Quarterly Report No. 09

Standards, Policy and Regulation

('April – June' 2018)

July' 2018

SESEI 3 – Dinesh Chand Sharma

1. Executive Summary

We would at the outset like to take this opportunity to thank our project partners for the success of the 3rd edition of the Indo-European conference on Standards and Emerging Technology held in New Delhi on 26th April 2018. The platform developed by Project SESEI has been appreciated widely and provides and effective way of engaging the standardization community and Industry from Europe and India on new and upcoming technology topics within the ambit of Project priority sector. You may download the copy of study report, conference presentations and the event report from here (http://www.cii-iq.in/Indo_European_Conference.php).

This 9th quarterly report for the period of April 2018 to June 2018 is presented here for information and providing update on the standardization and related policy/legislation around Project Priority Sectors covering Automotive, Smart Cities, ICT and Electrical Equipment including consumer electronics. Report also covers brief updates on important meetings and events addressed by SESEI expert in the first section of the report and for more information on these meetings and events including list of queries, please refer Activity Tracker report submitted as "Annexure -2_Activity Tracker Quarterly Report No 9" to this report.

The Indian economy grew 7.7 percent year-on-year in January-March, its quickest pace in nearly two years, while primarily driven by higher growth in manufacturing, the farm sector and construction. The figure surpassed China's growth rate of 6.8 percent in the January-March quarter, confirming India as the fastest growing major economy. Investment activity picked up pace and the government expectes a further acceleration in the coming year. This will certainly be a boost for the current government in power under the leadership of Mr. Modi who is looking forward to seek a second term next year.

This quarter the Conformity Assessment Regulations 2018 was released by Bureau of Indian Standards (BIS) which lay down the terms and conditions for grant, operation, suspension, renewal and cancellation of licences for using or applying a 'Standard Mark' on any article or goods.

Stringent quality controls have also been announced for the solar equipment which has mandated that, effective April 16, 2018, all solar PV manufacturers will have to register their equipment with the Bureau of Indian Standards (BIS). Apart from the consumer safety and quality control the other important reasons for adoption of stringent measures seems to target turning India into a manufacturing powerhouse like neighbouring China. In this regard India has gradually raised import taxes on low-value components such as batteries, chargers and earphones, pushing Indian firms to assemble them.

The progress is seemingly slow in the **smart city** mission implementation and it is reported that of all the urban missions, Smart Cities has the lowest utilization at 1.83 per cent of the total `9,943 crore (1.24 euro billion) released so far. However, the government along with the concerned States, Ministry of Finance and Government think tank Niti Aayog is closely monitoring the progress of important mission mode projects such as Smart Cities and Swachh Bharat missions.

India is one of the largest and fasted growing **electronics market** in the world. Presently, Indian electronics market is expected to grow at 41 per cent CAGR between 2017-20 to reach US$ 400 billion. This has prompted the Indian government to draft the upcoming National Electronics Policy (NEP) with an increased focus on exports as it looks to harness the local capacity in electronic goods,

including smartphones built for the domestic market. The Ministry of Power is also ensuring faster deployment of **smart prepaid meters** throughout the country within next 3 years.

In Automotive sector, with a vision of having electrical vehicles on road by 2030, Ministry of Road and Transport is giving a lot of emphasis on creation of an ecosystem for electrical charging of the E-Vehicles. Amendments to the electricity Act 2003 have been made clarifying that the charging of batteries of electric vehicles through charging station does not require any license. It has also proposed to set up charging stations for electric vehicles every 3 KMs in cities with million-plus population and as part of smart cities, and every 50 km on busy national highways. Other initiatives in this sector are Zero emission policy, introduction of FAME (Faster Adoption and Manufacturing of Hybrid and Electric Vehicles) Phase II and purchase of Electrical vehicles for the govt. department which is under progress.

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

Happy reading!!!

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

2. Key Meetings, Event Participation and Queries

SESEI expert during this quarter period (April 2018 – June 2018) carried out various important meeting, participated in many event/workshops and addressed many queries as summarized below. These meetings, event participations are essential to help achieving the objectives of Project SESEI.

