian mobile manufacturing industry produced 22 million mobile phones. 'The industry would produce 50 million mobile phones by 2020. Read More

Govt must focus on electronic components ecosystem to boost electronics manufacturing: Study

The Indian government needs to introduce a phased manufacturing plan to encourage manufacturing of electronic components other than mobile phones, says a joint study done by NEC Technologies India Pvt Ltd in collaboration with the industry body ASSOCHAM. Titled 'Electricals & electronics manufacturing in India,' the joint study noted. Read More

NITI Aayog and ABB India partner to make India AI-Ready

NITI Aayog, and ABB India have signed a Statement of Intent (SoI) to support the Indian government in 'Make in India' initiative. NITI Aayog will work with ABB to prepare key sectors of the economy, such as the power and water utilities sector, industries like food as well as the heavy industries sector; and the transport (rail and metro) and infrastructure sectors for digitalization, the IoT and Artificial Intelligence. Read More

IT ministry plans mega electronics manufacturing SEZ in all states

A mega special economic zone (SEZ) is likely to be set up in every state, according to the new electronics manufacturing policy being prepared by the ministry of IT and electronics. The policy is expected to be ready in the next three months. SEZs are being planned to promote electronics manufacturing besides making India an export hub for small electronics products. Read More

Energy Efficiency-Environment

Govt. has amended E- Waste (Management) Amendment Rules, 2018

Union Minister for Environment, Forest and Climate Change, has amended the E-waste (Management) Rules 2018 in a move to facilitate and effectively implement the environmentally sound management of e-waste in India. The amendment in rules has been done with the objective of channelizing the E-waste generated in the country towards authorized dismantlers and recyclers in order to formalize the e-waste recycling sector. Read More

Environment Ministry eases e-waste collection targets for electronics companies

In a move seen as benefiting new entrants, the ministry of environment and forests has eased targets for electronics makers, including handset companies, to collect e-waste equal to a share of their yearly sales. Accordingly, handset makers selling phones prior to 5 years or 7 years have to collect e-waste equal to 10% of the sales done in the financial year.
Read More

World Bank announces $300m energy efficiency funding for India

The World Bank has announced $300 million (€256 million) of funding to help scale up India's national energy efficiency programme. The Energy Efficiency Services Limited (EESL) organization will use the money to drive the deployment of energy saving measures in both the residential and public sectors and enhance access to commercial financing. Read More

Policy measures for promotion of new & renewable energy

The Government of India has undertaken a number of policy measures for increasing share of renewable energy in India's energy mix. It has set up a target of installing 175 GW capacity through renewables by 2022. As on February 2018, a total capacity of 65 GW had been installed in the country. Read More

National Wind-Solar Hybrid Policy

Ministry of New & Renewable Energy issued draft National Wind-solar Hybrid Policy in June 2016. The Policy has been finalized after having detailed consultation with stakeholders. The National Wind-solar Hybrid Policy is hereby released by the Ministry for information of all stakeholders and general public. Read More

EU-India/Trade-FTA/Investments

Indian investment proposals in France jump 73 %

India recorded the biggest rise of 73 % in investment proposals into France among emerging economies in 2017, according to a report. In 2017, there were 19 Indian foreign investment projects in France, up 73 per cent over last year when there were 11 such projects, according to the report -The 2017 Annual Report: Foreign investment in France - The international development of the French economy. Read More

$21.4 billion investment by UK in India in 10 Years

British companies including BP and Vodafone invested $21.4 billion (18.26 euro million) in India over the past decade, beating French and German companies put together. The investments include multi-billion dollar deals inked by oil and gas company BP with Reliance Industries and telecom operator Vodafone's investments in India, apart from Rolls Royce and JCB that have invested in India for decades. Read More

Swedish companies committing a fresh 1.1 billion dollars investment in India

Companies in Sweden, the largest Nordic economy in Europe is committing a fresh 1.1 billion dollars investment in India led by some of its major companies' Volvo, IKEA, AstraZaneca amongst others. Having committed $1.5 billion in the past three years, the additional investment that is lined up will be for the next two years. Sweden is investing in India more than it did in the "last few decades" said Carsten Gronblad, the Trade commissioner to India. Read More

- Cabinet approves Memorandum of Understanding (MoU) between India and United Kingdom on technical cooperation in the field of Sustainable Urban Development
- Cabinet approves Memorandum of Understanding (MoU) between India and Denmark on technical cooperation in the field of Sustainable and Smart Urban Development
- Cabinet approves MoU between India and Germany on Cooperation in the field of Civil Aviation.
- Cabinet apprised of MoU between India and France on Technical Cooperation in the field of railways.
- Cabinet approves MoU signed between India and France in the field of Renewable Energy.
- Cabinet approves Agreement between India and France on technical cooperation in the field of Sustainable Urban Development.
- Cabinet approves Memorandum of Understanding (MoU) between India and Denmark on Food Safety.

