SESEI

Seconded European Standardization Expert in India

Quarterly Report No 7

Standards, Policy and Regulation

(October – December' 2017)

January' 2018

SESEI 3 – Dinesh Chand Sharma

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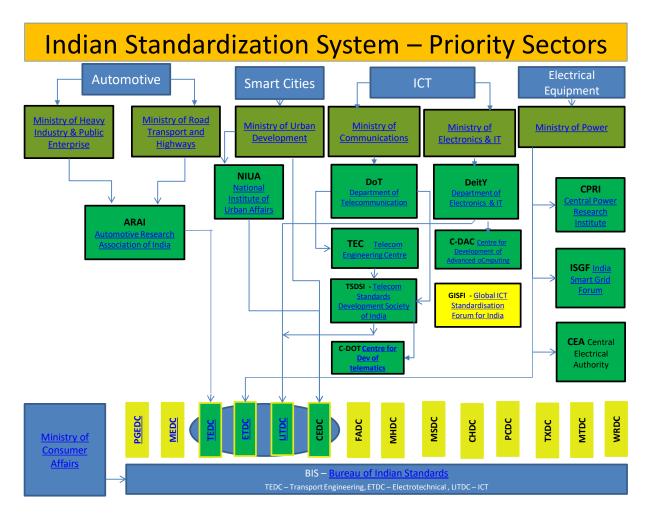ETSI - European Telecommunications Standards Institute
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Indian Standardization System

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

1.   Executive Summary

The quarterly report encapsulates all the latest information and updates about standardization and related policy/legislation around Project Priority Sectors covering Automotive, Smart Cities, ICT and Electrical Equipment including consumer electronics. In this 7th quarterly report presented below you will find standardization and policy details for the period of October' 2017 to December' 2017.

Indian government is making continuous efforts to introduce and amend its policies and legislations to bring it at par with the leading countries to achieve quality of goods and services. The new **Bureau of Indian standards (BIS) Act 2016**, has been brought into force with effect from 12th October 2017. The Act replaced Bureau of Indian Standards Act, 1986. It aims to help in ease of doing business in country, enhance 'Make In India' campaign and ensure availability of quality products and services to the consumers.

Similar efforts are also being made to smoothen the IP process, Official Mobile APP for intellectual property rights was launched by the Office of Controller General of Patents, Designs & Trade Marks. It offers utilities like updates on Application Status, relevant Acts and Rules, Searches, etc. making the process more user friendly for the stakeholders and goes a long way to demonstrate the current Government's objective of promoting the Digital India Programme and Ease of Doing Business.

The Housing and Urban Affairs Ministry has announced the 9 more cities as an outcome to its 4th round challenge under the Smart Cities mission making the total cities shortlisted as 99. To achieve the 100 Smart cities mission aim, the Ministry is also working effectively on the integrated Capacity Building mission and has already empaneled 35 Training Entities for different subject areas.

Technical Panel of Electronics and information technology division council of BIS, - LITDC/P 2 on 'Smart infrastructure Panel' prepared a Pre-standardization study report on "Unified, Secure & Resilient ICT Backbone for Smart Cities/Smart Infrastructure". This pre-standardization study report is aimed at wider dissemination of the knowledge and concerns as well as to help proceed with standard development activities in the respective areas. SESEI expert is a member to this panel and contributed to this report SMART CITY work and activities in EU covering CEN-CENELEC-ETSI approach, H2020, Project ESPRESSO, oneM2M etc.

The renewable energy sector is booming in India, this has pushed the Ministry of New and Renewable Energy (MNRE) to prepare a new National Lab Policy (NLP) to improve the quality and reliability of renewable energy product and projects in India. The policy aims to adopt standards for renewable energy systems and to strengthen test labs environment in line with international practices and standards.

The Ministry of Power has also launched an online platform National Power Portal (NPP) for collation and dissemination of information on the country's power sector. It also plans to lay down stringent regulations for multi-level checks on equipment imported for the domestic power distribution sector to prevent the electricity grid from cyber-attacks.

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

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

In the ICT sector the Ministry of Electronics & Information and Technology (MeitY) has released a white paper on the data protection framework. As per the paper, a nuanced approach towards data protection will have to be followed in India, bearing in mind the fact that individual privacy is a fundamental right limited by reasonable restrictions. Meity has also released Guidelines for series approval of products for implementation of "Electronics and Information Technology Goods (Requirements for Compulsory Registration) Order, 2012" – Phase III. The guideline highlights approvals for a series of products like recessed LED Luminaries, Smart Watches, CCTV Cameras / CCTV Recorders, Plasma / LCD / LED / Television Screen size up-to 32, etc.

