

Quarterly Report No 8

Standards, Policy and Regulation

(January – March' 2018)

April' 2018

SESEI 3 – Dinesh Chand Sharma

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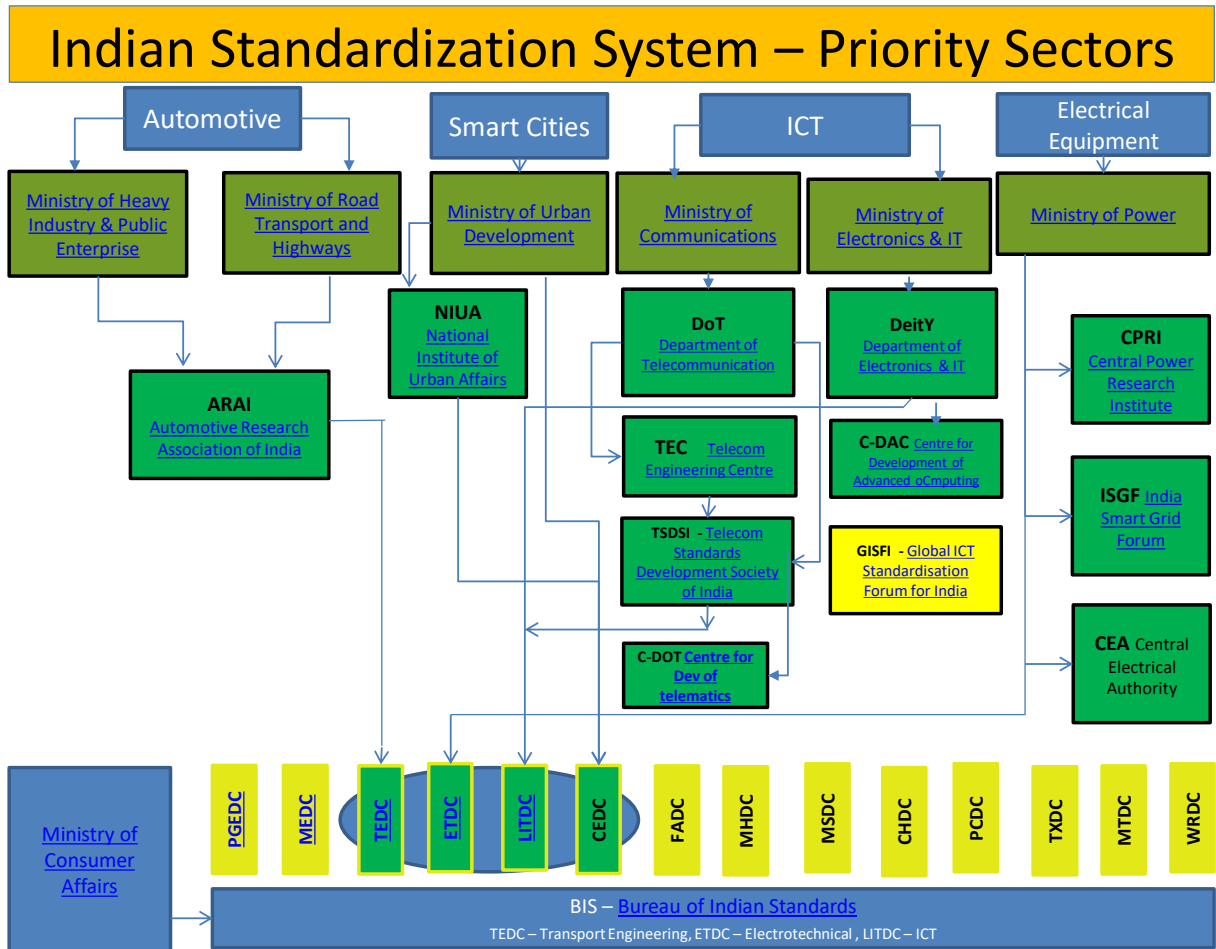
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Indian Standardization System

A pictorial view of the Indian Standardization System around Priority Sectors of SESEI is shown below;



For more information on the Indian Standardization System, please refer to our earlier report made available [here](#)

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1. Executive Summary

The 8th quarterly report for the period of January 2018 to March 2018 is presented here for information and providing update on the standardization and policy/legislation around Project Priority Sectors covering Automotive, Smart Cities, ICT and Electrical Equipment including consumer electronics. Report also covers a brief update on important meetings and event addressed by SESEI expert in the first section of the report and for more information on these including list of queries, please refer Activity Tracker report submitted as “Annexure -1_Activity Tracker Quarterly Report No 8” to this report.

The rapid growth of the Indian economy, its size and emerging relevance in global trade, make it essential to establish a robust ‘Quality Infrastructure’ in India with a harmonized, dynamic, and mature standards ecosystem. This would fuel economic growth and enhance the ‘Make in India’ label.

Standards have been widely recognized as catalysts for technical development, industrial growth, well-being of the society and more recently for convergence of new and emerging technologies. India is accordingly evolving strategies to synergize standardization work with technological, social and economic development at the national level as well as to influence global standardization efforts. In this context a **Draft Indian National Strategy for Standardization (INSS)** paper has been released by Department of Commerce. The Strategy considers the current state of development across sectors, the existing quality infrastructure and the policy directions in relation to domestic economic developments and trade in goods and services.

Like the introduction of the new BIS Act, Cabinet has approved the introduction of the **Consumer Protection Bill, 2017/2018**, to amend the Consumer Protection Act, 1986. The new Act is focused on faster redressal of consumer grievances and to ensure stringent action against unfair trade practices, the Bill seeks to enlarge the scope of the existing Act and proposes stricter actions against misleading advertisements and food adulteration.