Sr. No.	Description	Total Until now	In Last Quarter
1	External Meetings	241	45
2	Internal Meetings	99	5
3	Events/Seminar/Workshop/Roundtable	126	15
	Total	**466**	**65**
4	No of Queries	168	28

Detail of few important meetings and event/workshop participations during last quarter is briefly summarized below. 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 9" to this report.

Key Meetings:

Following are the list of few key meetings presented sector wise which SESEI expert addressed during the last quarter.

Meetings with BIS

Generic:

- **Meeting with Senior officials of BIS - IRD, ETD and LITD for conference participation and MoU status follow up:** To seek their support and cooperation for the 3rd Indo- European Conference on Standards & Emerging Technology and take a status of CEN CENELEC MoU.

Smart Cities:

- **2nd & 3rd meeting of LITD 28 - Smart infrastructure Sectional Committee:** SESEI expert is a member to this technical committee at BIS LITD 28 and contribute EU work such as oneM2M Common Service Layer architecture and other related work.

Electrical Equipment including Consumer electronics:

- **14th meeting of Power System Control and Associated Communications Sectional Committee, LITD 10 at BIS:** SESEI Expert has been following up with BIS to include his name as part of LITD 10 handling Smart Grid Standardization. Finally the TC chairman approved SESEI expert nomination. SESEI expert attended this meeting and nominated for following panel committee.

- **Meeting with Head of BIS MED (Mechanical Engineering Department):** to discuss the Niti Aayog Model Concession Agreement (MCA) Document listing CEN standards as a mandatory compliance for Ropeway procurement in India.

Automotive:

- **Eighth Meeting of the Intelligent Transport System Sectional Committee, TED 28:** After long follow up SESEI has been finally coopted to be a member for the sectional committee of TED on Intelligent Transport System. Chairman has asked SESEI expert's help sharing status of ITS standardization in EU.

- **2nd Working Groups Meeting under National ITS Committee:** NITI Aayog organized the 2nd Working Group meeting of the National ITS Committee. As SESEI expert is participating BIS Technical Committee on ITS, SESEI expert name was included in WG. During the meeting, WG chairman asked SESEI expert to share the EU work around this topic and arrange a webinar remote session with EU Expert especially around Tolling and Traffic Management.

Meetings with DoT and other Government Bodies:

Electrical Equipment including Consumer electronics:

- **Meeting at NITI AAYOG for CEN Standards for the Ropeways:** SESEI is working closely with the European Industry to support the implementation of Ropeways in India based on CEN standards.

- **Roundtable discussion organized by the NITI Aayog PPP Cell on Draft Model Concession Agreement ("MCA")** associated with Public-Private Partnership framework for implementing Ropeway Projects.

- **Meeting with Consultant, PPP Cell, NITI Aayog:** to discuss the CEN Standards for the ropeways.

ICT:

- **Meeting with Special Secretary, Department of Telecommunication (DoT):** Meeting of the High Level Forum (HLF) on 5G Education Awareness & Promotion with Mr. N.Sivasailam, Special secretary to discuss the progress of the Forum. High-Level Forum on 5G has been constituted by the DoT for smooth deployment, introduction of 5G Ecosystem and awareness on 5G technologies. SESEI expert in individual capacity has been nominated to contribute to TF on EAP & standards.

- **Meeting with Mr. B.M.Baveja, Sr. Director & Group Coordinator, R&D in IT and CC&BT, DeitY :** to discuss areas of cooperation and collaboration

- **Meeting with Honourable Minister, Mr Hardeep Singh Puri, Ministry of Housing and Urban Affair:** Handover of Event Report on India M2M+IoT Forum event on Smart Cities and Smart Villages.

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

Generic:

- **Meeting with Mr. Rijoy Sengupt, Regional Manager (North), German Engineering Federation (VDMA):** introduction and understanding of SESEI Project and its activities in India. Feedback on standrads questionnaire.

- **Meeting with GIZ team responsible for EU-INDIA cooperation in Environment, Resource Efficiency and Circular Economy: to provide inputs and discussion on** Standards and Technical Regulation.

- **Interview with UK agency on Consumer Safety Rules**

ICT:

- **EBG Telecom Sector Committee Meeting** to ascertain the purpose and objectives of sectoral committee, status of the past work/issues undertaken, current Issues of the Industry.

