SESEI 3

Seconded European Standardization Expert in India

Newsletter

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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 Readers,

At the outset, I would like wish all of you a very happy healthy & prosperous new year 2017!

We are happy to bring this 3rd edition of "SESEI Newsletter Europe". In this edition, we have compiled most relevant news, articles and policy notifications around Project Priority sectors.

In this edition, you will read about the new guidelines recently being issued by the Bureau of Indian Standards, which will mandate the mobile handset manufacturers to provide display of text in 22 Indian languages on the devices from July 1, 2017. Government of India believes that introducing Indian languages in mobile phones will help in spreading the digital literacy and accelerate the process of making India a truly empowered society. BIS has also allowed mobile handset makers time period of another one year to move from an older standard certifying batteries to a new one, which means allowing concurrent running of two battery certification standards — issued in 2012 and 2015 - till August 2017, after which only the latter one shall remain. This certainly brings some relief to the handset manufacturers.

During this quarter, India submitted its comments to Draft Commission Delegated Regulation setting out scientific criteria for the determination of endocrine-disrupting properties pursuant to Regulation. The government may impose anti-dumping duty on imports of certain flat steel products from China and European Union to protect the interest of domestic players from cheap in-bound shipments. The Quality Council of India has asked the Small and medium enterprises (SMEs) to step up quality of products and services in order to bag private and government supply contracts.

BIS has also issued its first draft of the Smart City indicators as prepared by the Civil Engineering Divisional Council (CED). The necessary guidance for this Indian Standard has been derived from 'ISO 37120:2014 Sustainable Development of Communities: Indicators for city services and quality of life'.

We are also happy to share the news about the recent signing of MoU between Pune Smart City Development Corporation (PSCDCL) with European Business Technology Centre as the Knowledge and technology Cooperation Partner for the Pune Smart City project. This shall certainly help leveraging European Smart City solutions for the Pune Smart City project and possibly many more Cities under India's SMART City Mission Program. Similarly, the Union Territory Administration of Chandigarh signed a memorandum of understanding (MoU) with the Agence Francaise Development (AFD) of France for technical cooperation in the field of sustainable urban mobility.

Ministry of Urban Development (MoUD) has also announced spending of $580 million, to upgrade the infrastructure of the first 20 cities selected under Prime Minister Modi's smart cities mission program.

The automotive sector, is brimming with exciting news, the Automotive Research Association of India, is developing standards on how 'end of life' vehicles need to be brought to rest and supporting the industry by way of standardising such centres in multiple states, where end of life vehicles' requirement could be met. While safety measures still seems to be an option for India as per the Global NCAP (New Car Assessment Program), It appears to be official that Govt. is firm introducing BS-VI norms in India in 2020.

India has already overtook the United States in 2016 to become the world's second-largest smartphone market with an installed base of 275 million devices. As per the latest GSMA intelligence report, India is expected to see one billion unique mobile subscribers by 2020. Ministry of Health and Family Welfare has invited Expression of Interest for Design, Development, Integration, Deployment, Implementation and Maintenance of Integrated Health Information Platform (IHIP). In order to take care of massive growth of M2M/IoT Department of Telecom (DoT) plans to implement 11 digit numbering plan and due to high base price as expected bidders neglected 700 MHz spectrum in recently held auction. To modernize the information technology (IT) infrastructure of government departments, the ministry of electronics and IT is preparing a model framework to enable them to access cloud-based services from empaneled service providers. Telecom regulator TRAI also floated a no of consultation paper covering subjects such as M2M, Broadcasting, and spectrum.

In order to push further make in India program Ministry of Electronics & IT plans is all set to amend the key programme of the government, aimed at boosting electronic manufacturing, is set for a revamp after a prolonged tussle between the Department of Electronics and Information Technology and the finance ministry led to scores of investment proposals getting stuck. Solar power generation capacity of 4.8 GW is likely to be added this year in the country. The Prime Minister also unveiled the 'Technology Vision Document 2035': The document foresees the Indians of 2035, and technologies required for fulfilling their needs. Similarly, many more interesting articles and updates around other topics project is keeping a track has been captured in our newsletter.

Lastly in our efforts to make the reading of this newsletter brief and crispier and more interesting and enjoyable, we have changed the newsletter design and it's content. We hope you will like it. We look forward to your comments and suggestions to further improvise it.