Under **Smart City Sector**, updates of the various activities have been provided in this report in which most important being selection of the remaining 9 cities and taking the total count to 99 cities under Smart Cities Mission Project. Ministry of Urban Development has also introduced Liveability Index Programme in cities to measure quality of life in these identified 99 smart cities, capital cities and those having a population of over one million. Also, a MoU has been signed between India and Germany on “Implementation Agreement in Sustainable Urban Development and Smart Cities in India”.

In **Electrical Sector**, Ministry of Power is making further amendments in the Electricity Act to explicitly fix 24x7 power supply obligation on electricity distribution licensees, streamline the power distribution, and levying hefty penalties for load shedding. It is also very encouraging to know that 250K smart meters would be installed in Delhi by the state govt and Tata Power and It is expected that by 2025, 1.6 Million smart meters would be operational.

In **Automotive Sector**, Govt. has announced a Draft National Auto Policy for comments, which seeks to promote clean and safe mobility and adopt a long-term roadmap to harmonize emission standards with global benchmarks by 2028. The Society of Indian Automobile Manufacturers (SIAM), has also forecasted 100 percent of new electric vehicle sales by 2047. Government is targeting a fully electric fleet for public transport, including buses, taxis and auto-rickshaws under its second phase of FAME

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(Faster Adoption and Manufacturing of Hybrid and Electric vehicles) India scheme. Automotive Research Association of India (ARAI) is also working on building a facility that will test EV batteries which is a key part of e-Mobility. ARAI has also announced its plan for building the e-mobility Centre of excellence (CoE) to test all set of vehicles from two-wheelers to buses.

In the **ICT sector**, Ministry of Communication is actively engaged in the working on new policies and guidelines covering National Telecom Policy may be called as National Digital Communication Policy and M2M/IoT Service Provider Guidelines. The guidelines on M2M are expected to facilitate the roll out of internet of things (IoT) technology in the country. The Communication Ministry has also set up a high-level forum (HLF) and various Task Force under this HLF to work on 5G roadmap so that India gets access to the next generation technology timely. The ministry of electronics and IT (MeitY) has also formed four committees to prepare a roadmap for the National Artificial Intelligence (AI) programme and these committees will focus on services; data platforms; skilling, reskilling and R&D; and legal regulatory and cybersecurity.

Lastly during this quarter, SESEI expert conducted 39 external meetings, 13 internal meetings, participated in 12 events, and addressed 25 industry/customer queries.

Happy reading!!!

Dinesh Chand Sharma
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Director – Standards & Public Policy



2. Key Meetings, Event Participation and Queries

SESEI expert during this quarter period (October 2017 – December 2017) carried out various important meeting, participated in many event/workshops and addressed list of queries as summarized below.

Sr. No.	Description	Total Until now	In Last Quarter
1	External Meetings	196	39
2	Internal Meetings	94	13
3	Events	111	12
	Total	401	64
4	No of Queries	140	25

Detail of few of these important meetings, event/workshop participation and queries which are essential to help achieving the objectives of the SESEI project are briefly summarized below. For detailed information on these key meetings, events/workshop participations and list of queries addressed, please refer Detailed Activity Tracker report submitted as “Annexure - 2_Activity Tracker Quarterly Report No 8” to this report.

Key Meetings:

Following are the list of key meetings which SESEI expert addressed during the last quarter period (Jan-Mar’2018).

Meetings with BIS, DoT and other Government Bodies:

- **Meeting with Telecommunication Engineering Centre (TEC) officials** to seek their participation as speaker in ETSI 3GPP ICT Security Workshop: Invited Sr DDG, DDG SMART NETWORK and DDG Security.
- **Meeting with DDG Standardization - TEC** on ETSI membership and oneM2M standards ratification: SESEI explained the formalities and process observed for the ETSI membership and the status of OneM2M adoption by TSDSI, TSDSI bye-Laws etc. Also explained EU Standardization System, how the adoption of standards is handled in EU especially from ISO/IEC/ITU/3GPP/oneM2M prospective. ETSI membership is under process, TEC is firm to address this on priority and quite hopeful to join the ETSI as a member soon.
- **Meeting with TEC Smart Cities Working Group** to discuss feedbacks received from the members and finalize the Smart Cities Design document. SESEI expert had also submitted its input to this report.
- **Meeting with TEC M2M security Working Group** to finalize the draft report based on various inputs received and test cases discussed.

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- **Attended Telecom Regulatory Authority of India (TRAI) Open House on National Telecom Policy 2018** for seeking recommendations on “Inputs for Formulation of National Telecom Policy – 2018”. SESEI expert during the open house highlighted inclusion of Standards Development on new emerging technologies by TSDSI and making ICT accessible for persons with disabilities.
- **Meeting and Presentation to senior officials of Standardization Testing and Quality Certification (STQC)** under Ministry of Electronics & Information Technology on EN 301 549 and its adoption in India
- **BIS first meeting of LITD 28 - Smart Infrastructure Sectional Committee (earlier LITDC/P 2):** BIS during its last meeting of LITD Council, held on 22 Dec 2017 decided to transform the panel LITDC/P 2 on 'Smart infrastructure' to a sectional committee as LITD 28. SESEI expert attended this First meeting of LITD 28 - Smart Infrastructure Sectional Committee (earlier LITDC/P 2). SESEI is a member of the committee and work on aligning the oneM2M and accessibility related standards.
- **Meeting with BIS officials to discuss:**
 - **Status feedback on ETSI MoU, CEN CENELEC MoU:** IRD conveyed that ETSI MoU is with department heads for their feedback and proposed changes on CEN CENELEC MoU should be okay however the final call will be taken with BIS Legal once feedback is received back from CEN CENELEC.
 - **3rd Indo-EU Conference:** BIS conveyed in principal approval to be a partner organization to the conference and suggested to send the formal proposal on it. SESEI expert sent a formal proposal and as well held meetings with head of Transport, ICT and Electrotechnical for their support towards the conference.