- **Meeting with EU Delegation officials headed by EU Ambassador:** Handover M2M Papers

Meetings organized and attended with EU delegation at sidelines of 3rd Indo-European Conference on 26th April 2018

Generic:

- **Meeting between Steering Committee members and EU Delegation offices to India:** The Steering Committee members of the Project SESEI stakeholders met with Mr. Klaus Pendl and other senior officials from the EU Delegation to India, to discuss the issues on, EU INDIA FTA, Ongoing Close cooperation between SESEI and EU Delegation office, etc.

- **Meeting between BIS and DG Grow, European Commission:** The meeting was chaired by Mr. Joaquim Nunes De Almeida from EC and Mrs. Surina Rajan, DG BIS. To discuss the ongoing cooperation between BIS and Project SESEI and to identify other areas of mutual interest.

ICT:

- **Meeting between SC# Members and TSDSI (Telecom Standardization Body in India):** to primarily discuss Ongoing Cooperation with project SESEI, updates on the activities, working with EU-INDIA ICT PI and how both sides can work together more strategically etc.

- **Meeting between CDOT and DG Grow, European Commission:** A meeting between the representative of European Commission, ETSI & Project SESEI team was held along with CDOT

officials on cooperation between CDOT and Project SESEI and to identify further areas of cooperation.

Meetings with Industry & Associations:

Generic:

- **Review Meeting with CII for 3ʳᵈ Indo-EU Conference on Standards and Emerging technology on 26th April, 2018**

Electrical Equipment including Consumer electronics:

- **Meeting with Mr. Reji Kumar Pillai, Chairman ISGF:** On the occasion of signing of the MoU between CENCENELEC and ISGF (India Smart Grid Forum).

- **Meeting with Electronic Sector Skill Council:** Mr. Saleem Ahmed, Vice President-Business Development and Mr. Mahpatra, Head of Sector Council at Electronics Sector Skills Council of India (ESSCI) met SESEI to explore synergies and how best SESEI could work with the council.

Automotive:

- **Conference call meeting with Mr. Rahul Bagdia of Pmanifold to discuss the SESEI's outlook on EV's growth in India and to provide** the Regulatory and Policy Landscape around Electric Vehicles (EVs) in India.

ICT:

- **Conference Call of the Task Force on Action Plan for Participation in Global standards and Forums: 5G HLF** by Prof. Bhasker Rama Murthi, founder of the CEWIT (Centre of Excellence for Wireless Technologies) at IIT Madras along with important officials and DG of TSDSI, Prof. Abhay Karandikar, Senior officials from MEITY and Mr. Vipin Tyagi ED CDOT.

- **Meeting with Key Representatives of IEEE India:** to discuss the progress and update of the ICT Standardisation activities in India by TSDSI, BIS, TEC and especially 5G HLF initiative

- **BIF Hi-Level Committee on ICT for Inclusive ability (PwDs):** Broadband India Forum Constituted a High Committee on ICT for Inclusive ability. SESEI expert is nominated as a Vice Chairman to this committee.

- **IET – IoT Meetings:**
  - **Conference Call Meeting of IET IoT Panel Security WG:** First meeting of the newly set up IoT Security Working Group was held to set the scope and ToR for the Security Panel.
  - **Conference Call meeting of Standards Legal and Regulatory (SLR) Working Group** to discuss the flow of track around Standards during the IET IoT Congress 2018

- o **Conference call with Dr. Arvind Tiwary, Chair of the Security Working Group, IET IoT Panel WG on Cyber Security**

- **High Level Forum on 5G EAP (**Education/awareness/ Promotions) **setup under DoT 5G HLF:** SESEI is the member of 5G EAP Committee constituted by DoT for 5G Awareness under its 5G HLF to discuss the possibility of hosting global events on 5G in India as well as creating India centric events.

Internal Meetings with Project Partners:

- **Coordination call with Eric Marchand (CCMC)** to review the status of pending items

- **Program Committee Review Meetings: Conference 26th April & Study Report:** Periodic review of the action items and pending actions for the organization of the 3rd Indo-European Conference on Standards & Emerging Technology & Finalization of Study Reports

- **Steering Committee Meeting No. SC#7:** The SC#7 was held in India for the first time at the sidelines of EU-INDIA conference.