Happy Reading once again.

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Headlines of the Quarter

Standards, TBTs & IPR

Ministry approved BIS norms mandatory to provide for display of text in 22 Indian languages on the devices from July 1, 2017

The Ministry of Electronics and Information Technology (MeitY) has approved the guidelines issued by Bureau of Indian Standards (BIS), which will mandate manufacturers to provide for display of text in 22 Indian languages on the devices from July 1, 2017.

Read more

Compulsory Registration Order (CRO):

The implementation of clarification issued vide FAQ no. 42 (Part II) had been postponed till 31st December 2016 and accordingly, the power supplies for server/storage devices will be covered under the "Electronics and IT Goods (Requirement of Compulsory Registration) Order, 2012" with effect from 1st January 2017.

Read More

Handset companies get more time to follow new battery rules

India has allowed handset makers another year to move from an older standard for certifying batteries to a new one. The decision, manufacturers said, will give them enough time to comply with the rule and reduce the time required to take products to the market.

Read More

Govt. extends registration period of Stainless Steel QC order

Government today extended the window for registration under the Stainless Steel Quality Control (QC) Order 2016 by three months after several industry bodies approached the Steel Ministry on the matter.

For more information Please click here

India submitted its comments to Draft Commission Delegated Regulation

India submitted its comments to Draft Commission Delegated Regulation setting out scientific criteria for the determination of endocrine-disrupting properties pursuant to Regulation (EU) No 528/2012.

For more information including comments from India please click here

Antidumping duty likely on certain steel products from China, EU

The government may impose anti-dumping duty on imports of certain flat steel products from China and European Union to protect the interest of domestic players from cheap in-bound shipments.

For more information please click here

Quality standards soon for SMEs to bag private and government contracts: Government of India

For more information Please click here

Smart Cities

BIS has issued draft standard 'SMART CITIES - INDICATORS' LCS 13.020.20 in Wide Circulation for eliciting public comments:-

For copy of the draft standard please click here

India to spend $580 Million to develop First 20 'smart cities'

India's government will provide 40 billion rupees ($580 million) to upgrade the infrastructure of the first 20 cities selected under Prime Minister Narendra Modi's smart cities program, according to a statement from the Ministry of Urban Development on Saturday.

For more information Please click here

Pune signs MoU with European Business and Technology Centre

The Pune Smart City Development Corporation (PSCDCL) has signed a two-year Memorandum of Understanding with the European Business and Technology Centre (EBTC).

For more information Please click here

Chandigarh signs MoU with French body

The UT Administration on Friday signed a memorandum of understanding (MoU) with the Agene Francoise Development (AFD) on technical cooperation in the field of sustainable urban mobility during a workshop, "Chandigarh Smart City", held in Chandigarh on Friday.

For more information Please click here

India-EU dialogue event held on smart cities

Heidelberg University, EU STI Platform and BayIND in Collaboration with Indo-German Chamber of Commerce, CNRS, GIZ, Fraunhofer India and SPA, Delhi organize an event to discuss SMART CITIES:

For more information please **click here**

Automotive

ARAI is developing Norms for 'End of Life ' Vehicles

The Automotive Research Association of India (ARAI) is developing norms or standards for 'end of life' vehicles in India. The term 'end of life' indicate to vehicles which are over 15 years old and requires to be scrapped due to newer technologies which have made the vehicles obsolete.

Telecommunications and automotive players form global cross industry "5G automotive association"

AUDI AG, BMW Group, Daimler AG, Ericsson, Huawei, Intel, Nokia and Qualcomm Incorporated, on Tuesday announced the formation of the "5G Automotive Association". The association will develop, test and promote communications solutions, support

For more information Please **click here**

standardization and accelerate commercial availability and global market penetration.

For more information Please click here

"Safety still an option" in India - Global NCAP

Just-auto gives its paid members access to the very best automotive market coverage. And now there's just-auto plus, our premium membership that gives you exclusive component forecast data, company profiles and extended news coverage - just for premium members.

For more information Please click here

It's Official! Govt. to Introduce BS-VI Norms in India in 2020

Government of India could be seen to be taking earnest measures towards various aspects pertaining to the Indian automotive sector.