Meetings with EU Industry, EU project officers & officials from EU delegation in India:

- **Meeting with Belgium Company - Barco Electronic Systems Pvt. Ltd.** BARCO officials asked for a meeting to discuss the BIS issue around their product portfolio registration especially cancelation of one of its registration. Post to this meeting, SESEI met with BIS head of Certification and discussed the matter including suggested steps taken up by BARCO to resolve the non-compliance. Barco has finally received a new registration from BIS hence the matter is closed now.
- **Meeting to have informal discussion** with Prof. Brejesh Lall, from IIT Delhi and other important ICT stakeholders on oneM2M Developer tutorial, hackathon and ongoing collaboration ideas with IIT Delhi **as organized by EU-INDIA PI on ICT Standards**
- **Meeting with Mr. Maximilian Von Laer, PhD student at University of Berlin** on information and updates on the standardization process and bodies in India
- **Meeting with Mr. Gerard Owens, IP5 Coordinator,** European Patent Office and EBTC Officials during his visit to India to participate in the various seminar on IP. Meeting was held to discussion Indian Standardization System and technology development activities around new subjects covering 5G and M2M/IoT.



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- **Attended meeting of "India-EU Joint ICT Working Group" and "ICT Business Dialogue"** as organized by the EU Delegation to India jointly with Department of Telecom (DoT) and Ministry of Electronics & IT (Meity).

Meetings with Industry & Associations:

- **Meeting with the Standards Legal and Regulatory Working Group of the IoT – IET Panel**, to review the scope of work, charter and activities for the year 2018
- **5G India Conference Committee Meeting:** SESEI is a member of the 5G Conference Committee constituted for the 5G India Conference Organized by Bharat Exhibition along with 3GPP. DOT is also supporting this event in support of their 5G HLF and its Task Force on Education Awareness and Promotion of 5G technology. First meeting of the 5G Conference committee was held to discuss and debate the conference program, topics and suggested speakers:
- **5G HLF and its Task Force on Education, Awareness and Promotion Meetings:** SESEI attended the 2nd meeting of the 5G Conference Committee constituted for Awareness/ Promotion of 5G technology. SESEI is invited to Chair the Sub Group responsible for giving suggestions to host Global events in India as well participation.
- **Conference call meeting for the Finalization of m2m+IOT India Forum 2018** agenda program scheduled to be held on 30th and 31st Jan 2018 and to initiate discussions for the 6th India m2m + IOT Forum. SESEI is a Chair to this advisory group.
- **Conference call with Dr. Nirmita Narasimhan**, Director with G3ict to discuss the adoption of EN 301 549 by India
- **Meeting with Mr. Ajay Sharma**, and team of Get Me Experts. Com: for the proposal for content creation, social media and marketing for the 3rd Indo European Conference.

Meetings with Project Partners:

- **GoToMeeting call with Mr. Carmine Rizzo** and members of the ETSI/3GPP ICT Security Workshop Program Committee related to organization of ETSI TC LI and 3GPP LI meetings and workshop in India.
- **GoToMeeting call with IEC and CEN CENELEC officials** to review the presentation to be given by SESEI on behalf of CG-SEG Chairman while representing CEN-CENELEC-ETSI in the India during Smart Grid Forum 2018 as scheduled for 5th March 2018.
- **GoToMeeting with Ms Chantal Bonardi, ETSI** to understand ETSI work around the subject of Broadcasting. There is a strong interest from Indian Industry and Standardization to learn more on this subject from Standardization prospective. One of Indian Industry has also raised a query on it.

Key Event Participations:



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- **Hosted 3GPP SA3LI#68** with CDOT, COAI/IF3 from 30th January to 2nd February 2017 (India)
- **Hosted ETSI TC LI # 47** with CDOT, COAI/IF3 from 5th to 7th February 2018 (India)
- **Hosted ETSI & 3GPP Workshop on ICT Security - Policy & Standards** on 8th February 2018, Sheraton New Delhi Hotel, Saket, New Delhi
- **Attended Launch of Broadband India Forum (BIF) & Thought Arbitrage Research Institute (TARI) research report on Mobile Telephony in India “Towards a Sustainable Innovation Economy”**: A special report on Mobile Telephony in India with the focus on a Sustainable Innovation Economy, researched by Broadband India Forum (BIF) along with Thought Arbitrage Research Institute (TARI) was released.
- **Attended National Conference on Improving Accessibility** as organized by Department of Empowerment of Persons with Disabilities under the Ministry of State for Social Justice and Empowerment (Promotion of EN 301 549)
- Participated as a speaker The **5th edition of India m2m + iot Forum 2018**, organized on 30 - 31st January 2018 at India Habitat Centre, New Delhi, India (oneM2M promotion)
- Attended signing ceremony between The **Indo-German Chamber of Commerce and Infineon Technologies India Pvt. Ltd**
- Attended **Inauguration of the Exhibition on ‘German Energiewende’ – German Energy Transition and workshop** on the same
- Attended as a speaker **second IEC-IEEE World Smart Energy Standardization Coordination Workshop** organized during the India Smart Grid Week.
- Attended **“Europe-India IP Dialogue: An Enabler for Research & Innovation”, Sector Focus: Health and ICT organized by EBTC**, in its capacity as official implementation partner of the European Patent Office (EPO).
- Attended **2nd IoT India expo from 07-09 March 2018**, Pragati Maidan, New Delhi as an expert speaker
- Attended **Conference on Demystifying Indian EMC regulation 2018**: A conference on Demystifying Indian EMC regulation 2018 organized by Rohde & Schwarz (TEC developing ERs for mandatory testing and certification)
- Attended **India Meeting of 3GPP Executives on Catalysing 5G** in India as organized by COAI on behalf of 3GPP IF3. The event brought executive 3GPP leaders and international experts on 5G face to face with Government, mobile network operators and other industry stakeholders.