Key Event Participations:

Generic:

- **3rd Indo-European Conference on Standards & Emerging Technology:** European Committee for Standardization (CEN) European Committee for Electrotechnical Standardization (CENELEC), European Telecommunications Standards Institute (ETSI), European Commission's Directorate General for Internal Market, Industry and Entrepreneurship (DG GROW) and European Free Trade Association (EFTA) in the framework of its Project SESEI along with Confederation of Indian Industry (CII) are organized the 3rd Edition of Indo-European Conference on Standards and Emerging Technology on 26th April, 2018 at Hotel The Lalit, New Delhi.

- **5th National Standards Conclave with the theme "Implementing the Indian National Standards Strategy":** organized by Confederation of Indian Industry (CII) and the Department of Commerce, Ministry of Commerce and Industry.

- **CxO Forum on Standardizing the Digital Space:** BIS organized a CxO Forum to deliberate on the key issues and challenges in the Digital space. BIS hosted the 33rd plenary meeting of ISO/IEC JTC 1/SC 7 'Software and Systems Engineering' in India during 06-11 May 2018.

ICT:

- **ITU-APT roundtable on 5G spectrum:** ITU-APT Foundation of India hosted a round table discussions on 5G spectrum. SESEI Participated in the Roundtable as the agenda was focused on the 5G spectrum bands.

- **31st Global ICT Standardization Forum for India (GISFI) Meeting jointly with the IEEE 5G Summit:** SESEI was invited by GISFI to give Keynote Address at the 31st GISFI Standardization Series Meeting (GSSM).

- **5G India 2018 - 3rd Conference** organized by Bharat Exhibition and supported by DoT, Ministry of Communications. Mr. Adrian Scrase is attended the conference as a Key Note Speaker.

- **TRAI Open House on the "Making ICT Accessible for Persons with Disabilities":** SESEI has been closely involved with the adoption of EN 301549 in India. During the open house importance of EN 301 549 was highlighted.

- **Curtain Raiser of IET IoT India Congress 2018:** SESEI expert is the chairman of their WG on Standards, legal and regulatory

- **EBG Leadership Series 2018:** 6th Leadership Series: lecture with Mr. Manoj Kohli, Executive Chairman, SB Energy (Softbank Group).

- **35th MAIT Annual Day:** organized by MAIT to review all FTAs to limit extensive market access given to electronics sector and brainstorm on how it's impacting the IT & Electronic Hardware Industry.

- **IEEE 5G Technology Workshop in Bangalore:** IEEE 5G Initiative in association with DoT and TSDSI organized a two-day focused workshop on 5G Technology.

- **5G India Congress 2018:** The event was also supported by 3GPP and ETSI.

Machinery:

- **Invitation to VDMA Members Meet - Northern Region**

Key Queries addressed:

Generic:

- **Provided inputs on the Indian consumer product safety system** for a study on consumer product safety in April commissioned by UK consumer organisation RAND Europe

- **Inputs on creation of Action Plan/guidelines for India's participation in the global SDO's meetings:** IIT Madras

Smart Cities:

- **Details on BIS List of IEEE Standards on Smart Grid, Power Systems, Renewables and Cyber Security:** Siemens India

Electrical Equipment Including Consumer Electronics:

- **Inputs on EV Charging Docks for Public Transport Buses & Taxis**: Department of Science and Technology (DST) requested SESEI to list EV Charging Docks for Public Transport Buses & Taxis as a specific item for discussion, and collaboration.

- **Response to query on Equipment Type Approval (ETA) requirements for imports to India (under custom tariff -8517.62.10 PLCC equipment)**: Delegation of EU in India & Embassy of the Republic of Slovenia, New Delhi

- **Provided a summary overview list of IEEE standards** which are under discussion at BIS for adoption: Siemens Germany

Automotive:

- **Provided drafted report on "Intelligent Transport System (ITS) in Europe"**: Chairman of Technical Committee at BIS asked SESEI to prepare a brief report on ITS in Europe covering Policy and Standardization updates.