For more information Please click here

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ICT including Services

Draft Indian Standards issued for eliciting technical comments in ICT Sector at BIS:

a. LITD 17 (10695-10709) :- Conformity assessment -- Requirements for bodies certifying products, ETC

b. LITD07(3246) :- Digital Set top Box for IPTV - Specification"

c. LITD 08(10793-10796):-Higher performance protocol for the standard digital interface for programmable instrumentation – Part 1: General [Second Revision of IS10767(Pt. 1)], etc.

Ministry of Health and Family Welfare has invited Expression of Interest for Design, Development, Integration, Deployment, Implementation and Maintenance of Integrated Health Information Platform (IHIP).

The details can be downloaded from the following link **here**

New GSMA study Projects Almost one Billion Mobile subscribers in India by 2020

India is expected to see a significant uptake in mobile subscriptions, broadband and connectivity by 2020, marking a period of rapid development of the country's mobile economy, according to a new GSMA Intelligence study published today.

For more information Please click here

India's online population to touch 500 million by 2020: Google

"India's online population will reach 500 million by 2020 with majority of them being local language users," Chitranshi said while addressing IT students at Rajiv Gandhi Proayogiki (Technology) Vishwavidyalaya (RGPV) here**.**

For more information Please click here

Department of Telecom (DoT) to implement 11 digit mobile numbering system?

The Department of Telecom (DoT) has decided to rule out 10-digit mobile numbers and is considering to implement an 11-digit numbering system soon.

As per a report published in Zee News, the DoT is soon to launch the 11-digit mobile numbers for phone operators.

For more information Please click here

Bidders neglect 700 MHZ spectrum in telecom auction, TRAI to review price

Indian Government had put the 2,354.55 megahertz of mobile wireless transmission groups like 700MHz, 800MHz, 900MHz, 1800MHz, 2100MHz, 2300MHz and 2500MHz for the biggest auction of telecom department and has planned to acquire at least 5.63 lakh crore profits from the sale, especially from 700MHz band.

For more information Please click here

IT ministry preparing cloud-based services framework to help govt. departments for Digital India push

To modernize the information technology (IT) infrastructure of government departments, the ministry of electronics and IT is preparing a model framework to enable them to access cloud-based services from empanelled service providers. This comes at a time when the Indian networks are under threat with security **breaches** feared in its banking system.

For more information Please **click here**

TRAI floats consultation paper on:

a. delicensing airwaves for M2M communication
b. infra sharing in broadcast distribution services
c. on Spectrum Usage Charges and Presumptive Adjusted Gross Revenue on Review of network related Quality of Service standards

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Electrical Equipment including Consumer Electronics

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

* ETD 11 (10983) :- Secondary lithium-ion cells for the propulsion of electric road vehicles – Part 2: Reliability and abuse testing

* ETD 11 (10982) :- Secondary lithium-ion cells for the propulsion of electric road vehicles – Part 1: Performance testing

* ETD 11 (10988) :- Secondary cells and batteries containing alkaline or other Non-acid electrolytes – Sealed nickel-metal hydride Prismatic rechargeable single cells

* ETD 11 (10987) :- Secondary cells and batteries containing alkaline or other Non-acid electrolytes – Secondary lithium cells and batteries for use in industrial applications

* ETD 11 (10986) :- Secondary cells and batteries containing alkaline or other non-acid electrolytes – Mechanical tests for sealed portable secondary cells and batteries

- ETD 11 (10984) :- Electrically propelled road vehicles —Dimensions and designation of secondary lithium-ion cells

- ETD 11 (10981) :- Safety requirements for secondary batteries and battery installations – Part 4: valve-regulated lead-acid batteries for use in portable appliances

- ETD 11 (10979) :- Safety requirements for secondary batteries and battery installations – part 2: stationary batteries

- ETD 11 (10976) :- Secondary batteries (except lithium) for the propulsion of electric road vehicles – part 4: safety requirements of nickel-metal hydride cells and modules

- ETD 11 (11018) :-Secondary cells and batteries containing alkaline or other non-acid electrolytes – portable sealed rechargeable single cells part 1: nickel-cadmium (First Revision of IS 16048 –