Key Queries addressed:

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- **Provided input to Draft response prepared for questions under study in ITU-T SG-20** covering Use Case on Smart Homes, Use case on AMI, Remote Health Monitoring, Use Cases e-call: TEC
- **Provided input to work carried out at ETSI around broadcasting** especially in the context of ATSC3.0 standards developed and Implemented by USA: VTION
- **Provided input on accessibility related work and standards as part of response to TRAI Consultation Paper** of Making ICT Accessible for Persons with disabilities: G3ict, India representative
- **Response to query on ETSI standards for Free Space Optics** or FSO which is high-speed optical wireless communication in tera herz frequencies of without optical fibre: Dr. Mahesh Uppal, ComFirst
- **Query on Green Passport program in India**, status update.: Ericsson Sweden
- **Provided input to EBG Position Paper** for 2018 on Smart Cities, M2M/IoT and Standardization Chapter: EBG India
- **Provided input making ICT accessible for persons with disabilities as part of National Telecom Policy 2018:** G3ict, India
- **Provided input on the cancellation issue of Barco product registered under CRO scheme:** Barco Electronic Systems Pvt. Ltd.
- **Provided Clarification on ETSI's technical report on cybersecurity.** N.K.Mathur Chairman, Infocom Think
- **Provided Inputs / suggestions on Budget expectation for the IoT industry in India:** IET India IoT Panel Standards Legal and Regulatory WG
- **Provided input on Procurement of BIS standards**, e.g. food, electronics, and steel standards: SESEC
- **Provided Information on Indian quality infrastructure (especially standardization and conformity assessment):** European Commission

3. Generic Update

3.1 Commerce ministry to devise national strategy on product standards

The Union Ministry of Commerce and Industry has released [draft Indian National Strategy for Standardization](#) of products and services to provide level playing field to domestic industry and adopt best global practices. The strategy will play an active role and take leadership positions to provide level playing field to domestic industry and adopt best global practices that impact market access of Indian goods and services.

Key objectives of draft strategy:



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- Positioning standards as key driver of all economic activities relating to goods and services
- Create integrated infrastructure, roadmaps and institutions for their effective management.
- Enhance competitiveness of Indian goods and services in domestic and international markets.
- Develop comprehensive ecosystem for standards development taking into account diversity of interests and expertise available.
- Provide level playing field to domestic industry and adopt best practices in standardization, conformity assessment and technical regulations.

Need for strategy:

The rapid growth of the Indian economy, its size and emerging relevance in global trade, makes it essential to establish a robust 'Quality Infrastructure' in India with a harmonized, dynamic, and mature standards ecosystem. This would fuel economic growth and enhance the 'Made in India' label. Standards have been widely recognized as catalysts for technical development, industrial growth, well-being of the society and more recently for convergence of new and emerging technologies. The strategy for standardization of products considers current state of development across sectors, the existing quality infrastructure and the policy directions in relation to domestic economic developments and for trade in goods and services.

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3.2 Cabinet approves Consumer Protection Bill 2018

The Government introduced new Consumer Protection Bill, 2018 in the Lok Sabha. The Bill replaces the Consumer Protection Act, 1986. A Consumer Protection Bill to replace the Act was introduced in 2015, but has been withdrawn post the introduction of the 2018 Bill.

Key features of the 2018 Bill include:

- **Definition of consumer:** A consumer is defined as a person who buys any good or avails a service for a consideration.
- **Rights of consumers:** Six consumer rights have been defined in the Bill.
- **Central Consumer Protection Authority:** The central government will set up a Central Consumer Protection Authority (CCPA) to promote, protect and enforce the rights of consumers.
- **CCPA will carry out the functions, including:** (i) inquiring into violations of consumer rights, investigating and launching prosecution at the appropriate forum; etc.
- **Penalties for misleading advertisement:** The CCPA may impose a penalty on a manufacturer or an endorser of up to Rs 10 lakh for a false or misleading advertisement. CCPA can also prohibit the endorser of a misleading advertisement from endorsing that particular product or service for a period of up to one year.



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- **Consumer Disputes Redressal Commission:** Consumer Disputes Redressal Commissions (CDRCs) will be set up at the district, state, and national levels.
- **Jurisdiction of CDRCs:** The District CDRC will entertain complaints where value of goods and services does not exceed Rs one crore.
- **Product liability:** Product liability means the liability of a product manufacturer, service provider or seller to compensate a consumer for any harm or injury caused by a defective good or deficient service.

