

# Quarterly Report No 6

## Standards, Policy and Regulation

(July- September' 2017)

October' 2017

SESEI 3 – Dinesh Chand Sharma

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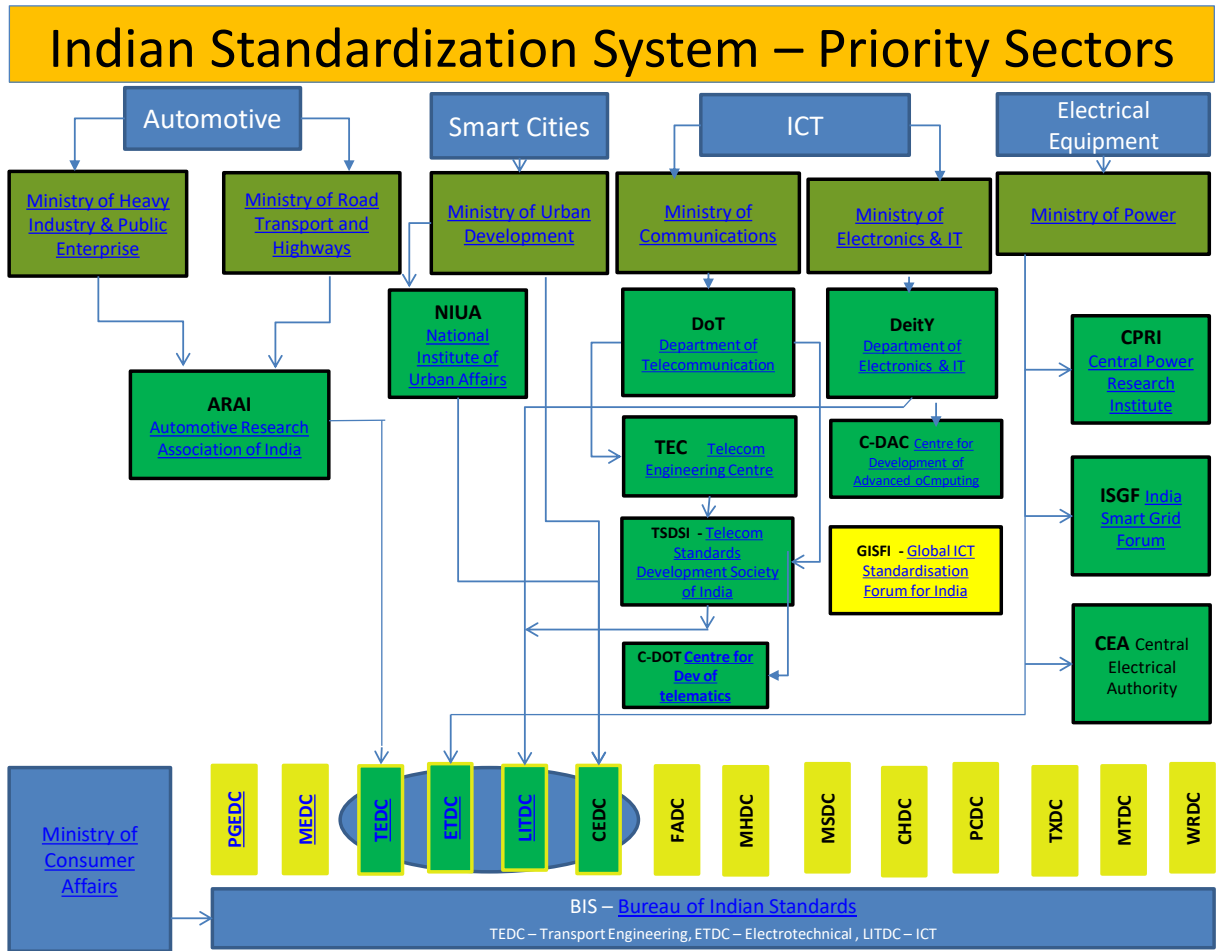
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## Indian Standardization System

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 6<sup>th</sup> quarterly report for the period of July'2017 to September'2017 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 6" to this report.

The focus of the Bureau of Indian Standards (BIS) is to create or adopt world class standards for the products and services and of the government is towards digitization of various important government initiatives to bring transparency, and ease. BIS has released guidelines for electronic labelling (e-labelling) of products covered under the Compulsory Registration Scheme (CRS), which will apply to all devices which have an integral (non-removable) display screen. The ministry of electronics and information technology (MEITY) is working on a plan to introduce stricter quality standards to prevent the sale of spurious electronic goods and block data breaches under the CRO scheme. The Government has issued Public Procurement (Preference to Make in India) Order 2017 which focuses mainly on how to encourage 'Make in India' and to promote manufacturing and production of goods and services in India with a view to enhancing Quality and employment.

In the **Smart City** sector, EU, France and UK are collaborating with the Indian government, assisting in development and creation of smart infrastructure for various Indian Smart Cities. BIS also held its sixth meeting of its panel on Smart Infrastructure (LITDC/P2).

In **Electrical Sector**, Ministry of New and Renewable Energy (MNRE), has signed an agreement with German Agency - GIZ on technical cooperation under the "Indo-German Energy Programme – Green Energy Corridors (IGEN-GEC)", to improve the sector framework and conditions for grid integration of renewable energies. MNRE Ministry has also issued an order for new set of standard specifications for solar Photo-Voltaic (PV) modules which will come into force after one year from the date of this notification. The ministry also released new rules for buying power from grid-linked solar power projects through competitive bidding under the National Solar Mission to improve transparency and standardize auctions. These guidelines cover the grid-connected solar PV power projects with a size of 5 mw and above.

The higher goals for energy are also important for realization of the **Automotive sector** for achieving mission of all electrical vehicles by 2030. The automotive industry is gearing up for a big shift from its traditional fuel vehicles to creating an ecosystem for all electrical vehicles by 2030. The electric- vehicle policy has been prepared by the Ministry and is put forward for approval by the Cabinet. In achieving this objective, the State-owned Energy Efficiency Services Ltd (EESL) invited its global bids for 10,000 electric vehicles capable to run up to 150 km on a single charge, and for use by government departments. Vital to the success of electric vehicles is also availability of adequate charging infrastructure in the area where they operate hence EESL also floated tenders for 3,000 alternating current (AC) charging points and 1,000 direct current (DC) ones.

In the **ICT sector** a Taskforce has been constituted on Artificial Intelligence (AI) for India's Economic Transformation, which will support the industry 4.0 and aims to digitize the manufacturing sector through big data, high computing capacity, artificial intelligence and analytics, etc. [Government has](#)



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[constituted High Level 5G India 2020 Forum with three Secretaries of key Ministries/Departments Telecom, Meity and DST, and also comprising of renowned experts.](#) Report also covers various consultation papers as released by TRAI including report on National Optical Fiber Network and Net Neutrality as released by Department of Telecommunication. We have also captured details around draft standards as issued by BIS technical divisions around project priority sectors and the New Item for Proposal (NIPs), Study Items (SI) and Work Items (WI) kick started work at TSDSI.

Happy reading!!!

Dinesh Chand Sharma  
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Director – Standards & Public Policy





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### 2. Key Meetings, Event Participation and Queries

SESEI expert during this quarter period (July 2017 – September 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	133	20
2	Internal Meetings	64	7
3	Events	85	13
	<b>Total</b>	<b>282</b>	<b>40</b>
4	No of Queries	88	10

Detail of few important meetings and event/workshop participation is briefly summarized below which are essential to help achieving the objectives of the SESEI project.

For detailed information on these key meetings, events/workshop participations and list of queries addressed, please refer Activity Tracker report submitted as “Annexure -1\_Activity Tracker Quarterly Report No 6” to this report.

#### Key Meetings:

Following are the list of key meetings which SESEI expert addressed during the last quarter.

#### Meetings with BIS, DoT and other Government Bodies:

- **Fifth and Sixth meeting of ICT Panel for Smart Infrastructure @BIS - LITDC/P2:** The LITD/P2 panel at BIS is responsible for carving out standards for the ICT part for the Smart City. SESEI expert is an active member of this panel and participates to use it for sharing information, best practices & work carried out in Europe around the same sphere and accordingly updates the project stakeholders on these new developments being carried out at BIS. The main highlights of the meeting were; review of reports from the task groups, Standardization at international level, “Security Challenges in National Critical Infrastructure, etc.
- **Meeting with Head of International Relations Department, BIS:** to discuss the ETSI and CEN CENELEC MoU and organization of bilateral meeting between CCMC and BIS at the sidelines of IEC GM.
- **Meeting Electrotechnical Department at BIS responsible for Battery related standardization:** SESEI held a meeting with BIS official responsible for Battery related standardization to address an urgent query from EU industry – M/s Tiger Power facing issue with importing their product range in India. SESEI expert received this connect through Belgium Embassy for help. All necessary details



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and queries were addressed to the satisfaction of M/s Tiger Power and they could start their import process.

- **Meeting to Discuss 5G India 2020 vision:** TCOE (Telecom Centre of Excellence) under department of telecom (DoT) prepared a draft 5G India 2020 vision, which was shared with SESEI expert for possible input. During the meeting, SESEI expert shared EU updates including 5G Vision Paper of EU and other related initiatives and suggested way forward to address it and later contributed to this draft paper.
- **Meeting with new Sr DDG Telecom Engineering Centre:** SESEI expert met with new Senior DDG of TEC. The meeting was primarily requested to introduce project SESEI, its presence in India and discuss the background of TEC hosting ETSI's symposium on testing and interoperability in Bangalore at CDOT campus.
- **Meeting with DDG Networks (DDG-NT), DoT:** Meeting with DDG-NT was to discuss his interest to possibly host a workshop on latest technology through EU INDIA platform. SESEI expert took EU-INDIA ICT Project Local coordinator to explore the same.
- **TEC Meeting to discuss first draft of M2M Security Technical document:** Telecom Engineering Centre (TEC) held a meeting of its M2M Security Technical Working Group to discuss the first draft reports of Sub Groups of Security WG. SESEI expert was invited to contribute on behalf of ETSI and oneM2M. Technical Specification of oneM2M were shared to the WG for consideration and inclusion.
- **Meeting with CDOT and TEC officials:** SESEI expert held a meeting with CDOT and TEC official at CDOT Bangalore Campus and visit was carried out to check the venue and discuss the logistics for hosting ETSI symposium on Validation and Testing.