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Invest India

Ease of Doing Business: improvements set to continue, India creating investment climate to boost growth'

Ease of doing business (EoDB) has witnessed unprecedented attention of the Union government in the past few years. The emphasis has been on simplification of rules and procedures to ensure transparency. It now aspires to enter the top 50 rank, making it one of the most attractive destinations for investors. It is most satisfying to see special focus on indicators where India is not doing so well. The latest Doing Business Report shows seven of 10 indicators with a ranking in the range of 103-181 (out of 190). Read More

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Events

Smart City Conclave, Kochi
When: August 17, 2018
The objective of the Summit is to exchange knowledge and ideas so that better Smart City solutions can be developed to provide a decent quality of life to Kochi citizens and a clean and sustainable environment. The focus is on "Sustainable and Inclusive Development". Area Based Development (ABD) strategies and PAN City solutions. The vision is built on four themes identified by Smart Kochi Mission Limited-Kochi's SPV. For more information please click here

4th National Summit on 100 Smart Cities India 2018
When: 24th August, 2018
Where: The Lalit New Delhi, New Delhi, India
After the success of 2017, Bharat Exhibitions is pleased to present the 4th edition of their industry flagship event – National Summit on 100 Smart Cities India 2018 scheduled to take place on 24th August 2018 at The LaLiT, New Delhi. With the theme – "INNOVATIONS, SUSTAINABILITY, SURVEILLANCE AND DEVELOPMENT FOR SMART CITIES". This forum will trace the importance of various aspects of infrastructure that needs to be planned, designed, built

and operated in order to provide the 'Smart' attribute to a city development. For more information please click here

TI AUTOMOTIVE 2018
When: 5-6 September, 2018
Where: Hotel Westin, Pune, India
The two day conference will cover themes like ADAS & Autonomous Vehicles, Fleet Management & Shared Mobility, Cyber Security/OTA/In-Vehicle Monitoring, Telematics Solutions, Insurance Telematics, E-Mobility & Lighting, Artificial Intelligence/Machine Learning, Blockchain, Digital Cockpit, and In-Vehicle Monitoring, In-Car Content, among others. For more information please click here

15th International Exhibition & Conference on Smart & Sustainable city solutions
When: SEPTEMBER 19 – 21, 2018
Where: BOMBAY EXHIBITION CENTRE, Mumbai, India
The event will have participation of International Country Pavilions, State Pavilions and Municipal Corporations displaying their initiatives undertaken for their Cities along with 170+ technology solution providers for city development needs, exhibiting their technologies. For more information please click here

Digital India TELECOM Convergence Summit 2018
When: Sep 28, 2018
Where: New Delhi, New Delhi, India
The summit will focus on New technologies like 5G. This platform served an ideal platform for knowledge-experts to share insights and successful case studies across the globe. The Summit will be attended by service providers, digital and internet service providers, technology suppliers and users, infrastructure players, R&D Institutions, equipment manufacturers and supplier etc. For more information please click here

International Conference on Communication and Computing Systems (ICCCS)
When: 28-30 September, 2018
Where: Dronacharya College of Engineering, Gurgaon, India
The International Conference on Communication and Computing Systems will cover areas like Computing green computing, brain computing, ubiquitous computing, digital signal processing and its applications, artificial intelligence, modeling and simulation and many more. For more information please click here

Indian Mobile Congress 2018
When: 25-27 October, 2018
Where: Pragati Maidan, New Delhi, India
The 3-day event will provide insights to the current and future mobile related technological developments, next generation services and open new vistas of growth therein. The event will also offer discussions and the deliberations around the themes Technology, Business, Policy and Digital Life. For more information please click here