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3.3 Cyber security standards for power utilities: Two BIS groups to issue norms within 6 months

Two groups at the Bureau of Indian Standards (BIS), which are currently working to review and enhance the cyber-security standards for power utilities, are likely to issue them within next six months. The Central Electricity Authority (CEA) the apex policy advisory body in the electricity sector submitted its report to Ministry of Power titled '**Cyber Security in Power System**'. In this report, it raised the red flag and communicated to the government on "a perceived lack of security built into the smart grid systems" of Indian power sector and "an urgent need to develop a cyber security framework and regulatory response to address the specific security needs of the power sector in India".

This CEA report mentioned the two groups at BIS that have been working to issue cyber security standards. The BIS informed that the first group "is currently working on the part two of Indian Standard 16335 which would consider India Smart Grid Forum (ISGF) cyber security manual as reference document". In 2015, the BIS published the part one of Indian Standard 16335 'Power control systems — Security Requirements', which specified the requirements for identification and protection of all critical assets involved in generation, transmission, distribution and trading of power.

The second group at the BIS is currently studying and exploring the adoption of IEC 62443, which has been issued by International Electrotechnical Commission, as an Indian standard. The senior government official quoted above told The Indian Express that the second group is likely to issue the adopted standard within next 6-7 months only. IEC-62443 is a series of standards that define procedures for implementing electronically secure Industrial Automation and Control Systems (IACS).

[Read more](#)

3.4 Guidelines for Certification of Capacitors as per IS 2993, IS 13340 (Part 1) and IS 13585 (Part 1)

Bureau of Indian Standards (BIS) has issued guidelines for Certification of Capacitors as per IS 2993, IS 13340 (Part 1) and IS 13585 (Part 1). This has reference to the certification of Electrical Capacitors as per IS 2993, IS 13340 (Part 1) & IS 13585 (Part 1) which have been brought under mandatory certification vide [Quality Control Order, SO 2434\(E\)](#), dated 01st August 2017 issued by DIPP. The Order comes into effect from 01 February 2018. Grouping guidelines for certification of Electrical capacitors have already been issued by CMD-III. In order to further facilitate the implementation of the Order by the Industry, the guidelines given below may be followed for Grant of Licence/ Inclusion.

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[Read more](#)

3.5 BIS signed MoUs with NSBs of 23 countries

Bureau of Indian Standards (BIS) has published details of signed Memorandum of Understanding (MoUs) with National Standards Bodies (NSBs) of 23 countries with the common aim of strengthening core activities of standardization and conformity assessment.

[Read more/Download List of countries](#)

4 SMART CITIES

4.1 Smart City Mission: Government has announced nine more cities for smart makeover

Government announced names of nine new smart cities selected in the fourth round. The latest round takes the number of cities earmarked as development for smart cities up to 99. Previously, 20 cities were selected in January 2016, 13 cities in May 2016, 27 cities in September 2016 and 30 cities in June 2017. Under the scheme, each city will get Rs. 500 crores (USD 71.42 Million) from the central govt. for implementing various projects. An equal amount, on matching basis, will have to be contributed by the state or urban local bodies. With the selection of these nine more cities, the total proposed investment in the 99 Smart City Mission has gone up to Rs. 2.04 trillion (USD 32 billion).

[Read more](#)

4.2 Liveability Index Programme in 116 cities

The Union Ministry of Housing and Urban affairs (MoHUA) also announced the commencement of the **Liveability Index Programme in 116 cities**. Liveability index is tool that aims to measure quality of life in 99 smart cities, capital cities and those with a population of over one million. It will be funded by the World Bank and ranking of these cities is expected to be ready by June 2018. IPSOS Research Private Limited in alliance with Athena Infonomics India Private Limited and Economist Group Limited were selected for assessing the liveability indices in 116 cities.

[Read More](#)

4.3 India and Germany signed a MoU on urban development and Smart Cities programme in India

India and Germany have inked MoU for "Implementation Agreement in Sustainable Urban Development and Smart Cities in India. The Agreement was signed between Ministry of Housing & Urban Affairs (MoHUA), Government of India and Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, India on behalf of the Government of Federal Republic of Germany. The objective of programme is to develop and apply concepts for sustainable urban development about provision of urban basic services and housing in selected cities and Smart Cities in India. It will also develop and apply concepts for provision of urban basic services & housing in Smart Cities Technical cooperation to support approaches in integrated planning, affordable housing and basic services. The technical cooperation



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measure will support approaches for sustainable urban development in area of integrated planning, provision of affordable housing and basic services with particular focus on water, waste water and solid waste management and mobility.

[Read more](#)

4.4 Three Indian 'Smart Cities' selected among finalists for WWF's One Planet City Challenge

Three Indian cities - Panaji, Pune and Rajkot have been selected as national finalists in the 2017-2018 edition of WWF's One Planet City Challenge (OPCC). These are amongst the 40 finalists out of the 118 cities across 23 countries that participated in the global challenge this year. In addition to being the OPCC finalist cities, Panaji, Pune and Rajkot are also among the 99 cities under Government of India's Smart City Mission, which demonstrates their commitment in undertaking progressive actions towards integrating sustainability in their initiatives. The plans and actions undertaken by these cities under the Smart City Mission resonate with the themes identified in the OPCC platform such as, renewable energy, energy efficiency, sustainable mobility, waste management and sustainable infrastructure plans. These three cities have moved on to the next phase of the challenge and will now compete for the title of National and Global Winner. [Read more](#)

4.5 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 - [Read more](#)
- Clarifications to the queries/modifications in the Screening Framework of India Smart City Program (ISCP). [Read more](#)

5 Electrical Equipment including Consumer Electronics

5.1 Government to amend Electricity Act

The government is working on amendments to the Electricity Act to levy hefty penalties on power distribution companies for load shedding and make provisions for direct subsidy transfers by states to power consumers. The Union power ministry is aiming to introduce the Electricity Act amendment bill in the budget session of parliament. At present, the Act fixes universal service obligation on distribution licensees to provide electricity to all applicants and the penalty for non-compliance can extend to up to Rs 1,000 per day of default. The amendments are proposed in the Act to explicitly fix 24x7 power supply obligation on electricity distribution licencees. The draft bill will be circulated for stakeholders' comments and later moved to the Union Cabinet for approval before being tabled in parliament.