### **Meeting with Telecom Standards Development Society of India (TSDSI):**

- **Meeting with DG TSDSI:** Discuss various topics of mutual interest covering a) Background of ETSI and TSDSI cooperation, Lol and Cooperation Agreement b) EU-INDIA PI on ICT c) Project SESEI scope d) oneM2M and 3GPP adoption status by TSDSI e) TSDSI GBM promotion and participation f) TSDSI roadmap g) DoT NTP 2018 h) 5G Vision, etc. SESEI also discussed ETSI Testing & Certification workshop, LI Meeting in India and EU-INDIA Conference on Standards.

### **Meetings with EU delegates, EU project officers & officials from EU delegation in India:**

- **Meeting to discuss Technical Synergies between the Project SESEI and EU-INDIA PI on ICT standardization:** SESEI expert held a meeting with Mr. Klaus PENDL from EU Delegation and Mr. Sachin Gaur, Local coordinator of Project EU-INDIA PI on ICT Standardization to discuss topics of 5G, NTP 2018, and other ongoing activities of both the project.

### **Meetings with Industry & Associations:**



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- **Meeting of Advisory Group - India m2m + iot Forum 2018:** SESEI is the Chair of the Advisory Group of India m2m + iot Forum 2018 and attended this first meeting to discuss the agenda of the event.
- **Meetings with IET IoT Panel WG Members on Standards, Policy & Legislation:** IET IoT Chapter is organized its annual IoT India Congress, 2017 on 14<sup>th</sup>-15<sup>th</sup> Sep'2017. SESEI expert is chairing their WG on Standards, Policy & Legislation and chaired the session track on Standards. Meeting with WG members were held to discuss and finalize the White Paper and the flow of session track on Standard during the annual congress IoT India Congress, 2017.
- **Meeting with Cellular Operators Association of India (COAI):** COAI hosted its India Mobile Congress in New Delhi India from 27 to 29th Sept 2017. In this context COAI sought a meeting with SESEI expert and Mr. Sachin Gaur, Local Coordinator of EU INDIA partnership instrument on ICT Standards for ETSI and EU endorsement and possible International Speaker participation during the conference. The conference agenda was also discussed during the meeting.
- **Meeting with Mr. Bijoy Mishra, former DDG BSNL & BBNL:** Mr. Mishra is currently involved with Smart City project in Bhubaneshwar hence asked for this meeting to understand the latest about smart city activities in India and EU including standard based solutions. SESEI expert during the meeting shared latest on oneM2M standards, their adoption by TSDSI and its implementation by CDOT which has a direct relevance in smart city rollout in India based on standardized interoperable solutions.

### Key Event Participations:

Following are the list of major events, which SESEI expert participated during last quarter. For more information on these events/workshops please refer the "Activity Tracker report" submitted as "Annexure -1\_Activity Tracker Quarterly Report No 6" to this report.

- **34th MAIT Annual General Meeting:** SESEI is a member of MAIT, which engages in topics a) Green Energy b) Smart Cities c) Manufacturing/PMA d) ICT Standards e) Telecom Equipment Testing f) Conformity Assessment etc. which are also important to SESEI project. During the meeting ongoing activities around these important subject and way forward were discussed.
- **Lecture at Indian Institute of Management (IIM):** Under their Leadership Talk Series (LTS) SESEI was invited as a speaker. SESEI used this opportunity to share a detailed presentation on "EU best Practices around emerging area of Digitization".
- **Technical Forum on Smart Grid for Smart Cities India at Vellore organized with IEEE:** School of Electrical Engineering, VIT University, Vellore in association with IEEE organized a two-day seminar on Smart Grid for Smart Cities India. They invited SESEI to give a presentation on EU standards on Smart Energy Grids.





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- **IoT Innovation Conclave 2017, Bangalore:** SESEI was invited as an esteemed/Lead speaker on Session theme: "INNOVATION, EVOLUTION & UTILITY – NEXT GENERATION IoT OPPORTUNITY IN INDIA". SESEI expert used this opportunity to share the work of oneM2M partnership Project with presentation theme as "Smart City & IoT Standardization in Europe & India".
- **29th GISFI (Global ICT Standardization forum, India) Standardization Series Meeting (GSSM):** 29<sup>th</sup> GISFI Standardization Series Meeting (GSSM) was hosted by Siksha O Anusandhan (SOA) University in Bhubaneswar, along with IEEE. GSSM was organized together with the 5G Summit with the theme of Smart City. ETSI has an LoI with GISFI and SESEI expert is regularly invited to these meetings on behalf of ETSI and asked to share the latest technology updates to their themed topics. SESEI used this opportunity to share updates around 5G, M2M/IoT and Smart Cities.
- **3rd National Summit on 100 Smart Cities India 2017:** This is an annual event of Bharat Exhibition and is endorsed by CEN, CENELEC and ETSI yearly considering its importance and credibility. SESEI expert was invited as the Distinguished Panelist in the Inaugural session themed as "Road Map for Innovations, Sustainability, Surveillance and Development for Smart Cities" and as well as Moderator to their technical session themed as "Technologies Driving "Smart Cities" and used the opportunity to share his expertise and knowledge on the key topic around the conference theme and session track related to standards and policies covering M2M/IoT & Smart Cities standards.
- **German Industry Round Table:** Ministry of Economic Affairs & Energy and Indo-German Chamber of Commerce organized an industry roundtable on "Technical & Regulatory Challenges in India for the German Industry – Identifying Possible Solutions". SESEI expert while attending the conference as a delegate also got opportunity to share a dais and moderating an exercise to consolidate list of technical & regulatory challenges faced by EU/German industry.
- **IET- IOT Congress 2017:** The IET Panel in India organized their yearly IoT Congress from 14th to 15th September 2017 at Bengaluru, Karnataka India. SESEI is a member of the IET Panel in India and Chair their WG on Standards and Policy. SESEI was actively involved in the preparation and organization of the IoT congress in India especially their session track on Standards as a Chair. SESEI along with other WG members also prepared a detailed white paper covering topics of M2M/IoT Standards, Policy & Legislation, Privacy and Security. The white paper was released during the congress. Copy of the same is available [here](#)

### Key Queries addressed:

Following are the list of major queries addressed during last quarter. For detailed response to these queries please refer the "Activity Tracker report" submitted as "Annexure -1\_Activity Tracker Quarterly Report No 4" to this report.

- Query on BIS standards, testing and certification for importing Batteries in India: Tiger Power Belgium



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- Information and overview on Railway standards used in India and what is the practice in general compared to Europe: CCMC
- Input to TRAI Consultation Paper on Data Speed Under Wireless Broadband Plan: EBG
- How to enhance / increase participation from India in IEC's Smart City System Committee: Mr. Michael Mulquin, International Electrotechnical Commission's Smart City Systems Committee
- EU activities around e-labelling of products, needed for Meity draft guidelines on this subject: MAIT
- Technical Input to TEC Report on Smart Homes
- Food/SPS and compliance to Directive 1935/2004 associated with materials and articles intended to come into contact with food applicable in EU.

### 3. Generic Update

#### 3.1 Bureau of Indian Standards (BIS) has issued its Electronic Labelling (e-labelling) Guidelines

About the electronic labelling (e-labelling) of products covered under the Compulsory Registration Scheme of BIS - any device with an integrated display screen may present the required labelling information including BIS "Standard Mark" electronically in lieu of a physical label or nameplate on the product. The guidelines shall apply to all devices which have an integral (non-removable) display screen and e-labelling of products shall not be mandatory. The Registered User shall have the option of using physical labels or e-labels or both. The requirements for e-labelling are as given below:

1. Devices utilizing e-labels shall have a physical label on the packaging of the product at the time of import, storage for sale and sale or distribution. For devices in bulk and not packaged individually, a removable adhesive label on the packaging is acceptable.
2. Devices shall not require any special accessory/tool or supplemental plug-in (e.g., the installation of a SIM/USIM card) to access the e-label.
3. The compliance related information shall be programmed by the responsible party and the information shall be secured in such a manner that third-party cannot modify it. The information can be in the firmware or software menu provided it is easily accessible and cannot be modified.
4. Users shall be able to access the information without requiring special access codes or permissions and, in all cases the information shall be accessible in no more than four steps in a device's menu.
5. Users shall be provided specific instructions on how to access the information. The instructions shall be included in the user's manual, operating instructions, or as an insert in the package of the product, or other similar means.
6. Alternately, the instructions to access the information may be available on the product related website. The instructions on how to access the website shall be provided in the user's manual or package of the product.
7. All the applicable regulatory information required on the packaging or user manual shall be provided according to the applicable rules even if it is displayed electronically.



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8. If the primary user manual or user guide is provided by other electronic media (e.g., CD or online access) this information may also be provided as part of e-label.
9. The “Standard Mark” displayed electronically shall meet all the relevant requirements of the guidelines issued by BIS vide circular reference CMD 3/8:1/6975 dated 3 Dec 2015.

[Read more](#)

### 3.2 Ministry of Electronics and Information Technology (MeitY) issued new Public Procurement (Preference to Make in India) Notification

The Government has issued Public Procurement (Preference to Make in India) Order 2017 vide the Department of Industrial Policy and Promotion (DIPP) Notification to encourage ‘Make in India’ and to promote manufacturing and production of goods and services in India with a view to enhancing income and employment.

Entities from countries where Indian suppliers are not allowed to participate or compete in bids for government procurement, may be restricted or excluded from public procurement tenders in India. Such a provision, relating to “reciprocity,” has been included in the Indian government’s new policy to encourage ‘Make in India’ by granting preference to local suppliers in public procurement.