The Transport Expo 2018 Eastern Region
When: December 14-16, 2018
Where: ECO PARK, NEW TOWN, KOLKATA, India
The Transport Expo 2018 wants to create a forum; which will play a vital role in developing and providing a ready to use marketing and educational platform for the growing automotive business in India. The Transport Expo 2018 will have exhibitors from complete segment of automobile industry representing Commercial Vehicles, Passenger cars, Two and Three wheelers, Green Vehicles, Components and Equipments, Décor, Maintenance, Services. 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:

S. No.	Document No	Title of the Doc
	Electronics and Information Technology(ICT)	
1	LITD 02 (12620)	Reliability stress screening Part 2 Components (First Revision of IS 15444 (Part 2) and also Superseding IS 9186: 1979) ICS 03.120.01; 31.020
2	LITD 02 (12621)	Maintainability of equipment Part 2 Maintainability requirements and studies during the design and development phase [Superseding following Indian Standards 1)
3	LITD 02 (12622)	Maintainability of equipment Part 5 Testability and diagnostic testing [Superseding IS 9692 (Part 4) : 1987] ICS 03.120.01; 03.120.30; 21.020
4	LITD 02 (12623)	Maintainability of equipment Part 3 Verification and collection, analysis and presentation of data [Superseding following Indian Standards 1) IS 9692 (Part 6) : 1983,and 2) IS 9692 (Part 7): 1984] ICS 03.120.01; 21.020
5	LITD 02 (12619)	Guide for Equipment Reliability Testing Part 7 Compliance Tests for Constant Failure Rate and Constant Failure Intensity (Second Revision) ICS :03.120.30; 19.020; 21.020
6	LITD 10 (10187)	Guideline for Distribution Management System in the Context of Electrical Utilities.
7	LITD 17 (12701)	Information Technology- Security Techniques – Information Security Incident Management – Part 1: Principles Of Incident Management
8	LITD 17 (12708)	Information Technology- Security Techniques – Electronic Discovery – Part:3 Code Of Practice For Electronic Discovery
9	LITD 17 (12707)	Information Technology- Security Techniques – Electronic Discovery – Part 1: Overview And Concepts
10	LITD 17 (12706)	Information Technology- Security Techniques – Time –Stamping Services Part 4: Traceability Of Time Sources
11	LITD 17 (12705)	Information Technology- Security Techniques – Network Security – Part 6: Securing Wireless IP Network Access
12	LITD 17 (12704)	Information Technology- Security Techniques – Key Management – Part 4: Mechanisms Based On Weak Secrets (First Revision)
13	LITD 17 (12702)	Information Technology- Security Techniques – Information Security Incident Management – Part 2: Guidelines To Plan And Prepare For Incident Response
14	LITD 17 (12711)	Information Technology- Security Techniques – Application Security- Part 6 Case Studies
15	LITD 17 (12700)	Information Technology- Security Techniques – Digital Signatures With Appendix Part 2: Integer Factorization Based Mechanisms

16	LITD 17 (12699)	Information technology- Security Techniques – Digital signatures with appendix Part 1: General
17	LITD 17 (12698)	Information Technology- Security Techniques – Digital Signatures With Appendix Part 3: Discrete Logarithm Based Mechanisms
18	LITD17 (12703)	Information Technology- Security Techniques – Key Management – Part 3: Mechanisms Using Asymmetric Techniques (First Revision)
19	LITD 17 (12715)	Information Technology- Security Techniques – Encryption Algorithms - Part4 : Stream Ciphers
20	LITD 17 (12718)	Information Technology- Security Techniques – Guidelines For Information Security Management Systems Auditing
21	LITD17 (12717)	Information Technology- Security Techniques – Information System – Overview And Vocabulary
22	LITD 17 (12709)	Information Technology- Security Techniques – Application Security – Part:2 Organization Normative Framework
23	LITD 17 (12716)	Information Technology- Security Techniques – Encryption Algorithms – Part 5: Identity Based Ciphers
24	LITD 17 (12710)	Information Technology- Security Techniques – Application Security – Part 5: Protocols And Application Security Controls Data Structure
25	LITD 17 (12714)	Information Technology –Security Techniques – Encryption Algorithms- Part 2: Asymmetric Ciphers- Amendment No 1
26	LITD 17 (12712)	Information Technology- Security Techniques – Guidance For The Production Of Protection Profiles And Security Targets
27	LITD 09 (12738)	Electromagnetic Compatibility (EMC) Part 4 Testing and Measurement Techniques Section 9 Impulse magnetic field immunity test (Second Revision)
28	LITD 09 (12739)	Electromagnetic Compatibility (EMC) Part 4 Testing and Measurement Techniques Section 12 Ring wave immunity test (Second Revision)
29	LITD 09 (12737)	Electromagnetic Compatibility (EMC) Part 4 Testing and Measurement Techniques Section 5 Surge immunity test (First Revision)
30	LITD 09 (12736)	Electromagnetic Compatibility (EMC) Part 4 Testing and Measurement Techniques Section 1 Overview of the IEC 61000-4 series (Second Revision)
31	LITD 09 (12741)	Electromagnetic Compatibility (EMC) Part 6 Generic Standards Section 1 Immunity standard for residential, commercial and light-industrial environments (First Revision)
32	LITD 09 (12742)	Electromagnetic Compatibility (EMC) Part 6 Generic Standards Section 2 Immunity standard for industrial environments (First Revision)
33	LITD 09 (12743)	Electromagnetic Compatibility of Multimedia Equipment – Emission Requirements
34	LITD 09 (12740)	Electromagnetic Compatibility (EMC) Part 4 Testing and Measurement Techniques Section 16 Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz (Second Revision)