[Read more](#)

5.2 Tata Power to install Smart Meters in Capital of India



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The Internet of Things (IoT) solution provided by Tata Power Delhi Distribution Ltd (TPDDL), a joint venture of the Delhi government and Tata Power, is set to install smart meters and also launch a mobile app for Android (to start with). In the first phase, 2.5 lakh smart meters would be installed in north and north-west Delhi. By 2025, 1.6 Million smart meters would be operational. Power theft is a huge challenge in a country like India, where the aggregate technical and commercial losses are over 20%. Pilferage by tampering with meters and distribution lines has been plaguing the sector. But the smart grid would help tackle this. TPDDL, with Omron, has developed a tamper-proof sensor that can withstand high temperature and is water- and fire-proof. The sensor detects tampering, stores the information on the meter and communicates it to a central server. It also enables the discom to disconnect power supply remotely. Wireless power sensors detect hooking and other such tampering of distribution lines. Today, residential consumption accounts for 24% of electricity produced in India, of which 75% is used for lighting and cooling. By 2021, according to the World Bank, residential consumption would surge 260%. Customer can operate their home appliances remotely by just installing a smart electricity meter and also be able to check which appliance is consuming more electricity and synchronize usage of power-hungry equipment, such as geysers, with off-peak hours, when pricing would be lower.

[Read more](#)

5.3 Ministry of New and Renewable Energy (MNRE) has released following Office Memorandums (OMs):

- Clarification in respect of Domestic Content Requirement (DCR) under the National Solar Mission [Read more](#)
- Introduction of new milestone for release of Central Financial Assistant (CFA) to Central Transmission Utility/ State Transmission Utility (CTU/STU) for development of external power evacuation systems of solar parks under the scheme for “Development of Solar Parks and Ultra Mega Solar Power Project”. [Read more](#) and for related scheme order please click [here](#)
- Compliance of WTG models to applicable CEA Technical standards for Connectivity to the Grid. [Read more](#)
- Grid Connected Roof top and Small Solar Power Plants Programme - Clarification in 'Achievement-Linked Incentive Scheme for Government Sector' - regd. [Read more](#)

6 Automotive

6.1 Government unveils draft National Auto Policy to promote green mobility

India's Department of Heavy Industry released a [draft National Auto Policy](#), which seeks to promote clean and safe mobility and adopt a long-term roadmap to harmonize emission standards with global benchmarks by 2028. The objective is to provide a long-term, stable and consistent policy regime and to have a clear roadmap for the automotive industry. The last National Auto Policy, released in 2002, was the first comprehensive policy for the automotive industry in India, created with the vision of establishing a globally competitive automotive industry in India and doubling its contribution to the economy by 2010. It also proposes to define emission standards that will be applicable after BS VI with a target of harmonizing with the most stringent global standards by 2028, across all vehicle segments, and the introduction of the new norms starting in 2026 with a two-year phase-in period. The proposed

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policy aims to drive R&D efforts in the automotive sector towards indigenous research, design and engineering in both automotive vehicles and components.

Objectives:

- The policy envisages propelling India as an automotive industry amongst the top three nations in the world.
- This is in terms of engineering, manufacturing and export of automotive vehicles and components.
- It aims at making India a globally competitive auto R&D and manufacturing hub.
- It also intends to make the automotive industry a major contributor to the country's manufacturing sector GDP.
- It is also to aid achieving the targeted objectives of green mobility.

Summary of Key Recommendations:

- Develop a comprehensive long-term roadmap for the automotive industry
- Develop a roadmap for reduction in CO2 emissions through Corporate Average Fuel Economy (CAFE) regulations
- Introduce a composite length and emissions based criterion for vehicle taxation
- Achieve harmonization of standards over the next five years
- Implement measures to increase exports of vehicles and components
- Improve skill development and training eco-system
- Harmonize AIS and BIS standards for safety-critical auto components
- Offer fiscal support for technology improvements in auto components sector
- Drive demand by expediting adoption of green mobility in the public domain
- Ensure upgrades of test facilities in alignment with technology roadmap etc.

The draft National Auto Policy is available [here](#)

6.2 SIAM released White Paper on Electric Vehicles

The Society of Indian Automobile Manufacturers (SIAM) has released a white paper on the future of electric vehicles in India, earmarking 2047 as the year when EVs will see complete adoption across the country. The consultation paper by SIAM falls in line with the Indian government's push for EVs, which targets 2030 as the year for public transportation to switch to mostly electric sources. The roadmap provided in the whitepaper presents:

- All new vehicle sales for intra-city public transport fleets to be pure electric vehicles by 2030;
- Forty percent of new vehicle sales in the country to be pure electric vehicles by 2030;
- Sixty percent of new vehicle sales in the country to employ greener technologies like hybrids & other alternate fuels by 2030; to ensure smooth phasing in of pure electric vehicles and to sustain the transition to cleaner fossil fuel vehicles, the IC engine upgradation must continue over the next decade or so. Progressively cleaner fossil fuel vehicles would be an essential stepping stone in this journey towards hundred percent pure electric;
- Finally, all new vehicle sales to be pure electric vehicles by 2047.