The information on draft standards, released by BIS, ARAI and TSDSI is provided as a separate annexure (Annexure – 1_Draft Standards released by BIS ARAI and TSDSI) to this report making it more crisp and easy to read. The details on the important meetings and events attended by SESEI also form part of the report, which also includes a snapshot of the various standards related queries addressed by the SESEI expert during this quarter.

We hope that the quarterly report will provide you with all information necessary to brief you about the latest standardization and policy related developments in India. It will also give you a sneak peek into the work carried out by SESEI expert during the quarter.

Happy reading!!!

Dinesh Chand Sharma
(Seconded European Standardization Expert in India)
Director – Standards & Public Policy

Seconded European Standardization Expert in India

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	157	24
2	Internal Meetings	81	17
3	Events	99	14
	Total	**337**	**55**
4	No of Queries	115	27

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 -2_Activity Tracker Quarterly Report No 7" 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:
- **Meeting with Meity for the Standards for Accessibility Specifications of IT Products**. Adoption of EN 301 549 and tool kit for its implementation.

- **Meetings held with Senior officials at TEC to** discuss the agenda and support desired from TEC for the ETSI Symposium on Testing and certification. Post the ETSI Symposium, SESEI again met them to discuss a) ETSI membership of TEC b) Feedback on ETSI symposium.

- **Conference Call meeting of the TEC Smart City Working Group on TEC Technical Report on Smart Cities.** Main discussions were held on General Characteristics and Planning tools for the smart city urban, ICT design, etc.

- **Meeting with Addl. Secretary, DoT**, to promote the oneM2M work and its implementation in India as part of SMART Cities Mission.

- **DoT meeting on National Telecom Policy (NTP) 2018:** In order to have wide consultation with the stakeholders, a meeting of the Working Group 'New Technology' was held under the chairmanship of DDG (NT). Members were also requested to provide their inputs on the formulation of NTP-2018 on Broad Theme 'New Technology'. Taking input from ETSI Work Program, SESEI expert shared new

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emerging topics which DoT through its organization such as TEC and TSDSI shall consider including as part of NTP 2018 for their research and standardizations.

- **Meetings with BIS Head of International Relation Department (IRD) on IEC GA visit of Indian delegation and proposed meeting with CCMC**. SESEI held a meeting with BIS Head IRD to discuss - Indian Delegation visiting IEC GA and Bilateral Meeting with CCMC, and CCMC Draft MoU and proposed meeting agenda.

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

- **Meeting of the EBG Telecom sector committee** to discuss comments/input on NTP 18, finalized, comments and inputs on recent TRAI consultations papers, EBG Position Paper 2017. SESEI expert shared topics of future standardization which shall be considered for NTP 2018, shared details around work and contribution to DoT on 5G forum & Vision Paper latest on Security notification of TEC/DoT for which engagement continue to make it industry friendly.

- **Meeting with officials from EU Delegation to India** to discuss and get latest update on the Telecom network testing, Compulsory Registration Order (CRO) and follow-up to the meeting between SESEI expert and officer from Automotive unit in DG GROW and his visit to India.

Meetings with Industry & Associations:

- **Meeting with CII** officials to discuss the Terms of Reference (ToR) for the Organization of Indo-European Conference and preparation of Study report on ICT.

- **Meeting with EBTC (European Business Technology Centre) team** for Automotive Study Report.

- **Conference Call of the IET IoT Panel -** WG on Standards, Legal and Regulations to review the status, activities and plans for the year 2018 of Standards, Legal and Regulation (SLR) WG.

- **Conference call with IET Officials** to discuss the ToR of study report on Smart Energy.

- **Meeting with M/s pManifold** to discuss the cooperation around Smart Energy and other subject of mutual interest. pManifold is a research organisation that carries out various research studies for the industry and academia.

- **Meeting with** IEC SMB and Ambassador in India to discuss ongoing activities with BIS and LVDC topic at IEC

- **Meeting with Officer from Siemens** to discuss oneM2M/IoT standards progress in India and CRO scheme. SESEI expert suggested SIEMENS to explore joining oneM2M and explore the platform implementation to their IoT platform. During the meeting Siemens officer shared the ongoing activities at SIEMENS around topics such as a) Digital Factory covering Smart Manufacturing (Industry 4.0) b) Process Automation c) IoT platform Minds Fear having Open API.

- **Meeting with officer** representing ASSOCHAM and is responsible to take the Indian Delegation to Europe on behalf of ASSOCHAM. Meeting was carried out to discuss subject of Smart Cities and possible meetings of delegation with ETSI, EC, CEN CENELEC, EFTA on EU policies and Standards.