35	LITD17 (12163)	Data privacy Assurance : Part 2 Engineering and Management Guidelines
36	LITD17 (12162)	Data privacy Assurance : Part 1 Engineering and Management Requirements

Electrical Equipment including Consumer Electronics (ETD)

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

Electro-technical (ETD)		
S. No.	Document No	Title of the Doc
1	ETD 36 (11372) WC	Live working – Guidelines for the installation and maintenance of optical fiber cables on overhead power lines
2	ETD 14 (12610)	Connecting devices for low-voltage circuits for household and similar purposes – Part 1: General requirements
3	ETD 06 (12618)	SPECIFICATIONFORPORCELAIN INSULATORSFOROVERHEADPOWERLINESWITHANOMINALVOLTAGEGREATERTHAN1 000V(ThirdRevision)
4	ETD 52 (12426)	Electrical Energy Storage Systems: Safety Requirements
5	ETD 52 (12830)	Electrical Energy storage systems Part 4-1: Unit parameters and testing methods General specification
6	ETD 52 (12829)	Electrical Energy storage systems Part 2-1: Unit parameters and testing methods General specification
7	ETD 52 (12828)	'Electrical Energy storage systems – Part 1 : Vocabulary'
8	ETD 21 (12677)	Arc welding equipment: Part 1 Welding power source
9	ETD 14 (12686)	Powertrack System Part 21: Particular requirements for power track systems intended for wall and ceiling mounting
10	ETD 14 (12684)	Power Track System Part 1 General Requirement
11	ETD 21 (12689)	Arc welding equipment: Part 9 Installation and use
12	ETD 21 (12688)	Arc welding equipment - Part 7 : Torches
13	ETD 21 (12691)	Arc welding equipment: Part 12 Coupling devices for welding cables
14	ETD 21 (12692)	Arc welding equipment: Part 13 Welding clamp
15	ETD 21 (12690)	Arc welding equipment: Part 11 Electrode holders
16	ETD 36 (12846)	Live working – Hand tools for use up to 1 000 V AC and 1 500 V DC (Second Revision)
17	ETD 33 (12681)	Amendment No. 2 to IS 8783 (Part 2) : 1995 Winding wires for submersible motors – Specification: Part 2 Materials for dielectric and jacket (first revision)
18	ETD 33 (12680)	Amendment No. 2 to IS 8783 (Part 1) : 1995 Winding wires for submersible motors – Specification: Part 1 Conductor data (first revision)
19	ETD 25 (11983)	Escalators and moving walks : Part 1/ Section 3 Construction and Installation (First Revision)