- ETD 11 (10977) :- Secondary cells and batteries – monitoring of lead acid stationary batteries – user guide

- ETD 11 (10980) :- Safety requirements for secondary batteries and battery installations – part 3: traction batteries

- ETD 46 (11026) :- IEEE Application Guide for IEEE Std 1547™, IEEE Standard for Interconnecting Distributed Resources with Electric Power Systems

- ETD 46 (11027) :IEEE Guide for Monitoring, Information Exchange, and Control of Distributed Resources Interconnected with Electric Power Systems

- ETD 46 (11017) :-IEEE Recommended Practice and Requirements for Harmonic Control in Electric Power Systems

- ETD 46 (11021) :- IEEE Standard for Interconnecting Distributed Resources with Electric Power Systems

- ETD 46 (11028) :- IEEE Guide for Design, Operation and Integration of Distributed Resource Island Systems with Electric Power Systems

- ETD 46 (11029) :-IEEE Recommended Practice for Interconnecting Distributed Resources with Electric Power Systems Distribution Secondary Networks

- ETD 46 (11030) :- IEEE Guide for Conducting Distribution Impact Studies for Distributed Resource Interconnection

- ETD 46 (11025) :- IEEE Standard Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems

- ETD 34 (11033) :- Instrument Transformers - Part 100 Guide for application of current transformers in power system protection

- ETD 08 (11040) :-High-Voltage Switchgear and Control gear Part 200 AC metal-enclosed Switchgear and Control gear for rated voltages above 1 kV up to and including 52 kV (first revision)

- ETD 08 (11041) :- High-Voltage Switchgear and Control gear Part 201 AC solid- insulation enclosed Switchgear and Control gear for rated voltages above 1 kV up to and including 52 kV (first revision)

- ETD 08 (11046) :- High-Voltage Switchgear and Control gear Part 203 Gas insulated metal-enclosed Switchgear for rated voltages above 52 kV (first revision)

- ETD 08 (11047) :- High-Voltage Switchgear and Control gear Part 207 Seismic qualification for gas insulated Switchgear assemblies for rated voltages above 52 kV (first revision)

- ETD 03 (11058) :- IEC 60247: 2004 Insulating liquids - Measurement of relative permittivity, dielectric dissipation factor (tan d) and d.c. resistivity

- ETD 19 (11086) :-Insulation coordination for equipment within low-voltage systems –Part 2-2: Interface considerations – Application guide

- ETD 19(11087) :- Draft Amendment No.1, To IS/IEC 60270 : 2000 High-Voltage Test Techniques – Partial Discharge Measurement

- ETD 19 (11085) :-High voltage test techniques – Measurement of partial discharges by electromagnetic and acoustic methods

- ETD 19 (11084) :- High-voltage test techniques for low-voltage equipment – Definitions, test and procedure requirements, test equipment

- ETD 03 (11062) :-IEC 60897 : 1987 Methods for the determination of the lightning breakdown voltage of insulating liquids

- ETD 03 (11063) :- IEC 60944 : 1988 Guide for the maintenance of silicone transformer liquids

- ETD 03 (11070) :- IEC 60963 : 1988 Specification for unused polybutenes

- ETD 03 (11071) :- IEC 61065 : 1991 Method for evaluating the low temperature flow properties of mineral insulating oils after ageing

- ETD 03 (11072) :- IEC 61144 : 1992 Test method for the determination of oxygen index of insulating liquids

- ETD 03 (11073) :- IEC 61197 : 1993 Insulating liquids - Linear flame propagation - Test method using a glass-fibre tape

- ETD 03 (11074) :- IEC 62021-1 : 2003 Insulating liquids - Determination of acidity - Part 1 : Automatic potentiometric titration

- ETD 03 (11075) :- IEC 62021-2 : 2007 Insulating liquids - Determination of acidity - Part 2 : Colorimetric titration

- ETD 03 (11076) :- IEC 62021-3 : 2014 Insulating liquids - Determination of acidity - Part 3 : Test methods for non-mineral insulating oils

- ETD 03 (11082) :-IEC TR 62036 : 2007 Mineral insulating oils - Oxidation stability test method based on differential scanning calorimetry (DSC)