ICT:

- **Shared various reports on Industry & Residential Front** along with a presentation covering update on work from 3GPP, oneM2M, ETSI etc.: Huawei India

- **Shared Information on cloud interop standardisation**: Vodafone India

- **Provided information on Wireless Planning & Coordination (WPC) requirements** for GPS devices and Wireless Sensors (433Mhz): Strategic Alliance & Business Development Anstel Private Limited

- **Provided details of the IoT / M2M Guidelines** issued by TEC and the essential requirements and certification approval guidelines on the IoT related subjects: Vyom Technologies

- **Inputs on the National Digital Communications Policy 2018**: EBG, FICCI etc.

3. Generic Update

3.1 Indian government mandates stringent quality control order for solar equipment

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

The government has already set up laboratories for the testing of PV modules and inverters. However, to skirt the expected delay of testing in these laboratories, module manufacturers will have to submit self-certification, which shows that the product matches Indian standards or International Electrotechnical Commission (IEC) counterparts (including subsequent standards, if any). The self-certification must include proof of the submission of samples to the laboratories. Submission of samples will not be necessary along with self-certification in cases where the material for which self-certification is being carried out, has already been IEC certified. In such a case, it would be sufficient for the self-certification to be accompanied by the IEC certificate and test reports. In cases of imported materials for which self-certification is being sought, self-certification may be given either by the manufacturer or the importer.

The schedule included in the latest notification from the government specifies the product and relevant Indian Standard Number:
- Crystalline Silicon Terrestrial Photovoltaic (PV) modules (Si wafer based): IS 14286: 2010
- Thin-Film Terrestrial Photovoltaic (PV) Modules (a-Si, CiGs and CdTe): IS 16077 : 2013
- PV Module (Si wafer and Thin film): IS/IEC 61730 (Part 1) : 2004, IS/IEC 61730 (Part 2) : 2004
- Power Inverter in photovoltaic power system: IS 16221 (Part 1): 2016, IS 16221 (Part 2): 2015
- Utility–Interconnected Photovoltaic inverters: IS 16169 : 2014

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3.2 Mandatory local telecom equipment testing

The government has extended the deadline for mandatory local telecom equipment testing to March 31, 2019, a move that will give some relief to gear makers such as Nokia, Ericsson and Huawei. the government aims to implement its plan of mandatory telecom equipment testing from October 1 2018 it will be limited to some equipment such as fax machines and modems to start with and the number of products to be brought under its ambit will be increased in phases.

The decision has come after the Cellular Operators Association of India (COAI), in a letter dated May 29, 2018, requested the Department of Telecommunications (DoT) to extend the deadline and to also allow existing test reports to stand valid as long as there is no change in equipment's configuration.

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Mandatory Testing and Certification of Telecom Equipments (MTCTE) : provides that every telecom equipment must undergo mandatory testing and certification prior to sale, import of use in India. The detailed procedure for Mandatory Testing and Certification of Telecom Equipment (**MTCTE**) under these rules have been notified separately. The testing is to be carried out for conformance to Essential Requirements for the equipment, by Indian Accredited Labs designated by TEC and based upon their test reports, certificate shall be issued by TEC.

Please click here to know more about Mandatory Testing and Certification of Telecom Equipments (MTCTE)

3.3   India imposes 10 percent tax on import of key smartphone components

India has imposed a 10 percent tax on imports of key smartphone components, including populated printed circuit boards (PCBs), as it moves to step up local assembly of mobile devices in the world's second-biggest smartphone market. A customs duty of 10 percent was imposed on PCBs that are already populated with components such as memory and chips, according to a federal government notification issued on Monday. Populated PCBs account for roughly half of a typical smartphone's cost. A 10 percent customs tax was also imposed on the imports of camera modules for phones and connectors. The taxes are part of phased manufacturing programme (PMP), a plan unveiled in 2016 to step up local value addition every year in smartphone manufacturing.

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

MeitY released "Modified Surveillance Process" under Electronics and Information Technology Goods (Requirement for Compulsory Registration) Order, 2012. The modified Compulsory Registration Scheme (CRS) process is a step forward in this direction as it intends to have a wider outreach in terms of scalability and accountability.   The effective surveillance is an integral part of the Compulsory Registration Order. The surveillance comprises of random surveillance of registered manufacturer and market surveillance to curb the sale of non-registered/non-compliant notified goods being sold in the market.