20	ETD 25 (11981)	Escalators and moving walks : Part 1/Section 1 Safety requirements (First Revision)
21	ETD 25 (11982)	Escalators and moving walks : Part 1/ Section 2 Guide for Planning and Selection (First Revision)
22	ETD 25 (12637)	DRAFT AMENDMENT NO. 3 TO IS 14665 (PART 3/SEC 1) : 2000 Electric Traction Lifts Part 3 Safety Rules Section 1 Passenger And Goods Lifts
23	ETD 28(12568)	Photovoltaic systems – Design qualification of solar trackers
24	ETD 28(12569)	Photovoltaic modules – Bypass diode electrostatic discharge susceptibility testing
25	ETD 28(12570)	Photovoltaic modules – Bypass diode – Thermal runaway test
26	ETD 28(12566)	Method for measuring photovoltaic (PV) glass – Part 1: Measurement of total haze and spectral distribution of haze
27	ETD 28(12565)	Photovoltaic (PV) modules – Test methods for the detection of potential-induced degradation – Part 1 : Crystalline silicon
28	ETD 28(12564)	Measurement procedures for materials used in photovoltaic modules – Part 1-6: Encapsulants – Test methods for determining the degree of cure in Ethylene- Vinyl Acetate
29	ETD 28(12567)	Method for measuring photovoltaic (PV) glass – Part 2: Measurement of transmittance and reflectance
30	ETD28 (12562)	Photovoltaic devices – Part 8-1: Measurement of spectral responsivity of multijunction photovoltaic (PV) devices
31	ETD 28(12561)	Photovoltaic devices – Part 1-1: Measurement of current-voltage characteristics of multi-junction photovoltaic (PV) devices
32	ETD 28(12563)	Photovoltaic (PV) systems – Requirements for testing, documentation and maintenance – Part 3 : Photovoltaic modules and plants – Outdoor infrared thermography
33	ETD 07 (12591)	Electrical accessories -Circuit-breakers and similar equipment for household use - Auxiliary contact units
34	ETD 07 (12540)	Low-voltage switchgear and controlgear: Part 6 Multiple function equipment, Section 2 Control and protective switching devices (or equipment) (CPS)
35	ETD 14 (12597)	Switches for household and similar fixed electrical installations - Part 2-2: Particular requirements - Electromagnetic remote-control switches (RCS)
36	ETD 14 (12610)	Connecting devices for low-voltage circuits for household and similar purposes – Part 1: General requirements
37	ETD 06 (12618)	SPECIFICATIONFORPORCELAIN INSULATORSFOROVERHEADPOWERLINESWITHANOMINALVOLTAGEGREATERTHAN1 000V(ThirdRevision)
38	ETD 21 (12677)	Arc welding equipment: Part 1 Welding power source
39	ETD 14 (12686)	Powertrack System Part 21: Particular requirements for power track systems intended for wall and ceiling mounting
40	ETD 14 (12684)	Power Track System Part 1 General Requirement
41	ETD 07 (12490)	Low-voltage switchgear and controlgear assemblies – Part 4 Particular requirements for assemblies for construction sites (ACS)

42	ETD 07 (12491)	Low-voltage switchgear and controlgear assemblies – Part 5: Assemblies for power distribution in public networks
43	ETD 07 (12489)	Low-voltage switchgear and controlgear assemblies – Part 3: Distribution boards intended to be operated by ordinary persons (DBO)
44	ETD 07 (12493) W	In-cable control and protection device for mode 2 charging of electric road vehicles
45	ETD 25 (12501)	Electric Traction Lifts : Part 6 Safety Norms For Existing Lifts
46	ETD 25 (12502)	Amendment No. 3 Electric Traction Lifts : Part 4 Components Section 7 Lift Machines and Brakes And Amendment No. 3 Electric Traction Lifts : Part 4 Components Section 9 Controller and Operating Devices for Lifts
47	ETD 07 (12495)	General requirements for arc fault detection devices
48	ETD 25 (12509)	Lifts (elevators), escalators and moving walks — Programmable electronic systems in safety-related applications : Part 1 Lifts (elevators) (PESSRAL)
49	ETD 07 (12517)	Residual current devices with or without overcurrent protection for socket-outlets for household and similar uses
50	ETD 07 (12520)	Low-voltage switchgear and controlgear: Part 5 Control circuit devices and switching elements, Section 5 Electrical emergency stop devices with mechanical latching function
51	ETD 07 (12522)	Low-voltage switchgear and controlgear: Part 6 Multiple function equipment, Section 1 Transfer switching equipment

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

Transport		
S. No.	Document No	Title of the Doc
1	TED 28 (12783)	Intelligent Transportation System (ITS): Reverse Parking Assist System (RPAS) [ICS 35.240.60; 43.040.15]
2	TED 22 (11511) W	Fork-lift trucks – Fork arms – Technical Characteristics and Testing (Second Revision of IS 6876)
3	TED 14 (12533) W	Space systems — Space experiments —General requirements (Adoption of ISO 14619 : 2003)
4	TED 14 (12530) W	Space systems — Unmanned spacecraft Operability (Adoption of ISO 14950 : 2004)
5	TED 14 (12529) W	Aerospace — Lever-operated, two-position, ON/OFF switches — Directions of operation (Adoption of ISO 44 : 1975)
6	TED 6(10459)	Draft Amendment No. 1 To IS 16219:2014 Automotive Vehicles — Metallic Fuel Tanks — Specification
7	TED 14 (12578) W	Aircraft - Fire-resisting electrical cables - Methods of test (Adoption of ISO 2156 : 1974)