“If a nodal ministry is satisfied that Indian suppliers of an item are not allowed to participate and/or compete in procurement by any foreign government, it may, if it deems appropriate, restrict or exclude bidders from that country from eligibility for procurement of that item and/or other items relating to the nodal ministry,” according to the Public Procurement (Preference to Make in India), Order 2017.

A five-member committee chaired by the Secretary in the Department of Industrial Policy and Promotion has been set up to oversee the implementation of the policy. The committee “may assess issues, if any, where it is felt that the manner of implementation of the order results in any restrictive practices, cartelization or increase in public expenditure and suggest remedial measures.” The members of the standing committee include secretaries of commerce and electronics & IT, and joint secretaries of expenditure department and the DIPP.

“As per the Order, the minimum local content shall ordinarily be 50%. The Nodal Ministry may prescribe a higher or lower percentage in respect of any item and may also prescribe the manner of calculation of local content. The margin of purchase preference shall be 20%,” according to an official statement.

Public Procurement (Preference to Make in India) Order 2017 may be [downloaded here](#)

In furtherance of the Order 2017 notified vide reference cited above, and in supersession of the policy for providing preference to domestically manufactured electronic products in Government procurement vide Notification No. 33(3)/2013-IPHW dated 23.12.2013 and the Electronic Product Notifications issued thereunder, the MeitY is in process of revising the product Notifications viz., Desktop PCs, Laptop PCs, Tablet PCs, Dot Matrix Printers, Smart Cards, LED Products, Biometric Access Control/ Authentication Devices, Biometric Finger Print Sensors and Biometric Iris Sensors in line with the Order 2017. [Read more](#)

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### 3.3 Government launches E-Patenting facility

The Government has launched the system of issuing e-patent certificates after a grant of the patent, by issuing a public notice. The salient features are enumerated below:-

- The patent certificate will be generated through an automated system after the patent is granted by the controller and shall be transmitted to the applicant concerned or his authorized patent agent on record to the email address recorded in the office.
- The patent certificate shall also be made available along with the status of the application concerned on the official website ([www.ipindia.gov.in](http://www.ipindia.gov.in)), so that the same may be downloaded and printed, as desired by applicants.
- The main advantages of the system are that it eliminates the delays in dispatch of patent certificates to the applicants concerned who can download and print certificates from the website, thus ushering in greater transparency. It also enables them to take further action in a timely fashion. [Read more](#)

## 4 SMART CITIES

### 4.1 Standards for Smart Cities

BIS ICT divisional council has established a Panel on Smart Infrastructure LITDC/P2 and SESEI expert is attending this panel meetings as an observer and contributing work done at EU covering oneM2M, Smart City CG etc. Panel has formed following WGs

- LITDC/P2 WG1 Smart cities
- LITDC/P2 WG2 Active Assisted Living
- LITDC/P2 WG3 Smart Energy
- LITDC/P2 WG4 Smart Manufacturing

Panel for Smart Infrastructure LITDC/P2, held its 6th meeting under the Chairmanship of Mr. Narang Kishore on 27th - 28th July 2017. Following are the major items which were discussed/presented during the meeting:  
DAY 1 - 27 Jul 2017:

- Item 5 Task groups under LITD/P2 - Detailed discussions on the reports from the task groups

DAY 2 - 28 Jul 2017:

- Item on Standardization at international level
- Item on Working groups under the panel
- Presentation by Mr. Shinto Joseph, LDRA on "Security Challenges in National Critical Infrastructure"
- Review of discussions held on the 27 July and conclusion
- Information on activities SEG 8, SEG 9 & ahG 70





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Panel convener also shared "Draft NWIP (New Work Item Proposal) for an International Standard on "Smart Cities Reference Architecture Methodology" to be proposed by India in the IEC Systems Committee on Smart Cities" which was earlier presented to all the Members of the IEC SyC Smart Cities during our Work Groups' Face-to-Face meeting in Shanghai, China from 28th June –1st July 2017 and have already garnered the required support of more than Five National Committees for this proposal. The countries who have agreed to support India's Proposal are – Japan, USA, UK, Germany, Switzerland & China. Further, they have also nominated one expert each to review the Draft Proposal, build consensus among their respective National Mirror Committees and providing their perspectives to enrich the proposal. Copy of proposal is [here](#)

The following reports were also presented to the Panel members during this meeting:

- ICT Reference Architecture for Smart Cities/Infrastructure
- Technical Requirements Analysis Report on "Last Mile Communication for M2M/IoT Applications"
- Technical Requirements Analysis Report on "Spectrum & Its Regulatory Requirements for Last Mile M2M/IoT Communication"
- Technical Requirements Analysis Report on "Common Service Layer Requirements in ICT Architecture for Smart Infrastructure"
- Actionable Insights for Smart Manufacturing in India"

### 4.2 EU devotes 1.5 billion euros for Indian infrastructural PROJECTS

EU has committed 1.5 billion euros for various developmental projects in India. The largest chunk of this funding has gone to Lucknow metro project. The aim is to match Indian cities with EU cities. The major outcome of this project has been that 12 Indian and 12 EU cities have collaborated with each other to make themselves smart. [Read More](#)

### 4.3 UK transforming Indian cities at a cost of 10 million pound

Britain is aiding three Indian cities — Pune, Amravati, and Indore — in developmental efforts, spending 10 million pounds. Britain is offering Smart Transport, Waste and Water Management, Smart Metering, Data Analytics, Environment and other solutions to India. Among many other projects which UK is supporting in India, prominent ones are the Bengaluru International Airport, the terminal 3 of the IGI Airport, Delhi, Delhi Metro Rail project, the Kolkata International Airport, the Bandra-Worli sea link, the Hyderabad Metro project etc. [Read More](#)

### 4.4 Livability Standards in Cities

The Government of India along with the various State and Local Governments is implementing several flagship Urban Missions. An overarching goal of the various missions and schemes is to make Indian cities more 'Livable'.

The Ministry of Urban Development (MoUD) has developed a set of 'Liveability Standards in Cities' to generate a Liveability Index and rate cities. The source of the Liveability Standards are the 24 features contained in the Smart City Proposals (SCPs), which have been grouped into 15 categories. These categories are part of the four pillars of comprehensive development of cities.





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- [LiveabilityStandards.pdf](#)
- [MethodologicalReportFinal.pdf](#)

### 5 Electrical Equipment including Consumer Electronics

#### 5.1 Standard at BIS

The following draft Indian Standards are under formulation at BIS, and were issued for eliciting technical comments:

Department	Description	Document No	Title of the Doc	IEC/ISO
ETD	Electrotechnical Division Council	<a href="#">ETD 32 (12040)</a>	Electric Ceiling Type Fans Specification (Fourth Revision)	IEC 61B, 61H, 61J-61B, 61H, 61J
ETD	Electrotechnical Division Council	<a href="#">ETD 33 (11233)</a>	Specification for Particular Types of Winding Wires - Part 20 Solderable polyurethane enameled round copper wire, class 155 (second revision)	IEC 55
ETD	Electrotechnical Division Council	<a href="#">ETD 20 (11951)</a>	Low-voltage electrical installations Part 8-1 : Energy efficiency	IEC 18
ETD	Electrotechnical Division Council	<a href="#">ETD 01 (11959)</a>	Recommended Practice for Monitoring Electric Power Quality	IEC
ETD	Electrotechnical Division Council	<a href="#">ETD 14 (11691)</a>	Draft Amendment No. 5 September 2017 to IS 371 : 1999 CEILING ROSES — SPECIFICATION	ISO 23-23 A,B,E,G,H,J, 34B
ETD	Electrotechnical Division Council	<a href="#">ETD 25 ( 11990 )</a>	Guide for maintenance of lifts	ISO 178
ETD	Electrotechnical Division Council	<a href="#">ETD 25 ( 11991 )</a>	Guide for maintenance for escalators and moving walks	ISO 178
ETD	Electrotechnical Division Council	<a href="#">ETD 25 (11992)</a>	Electric Traction Lifts : Part 6 Replacement of existing passenger and goods passenger lifts in existing building	ISO 178
ETD	Electrotechnical Division Council	<a href="#">ETD 14 (11790)</a>	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations – General requirements	ISO 23-23 A,B,E,G,H,J, 34B
ETD	Electrotechnical Division Council	<a href="#">ETD 01 (12059)</a>	DISTRIBUTION SYSTEM SUPPLY VOLTAGE QUALITY	IEC
ETD	Electrotechnical Division Council	<a href="#">ETD 16 ( 10797)</a>	SPECIFICATION FOR FITTINGS AND ACCESSORIES FOR POWER TRANSFORMERS PART 2 ROLLERS, EARTHING TERMINALS, NEUTRAL GROUNDING BUSBAR AND SUPPORT INSULATORS	IEC 14