Meetings with Project Partners & EU Industry:

- **Meeting with CEN TC Chair responsible for EN 115 standard** at the sidelines of ISO/TC 178 meeting in India to discuss, update and review of Project SESEI, latest Development and milestones achieved, adoption of EN 115-1 in India and a way forward for its next amendment.

- **Meeting with ETSI officials** to review the status of actions (agenda, logistics, etc.) for the ETSI Symposium on Testing and certification to be held in India.

- **Meeting with EU ANNEX III organization**. SESEI expert made a short presentation on Project SESEI to the visiting delegates from Annex III organisation.

- **Meeting with ETSI officials** to discuss legal advice for adoption of EN 301 549 by CDAC MEITY (India) including right to reproduce W3C text. A way forward was agreed and accordingly CDAC was advised to update the drafted standard verbatim to EN for its approval for publication.

- **Meeting with CCMC Technical officer responsible for Smart Energy** to discuss activities around Smart Energy at CCMC and India. SESEI also discussed the membership of ISGF for Smart Energy coordination group. Meeting was also used to exchange update around the subject of Cyber Security, Data Privacy, Next Plenary Meeting, ICT Rolling Plan at EC, JIS AP14 on DSM etc.

- **Meeting with Programme Manager - Industry & Infrastructure at CCMC.** SESEI discussed ITS Standardization work in India covering ATMS specification as released by National Highway Authorities of India (NHAI), e-call, e-mobility, Emission Standards (BS-IV to BS-VI switch plans), ARAI activities such as AIS140 and OBD-II regulation etc. SESEI also updated CCMC officer about the proposed 3rd EU-INDIA Conference scheduled for 26th April for a possible participation by TC 301 Chair or any other subject matter expert.

- **Meeting with Principal Administrator, Directorate-General for Internal Market, Industry, Entrepreneurship and SMEs (DG-GROW) Unit C4** responsible for Automotive and Mobility Industries. Preparatory meeting took place with him to discuss automotive related issues prior to his visit to India.

- **Meeting with officer from ETUC**. Meeting was used to visit the Trade Union Office and exchange update around Standards activities carried by ETUC (one of the Annex III organization) and ongoing Project SESEI Progress and activities in India.

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 - 2_Activity Tracker Quarterly Report No 7**" to this report.

- **ETSI Symposium on Achieving Interoperability - Best Practices in Standardization**. ETSI along with SESEI expert organized a symposium in cooperation with C-DOT, TEC, TSDSI, and COAI which took place at C-DOT Campus, in Bengaluru, INDIA on 6 December 2017. This event was focused on the promotion of best practices in standardization and the awareness of the importance of validation and testing. Main areas of focus were - Introduction to standardization, validation, testing and interoperability, ETSI/3GPP standardization, validation and testing activities, testimonies from tool vendors, oneM2M validation and testing activities and NFV/MEC implementation, validation and testing activities. This event was extremely appreciated by the Indian standardization stakeholders and it helped in identifying the gap area and the important areas of focus for the ICT subject & its interoperability testing.

- **Indo-German Business Roundtable on Future Business Opportunities in Energy Efficiency**. The Indo-German Roundtable was organized with an objective of contributing towards the draft Residential Energy Conservation Building Code under preparation by Bureau of Energy Efficiency (BEE) and Ministry of Environment, Forest & Climate Control (MOEFCC) and National Cooling Action Plan (NCAP). SESEI participated in the round table 2 - on "Future Business in Energy Efficient Building Materials - What is the key challenge" and contributed the work carried out at EU through CEN TC 350.

- **Closing seminar of EU-India Capacity Building Initiative for Trade Development (CITD) programme**. CITD team organized this closing seminar to share the draft final report with Project stakeholders. SESEI expert have been engaging with the project for their chapter of Technical Regulation and Standards of the ToR and synching and contributing latest updates with the team handling this part of the scope.

- **CII Digital India TELECOM Convergence Summit** on "SECURITY & PRIVACY IN THE DIGITAL WORLD". The focus of the Telecom Convergence Summit was on Security and Privacy for IT and ICT sectors. During the inaugural session, Executive Director CDOT, highlighted the work of ETSI and oneM2M around Security as part of its deliverables and as well TC Cyber activities of ETSI.