Read more/Download

3.5   Bureau of Indian Standards (BIS) notified Conformity Assessment Regulations, 2018

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

3.6   New BIS Standards on Information and Documentation RFID in libraries

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

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3.7   BIS Issues revised Unified Test Report Format for Products covered under CRO

BIS has issued common test report formats for each standard/edition/amendment.

Unified Test report Formats (UTRFs) for products covered under Compulsory Registration Scheme (CRS)

List of products covered under CRS can be viewed here

4   SMART CITIES

4.1   Selection of 100th smart city and total proposed investment under the Smart Cities mission

Shillong, the capital city of Meghalaya has been selected as 100th Smart City after evaluating the proposal submitted by it. Till now, 99 smart cities had been selected in four rounds of competition and with this announcement, selection of 100 cities has been completed under the Smart Cities Mission. Previously, 20 cities were selected in January 2016, 13 cities in May 2016, 27 cities in September 2016, 30 cities in June 2017 and 9 cities in January 2018. With the selection of Shillong, the total proposed investment in the finally selected 100 cities under the Smart Cities Mission would be Rs.2,05,018 crores (25.6 euro billion).

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4.2   Urban transformation take lead, put safety & waste disposal in back seat

While urban transport is the topmost investment priority for cities selected under the government's Smart City Mission, safety and solid waste management issues are at the bottom of the list.

- 100 cities that are part of the Mission are expected to make investments of Rs 2.05 lakh crore (25.6 euro billion)
- Highest share of over Rs 33,000 crore (4.12 euro billion) of the investment - around 16.6 per cent - is proposed for urban transport
- While most cities are faced with a solid waste management crisis, only 2.4 per cent (Rs 4,896 crore (612 euro million)) of the total investment is directed towards this sector.
- Social sectors and storm water drainage are also a low priority on the investment agenda with just 2.5 per cent (Rs. 5,100 (63.75 euro) each) for projects in these areas.

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4.3   ABB India signs MoU with IIT Roorkee for Smart Cities mission pilot Project

ABB (India Limited) has signed a memorandum of understanding with the Indian Institute of Technology Roorkee (IITR) for technical cooperation to construct an operational smart electricity distribution network and management system (SDNMS) in its campus. This will serve as a pilot project for the Government of India's Smart Cities Mission. The agreement also includes the creation of a Smart Grids Resource Centre and joint R&D facilities in the field of efficient power generation and distribution with a focus on clean energy over the next five years. India, the world's third largest consumer of electricity, is working to transform its urban energy infrastructure to make it more citizen friendly and sustainable.

A cost-effective smart distribution system has the potential to significantly reduce India's carbon footprint.

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5 Electrical Equipment including Consumer Electronics

5.1 All electricity meters to be smart prepaid in next 3 years

All electricity meters in India will become smart prepaid meters in the next three years was announced by the Minister of Power. Addressing meter manufacturers, the Minister asked them to scale up manufacturing of smart prepaid meters as their demand is bound go up in the coming years.

"In the next 3 years, metering will go smart and gone will be the days of bills reaching your house. So, need of the hour is to scale up manufacturing of smart prepaid meters and to bring down their prices," the statement cited. The minister has also advised officials to consider making smart meters mandatory after a particular date.

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5.2 Indian govt steps up focus on electronics exports, new policy to outline measures

The government is drafting the upcoming National Electronics Policy (NEP) with an increased focus on exports as it looks to harness the local capacity in electronic goods, including smartphones built for the domestic market. The idea is to ensure that there is no excess manufacturing capacity and instead utilise the same to build products for customers globally.

India is producing close to 22.5 crore (2.8 euro million) mobile phones and the total consumption is around 35 crore (4.87 euro million) in India currently. The rate at which the production is growing, it will soon be reaching the total consumption level. This has created a stronger case for looking at how India can have a more export conducive ecosystem in the country. Among other things, the policy will focus on increasing ease of doing business, currently the export of electronic goods is only about $6.4 million.

The new electronics policy will focus on taking manufacturing to the next level with specific attention to boosting upcoming areas such as medical electronics. Over the last couple of years, the series of changes in the duty structure have led to the reversal of fortunes for the domestic manufacturing industry. There are around 120 factories mobile manufacturing facilities in India doing a production of upwards of Rs. 1,20,000 crore (15 euro billion).