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ETD	Electrotechnical Division Council	<a href="#">ETD 16 ( 10800)</a>	SPECIFICATION FOR FITTINGS AND ACCESSORIES FOR POWER TRANSFORMERS PART 5 GAS AND OIL ACTUATED RELAY (BUCHHOLZ RELAY)	IEC 14
ETD	Electrotechnical Division Council	<a href="#">ETD 16 ( 10798)</a>	SPECIFICATION FOR FITTINGS AND ACCESSORIES FOR POWER TRANSFORMERS PART 3 IMPACT RECORDER	IEC 14
ETD	Electrotechnical Division Council	<a href="#">ETD 16 ( 10799)</a>	SPECIFICATION FOR FITTINGS AND ACCESSORIES FOR POWER TRANSFORMERS PART 4 FLEXI SEPARATOR Section 1 Flexi Separator (Bladder, Air Cell) Section 2 Flexi Separator Rupture Device for Conservator	IEC 14
ETD	Electrotechnical Division Council	<a href="#">ETD 03 (11756)</a>	Oil-filled electrical equipment – Sampling of gases and analysis of free and dissolved gases- Guidance (second revision)	IEC
ETD	Electrotechnical Division Council	<a href="#">ETD 01 (11727)</a>	Electrotechnical Vocabulary: Part 35 Rotating Machinery	IEC
ETD	Electrotechnical Division Council	<a href="#">ETD 01 (11726)</a>	Electrotechnical Vocabulary: Part 32 Electric Cables	IEC
ETD	Electrotechnical Division Council	<a href="#">ETD 01 (11725)</a>	Electrotechnical Vocabulary: Part 83 Measuring Relays	IEC
ETD	Electrotechnical Division Council	<a href="#">ETD 01 (11729)</a>	Electrotechnical Vocabulary: Part 60 Equipment for Explosive Atmospheres	IEC
ETD	Electrotechnical Division Council	<a href="#">ETD 01 (11730)</a>	Electrotechnical Vocabulary: Part 62 Electrical insulating solids, liquids, and gases	IEC
ETD	Electrotechnical Division Council	<a href="#">ETD 01 (11728)</a>	Electrotechnical Vocabulary: Part 54 Insulators	IEC
ETD	Electrotechnical Division Council	<a href="#">ETD 01 (11724)</a>	Electrotechnical Vocabulary: Part 83 Time Relays	IEC
ETD	Electrotechnical Division Council	<a href="#">ETD 01 (11723)</a>	Electrotechnical Vocabulary: Part 82 Elementary Relays	IEC
ETD	Electrotechnical Division Council	<a href="#">ETD 03 (11765)</a>	Insulating liquids – Oil-impregnated paper and pressboard – Determination of water by automatic coulometric Karl Fischer titration (first revision)	IEC
ETD	Electrotechnical Division Council	<a href="#">ETD 03 (11773)</a>	Guidelines for the checking and treatment of sulfur hexafluoride (SF6) taken from electrical equipment and specification for its re-use	IEC

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ETD	Electrotechnical Division Council	<a href="#">ETD 03 (11760)</a>	Mineral oil-filled electrical equipment in service – Guidance on the interpretation of dissolved and free gases analysis (third revision)	IEC
ETD	Electrotechnical Division Council	<a href="#">ETD 32 (11795)</a>	Domestic electric clothes washing machines for household use – Specification (First Revision)	IEC 61B, 61H, 61J-61B, 61H, 61J
ETD	Electrotechnical Division Council	<a href="#">ETD 49 (11832)</a>	LED Traffic Signal –Specification	no technical committee
ETD	Electrotechnical Division Council	<a href="#">ETD 16 (11842)</a>	POWER TRANSFORMERSPART 1GENERAL (Third Revision)	IEC 14
ETD	Electrotechnical Division Council	<a href="#">ETD 14 (11692)</a>	Draft Amendment No. 8, August 2017 to IS 3854 : 1999 Switches for domestic and similar purposes - Specification	ISO 23-23 A,B,E,G,H,J, 34B
ETD	Electrotechnical Division Council	<a href="#">ETD 28(11868)</a>	Photovoltaic system performance – Part 3: Energy evaluation method	IEC 82
ETD	Electrotechnical Division Council	<a href="#">ETD 28(11846)</a>	Concentrator photovoltaic (CPV) modules and assemblies – Design qualification and type approval (First Revision of IS 16228)	IEC 82
ETD	Electrotechnical Division Council	<a href="#">ETD 28(11867)</a>	ETD 28(11867) Photovoltaic system performance – Part 2 : Capacity evaluation method	IEC 82
ETD	Electrotechnical Division Council	<a href="#">ETD 28(11887)</a>	Photovoltaic (Pv) Array – On-Site Measurement Of Current-Voltage Characteristics (First Revision of IS/IEC 61829) (First Revision)	IEC 82
ETD	Electrotechnical Division Council	<a href="#">ETD 28(11893)</a>	Photovoltaic (PV) systems – Requirements for testing, documentation and maintenance – Part 1: Grid connected systems – Documentation, commissioning tests and inspection ( IEC 62446-1 : 2016)	IEC 82
ETD	Electrotechnical Division Council	<a href="#">ETD 28(11866)</a>	ETD 28(11866) Photovoltaic system performance Part 1 Monitoring (First Revision)	IEC 82
ETD	Electrotechnical Division Council	<a href="#">ETD 28(11845)</a>	Solar photovoltaic energy systems – Terms, definitions and symbols (Second Revision of IS 12834)	IEC 82

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ETD	Electrotechnical Division Council	<a href="#">ETD 28(11895)</a>	Measurement procedures for materials used in photovoltaic modules – Part 1-4 : Encapsulants – Measurement of optical transmittance and calculation of the solar-weighted photon transmittance, yellowness index, and UV cut-off wavelength IEC 62788-1-4 : 2016	IEC 82
ETD	Electrotechnical Division Council	<a href="#">ETD 28( 11896)</a>	Measurement procedures for materials used in photovoltaic modules – Part 1-5 : Encapsulants – Measurement of change in linear dimensions of sheet encapsulation material resulting from applied thermal conditions ( IEC 62788-1-5 : 2016)	IEC 82
ETD	Electrotechnical Division Council	<a href="#">ETD 28(11897)</a>	Terrestrial photovoltaic (PV) modules – Guidelines for increased confidence in PV module design qualification and type approval IEC 62941 : 2016	IEC 82
ETD	Electrotechnical Division Council	<a href="#">ETD 28(11898)</a>	Measurement procedures for materials used in photovoltaic modules – Part 1-2 : Encapsulants – Measurement of volume resistivity of photovoltaic encapsulants and other polymeric materials IEC 62788-1-2 : 2016	IEC 82
ETD	Electrotechnical Division Council	<a href="#">ETD 19(11923)</a>	Insulation Coordination For Equipment Within Low-Voltage Systems – Part 3 : Use of Coating, Potting or Moulding for protection against pollution ((Second Revision of IS 15382(Part 3))	IEC 28
ETD	Electrotechnical Division Council	<a href="#">ET 23(11926)</a>	Draft Amendment No. 6 To IS 15111 (Part 1) : 2002 Self Ballasted Lamps for General Lighting Services - Part 1 : Safety Requirements	IEC 34 , A, B, C, D

For more information on latest draft available for comment please visit <http://www.bis.org.in/sf/wcdraft.asp>

### 5.2 India issues new specifications for solar Photo-Voltaic (PV) modules

India's Ministry of New and Renewable Energy (MNRE) has issued an order for new set of standard specifications for solar Photo-Voltaic (PV) modules which will come into force after one year from the date of their notification. [This Order may be called the Solar Photovoltaics, Systems, Devices and Components Goods \(Requirements for Compulsory Registration\) Order, 2017. It shall come into force on the expiry of one year from the date of its publication in the Official Gazette,](#)” the ministry's notification said.

As per the order, under the Bureau of Indian Standards (BIS) Act of 1986, any manufacturer who manufactures, stores for sale, sells or distributes solar photovoltaics systems, devices or components will make an application to the bureau for obtaining registration for use of the ‘standard mark’ in respect of the Indian standard.

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“No person shall by himself, or through any person on his behalf, manufacture or store for sale, import, sell or distribute goods which do not conform to the specified standard and do not bear the standard mark as notified by the bureau,” the notification said. It added that nothing in the order will apply in relation to manufacture of goods meant for export.

The order also said sub-standard or defective goods which do not conform to the specified standards will be deformed beyond use and disposed of as a scrap by the manufacturer or the representative of overseas manufacturer by any agency authorised by the manufacturer as its authorised representative in the India.

It further noted that unclaimed consignment of such goods will be deformed and disposed of as scrap by any department or agency authorised by MNRE. As per the order, sample of the modules of the registered user will be drawn from his manufacturing unit or from the market by the ministry or the authorised person for ascertaining whether they conform to the specified standard.

“The samples shall be drawn at least once in two years for a product or series of products covered under the scope of registration granted,” the notification said, adding that the location and the product to be picked up shall be selected at random. [Read more](#)

### 5.3 Government implements new rules for buying solar power

The government has implemented new rules for buying power from grid-linked solar power projects through competitive bidding under the National Solar Mission to improve transparency and standardize auctions. These guidelines, prepared by the Ministry of New and Renewable Energy (MNRE), cover the grid-connected solar PV power projects with a size of 5 mw and above.

This will help in reducing off-takers risks, encourage investments, enhance bankability of projects and improve profitability for investors. The norms provide that the minimum power purchase agreement tenure (PPA) will be 25 years that will help ensure lower tariffs. Besides, unilateral termination or amendment of PPA is not allowed. The issues related to land, connectivity and clearances and the extension in the case of delay have been streamlined for ensuring project preparedness.

The event of default and the consequences thereof are clearly defined to ensure optimal risk sharing. There is a provision for termination compensation to increase bankability of projects by securing investment by the generator and lenders against any arbitrary termination of a PPA. The guidelines also provide for payment security mechanism. The risk of generators revenue getting blocked due to delayed payment or non-payment has been addressed through provision of Payment Security Mechanism through instruments like Letter of Credit (LC), Payment Security Fund, State Guarantee and the like.

The early commissioning and part commissioning of projects have not only been allowed, but incentivized, by way of allowing the PPA for a minimum 25 years from the scheduled commissioning date under the new norms. The penalties have been rationalized to reduce the overall cost to the generator while at the same time ensuring compliance with rules. The new framework also contains provision for force majeure. Now, the PPA would have provisions about force majeure definitions, exclusions, applicability and available relief as per the industry standards.





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The successful bidder -- if it is a single company -- shall ensure its shareholding in the SPV company executing the PPA shall not drop below 51 per cent at any point prior to one year from the commercial operation date except with the prior approval of the procurer.

Download: [Guidelines for Tariff Based Competitive Bidding Process for Procurement of Power from Grid Connected Solar PV Power Projects.](#)

### 5.4 EESL to procure 50 lakh (5 Million) Smart Meters for realization of Smart Grids in India

Energy Efficiency Services Ltd. (EESL), under the Ministry of Power, Government of India had put out a mega tender for procurement of 50 lakh smart meters, which would help in reducing AT&C losses, power theft and also help in monitoring of round the clock power supply eventually leading to greater efficiency and 24X7 power for all.