- **BIS organized International seminar on Internet of Things** at the sidelines of the 2nd plenary meeting of ISO/IEC JTC 1/SC 41 'Internet of Things and related technologies' at, New Delhi. SESEI expert was invited as a speaker to share his expertise and knowledge about IoT covering topics of IoT Applications and interoperability. SESEI used the opportunity to share the presentation on M2M/IoT Standards & Interoperability

- **Roundtable on ITS & Road Financing**. SESEI was invited to attend the roundtable on ITS & Road Financing. This 4th roundtable was organized to discuss the ITS topic in India and as a preparatory work towards the IRF World Road Meeting 2017. SESEI expert have been working with this IRF activities in India and ensured and aligned that Standardization is an important activity about ITS hence it shall be kept as part of agenda and activities of IRF in India. It is due to this reason that SESEI expert connected EU delegation Project on ICT also to be a part of it as ITS is one of their priority topic.

- **18th Crossroads World Road Meeting 2017.** Director Working Groups & Roundtables, ITS & Road Financing International Road Federation, invited SESEI to participate as a speaker during the special session of Intelligent Transport System (ITS) in India. SESEI shared updates on - European Project SESEI, - ITS work in Europe – Policy and Standards.

- **Launch of Environmental Product Declaration (EPD) India by ICMQ**. SESEI expert attended the launch of EPD India by ICMQ India Pvt. Ltd. SESEI is a member of EPD India STAKEHOLDER COMMITTEE and is working with the EPD INDIA towards related EN adoption/promotion in India such as EN 15804, CEN/TR 16970 etc.

- **2nd IoT Summit 2017 Internet of Things -Transforming India's Energy Sector**. SESEI expert was invited to participate in the Session-4 (LOCAL ECOSYSTEM FOR IOT IN ENERGY) to present his knowledge and experience on the IoT Ecosystem, Govt. Policies and Synergies between stakeholders and share European perspective and status of these aspects.

Key Queries addressed:

Following are few of queries addressed during last quarter. For detailed response to these queries please refer the "Activity Tracker report" submitted as "Annexure -2_Activity Tracker Quarterly Report No 7" to this report.

- Information on the e-Waste related legislation and standards: Vyom Digital Services Pvt. Ltd.
- Standards & Specification for Video Surveillance System (CCTV): STQC, Meity
- Details on gazette notification on mandatory testing of Solar Equipment, and cyber security in power systems: EU Delegation to India
- How to shift existing platform to OneM2M: NRS Chariot Tech Pvt. Ltd.
- SESEC: Update on Indian standardization and technical regulations for the electrical equipment manufacturers asked by China Standardization Research Institute
- Query on cancellation of BIS registrations of R-41002454 during surveillance testing on issues concerning product labelling. Barco NV Belgian Company
- Query on existing mechanism of Standardization, Certification and Testing of Telecom equipment in India to support the local telecom manufacturing: EBTC
- Query on PCRs published by CEN on Environmental product declarations – in wood based products for use in construction and Cement and Building Lime: ICMQ & EPDINDIA
- Inputs on 5G India 2020 report: TCOE
- Inputs on TRAI CP on Local Telecom Equipment Manufacturing: EBG
- Input to draft document on "Advanced Metering Infrastructure - AMI" and SMART Homes: TEC WG
- Input to TEC draft technical report on "Smart City Design": TEC WG on Smart Cities
- Inputs on 5G to support 5G forum established by DoT: @TVR Consulting
- Implementation guidelines/toolkit in support of EN 301 549 adoption in India: CDAC Pune
- Status Update on LVDC work in India: CCMC

3. Generic Update

3.1 BIS Act 2016 brought into effect from 12th October 2017

A new **Bureau of Indian standards (BIS) Act 2016** which was notified on 22nd March 2016, has been brought into force with effect from 12th October 2017. The Act establishes the Bureau of Indian Standards

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(BIS) as the National Standards Body of India. The Act has enabling provisions for the Government to bring under compulsory certification regime any goods or article of any scheduled industry, process, system or service which it considers necessary in the public interest or for the protection of human, animal or plant health, safety of the environment, or prevention of unfair trade practices, or national security. Enabling provisions have also been made for making hallmarking of the precious metal articles mandatory.

The new Act also allows multiple type of simplified conformity assessment schemes including self-declaration of conformity against a standard which will give simplified options to manufacturers to adhere to the standards and get certificate of conformity. The Act enables the Central Government to appoint any authority/agency, in addition to the BIS, to verify the conformity of products and services to a standard and issue certificate of conformity.

Further, there is provision for repair or recall, including product liability of the products bearing Standard Mark but not conforming to the relevant Indian Standard. The Hon'ble Minister for Consumer Affairs, Food and Public Distribution said that the new Act will further help in ease of doing business in the country, give fillip to Make in India campaign and ensure availability of quality products and services to the consumers.