8	TED 14 (12577) W	Aircraft — Fire-resisting electrical cables — Performance requirements (Adoption of ISO 2155 : 1974)
9	TED 16 (10638)	Draft Amendment No. 1 to IS 10613:2014 'Cycles — Safety Requirements for Bicycles ' (Second Revision)
10	TED 4 (12192)W	Draft Indian Standard AUTOMOTIVE VEHICLES – UNIFORM PROVISIONS CONCERNING THE APPROVAL OF VEHICLES OF CATEGORIES M2, M3, N AND T WITH REGARD TO BRAKING (Third Revision of IS 11852)
11	TED 4 (12266)W	Draft Indian Standard AUTOMOTIVE VEHICLES – BRAKE LININGS IS 2742 (PART 6) – COMPRESSIVE STRAIN TEST METHODS
12	TED 4(11962) W	Draft AMENDMENT NO. 1 APRIL 2018 TO IS 11948: 2010 AUTOMOTIVE VEHICLES — STEERING EFFORT — METHOD OF EVALUATION (Second Revision)
13	TED 14 (12589) W	Static invertors for aircraft (Adoption of 2277 : 1973)
14	TED 14 (12588) W	Environmental tests for aircraft equipment — Part 3.4 : Acoustic Vibration (Adoption of 2671 : 1982)
15	TED 4 (12271)	Draft Indian Standard AUTOMOTIVE VEHICLES – BRAKE LININGS IS 2742 (PART 7) – SHEAR TEST PROCEDURE FOR DISC BRAKE PAD AND DRUM BRAKE SHOE ASSEMBLIES

At Automotive Research Association of India (ARAI)

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

Automotive Research Association of India (ARAI)		
S. No.	Code	Title of the Doc
1	Draft Amd. 6 to AIS-007 (Rev. 5)	Information on Technical Specifications to be submitted by the Vehicle Manufacturer
2	Draft Amd.1 to AIS-145	Additional Safety features for Category M & N Vehicles
3	Draft/AIS-121/D2/Feb 2018	Requirements of Driver's Seat for Agricultural Tractors
4	Draft/AIS-122 / D2/Apr 2018	Requirements on Operating Space & Access to Driving Position for Agricultural Tractors
5	Finalised Draft AIS-145	Additional Safety features for Category M & N Vehicles
6	Draft Amd. 6 to AIS-053	Automotive Vehicles-Types-Terminology

7	Finalised Draft AIS-137(Part 1)	Document on Test Method, Testing Equipment and Related Procedures for Testing Type Approval and Conformity of Production (COP) of Vehicles for Emission as per CMV Rules 115, 116 and 126 Part 1-B (2 wheelers)
8	Finalised Draft AIS-137(Part 2)	Document on Test Method, Testing Equipment and Related Procedures for Testing Type Approval and Conformity of Production (COP) of Vehicles for Emission as per CMV Rules 115, 116 and 126 Part 2 (3 wheelers)
9	Finalised Draft AIS-137(Part 3)	Document on Test Method, Testing Equipment and Related Procedures for Testing Type Approval and Conformity of Production (CoP) of category M and N Vehicles having GVW not exceeding 3500 kg for Emission as per CMV Rules 115, 116 and 126 Part-3 BS VI Emission norms
10	Finalised Draft AIS-137(Part 4)	Document on Test Method, Testing Equipment and Related Procedures for Testing Type Approval and Conformity of Production (CoP) of category M and N Vehicles having GVW exceeding 3500 kg for Emission as per CMV Rules 115, 116 and 126 Part-4 BS VI emission norms
11	Draft AIS-008 (Rev.2) /D2/March 2018	Installation Requirements of Lighting and Light - Signalling Devices for Motor Vehicle having more than Three Wheels including Quadricycles, Trailer and Semi-Trailer excluding Agricultural Tractors
12	Draft AIS-017(Part 6)/ D0/6th April 2018	Procedure for Establishing Whole Vehicle Safety Conformity of Production (WVSCOP) for L1, L2, L5, M & N category of vehicles
13	Draft Amd. 2 to AIS-119 (Rev 1):2016	Specific Constructional Requirements for Sleeper Coaches
14	Draft Amd 2 to AIS-071 (Part 2)	Automotive Vehicles – Control Location and Operation Requirements
15	Draft AIS-071(Part 1) (Rev. 1)/D1 /24th Apr 2018	Automotive Vehicles - Identification of Controls Tell-Tales and Indicators
16	Draft AIS-137 (Part 7)/D0/May 2018	Testing Type Approval and Conformity of Production (Cop) of Agricultural Tractors, CEV & Combine Harvester for Emission as per CMV Rules 115, 116 and 126 PART-7-A : Bharat Stage (CEV/TREM)-IV PART-7-B : Bharat Stage (CEV/TREM)-V
17	Draft AIS-153/DF/May 2018	Additional Requirements for Bus Construction
18	Draft AIS-150/DF/May 2018	Requirements for Approval of Vehicles of Categories M2, M3, N and T With Regard To Braking