A Pre-Bid Meeting was held by EESL on 22nd August 2017 for procurement of 50 lakh smart meters which elicited a stellar response from the smart meter manufacturers, system integrators and has also excited various other stakeholders including World Bank and telecom operators etc. The interest shown by the smart meter fraternity is also evident from the participation of about 100 companies in the pre-bid meeting and is a measure of the potential which smart projects have in India.

EESL will be making the entire upfront investment as well as maintain the whole infrastructure for the next ten years. This approach has made the project feasible as most of the state utilities are not in a position for such rollouts due to their financial constraints. EESL will recover its investment from the savings accruing to the DISCOMs in subsequent years.

The meters are being procured for implementation of smart grid projects in the states of Haryana and Uttar Pradesh. These meters will help these states in not only significantly reducing their AT&C losses way of increased billing efficiency, but will completely change the way in which electrical energy is presently being consumed and paid for by the ordinary consumers. [Read more](#)

### 5.5 MNRE & German Agency GIZ Signs Agreement to Improve Framework Conditions for Grid Integration of Renewable Energies

The Ministry of New and Renewable Energy (MNRE), Government of India and Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH India on behalf of the Government of the Federal Republic of Germany signed an agreement on technical cooperation under the “Indo-German Energy Programme – Green Energy Corridors (IGEN-GEC)”. The main objective of this programme component is to improve the sector framework and conditions for grid integration of renewable energies.

This relationship between GIZ and India will result in improve market mechanisms and regulations, help us train manpower, to ensure grid stability & integration of renewables into grid and ensure safer & secure grid and a grid which can take cyber challenges”. Germany is a very reliable partner country and has been supporting India in achieving its goal for sustainable development through bilateral cooperation for almost six decades now.

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Being committed to this objective, GIZ and MNRE will work on improving market mechanisms and regulations for integration of Renewable Energies; advancing technical and institutional conditions in specified target states, regions and on a national level; adding human capacities to handle systemic (strategic, managerial, financial, technical) Renewable Energies integration in an efficient and effective manner. [Read more](#)

## 6 Automotive

### 6.1 Automotive work at BIS

Department	Description	Document No	Title of the Doc	IEC/ISO
TED	Transport Engineering	<a href="#">TED 2 (11965)W</a>	Diesel Engines – Fuel injection pumps – Tapers for shaft ends and hubs (Second Revision of IS 10478)	ISO 22
TED	Transport Engineering	<a href="#">TED 4 (11501)W</a>	Draft Amendment No. 1 To IS 11877 : 1986 Evaluation of Maximum Speed of Automotive Vehicle	ISO 22
TED	Transport Engineering	<a href="#">TED 4 (11500)W</a>	Draft Amendment No. 1 to IS 11851 : 1986 Method of Evaluation of Acceleration of Automotive Vehicles	ISO 22
TED	Transport Engineering	<a href="#">TED 4 (11499)W</a>	Draft Amendment No. 1 to IS 11850 : 1998 Automotive Vehicles – Odometer Systems – Method of Evaluation	ISO 22
TED	Transport Engineering	<a href="#">TED 4(11178) W</a>	Draft Indian Standard AUTOMOTIVE VEHICLES – NOISE EMITTED BY MOVING VEHICLES – SPECIFICATION AND METHOD OF MEASUREMENT PART 2 : OTHER THAN L2 AND L5 CATEGORY	ISO 22
TED	Transport Engineering	<a href="#">TED 4(11179) W</a>	Draft Indian Standard AUTOMOTIVE VEHICLES – NOISE EMITTED BY MOVING VEHICLES – SPECIFICATION AND METHOD OF MEASUREMENT PART 3 : L5 CATEGORY VEHICLES	ISO 22
TED	Transport Engineering	<a href="#">TED 19 (11758)</a>	ALCOHOL RESISTANT FOAM LIQUID CONCENTRATE FOR FIREEXTINGUISHING OF HYDROCARBON AND POLAR SOLVENTS FIRES IN SHIPS – SPECIFICATION	ISO 8

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TED	Transport Engineering	<a href="#">TED 19 (11742)</a>	SHIPS AND MARINE TECHNOLOGY – DECK MACHINERY – ACCOMMODATION LADDER WINCHES (SECOND REVISION OF IS 8994 AND ADOPTION OF ISO 7364:2016)	ISO 8
TED	Transport Engineering	<a href="#">TED 19 (11743)</a>	SHIPS AND MARINE TECHNOLOGY – MARINE GYRO-COMASSES (THIRD REVISION OF IS 13632 AND ADOPTION OF ISO 8728:2014)	ISO 8
TED	Transport Engineering	<a href="#">TED 19 (11741)</a>	SHIPBUILDING AND MARINE STRUCTURES – MOORING WINCHES(THIRD REVISION OF IS 5113 AND ADOPTION OF ISO 3730:2012)	ISO 8
TED	Transport Engineering	<a href="#">TED 17 (11874)W</a>	SHIPBUILDING – STRUM BOXES (Adoption of ISO 6454:1984)	ISO 8
TED	Transport Engineering	<a href="#">TED 17 (11881)W</a>	SHIP AND MARINE TECHNOLOGY – PRESSURE/VACUUM VALVES FOR CARGO TANKS (Adoption of ISO 15364:2016)	ISO 8
TED	Transport Engineering	<a href="#">TED 17 (11875)W</a>	ROLL ON/ROLL OFF SHIP-TO-SHORE CONNECTION – INTERFACE BETWEEN TERMINALS AND SHIPS WITH STRAIGHT STERN/BOW RAMPS (Adoption of ISO 6812:1983)	ISO 8
TED	Transport Engineering	<a href="#">TED 17 (11873)W</a>	SHIPBUILDING – WELDED BULKHEAD PIECES WITH FLANGESFOR STEEL PIPEWORK – PN 6, PN 10 AND PN 16 (Adoption of ISO 5625:1978)	ISO 8
TED	Transport Engineering	<a href="#">TED 17 (11872)W</a>	SHIPBUILDING – BILGE MUD BOXES FOR MACHINERY SPACES AND TUNNELS – GENERAL DESIGN CHARACTERISTICS (Adoption of ISO 5621:1984)	ISO 8
TED	Transport Engineering	<a href="#">TED 17 (11884)W</a>	SHIPS AND MARINE TECHNOLOGY – SHIP RECYCLING MANAGEMENT SYSTEMS – SPECIFICATIONS FOR MANAGEMENT SYSTEMS FOR SAFE AND ENVIRONMENTALLY SOUND SHIP RECYCLING FACILITIES (Adoption of ISO 30000:2009)	ISO 8
TED	Transport Engineering	<a href="#">TED 17 (11882)W</a>	SHIPS AND MARINE TECHNOLOGY – METHODOLOGY FOR SHIP LAUNCHING UTILIZING AIR BAGS (Adoption of ISO 17682:2013)	ISO 8
TED	Transport Engineering	<a href="#">TED 17 (11876)W</a>	SHIPBUILDING AND MARINE STRUCTURES – DECK MACHINERY – TOWING WINCHES FOR DEEP SEA USE (Adoption of ISO 7365:2012)	ISO 8
TED	Transport Engineering	<a href="#">TED 17 (11880)W</a>	SHIPS AND MARINE TECHNOLOGY – SHIP LAUNCHING AIR BAGS (Adoption of ISO 14409:2011)	ISO 8

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TED	Transport Engineering	<a href="#">TED 17 (11879)W</a>	SHIPBUILDING – FIXED JIB CRANES – SHIP-MOUNTED TYPE FOR GENERAL CARGO HANDLING (Adoption of ISO 8431:1988)	ISO 8
TED	Transport Engineering	<a href="#">TED 17 (11878)W</a>	SHIPBUILDING AND MARINE STRUCTURES – LUBRICATION NIPPLES – CONE AND FLAT TYPES (Adoption of ISO 7824:1986)	ISO 8
TED	Transport Engineering	<a href="#">TED 17 (11883)W</a>	SHIPS AND MARINE TECHNOLOGY – CERAMIC WELD BACKING FOR MARINE USE (Adoption of ISO 17683:2014)	ISO 8

## 6.2 Automotive work at Automotive Research Association of India (ARAI)

### 6.2.1 List of draft standards as published by ARAI

Following are the list of standards published by ARAI in last Quarter:

At Automotive Research Association of India (ARAI)		
Category Name	Code	Title
Automotive	Draft AIS-137 (Part 4) /D2/August 2017	<a href="#">Test Method, Testing Equipment and Related Procedures for Testing, Type Approval and Conformity of Production (COP) of Vehicles for Emissions Part-4 BSVI Emission Norms for Vehicles above 3.5ton GVW (Last date for comments: 21st August 2017)</a>
Automotive	Checklist for Amd 9 to AIS-063 /August 2017	<a href="#">Requirements for School Buses (Last date for comments: 22nd August 2017)</a>
Automotive	Draft AIS-023/August 2017	<a href="#">Automotive Vehicles - Seats, their Anchorages and Head Restraints for Passenger Vehicles of Categories L7, M2, M3 and Goods Vehicles of Category N – Specifications (Last date for comments: 4th September 2017)</a>
Automotive	Corrigendum No 1 to AIS-039 (Rev.1) (Date of hosting on website: 31st August 2017)	<a href="#">Electric Power Train Vehicles– Measurement of Electrical Energy Consumption (Last date for comments: 15th September 2017)</a>
Automotive	Draft Amd. 1 to AIS-123(Part 1) (Date of hosting on website: 31st August 2017)	<a href="#">CMVR Type Approval of Vehicles Retrofitted with Hybrid Electric System (Last date for comments: 15th September 2017)</a>