Download the BIS Act 2016

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3.2   Indian Patent Office Launches the Official Mobile APP For Intellectual Property Rights

Mobile applications have become a part of our day to day lives. Everything nowadays is done with just one click. Keeping in mind the technological developments, Office of the Controller General of Patents, Designs and Trade Marks (hereinafter referred to as the 'CGPDTM') has launched the Official Mobile APP 'Intellectual Property India' for intellectual property rights. The App can be downloaded from their official website ipindia.gov.in or from Google Play store.

The App will provide information related to Patent Office, Designs Wing of the Patent Office, Trade Marks Registry, Geographical Indications Registry, Copyright Office, Semiconductor Integrated Circuits Layout-Design Registry & Rajiv Gandhi National Institute of Intellectual Property Management. Even though utilities like updates on Application Status, relevant Acts and Rules, Searches, etc., that are on offer on the App can already be availed directly on the IP India website, the launch of the App certainly makes the process more user friendly for the stakeholders and goes a long way to demonstrate the current Government's objective of promoting the Digital India Programme.

Download the APP "Intellectual Property India" from www.ipindia.nic.in or from Google play store

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3.3   USTDA Advances Standards and Conformance Cooperation with India

The U.S. Trade and Development Agency launched the second phase of its US-India Standards and Conformance Cooperation Program (SCCP). The Program will convene six workshops in India for U.S. and

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Indian industry and government representatives to discuss standards and conformity assessment practices in three core sectors of U.S.-India trade: clean energy, smart and sustainable cities, and water and sanitation.

USTDA signed a grant supporting the second phase of the SCCP in September, and the contract signing for the workshop occurred between USTDA's partners in the SCCP: the Confederation of Indian Industry (CII), a nonprofit business association in India, and the American National Standards Institute (ANSI), the administrator and coordinator of the United States private sector voluntary standardization system. Together, CII and ANSI will carry out the second phase of SCCP, building off the progress made in Phase I.

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3.4   India for status quo on e-commerce negotiations at WTO

In a move that formally counters efforts by members such as the EU, Japan, and Canada to push negotiations on e-commerce at the World Trade Organization's ministerial meet in Buenos Aires, India has circulated a draft ministerial decision stating that work should continue as per the current work programme based on "existing mandate and guidelines''.

"India decided to be pro-active by circulating its own draft on e-commerce ensuring no changes in the current structure of discussions. This was needed to counter several developed members, including the EU and China, that are trying to move beyond the existing work programme and setting the tone for commencing negotiations,".

In its draft ministerial decision on e-commerce circulated to all members recently, India has clearly indicated its opposition to move away from the current work programme and the existing mandate under which e-commerce discussions are taking place. It also instructs the General Council to hold periodic reviews in its sessions in July and December 2018 and July 2019 based on the reports that may be submitted by the four WTO bodies entrusted with the implementation of the Work Programme and report to the next session of the Ministerial Conference.

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4   SMART CITIES

4.1   Smart City Mission: Centre has announced next 9 cities' names making the total identified cities as 99

The Govt. has announced the next set of cities (nine) for funding under the Smart City Mission as an outcome to round 4 challenges. The Housing and Urban Affairs Ministry has till now announced the names of 99 cities under the scheme and each city will get Rs 500 crore (67M Euro) as central assistance for implementing projects. The government aims to develop more than 100 smart cities under the scheme.

4.2   BIS has prepared Pre-standardization study report on "Unified, Secure & Resilient ICT Backbone for Smart Cities/Smart Infrastructure"

Electronics and information technology division council of BIS had constituted a technical panel Namely LITDC/P 2 – 'Smart infrastructure Panel' responsible for exploring the work being pursued at the international level, and to identify the need for standardization in the national context around Smart cities and smart manufacturing. This panel has prepared a Pre-standardization study report on **"Unified, Secure & Resilient ICT Backbone for Smart Cities/Smart Infrastructure"**.

This pre-standardization study report is aimed at wider dissemination of the knowledge and concerns as well as to help proceed with standard development activities in the respective areas. This Unified Secure & Resilient Framework & Architecture, if implemented in Indian Smart Cities, shall enable optimization of the ICT infrastructure and help bring down the total cost of ownership in terms of capital and recurring expenditure in the upcoming smart cities deployments. The Report was released on the occasion of the World Standards Day on 3rd Nov 2017 by Hon'ble Minister for Consumer Affairs, Food and Public Distribution.