- ETD 03 (11083) :- IEC TR 62874 : 2007 Guidance on the interpretation of carbon dioxide and 2-furfuraldehyde as markers of paper thermal degradation in insulating mineral oil

- ETD 03 (11061) :-IEC 60836 : 2015 Specifications for unused silicone insulating liquids for electro technical purposes

- ETD 03 (11123):- IEEE C57.147 : 2008 Guide for Acceptance and Maintenance of Natural Ester Fluids in Transformers

- ETD 11 (10978) :- Safety requirements for secondary batteries and battery installations – Part 1: General safety information'

- ETD 11 (10983) :- Secondary lithium-ion cells for the propulsion of electric road vehicles – Part 2: Reliability and abuse testing

- ETD 16 (6824) :- Outdoor / Indoor type, insulated liquid immersed distribution transformers Upto and including 2500 kVA, 33 kV – specification (part 2: Ester fluid immersed)

- ETD 29 (10738) :- Draft AMENDMENT NO. 2 TO IS 11548:1986 CAPACITORS FOR SURGE PROTECTION FOR USE IN VOLTAGE SYSTEM ABOVE 1000 V AND UPTO 45 kV

- ETD 16 (10665-10692) :- Power transformers – Part 4: Guide to the lightning impulse and switching impulse testing – Power transformers and reactors, etc.

- ETD 16 (10776) :- Power Transformers Part 3 Insulation Levels Dielectric Tests and External Clearances in Air

- ET 28(10851-10853) :- Draft Amendment No. 1 To IS/IEC 61730 (Part 1) : 2004 Photovoltaic (PV) Module Safety Qualification Part 1 Requirements for Construction ET 28(10851), etc.

- ETD 34/ T- 28 & 29 :- Current and voltage sensors or detectors to be used for fault passage indication purposes– Part 1: General principles and requirements Part 2: System aspects

- ETD 19 (10773) :- High-Current Test Techniques – Definitions And Requirements For Test Currents And Measuring Systems

- ETD 34 (10775) :- Amendment No. 1 to IS 16227 (Part 5): 2015/ IEC 61869-5: 2011 Instrument Transformers - Part 6 Additional general requirements for low-power instrument transformers

- ETD 28(10802-10808) :- Photovoltaic devices – Part 2: Requirements for photovoltaic reference devices (Second Revision of IS 12762 (Part 2)), etc.

M-SIPS for electronic manufacturing set for revamp over Finance Ministry's subsidy concerns

A key programme of the government, aimed at boosting electronic manufacturing, is set for a revamp after a prolonged tussle between the Department of Electronics and Information Technology and the finance ministry led to scores of investment proposals getting stuck.

For more information Please click here

'India likely to add 4.8 GW solar power capacity this year'

Solar power generation capacity of 4.8 GW is likely to be added this year in the country as installations are picking up, says a report. The report by Mercom Capital Group also said that power distribution companies continue to be a "drag" since they are showing reluctance to buy solar energy amid low electricity prices.

For more information Please click here

Notification No. 22/2015-2020: C.I.F. value of Import of consumer electronic items at any one time by any person through port or otherwise for personal use is enhanced to Rs.50,000; Government of India.

For more information Please click here

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R&D and Innovation

Technology Vision Document 2035

The Prime Minister unveiled the 'Technology Vision Document 2035': The document foresees the Indians of 2035, and technologies

Intel and Dept. of S&T launch "Innovate for Digital India Challenge 2.0"

In an attempt to create a sustainable ecosystem of innovation in India, tech major Intel and the Department of Science and Technology on

required for fulfilling their needs. It is not a visualization of technologies that will be available in 2035, but a vision of where our country and its citizens should be in 2035 and how technology should bring this vision to fruition.

For more information please click here and here

Thursday, September 8th, announced in Hyderabad a programme called "Innovate for Digital India Challenge 2.0".

For more information Please click here

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Manufacturing / Make in India

Policy for providing preference to Domestically Manufactured Electronic Products (DMEP)

Government of India, Ministry of Electronics and Information Technology (IPHW Division): a proposal has been mooted for amendment of the policy for providing preference to Domestically Manufactured Electronic Products (DMEP) on account of difficulties in qualifying for Preferential Market Access (PMA) clause of Government procurement, despite manufacturing in India so that positive investment signals are sent to all potential investors.