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Automotive	Draft Amd. 4 to AIS-007 (Rev. 5) (Date of hosting on website: September 2 2017)	<a href="#">Information on Technical Specifications to be submitted by the Vehicle Manufacturer (Last date for comments: September 17, 2017)</a>
Automotive	Draft Corrigendum 1 to AIS-042 (Date of hosting on website: 14th September 2017)	<a href="#">Agricultural Tractors - Steering Effort Requirements (Last date for comments: 30th September 2017)</a>
Automotive	Draft AIS-091(Part 3)/D6/18th July 2017 (Date of hosting on website: 18th July 2017)	<a href="#">Procedure for Type Approval and Establishing Conformity of Production for Safety Critical Components (Last date for comments: August 23, 2017)</a>
Automotive	Draft Amendment 8 to AIS-037 (Date of hosting on website: July 24 2017)	<a href="#">Procedure for Type Approval and Establishing Conformity of Production for Safety Critical Components (Last date for comments: August 23, 2017)</a>
Automotive	Draft AIS 137 (Part 1) /D2/July 2017 (Date of hosting on website: 25th July 2017)	<a href="#">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) (Last date for comments: 9th August 2017)</a>
Automotive	Draft AIS-137 (Part 3) /D3/July 2017 (Date of hosting on website: 25th July 2017)	<a href="#">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 (Last date for comments: 9th August 2017)</a>
Automotive	Draft AIS-137 (Part 5) /D2 July 2017 (Date of hosting on website: 25th July 2017)	<a href="#">Method of Measuring Power of Internal Combustion Engines and electric drive trains intended for the propulsion of motor vehicles with regard to the measurement of net power for categories L, M, N, Gross power for categories A and C and the maximum 30 minutes power of electric drive trains (Last date for comments: 9th August 2017)</a>
Automotive	Draft AIS-137 (Part 6) /D2/ July 2017 (Date of hosting on website: 25th July 2017)	<a href="#">Document on Administrative Procedure for Type Approval and Conformity of Production for M and N Category Vehicles, Two and Three Wheelers and CEV/Tractors/Power tiller engines. As per CMV Rules 115, 116 and 126 Part 6 - Applicable from Apr-2020 (Last date for comments: 9th August 2017)</a>
Automotive	Draft AIS 137 (Part 2)/D1/July 2017 (Date of hosting on website: 27th July 2017)	<a href="#">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) (Last date for comments: 9th August 2017)</a>



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Automotive	Draft Amd. No 2 to AIS-071 (Part 1) (Date of hosting on website: 28th July 2017)	<a href="#">Automotive Vehicles- Identification of Controls Tell-Tales and Indicators (Last date for comments: 10th August 2017)</a>
Automotive	Draft Amd. No 1 to AIS-126 (Date of hosting on website: 28th July 2017)	<a href="#">Two Wheeled Motor Vehicles - Location, Identification and Operation of Controls Tell-tales and Indicators (Last date for comments: 10th August 2017)</a>
Automotive	Draft AIS-008 (Rev.2) /D1/August 2017 (Date of hosting on website: 1st August 2017)	<a href="#">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(Last date for comments: 30th September 2017)</a>
Automotive	Draft AIS-010 (Rev.2) Part 2/D1 /August 2017 (Date of hosting on website : August 7 2017)	<a href="#">Provisions of motor vehicle headlamps emitting a symmetrical passing beam or a driving beam or both and equipped with filament, gas-discharge light sources or LED Modules (Last date for comments : September 6, 2017)</a>
Automotive	Draft AIS-010 (Rev. 2) Part 3/D1 / August 2017 (Date of hosting on website: August 7 2017)	<a href="#">Provisions concerning the Approval of Front Position Lamps, Rear Position Lamps, Stop Lamps, Direction Indicators, Rear-Registration Plate Illuminating Devices and Reversing Lamp for Vehicles of Category L and their Trailers and Semi-trailers (Last date for comments : September 6, 2017)</a>
Automotive	Draft AIS-010 (Rev. 2) Part 5/D1 /August 2017 (Date of hosting on website: August 7 2017)	<a href="#">Requirements of Chromaticity Co-ordinates of Colour of Light emitted from Lighting and Light-Signalling Devices (Last date for comments: September 6, 2017)</a>
Automotive	Draft AIS-009 (Rev.2)/D1/August 2017 (Date of hosting on website: August 7 2017)	<a href="#">Automotive Vehicles - Installation Requirements of Lighting and Light-signalling Devices for L Category Vehicles, their Trailers and Semi-Trailers (Last date for comments: September 6, 2017)</a>
Automotive	Draft AIS-057 (Rev.1)/D1 /August 2017 (Date of hosting on website: August 7 2017)	<a href="#">Performance Requirements for Retro-Reflecting Devices for Motor Vehicles and their Trailers (Last date for comments: September 6, 2017)</a>

- For complete list of draft standards please click [here](#)

### 6.3 Government to adopt & Implement automobile standards from developed countries to reduce pollution levels



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With a view to significantly bring down pollution levels, the government has decided to adopt and implement in totality the automobile standards in developed countries, union minister for shipping, road transport and highways said. The Ministry has decided to appoint a consultant to study all automobile standards for both fuel and vehicle in countries like Germany, France, UK, Sweden and implement it on the same lines in India.

All these initiatives are aimed at reducing pollution levels, promote industrial development, bring down costs, generate employment, increase economic growth and boost exports. The ministry is considering the successful practices employed internationally and willing to adopt the same, besides willingness to reform local technology and think out of box. The government is looking towards promoting use of cost effective, import substitute, pollution free and indigenous technology as such thrust is being laid upon use of electric vehicles and green fuel like ethanol. [Read more](#)

### 6.4 India will stick to its plan of having 100% electric mobility by 2030

India will stick to its plan of having 100% electric mobility by 2030, highlighted by the road transport and highways ministry. The electric- vehicle policy has been cleared by the Ministry, now NITI Aayog will send it to the cabinet for its approval.

The official year for going all electric — which means all vehicles sold from then will be electric — remains 2030. The government wants automakers to move to 100% manufacturing of electric vehicles for which it is launching a dedicated policy. The auto industry had also demanded such a policy. The NITI Aayog has prepared the document.

The auto industry had cited high cost of lithium-ion batteries used in electric vehicles as one of the major challenges. But the minister said the prices were coming down and India would stick to its plan.

Another challenge is the lack of infrastructure, especially battery charging stations, to support electric vehicles. The new policy will cover these issues. China and the UK are already working on similar policies to go all-electric. [Read More](#)

### 6.5 Government invited global bids for 10,000 electric cars

State-owned Energy Efficiency Services Ltd (EESL) has invited global bids for 10,000 electric sedans that will run up to 150 km on a single charge, for use by government departments, taking a big step to achieve goals set by power ministry of having only electric cars on Indian streets by 2030. EESL, which has led government efforts to popularize and dramatically reduce the price of energy-saving LED bulbs, plans to buy e-vehicles in two phases. It plans to acquire 1,000 vehicles in the first phase. The tender includes warranty.

Vital to the success of electric vehicles is adequate charging infrastructure in the area where they operate. EESL has also floated tenders for 3,000 alternating current (AC) charging points and 1,000 direct current (DC) ones. EESL is looking for four-door sedans, which will run 120-150 km on a single charge. The 1,000 vehicles acquired in the first phase will be exclusively for use by government departments in Delhi and the National Capital Region.

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Similarly, 400 chargers will be provided in the first phase at different locations in Delhi-NCR. They will be deployed by NTPC and PowerGrid depending on the demand. Use of electric cars has been incentivized under the Faster Adoption and Manufacturing of Electric Vehicles (FAME) scheme, which has been in operation since April 2015.

Although electric vehicles, particularly Mahindra & Mahindra's Reva, have been on sale in India for over two decades, they have never really caught on, mainly due to limited range of such vehicles on a single charge, the absence of sufficient charging points and the time taken for charging. Currently, Mahindra is the only company in the country manufacturing electrically powered sedans. The Mahindra Verito costs Rs 12-13 lakh and the vehicles sought by EESL are likely to be in the same price range.

The National Electric Mobility Mission Plan seeks 400,000 electric vehicles on India's streets by 2020. However, electric cars have a tough road to travel. Sales of electric vehicles and hybrids declined to 25,000 units in 2016-17 from 32,000 the previous year. Several states are also in talks with manufacturers to introduce electric buses for use in public transport. Electric vehicles are a part of the government's plan to reduce dependence on costly and polluting fossil fuels. [Read More](#)

### 6.6 Auto industry is racing to meet 2020 Bharat Stage VI deadline

The year 2020 will mark an important chapter in India's 67-year-old auto industry. That's when automakers will take a giant leap forward and switch to far stricter emission standards that are on par with those in the US, Japan and the European Union.

R.C. Bhargava, chairman of India's largest car maker, Maruti Suzuki India Ltd, sees the shift as "natural evolution" for an industry that has come a long way since the pre-Liberalization era.

The move is aimed at curbing emission in a country that has the dubious distinction of being home to half of the 20 most polluted cities in the world, according to World Health Organization (WTO) report released in June 2016. For Indian automakers such as Mahindra and Mahindra Ltd and Tata Motors Ltd, the efforts and capabilities required to leapfrog to Bharat Stage VI—the Indian equivalent of Euro VI, is akin to climbing the Mount Everest. It's set to change the very DNA of auto companies, making them accountable for each unit of particulate matter and emission exhaled by automobiles. For car buyers, it would mean driving cleaner vehicles with advanced technology, albeit at a higher price. [Read More](#)

### 6.7 Central Motor Vehicles Notifications Released in the last Quarter

- G.S.R. 643(E): Central Motor Vehicles (10th Amendment) Rules, 2017; Government of India. [Read More](#)
- G.S.R. 633(E): Central Motor Vehicles (Ninth Amendment) Rules, 2017; Government of India. [Read More](#)