It may be noted that SESEI expert is regular participant to this panel and has aligned EU work in this report. Click here to download the report

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

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

5   Electrical Equipment including Consumer Electronics

5.1   MNRE Issues National Lab Policy for Renewable Energy Testing and Certification

The Ministry of New and Renewable Energy (MNRE) has issued a new National Lab Policy (NLP) to improve the quality and reliability of renewable energy projects in India. The policy, released aims to create a robust and efficient system of testing, standardization, and certification for the renewable energy sector. According to MNRE, India's goal of reaching 175 GW of renewable energy by 2022 has made it necessary to develop and update the standards for various renewable energy systems and their related components and set up performance testing and certification facilities to ensure their quality.

MNRE has already created several autonomous institutions like the National Institute of Solar Energy (NISE), the National Institute of Wind Energy (NIWE), the Alternate Hydro Power Energy Centre (AHEC), the Sardar Swaran Singh National Institute of Bio-energy (SSS-NIBE), and other test centers for solar, thermal, and biogas. But, considering the current target of 175 GW, these institutions will not be enough to ensure the quality of products utilized, thus creating the need for a policy to develop labs across the country in a planned manner.

The policy aims to adopt standards for renewable energy systems and to strengthen test labs in line with international practices and standards.

Key Highlights of the Policy

- Performance certification will be made a mandatory prerequisite for ensuring quality and reliability.
- Imported systems and components will also be tested for efficiency and performance in accordance with Indian climate conditions, even though they have may have already received international certification prior to being exported to India.
- MNRE institutions will have their research and development (R&D), testing, standardization, and certification abilities strengthened to make them global centers of excellence in new and renewable energy.
- All test labs must be accredited by National Accreditation Board for Testing and Calibration Laboratories (NABL) and approved by the Bureau of Indian Standards (BIS).
- Qualifying products must be registered with BIS for deployment.
- Standards test and quality control committee (STQCC) for the renewable energy sector will be set up in MNRE.
- Test labs will create professional competency development programs to ensure that they have a skilled and competent workforce.
- Samples must be collected at three stages of the life cycle of component or product, namely; the prototype design stage, the factory production stage, and the supply stage at the project site.
- A network of test labs will be established in each segment to exchange experience and information.
- Implementation of the policy will be coordinated by STQCC and the quality control regulatory committee.
- The labs will be financially supported in partnership with the government or they will be set up on a self-sustaining basis. The mechanisms can include public-private partnerships and mobilizing CSR funds.

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

5.2 Cybersecurity tests for Imported Power Equipment

The government plans to lay down stringent regulations for multi-level checks on equipment imported for the domestic power distribution sector to prevent the electricity grid from cyber-attacks. The government will lay down product-wise technical specifications and regulations to ensure that only audited and tested equipment are connected to the electricity grid. The regulations will be country neutral and will aim at boosting local manufacturing. In addition to this, the government plans to develop a testing facility for cybersecurity where sourced equipment can be tested for malware before installation and periodically after commissioning.

The Central Electricity Authority will amend the regulations so that only authentic equipment is installed in the grid. "The authority will also lay down testing standards and procedures for cyber security

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compliance,". Cyber-attacks on the electricity grid could have a debilitating impact on national security, governance, economy and social well-being of the nation.

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5.3 Power ministry launches online portal for power sector information

The power ministry launched an online platform National Power Portal (NPP) for collation and dissemination of information on the country's power sector. NPP is a centralized system for the Indian power sector which facilitates online data capture and input (daily, monthly, annually) from generation, transmission and distribution utilities in the country and disseminate power sector information through various analyzed reports, graphs, statistics.

Central Electricity Authority (CEA) will act as the nodal agency for the implementation of NPP which has been conceptualized, designed and developed by National Informatics Centre (NIC). The system also facilitates various types of statutory reports required to be published regularly. The NPP dashboard has been designed and developed to disseminate information through Geographic Information System (GIS)-enabled navigation and visualization chart windows on capacity, generation, transmission, distribution at national, state, DISCOM, town, feeder level and scheme-based funding for states.

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5.4 Niti Aayog to finalize National Energy Policy soon

Government think-tank Niti Aayog will soon finalize the National Energy Policy (NEP) and take it to the Union Cabinet. The Aayog had released the draft National Energy Policy in June last year year. In its draft report, the government think tank has said that India's energy demand is likely to soar around three times by 2040, leading to increase in overall primary energy imports. It had also made a case for a single regulator to govern India's energy market to make 'India's economy energy ready' by the year 2040.

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5.5 Guidelines issued for procurement of wind power through tariff based competitive bidding process

Government has issued Guidelines to provide a framework for procurement of wind power through a transparent process of bidding including standardization of the process and defining of roles and responsibilities of various stakeholders.