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In the process, the Indian automobile industry also aims to become a leading global hub for design, manufacture and export of pure electric vehicles supporting the 'Make in India' initiative."

[Read more/ Download \(White Paper\)](#)

6.3 NITI Aayog tasks seven ministries to frame guidelines to encourage the use of electric vehicles

The government's think-tank NITI Aayog has tasked at least seven ministries with framing guidelines to encourage the use of electric vehicles. It is still not clear whether the action plan or final set of guidelines will replace the FAME (Faster Adoption and Manufacturing of Hybrid and Electric Vehicles) scheme, which will end by 31 March 2018. The government's new plan suggests that it will continue to promote EVs, although it may not be in the form of a policy. The ministries that have been asked to formulate guidelines are those of heavy industries, power, new and renewable energy, road transport and shipping and highways, earth sciences, urban affairs and information technology. While the road transport ministry has been asked to form guidelines on non-fiscal incentives, public transportation and last-mile connectivity in the context of EVs and sustainable mobility solutions, the power ministry has been tasked with framing rules for charging infrastructure.

[Read more](#)

6.4 ARAI to start testing facility for EV batteries in 6 months

The Automotive Research Association (ARAI) with Ministry of Heavy Industries and Public Enterprises, Government of India has also announced its plan for building the e-mobility centre of excellence to test all set of vehicles from two-wheelers to buses. The e-mobility centre will be ready in next few months, whereas the battery testing facility will be ready in next six months. The testing body is already equipped with facilities to test EVs, motors and controllers.

As the government is putting thrust on electric vehicles, original equipment manufacturers (OEMs) are also readying their blueprint to launch electric vehicles (EV) to become future ready. Currently, Suzuki Motor with SMC, Denso Corporation, and Toshiba Corporation is setting up a lithium-ion battery plant in Gujarat. The venture is expected to be operational in 2020.

[Read more](#)

6.5 Government caps life of commercial vehicles to 20 years

The Indian government has decided to cap the life of commercial vehicles to 20 years. The rule will be effective from April 1, 2020. Vehicles such as taxis, three-wheelers, trucks, and buses registered before 2000 will cease to be registered vehicles from 2010. These vehicles will automatically be de-registered.

This policy will not cover private vehicles like cars and two-wheelers. This means that these vehicles will not be phased out after 20 years as long as they comply with emission norms. The government expects that there are at least seven lakh commercial vehicles registered before 2000 (when Bharat Stage-I emission was introduced) that will be off the road by 2020. Study say that pre-BS-I commercial vehicles emit pollutants 25 times more than the BS-IV vehicles.



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[Read more](#)

7 ICT

7.1 DoT to Issue Guidelines for M2M Communication

The Department of Telecommunications (DoT) will soon release guidelines for the introduction of machine-to-machine (M2M) communication services in India. The guidelines are expected to facilitate the roll out of internet of things (IoT) technology in the country. The DoT is currently deliberating on the recommendations made by the Telecom Regulatory Authority of India (TRAI). On September 5, 2017, the TRAI issued its recommendations on spectrum, roaming and quality of service related requirements in M2M communications. According to the TRAI's suggestions, the DoT should provide comprehensive guidelines for the import and manufacture of M2M devices in India and should issue registration guidelines for M2M service providers. Further, TRAI suggested delicensing 1 MHz of spectrum from the 867-868 MHz band and 6 MHz of spectrum from the 915-935 MHz band in order to make the roll out of M2M services smooth. It also suggested delicensing the V-band (57-64 GHz) on a priority basis.

[Read more](#)

7.2 Government expects to finalize 5G service roadmap by June

The Department of Telecom expects to finalize a roadmap for 5G services by June this year. Globally, standards around 5G are expected to be finalized this year. The telecom ministry has set up a high-level committee to work on 5G roadmap so that India gets access to the next generation technology when it is available for commercial roll-out globally. DoT is in the process of framing new numbering scheme for SIMs that will be used for machine-to-machine (M2M) communications. The 5G services is consider to focus more around M2M services like use sensors in cars and other vehicles to prevent accident, smart homes and smart cities etc.

[Read more](#)

7.3 MEITY launches Cyber Surakshit Bharat (Cyber Safe India) to strengthen Cybersecurity

The Ministry of Electronics and Information Technology (MeitY) has launched Cyber Surakshit Bharat initiative to strengthen cybersecurity ecosystem in India in line Government's vision for a 'Digital India'. It was launched in association with National e-Governance Division (NeGD) and industry partner. Cyber Surakshit Bharat is first public-private partnership of its kind. It will leverage the expertise of the IT industry in cybersecurity. The founding partners include leading IT companies such as Microsoft, Intel, WIPRO, Redhat and Dimension Data. Its knowledge partners include Cert-In, NIC, NASSCOM and FIDO Alliance and premier consultancy firms Deloitte and EY.

Objective: Spread awareness about cybercrime and building capacity for safety measures for Chief Information Security Officers (CISOs) and frontline IT staff across all government departments.

Operations: It will be operated on three principles of awareness, education and enablement.



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Training programmes: It will conduct series of training programmes across country in the next six months.