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### 7 ICT

#### 7.1 ICT work at [TSDSI](#)

##### List of New Item for Proposal at TSDSI:

New Item Proposal	Name	Version	Status
<a href="#">NIP180</a>	WI proposal for eMBMS support for NSA	TSDSI-SG-Networks-NIP180-V1.0.0-20171025	Accepted
<a href="#">NIP179</a>	400Khz NB-IOT Specification	TSDSI-SG-Networks-NIP179-V1.0.0-20171025	Accepted
<a href="#">NIP178</a>	Internet Architecture Board(IAB) statement on IPv6	TSDSI-SG2-NIP178-V1.0.0-20171025	Accepted
<a href="#">NIP177</a>	LS related to the Draft New Report for IMT-2020 Evaluation	TSDSI-SG1-NIP177-V1.0.0-20171025	Accepted
<a href="#">NIP176</a>	LS for further progress in development of terrestrial components for IMT-2020 radio interface(s)	TSDSI-SG1-NIP176-V1.0.0-20171025	Accepted
<a href="#">NIP175</a>	LS on schedule for updating recommendation ITU-R M.2012 to Revision 4	TSDSI-SG1-NIP175-V1.0.0-20171025	Accepted
<a href="#">NIP174</a>	ToR for SG-Services & Solutions	TSDSI-SG02-174-V1.0.0-20170928	Accepted
<a href="#">NIP173</a>	ToR for SG-Networks	TSDSI-SG1-173-V1.0.0-20170928	Accepted
<a href="#">NIP172</a>	LS in from ITU-R dtd 27 Feb 2017 titled "Schedule for updating ITU-R M.1457 to Revision 14."	TSDSI-SG1-1-[NIP172]-V1.0.0-20170926	Accepted
<a href="#">NIP171</a>	LS from ITU-R dtd 27 Feb 2017 titled "Addendum 3 to Circular Letter 5/LCCE/59 on candidate RIT proposals for IMT-2020 and their subsequent	TSDSI-SG1-1-[NIP 171]-V1.0.0-20170926	Accepted
<a href="#">NIP170</a>	LS in from ITU-R dtd 27 Feb 2017 titled "ITU-R WP 5D Workshop on IMT2020"	TSDSI-SG1-1-[NIP170]-V1.0.0-20170926	Accepted
<a href="#">NIP166</a>	Potential conflict between the scopes of new SGs	TSDSI-SG1-NIP166-V1.0.0-20170731	Accepted

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

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### “Status update of Study Items at TSDSI”

No new Study Items (SI) introduced since last quarter. Please click [here](#) for more details

### “List of Work Item status update”

No new Work Items (WI) introduced since last quarter. For complete details of the Work Items (WI) please click [here](#) and select Work Items

### “List of SWIP Status Update”

New Item Proposal	Name	Version	Status
<a href="#">SWIP538</a>	Standalone NB-IOT TDD operations for India Deployments	TSDSI-WI1-SWIP538-[SI35]-V1.0.0-20171027	Accepted
<a href="#">SWIP532</a>	Submission of RIT or SRIT to ITU for IMT2020 evaluation	TSDSI-SI41-SWIP532-V1.0.0-20171026	Accepted
<a href="#">SWIP525</a>	Verification of Transposed TSDSI Standards	TSDSI-SG1-SWIP525-[SI54]-V1.0.0-20170901	Accepted
<a href="#">SWIP519</a>	Verification of Transposed TSDSI Standards	TSDSI-SI54-SWIP519-V1.0.0-20170828	Accepted
<a href="#">SWIP511</a>	Scope And Objectives of New WI for NB-IoT TDD	TSDSI-WI1-SWIP511-[SI35]-V1.0.0-20170731	Accepted
<a href="#">SWIP510</a>	UL/DL configurations for standalone deployments of NB-IOT TDD	TSDSI-WI1-SWIP510-[SI35]-V1.0.0-20170731	Accepted
<a href="#">SWIP501</a>	IoT Standards Transposition - Learn, Act, Strategize	TSDSI-SG2-SWIP501-[SI52]-V1.0.0-20170620	Accepted
<a href="#">SWIP500</a>	Draft TSDSI Transposed Std from 3GPP 37.571-5	TSDSI-SG1-SWIP500-[SI54]-V1.0.0-20170524	Accepted

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

## 7.2 ICT Standards at BIS

Department	Description	Document No.	Title of the Doc	IEC/ISO
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LTD	Electronics and Information Technology	<a href="#">LITD8(11945)</a>	Transitions, pulses and related waveforms – Terms, definitions and algorithms	IEC 45
LTD	Electronics and Information Technology	<a href="#">LITD8(11944)</a>	Electrical and electronic measurement equipment –Expression of performance (Second Revision) IS 9176:2017	IEC 45
LTD	Electronics and Information Technology	<a href="#">LITD 12 (12063)</a>	SAFETY REQUIREMENTS FOR RADIO TRANSMITTING EQUIPMENT- GENERAL REQUIREMENTS AND TERMINOLOGY (Second Revision)	IEC 103
LTD	Electronics and Information Technology	<a href="#">LITD 17 (11839)</a>	INFORMATION TECHNOLOGY- SECURITY TECHNIQUES – INFORMATION SECURITY MANAGEMENT – MONITORING, MEASUREMENT, ANALYSIS AND EVALUATION (First Revision)	ISO/IEC/JTC1 27-27
LTD	Electronics and Information Technology	<a href="#">LITD 17 (11840)</a>	INFORMATION TECHNOLOGY- SECURITY TECHNIQUES – INFORMATION SECURITY MANAGEMENT SYSTEMS – OVERVIEW AND VOCABULARY (First Revision)	ISO/IEC/JTC1 27-27
LTD	Electronics and Information Technology	<a href="#">LITD 04(11855)</a> <a href="#">/IEC 61747-3:2015</a>	Liquid Crystal Display Devices Part 3: Liquid Crystal Display LCD Cells – Sectional Specification [First Revision of IS15934(Part 3)]	IEC 110
LTD	Electronics and Information Technology	<a href="#">LITD 04(11854)</a> <a href="#">/IEC 61747-2:2015</a>	Liquid Crystal Display Devices Part 2: Liquid Crystal Display Modules – Sectional Specification. [First Revision of IS15934(Part 2)]	IEC 110
LTD	Electronics and Information Technology	<a href="#">LITD 04(11858)</a> <a href="#">/IEC 61747-4-1:2014</a>	Liquid Crystal Display Devices Part 4: Matrix Colour LCD Modules Section 1 Essential ratings and characteristics [First Revision of IS15934(Part 4/Sec 1)]	IEC 110
LTD	Electronics and Information Technology	<a href="#">LITD 04(11857)</a> <a href="#">/IEC 61747-4:2012</a>	Liquid Crystal Display Devices Part 4: Liquid Crystal Display Modules and Cells – Essential Ratings and Characteristics. [First Revision of IS15934(Part 4)]	IEC 110
LTD	Electronics and Information Technology	<a href="#">LITD 04(11856)</a> <a href="#">/IEC 61747-3-1:2015</a>	Liquid Crystal Display Devices Part 3: Liquid Crystal Display LCD Cells Section 1 Blank detail Specification. [First Revision of IS15934(Part 3/Section1)]	IEC 110
LTD	Electronics and Information Technology	<a href="#">LITD 04 (11791)</a> <a href="#">/IEC 61747-1-1:2014</a>	Liquid Crystal Display Devices - Part 1: Generic Section 1 Generic Specification. [First Revision of IS15934(Part 1)]	IEC 110

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LTD	Electronics and Information Technology	<a href="#">LITD 17 (3594)</a>	INFORMATION TECHNOLOGY- SECURITY TECHNIQUES – BIOMETRIC INFORMATION PROTECTION	ISO/IEC/JTC1 27-27
LTD	Electronics and Information Technology	<a href="#">LITD 17 (3595)</a>	INFORMATION TECHNOLOGY- SECURITY TECHNIQUES – SECURITY EVALUATION OF BIOMETRICS	ISO/IEC/JTC1 27-27

### 7.3 Commerce and Industry Minister Sets up Task Force on Artificial Intelligence for Economic Transformation

Commerce and Industry Minister has constituted a Task Force on Artificial Intelligence (AI) for India’s Economic Transformation. The Minister said with rapid development in the fields of information technology and hardware, the world is about to witness a fourth industrial revolution. She said driven by the power of big data, high computing capacity, artificial intelligence and analytics, Industry 4.0 aims to digitise the manufacturing sector. Smt. Sitharaman said the panel will comprise of experts, academics, researchers and industry leaders and will explore possibilities to leverage AI for development across various fields. The task force will submit concrete and implementable recommendations for government, industry and research institutions. [Read More](#)

### 7.4 Government to issue security standards for phone makers to control data theft

Concerned over theft of personal and financial data at the hands of mobile companies, especially the large number of Chinese firms, the government is set to mandate strict security and privacy guidelines and standards for device makers. The government feels that rising tensions with China may lead to a situation where critical data of individuals may be compromised, when procured illegally. The standards will be based on the recommendations of two high-level committees - one led by the RBI and the other by the Department of Telecom (DoT). These will be in addition to the provisions in the IT Act that guard against any theft of data. The IT ministry will also take reference from ISO standards issued on the matter and other relevant guidelines that have been prescribed from time-to-time. [Read more](#)

### 7.5 ICT work at Departments under Ministry of Communication & Ministry of Electronics & IT, Government of India

#### 7.5.1 Department of Telecom (DoT), Ministry of Communication

##### Report on NOFN (National Optical Fibre Network)

The enhanced role and needs of a nation-wide broadband network that have prompted the committee to re-examine the original architecture, capacity, reliability and design of NOFN and to evolve this into the proposed BharatNet. This will be a robust, future-orientated network, with built-in possibilities of capacity enhancement. Importantly, the report also discusses and makes recommendations on the migration path from NOFN (and its present status/commitments) to the revised architecture. Download report from [here](#)

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**Report on Net Neutrality:**

Department of Telecommunications constituted a committee chaired by Member (Technology) on January 19, 2015 to examine the issue of NET NEUTRALITY. The committee has different stakeholders, including content and application providers, Multi-stakeholder Advisory Group (MAG) formed by Department of Electronics & Information Technology, telecom service providers, civil society, associations, academia and requested inputs from key departments of Government of India to elicit their views on Net Neutrality and the terms of reference. The report examines the issue of Net Neutrality in a comprehensive manner taking views and demands of different stakeholders into consideration before making appropriate recommendations. The methodology adopted has been broadly assimilative, analytical and participative. To Download the report please [click here](#)

**7.5.2 Ministry of Electronics and IT (Meity)**

- [Series Guidelines for products notified under Compulsory Registration Order \(CRO\) Phase-III](#)
- [Gazette Notification concerning expansion of list of items under CRO-Phase III](#)
- **Comments/Suggestions invited on Draft Public Procurement (Preference to Make in India) Order 2017- Notifying Cyber Security Products:**