ICT at TSDSI

Activities at TSDSI
"List of New Item for Proposal at TSDSI"

New Item Proposal	Name	Version	Status
NIP203	Study on spectrum requirements and impacts of IoT services on cellular network	TSDSI-SG1-NIP203-V1.0.2-20180423	Accepted
For complete details of the NIP please click here			
"List of Work Item status update"			
Work Item	Name	Version	Status
No new Work Items introduced since last quarter			
For complete details of the Work Items (WI) please click here and select Work Items			
"Status update of Study Items at TSDSI"			
Study Item	Name	Version	Status
SI61	Study Item for NIP 197	TSDSI-SG2-SI61-V1.0.0-20180608	Initiated
SI60	Study Item for NIP 200 (Information Centric Networking)	TSDSI-SG2-SI60-V1.0.0-20180607	Initiated
For complete details of the Study Items please click here			
"List of SWIP Status Update"			
SWIP	Name	Version	Status
SWIP576	Table of Contents for Cloud Interoperability and Portability Report	TSDSI-SG2-SWIP576-[SI61]-V1.0.0-20180618	Accepted
SWIP575	Scope of Cloud Interoperability and Portability work in TSDSI	TSDSI-SG2-SWIP575-[SI61]-V1.0.0-20180611	Accepted
SWIP574	Technical Summary of TSDSI Interoperability portability workshop	TSDSI-SG2-SWIP574-[SI61]-V1.0.0-20180611	Accepted
SWIP572	Interop Report Summary	TSDSI-SG2-SWIP572-[SI61]-V1.0.0-20180608	Accepted
SWIP571	SWIP on Information Centric Networking	TSDSI-SG2-SWIP571-[SI60]-V1.0.0-20180607	Accepted
SWIP570	Mission-Critical-System-Description	TSDSI-SG2-SWIP570-[SI58]-V1.0.0-20180607	Accepted
SWIP569	BB PPDR SI - Questionnaire to agencies	TSDSI-SG2-SWIP569-[SI58]-V1.0.0-20180607	Accepted
SWIP568	Contribution on BB-PPDR study TRAI-Recommendation	TSDSI-SG2-SWIP568-[SI58]-V1.0.0-20180606	Accepted
SWIP567	Default values of scheduled bandwidth for mapping UL PTRS with transform precoding	TSDSI-SG1-SWIP567-[SI41]-V1.0.1-20180510	Accepted

SWIP566	Bandwidth Partitioning method for New Radio	TSDSI-SG1-SWIP566-[SI41]-V1.0.1-20180510	Accepted
SWIP565	Change Request for TS 38.214 to include fast SRS precoding	TSDSI-SG1-SWIP565-[SI41]-V1.0.1-20180510	Accepted
SWIP564	Change Request for TS 36.423 to include Open X2 Interface	TSDSI-SI41-SWIP564-V1.0.0-20180502	Accepted
SWIP563	Change Request for TS 36.806 to include eXtended evolved Node (XeN)	TSDSI-SI41-SWIP563-V1.0.0-20180502	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 = 80 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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CEN - European Committee for Standardization www.cen.eu
CENELEC - European Committee for Electro Technical Standardization
www.cenelec.eu
ETSI - European Telecommunications Standards Institute
www.etsi.eu
EC - European Commission
www.ec.europa.eu
EFTA - European Free Trade Association
www.efta.int