[Read more](#)

7.4 Ministry of Electronics and IT issues guidelines for series approvals of products of Products for Implementation of Electronics and Information Technology Goods (Requirements for Compulsory Registration) Order, 2012 – Phase III

The Ministry of Electronics and Information Technology (“Meity”) has issued the Guidelines for Series Approval of Products for Implementation of “Electronics and Information Technology Goods (Requirements for Compulsory Registration) Order, 2012” – Phase III (“Guidelines”) on 21st February, 2018. The guidelines highlight approvals for a series of products, out of which some are listed below:

- I. Recessed LED Luminaries
- II. Smart Watches
- III. CCTV Cameras / CCTV Recorders
- IV. Plasma / LCD / LED / Television Screen size up-to 32
- V. UPS / Inverters of rating < 10 KVA

[Read more](#)

7.5 Telecom Regulatory Authority of India (TRAI)

Recommendations:

- [Telecom regulator \(TRAI\) released white paper on measuring broadband speeds](#)
- [TRAI released Recommendations on Ease of Doing Business in Broadcasting Sector](#)

Consultation Papers on:

- [Formulation of National Telecom Policy 2018.](#)
 - TRAI also formulated the [recommendations](#) being requested by Department of Telecommunications to provide policy inputs.
- [Review of Mobile Number Portability \(MNP\) process](#)
- [Voice Services to LTE users \(including VoLTE and CS Fallback\)](#)
- ["Method of allocation of spectrum for Public Mobile Radio Trunking Service \(PMRTS\), including auction, as a transparent mechanism"](#)

8 Activities by other standards development organization in India

8.1 GISFI:

- GISFI EXTRAORDINARY SPECIAL MEETING held on February 1-2 at Vishwaniketan, Navi Mumbai



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8.2 IEEE

- Elecrama 2018 – Evolving to the New Electricity Era held on 10-14 MARCH 2018 INDIA EXPO MART, GREATER NOIDA, INDIA

9 Planned Activities for Next Quarters

- Monthly Activity Tracker, Draft Standards under WC and Bi-Weekly News/Policy,
- Release 8th (Jan – Mar'2018) & 9th edition of Quarterly report (April to June '18)
- 9th edition of Newsletter India and Europe (April to June '18)
- Participate in Important event as speaker/delegate
- Yearly Tax & Regulatory Compliance
- Conference Event Report prepare and release
- EN 301 549 adoption activities: New Hi-Level Committee on ICT for Inclusive ability at BIF: SESEI expert is Co-Chair, CDAC, MeitY, TRAI CP etc.
- 5G HLF Task Force on Education, Trials and Standardisation: SESEI expert is a member
- CEN CENELEC & ETSI MoU with BIS and CENELEC MoU with ISGF Closure
- Preparation & release of one sector profile report

10 Glossary

Sr. No.	Acronym	Expansion
1	3GPP	3rd Generation Partnership Project
2	5G	Fifth Generation
3	AIS	Automotive Industry Standards
4	AMRUT	Atal Mission for Rejuvenation and Urban Transformation
5	ARAI	Automotive Research Association of India
6	BIS	Bureau of Indian Standards
7	BS IV	Bharat Stage Emission Standards
8	CCPA	Central Consumer Protection Authority
9	CDRCs	Consumer Disputes Redressal Commissions
10	CEA	Central Electricity Authority
11	CEN	European Committee for Standardization
12	CENELEC	European Committee for Electro technical standardization



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13	CFA	Central Financial Assistant
14	CISOs	Chief Information Security Officers
15	CMD	CENTRAL MARKS DEPARTMENT
16	CO2	Carbon dioxide
17	CSIS	Computer Society India Symposium
18	DCR	Domestic Content Requirement
19	DIPP	Department of Industrial Policy & Promotion
20	DoT	Department of Telecommunications
21	EBG	European Business Group
22	EC	European Commission
23	ETSI	European Telecommunications Standards Institute
24	EVs	Electric Vehicles
25	EY	Ernst & Young
26	FAME	Faster Adoption and Manufacturing of Hybrid and Electric Vehicles
27	FIDO	Fast Identity Online
28	GDP	Gross Domestic Product
29	GHz	Gigahertz
30	GISFI	Global ICT Standardization Forum for India
31	IACS	Industrial Automation and Control Systems
32	IC	Internal Combustion
33	IEC	International Electro-technical Commission
34	IEEE	Institute of Electrical and Electronics Engineers
35	IoT	Internet of Things
36	ISCP	India Smart City Program
37	ISGF	India Smart Grid Forum
38	IT	Information Technology
39	ITS	Intelligent Transport System
40	LCD	Liquid Crystal Display
41	LED	Light Emitting Diode
42	LTE	Long Term Evolution
43	M2M	Machine-to-Machine
44	MEITY	Ministry of Electronics and Information Technology
45	MHz	Megahertz
46	MNP	Mobile Number Portability
47	MNRE	Ministry of New & Renewable Energy
48	MoHUA	Ministry of Housing and Urban affairs
49	MoU	Memorandum of Understanding
50	NASSCOM	National Association of Software and Services Companies
51	NeGD	National e-Governance Division
52	NIC	National Informatics Center



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53	NITI	National Institution for Transforming India
54	NSBs	National Standards Bodies
55	OEMs	Original equipment manufacturers
56	Oms	Office Memorandums
57	OPCC	One Planet City Challenge
58	PSBs	Public Sector Banks
59	PSUs	Public Sector Undertakings
60	R&D	Research and Development
61	SESEI	Seconded European Standardization Expert In India
62	SIAM	Society of Indian Automobile Manufacturers
63	TPDDL	Tata Power Delhi Distribution Ltd
64	TRAI	Telecom Regulatory Authority of India
65	ULBs	Urban Local Bodies
66	WWF	World Wide Fund