A copy of the draft proposal is available here

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Energy Efficiency – Environment

India plays crucial role in Montreal Protocol talks

India at the 28th meeting of the Parties to the 1989 Montreal Protocol on Substances that Deplete the Ozone Layer also demanded transparency and more clarity for the allocation of funds to help developing countries for research and development for smooth technological transition without any delay.

For more information Please click here

Paris Agreement (on Climate Change)

The Union Cabinet has given its approval to ratify the Paris Agreement (on Climate Change) on 2nd October 2016, the day of Gandhi Jayanti. India's decision to ratify the agreement will take the number of cumulative level of emission of countries that have ratified the agreement so far to 51.89%.
For more information Please Click here

Central Pollution Control Board has come out with the Guidelines on Implementation of E-Waste (Management) Rules, 2016. Copy of rules are available here

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EU-INDIA/Trade-FTA/Investments

India, EFTA to resume FTA talks in Geneva

India and the EFTA, a bloc of four European countries including Switzerland, will resume the long—stalled negotiations for a proposed free trade agreement this week in Geneva to iron out differences.

For more information Please click here

Germany pitches for resumption of Indo-EU FTA talks

Germany today pitched for immediate resumption of negotiations between India and European Union on the long-pending free trade agreement and sought a "modern" investment protection pact under its framework.

For more information Please click here

India to push for WTO trade facilitation deal in services

India will present proposals to the World Trade Organization on ways to ease trade in services, Commerce Minister Nirmala Sitharaman said on Wednesday, as Asia's third-largest economy seeks to leverage one of its competitive strengths.

For more information click here

Cabinet approved MoU between India and European Union on water cooperation

The MoU envisages strengthening the technological, scientific and management capabilities of India and the European Union in the field of water management on the basis of equality, reciprocity and mutual benefit.

For more information click here

Cabinet approved MoU between India and Hungary on cooperation in the field of water management:

It will enhance bilateral cooperation in the field of water management, on the basis of equality and mutual benefits. Both the countries will get benefited by joint activities and mutual exchange of scientific delegations and experts in the field of water resources development and management.

For more information click here

Cabinet approved Bilateral Technical Arrangement between India and Switzerland on the identification and return of Swiss and Indian Nationals:

Conclusion of the Bilateral Technical Arrangement (BTA) has been linked to the Visa Free Agreement for holders of Diplomatic passports as a package deal. The BTA essentially aims to formalize the existing procedure for cooperation on the return of irregular migrants between the two countries without introducing any additional obligations or exacting timeframes.
For more information click here

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Invest India

India Now world's #155 in Ease Of starting A Business

The World Bank today issued its Doing Business report, which has pushed India's ranking of Distance to Frontier to 131 from a revised rank of 134 in 2015.

For more information Please click here

Events:

IoT India Expo 2017 : From 8 – 10 FEBRUARY 2017 at Pragati Maidan, New Delhi, India

Internet of Things (IoT) will revolutionize, transform & create business opportunities for industries to become connected to an extent that has never been possible before. The Internet of Things is creating a new world, a quantifiable and measureable world, where people and businesses can manage their assets in better informed ways.

For more information please click here

India Smart Grid Week (ISGW) 2017: From 07 – 10 March 2017 at Manekshaw Center, New Delhi, India

India Smart Grid Forum (ISGF) is pleased to announce India Smart Grid Week (ISGW) 2017 scheduled from 8 – 10 March, 2017 at Manekshaw Center, Dhaula Kuan, New Delhi, India. Third edition of ISGW is planned as a Conference cum Exhibition that 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 area. For more information please click here

Smart Cities India Awards 2017: On 12 May, 2017 at Pragati Maiden, New Delhi.

Smart Cities India Awards is an annual event designed to felicitate, recognize and encourage individuals, policy makers, companies, government bodies and associations working behind the successful execution of the mammoth dream of developing 100 smart cities and rejuvenation of 500 cities in India. The award recognizes pioneering projects that aim to make cities more liveable, sustainable and economically viable by honoring best practices and models in the smart cities concept. The objective is to foster the development of future cities enhancing quality of life, innovation, competitiveness and efficient management.

For more information please click here

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.

SESEI

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EFTA - European Free Trade Association
www.efta.int