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5.6   Solar Photovoltaic Systems/Devices/Components Goods Order 2017

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

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6   Automotive

6.1   Government readies institutional framework to push electric mobility

The government plans to set up a committee for an institutional framework on large-scale adoption of electric vehicles in India as a viable clean energy mode -- particularly for shared mass transport -- to help bring down alarming levels of pollution in big cities. Niti Aayog has sought comments from ministries, including heavy industry, environment, road, transport and highways, and power on the issue and is in the process of chalking out the nitty-gritties of the framework.

The panel will be tasked with issues related to electric mobility, including setting up of charging stations across the country, especially in big cities, manufacturing of lithium ion batteries in India and subsidizing the cost of electric vehicle on a long-term basis until their cost of production comes down to boost their sales and encourage automakers.

The Centre has recently invited proposals from cities with population of above 10 lakhs for extending grants under the FAME India (Faster Adoption and Manufacturing of Electric and Hybrid Vehicles in India) scheme to promote large-scale adoption of EVs (electric vehicles) in multi-modal public transport.

With an aim to promote the eco-friendly vehicles, the government had launched the FAME India scheme in 2015 offering incentives on electric and hybrid vehicles of up to Rs 29,000 for bikes and Rs 1.38 lakh for cars. The scheme is currently running in pilot mode. Earlier, Railways Minister Piyush Goyal, who was power minister at that point, said the government is working on a road map to ensure all-electric car fleet in the country by 2030.

Read More

6.2   Government working on policy to promote electric vehicles manufacturing

The government has asked auto companies to start manufacturing electric vehicles in India and is also studying global markets to come up with a policy surrounding electric mobility and storage. "We want electric vehicle manufacturers and the people in renewable storage to set up their facility in India. We have a huge, ambitious target, and storage is the future of it," a senior government official stated.

Power minister had last month said that he had called a meeting of electric vehicle and storage system manufacturers and asked them to start investing in these sectors, where the "future" is headed. "We are working to make India a manufacturing hub, and we would work on a policy which should facilitate that. We have started discussions with various stakeholders and we will try to bring in the right kind of policies at the

right point of time," the official said. The government has identified few key areas which will help push the e-mobility drive in India.

Read more

6.3   NITI Aayog releases proposal for a quick pilot on EV charging infrastructure in Delhi

NITI Aayog Vice Chairman, released a proposal to develop electric vehicle charging infrastructure in Delhi. The proposal was drafted by AC2SG in collaboration with NITI Aayog. The proposal for the quick pilot could be used to provide a structure for EV infrastructure rollout in the Gurgaon-IGI-South Delhi-Noida corridor. This planning will make the actual rollout easier and faster and save cost on the deployment. The planning process is based on a five-step process; 1) project kickoff, 2) formation of "long list" of locations, 3) streamlining and timing, 4) documentation and 5) wrap-up.

This proposal for developing the pilot includes 55 locations with 135 charging stations of which 46 are DC quick charging stations and 89 are slower AC charging stations. This deployment would require co-operation with state governments, selected government authorities and companies as well as some private enterprises. The plan includes a deployment timeline with first installations in November 2017.

Read More

6.4   No BS-IV vehicle registrations beyond June 2020: Draft Rules

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

Issuing draft notification to amend Central Motor Vehicles Rules, the Ministry of Road Transport and Highways has invited objections and suggestions from stakeholders, affected persons and public by December 20 for consideration. The notification said:

- these rules will be called the Central Motor Vehicles (Amendment) Rules, 2017 and shall come into force on the date of their final publication in the Official Gazette.
- "New motor vehicles conforming to Emission Standard Bharat Stage-IV, manufactured before April 1, 2020 shall not be registered after June 30, 2020." It said amendment in the rules will be done in exercise of the powers conferred by section 110 of the Motor Vehicles Act, 1988.
- "provided that, the new motor vehicles of categories M & N, conforming to Emission Standard BS-IV, manufactured before April 1, 2020 and sold in the form of drive away chassis, shall not be registered after September 30, 2020."
- Vehicles having at least four wheels and used for the carriage of passengers fall under category M while power- driven vehicles having at least four wheels and used for the carriage of goods fall under category N.

Last year, the decision to advance the date by four years to April 1, 2020 for implementation of BS VI (equivalent to Euro VI norms followed globally) was taken at an inter- ministerial meeting for supply of cleaner auto fuel, by altogether skipping the Euro V grade norms. The decision was taken at a time when an intense debate was going on rising level of pollution.