The Government has issued Public Procurement (Preference to Make in India) Order 2017 vide the Department of Industrial Policy and Promotion (DIPP) Notification No.P-45021 /2/2017-B.E.-II dated 15.06.2017 to encourage 'Make in India' and to promote manufacturing and production of goods and services in India with a view to enhancing income and employment. In furtherance of the Public Procurement (Preference to Make in India) Order 2017 notified vide reference cited above, the Ministry of Electronics and Information Technology (MeitY) hereby proposes to notify that Public procurement preference for domestically manufactured/ produced Cyber Security Products. The draft notification in this regard can be downloaded from the link below [Public Procurement \(Preference to Make in India\) Order 2017- Notifying Cyber Security Products in furtherance of the Order](#)

- [Extension Order in the date of implementation of IS 16333 \(Part 3\):2016- Indian Language Support for Mobile Phones](#)

**7.5.3 Telecom Regulatory Authority of India (TRAI)**

- TRAI released recommendation on "Spectrum, Roaming and QoS related requirements in Machine-to-Machine (M2M) Communications" [Download document](#)
- TRAI released draft recommendation to promote ease of doing telecom business. [Download document](#)
- TRAI releases recommendations on cloud services in India. [Download document](#)



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- **Telecom Regulator has floated consultation paper on:**
  - [Consultation Paper on 'Next Generation Public Protection and Disaster Relief communication networks'](#)
  - [Consultation Paper on In Flight Connectivity \(IFC\).](#)
  - [Draft Recommendations on 'Ease of doing Telecom Business' for comments of stakeholders.](#)
  - [Consultation Paper on Promoting Local Telecom Equipment Manufacturing](#)
  - [Consultation Paper on Unsolicited Commercial Communication](#)
  - [Consultation Paper on Auction of Spectrum in 700 MHz, 800 MHz, 900 MHz, 1800 MHz, 2100 MHz, 2300 MHz, 2500 MHz, 3300-3400 MHz and 3400-3600 MHz bands.](#)
  - [Consultation Paper on Privacy, Security and Ownership of the Data in the Telecom Sector](#)

## 8 Activities by other standards development organization in India

### 8.1 GISFI:

**8.1.1** 29th GISFI Standardization Series Meeting (GSSM) organized by GISFI and IEEE on 5G & Smart City: SESEI expert shared "5G and M2M\_IoT Standards and its role in SMART CITIES"

### 8.2 IEEE

**8.2.1** IEEE - India Electronics Week 2017

**8.2.2** IEEE - Computer Society India Symposium (CSIS) 2017: The theme of the event was "Human and Computers".

**8.2.3** IEEE organized 2-Day Technical Forum on Smart Grid for Smart Cities India: SESEI expert shared presentation on EU standards on Smart Energy Grids

**8.2.4** [IEEE SmartTech Workshop In collaboration with NASSCOM, COE IoT & TiE](#): Digital transformation with Cognitive Minds and Machines

## 9 Planned Activities for Next Quarters

- Quarterly Tax compliance with Chartered Accountant
- Monthly Activity Tracker, Draft Standards under WC and Bi-Weekly News/Policy,
- **7th edition of Newsletter** India and Europe and Quarterly report
- **Indian Standards Landscape Report**



## Seconded European Standardization Expert in India

- **Sectorial Profile report – One Sector**
- CEN CENELEC & ETSI **MoU follow-up with BIS**
- ETSI **Testing and Interoperability symposium** in India on 6<sup>th</sup> Dec 2017
- ETSI and 3GPP **LI Meetings** in Jan & Feb 2018
- **Study Reports and 3<sup>rd</sup> EU-INDIA Dialogue on Standards** preparation
- Closure on ToR and Identification of consultants / companies for study reports and seminar
- Preparation of **Interim Report**
- Participate in **Important event as speaker/delegate**
- BIS International seminar on Internet of Things along the side-lines of the 2nd plenary meeting of ISO/IEC JTC 1/SC
- GISFI IEEE meeting
- CII Digital India TELECOM Convergence Summit: "SECURITY & PRIVACY IN THE DIGITAL WORLD"

## 10 Glossary

Sr. No.	Acronym	Expansion
1	3GPP	3rd Generation Partnership Project
2	AAL	Active Assisted Living
3	AARDO	African - Asian Rural Development Organization
4	ATMS	Automatic Traffic Management System
5	AMP	Automotive mission plan
6	ARAI	Automotive Research Association of India
7	BS IV	Bharat Stage Emission Standards
8	BU	billion units
9	BEE	Bureau of Energy Efficiency
10	BIS	Bureau of Indian Standards
11	CCSP	C-DOT Common Service Platform
12	CCMC	<i>CEN-CENELEC Management Centre (CCMC)</i>
13	CDAC	Center for Development of Advanced Computing
14	CEA	Central Electrical Authority
15	CERC	Central Electricity Regulatory Commission
16	CMV	Central Motor Vehicles
17	CPRI	Central Power Research Institute
18	CPSEs	Central Public-Sector Entities
19	CATTS	Centre for Advanced Transportation Technology and Systems
20	CDoT	Centre for Development of Telematics
21	CED	Civil Engineering Department
22	CPRI	Common Public Radio Interface
23	CRO	Compulsory Registration Order



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24	CRS	Compulsory Registration Scheme
25	CII	Confederation of Indian Industries
26	COP	Conformity of Production
27	DEITY	Department of electronics and IT
28	DOP	Department of Pharmaceuticals
29	DOT	Department of Telecommunications
30	DEM	Digital Elevation Model
31	EODB	Ease of Doing Business
32	LITD	Electronics and Information Technology Department
33	LTD	Electronics and Informational Technology
34	ETD	Electrotechnical Division Council
35	ECBC	Energy Conservation Building Code
36	EESL	Energy Efficiency Services Limited
37	CITD	EU - INDIA Capacity Building Initiative for Trade Development
38	EBG	European Business Group
39	EC	European Commission
40	CENELEC	European Committee for Electro technical standardization
41	CEN	European Committee for Standardization
42	EFTA	European Free Trade Association
43	ESO	European Standards Organizations
44	ETA	European Technical Approval
47	ETSI	European Telecommunications Standards Institute
48	EU	European Union
49	FAME	Faster Adoption and Manufacturing of (Hybrid &) Electric Vehicles in India
50	FICCI	<i>Federation of Indian Chambers of Commerce and Industry</i>
51	5G	Fifth Generation
52	FOR	Forum of Regulators
53	GSSM	GISFI Standardization Series Meeting
54	GARC	Global Automotive Research centre
55	<i>GISFI</i>	<i>Global ICT Standardization Forum for India</i>
56	GDP	Gross Domestic Product
57	HVAC	<i>Heating, Ventilation and Air Conditioning</i>
58	HPE	Hewlett Packard Enterprise Company
59	ISGF	India Smart Grid Forum
60	IISC	Indian Institute of Science
61	ISRO	Indian Space Research organization
62	ICT	Information Communication Technology
63	IEEE	Institute of Electrical and Electronics Engineers
64	ITS	Intelligent Transport System

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65	CICON	International Communication and Information Technology Conference
66	IEC	International Electro technical Commission
67	IEA	International Energy Agency
68	ISO	International Organization for Standardization
69	IRD	International Relations Department of BIS
70	ISA	International Solar Alliance
71	IOT	Internet of things
72	IRF	ITS and Road Financing
73	JTC	Joint Technical Committee
74	KETI	Korea Electronics Technology Institute
75	LI	Lawful Interception
76	LED	Light Emitting Diode
77	LTE	Long-Term Evolution
78	M2M	Machine to Machine
79	MAIT	Manufactures Association Of Information Technology,
80	MHZ	Megahertz
81	MOU	Memorandum Of Understanding
82	MEITY	Ministry of Electronics and Information Technology
83	MNRE	Ministry of New & Renewable Energy
84	MOUD	Ministry of Urban Development
85	MoM	Minutes of Meeting
86	MSIPs	Modified Special Incentive Package Scheme
87	NARUC	National Association of Regulatory Utility Commissioners
88	NATRIp	National Automotive Testing and R&D Infrastructure Project
89	NBEM	National Board of Electric Mobility
90	NBC	National Building Code
91	NCR	National Capital Region of Delhi
92	NHAI	National Highway Authorities of India
93	NISE	National Institute of Solar Energy
94	NIS	Network and information system
95	NIP	New Item for Proposal at TSDSI
96	NTT	Nippon Telegraph and Telephone Organization
97	OEM	Original Equipment Manufacturer
98	PI	Partnership Instrument
99	PHWR	Pressurized Heavy Water Reactors
100	PSUs	Public Sector Undertakings
101	QCI	Quality Council of India
102	QoS	Quality of Service
103	RoW	Right of Way

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104	SPS	Sanitary and phytosanitary standards
105	SESEI	Seconded European Standardization Expert In India
106	SSCC-CG	Smart & Sustainable Cities and Communication Group
107	SIAM	Society of Indian Automobile Manufacturers
108	SECI	Solar Energy Corporation of India
109	SDO	Standard Developing Organizations
110	SOP	Standard Operating Procedure
111	SG	Study Group
112	SI	Study Items
113	STD	Subscriber Trunk Dialer
114	TASARD	Technical Advancement for Sustainable Agriculture and Rural Development
115	TBT	Technical Barrier to Trade
116	TEC	Telecom Engineering Center
117	TRAI	Telecom Regulatory Authority Of India
118	TSDSI	Telecommunications Standard Development Society India
119	ToR	Terms of Reference
120	IMCO	The committee on Internet Market and Consumer Protection
121	TED	Transport Engineering Department
122	TFL	Transport For London
123	UBICNET	Ubiquitous Communications and Network Computing
124	UT	Union Territories
125	WANI	WiFi access network interface
126	WiFi	Wireless Fidelity
127	WLAN	wireless local area network
128	WI	Work Items
129	WGs	Working Groups
130	WTO	World Trade organization