Read More

Download draft notification from here

7 ICT

7.1 Government releases white paper on Data Protection Framework

To secure digital transactions and address data privacy issues, the government has released a white paper on the data protection framework. As per the paper, a nuanced approach towards data protection will have to be followed in India, bearing in mind the fact that individual privacy is a fundamental right limited by reasonable restrictions. The committee seeks to put the onus on stakeholders and the public through a questionnaire on issues such as collection of personal data, consent of consumers, penalties and compensation, code of conduct and an enforcement model that should be set up.

"The sensitivity of the data could also develop based on its combination with other types of information. For example, an email address taken in isolation, is not sensitive. However, if it is combined with a password, then it could become sensitive as it opens access to many other websites and systems, which may expose the individual to harm such as cyberattacks and phishing frauds," the white paper said.

It is also possible that personal or even non-personal data, when processed using big data analytics, could be transformed into sensitive personal data. Therefore, there may be a need to create safeguards which will prevent misuse of personal information in these contexts of use, it added.

Read More

7.2 IoT Experts and Stakeholders Drive Interoperable Standards-Based Adoption at OneM2M India Industry Day

The industry-wide collaboration will be the driving force behind a global adoption of the Internet of Things (IoT), according to leading IoT organizations and stakeholders who gathered in Bengaluru, India at the third oneM2M Industry Day, which was hosted by Telecommunications Standards Development Society India (TSDSI). The conference engaged global and Indian organizations in discussions about how a standards-based approach is crucial for interoperability and how such an approach will help to accelerate IoT deployments in India and worldwide. Region-specific hurdles such as modest power availability, various digital traffic distribution and ways to overcome them were also highlighted.

CEN - European Committee for Standardization
CENELEC - European Committee for Electrotechnical Standardization
ETSI - European Telecommunications Standards Institute
EC - European Commission
EFTA - European Free Trade Association

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Participants deliberated on crucial deployment aspects, including value proposition, device lifecycle management, security privacy, and safety, and testing and certification, among other considerations which are essential for nation-wide deployments.

oneM2M experts from Nokia, Huawei, Qualcomm, British Telecom, iconectiv, InterDigital, Gemalto, ETSI, and CDOT exchanged information and ideas with Indian IoT experts from the industrial sector, government bodies, Research and Development and Academia. The event was sponsored by India – EU Delegation.

Presentations from the India Industry Day are available online.

7.3   DoT to finalize the new telecom policy by March 2018

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

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,

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 10th January 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

7.4.1 Telecom Regulatory Authority of India (TRAI)

- **TRAI Released Recommendations on:**
    - **In-Flight Connectivity (IFC) Download document**
    - **Network Testing Before Launch of Commercial Services** Download document

- **Telecom Regulator has floated consultation paper on:**
    - Inputs for Formulation of National Telecom Policy - 2018
    - Promoting Local Telecom Equipment Manufacturing
    - Empanelment of Auditors for Digital Addressable Systems
    - Making ICT Accessible for Persons with Disabilities

- o [Issues relating to Uplinking and Downlinking of Television Channels in India](#)
- o ['Next Generation Public Protection and Disaster Relief (PPDR) communication networks'](#)

8   Activities by other standards development organization in India

8.1   GISFI:

8.1.1   30th GISFI Standardization Series Meeting and IEEE 5G Summit was organized at SRM University, Kattankulathur, Chennai. Read More

8.2   IEEE

8.2.1   IEEE INDICON 2017

IEEE INDICON 2017 Conference was held at IIT Roorkee from 15th to 17th December 2017. This edition of indicon was organized by IEEE UP Section. For more details visit http://www.iitr.ac.in/indicon2017/.

Read More

9   Planned Activities for Next Quarters

- Quarterly Tax compliance with Chartered Accountant
- Monthly Activity Tracker, Draft Standards under WC and Bi-Weekly News/Policy,
- **8th edition of Newsletter** India and Europe and Quarterly report
- **Sectorial Profile report – One Sector**
- CEN CENELEC & ETSI **MoU follow-up with BIS**
- ETSI and 3GPP **LI Meetings** in Jan & Feb 2018
- **Study Reports and 3rd EU-INDIA Dialogue on Standards** preparation
- Finalization of **Interim Report**
- Participate in **Important event as speaker/delegate**

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	*CEN-CENELEC Management Centre* (*CCMC*)
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
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

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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	*Federation of Indian Chambers of Commerce and Industry*
51	5G	Fifth Generation
52	FOR	Forum of Regulators
53	GSSM	GISFI Standardization Series Meeting
54	GARC	Global Automotive Research centre
55	*GISFI*	*Global ICT Standardization Forum for India*
56	GDP	Gross Domestic Product
57	HVAC	*Heating, Ventilation and Air Conditioning*
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
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
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

SESEI

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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