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5.3 Ministry of New and Renewable Energy (MNRE) has released following clarifications & Notifications:

- Revised notification for implementation of Solar Photovoltaics, Systems, Devices, and Component Goods (Requirement for Compulsory Registration under BIS Act) Order 2017. Read more/Download
- Notification of "Quality control order of Solar Photo voltaic Systems, Devices and Components Goods" Read more
- Clarification on charging infrastructure for Electric Vehicles with reference to the provisions of the Electricity Act, 2003. Read more
- Clarification to Guidelines for Tariff Based Competitive Bidding Process for Procurement of Power from Grid Connected Solar PV Power. Read more

6 Automotive

6.1 E-vehicles charging stations need no licence

Transmission, distribution and trading of electricity need licences under the Electricity Act. Therefore, all utilities have to seek licences for sale of power to consumers. The ministry said in a clarification that during the charging of e-vehicles, a station does not perform any activity related to the transmission, distribution or trading of electricity. Hence charging of batteries of electric vehicles through charging station does not any require licence under the provision of the Electricity Act 2003. The clarification follows confusion over whether during charging of battery for use in electric vehicles, the charging station performs any activity of transmission, distribution or trading of electricity, which would require a license under the Act.

The power ministry has categorised charging batteries of electric vehicles as a service, a move which will help such stations operate without licence and encourage the use of e-vehicles.

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6.2 Government proposes charging points for Electric Vehicles (EVs) every 3 KM

The government proposes to set up charging stations for electric vehicles every three kilometres in cities with million-plus population and smart cities, and every 50 km on busy national highways. It is likely to offer fiscal incentives and facilitate land from municipal authorities for those interested in setting up the infrastructure, which is a key requirement for the proliferation of electric vehicles.

It is expected that 30,000 slow charging and 15,000 fast-charging stations will be required to be put up in a phase-wise manner in the next 3-5 years. There should be at least two high-charge points and one fast-charging point at every three kilometres in cities. Similarly, there should be electric vehicle charging station every 50 km on highways. Land for setting up the charging stations is likely to be identified in consultation with local authorities and electricity distribution utilities and given on long-term lease to companies willing to set up the facilities, another government official said, speaking on the condition of anonymity.

6.3   Government may soon consider FAME-II scheme with Rs 9,381 cr (1.17 euro billion) outlay

The Union Cabinet may soon approve the proposal entailing financial support of Rs. 9,381 Crore (1.17 euro billion) in the second phase of the Faster Adoption and Manufacturing of (Hybrid &) Electric Vehicles in India (FAME India) scheme spanning five years to boost adoption of energy-efficient vehicles in the country. The Heavy Industry Ministry had circulated a draft Cabinet note with details of the proposed scheme among various related government departments, including power, new and renewable energy, road transport and highways, finance and others. The final Cabinet note incorporating the views of related government departments has been prepared and may soon be taken up by the Union Cabinet for approval, paving the way for the roll out of FAME- II. The total requirement of the fund is Rs 9, 381 crore (1.17 euro billion) spanning five years from 2018-19 to 2022-23. However, the second phase of the scheme will be restricted to new energy vehicles used for public transport, commercial purposes and high-speed two-wheelers.

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

Government has decided to postpone the mandatory requirement to have Global Positioning System (GPS) equipment and panic button connected to all public transport service vehicles till April 1, 2019. On the basis of the Centre's directive, the state's motor vehicle department had been in the process of setting up a radar surveillance system to monitor passenger vehicles when the GPS is fitted on them.

Centre for Development of Advanced Computing (C-DAC) is developing a software titled 'Suraksha Mitra' that can track, locate and give the real time data of one lakh vehicles.

The motor vehicles department has also set up a control room for tracking the vehicles. The Centre had asked the state government to make it mandatory a particular technical specification (AIS-140) for all GPS equipment. On the basis of this, the CDAC has begun testing and empanelling GPS manufacturers who had expressed interest for supplying the AIS-140- specified GPS equipment.

6.5   National Institution for Transforming India (NITI Aayog) submits draft Cabinet note on zero-emission vehicle and ancillary technology

NITI Aayog has submitted a draft Cabinet note on developing a strategy for zero emission vehicles and ancillary technology, in order to promote electric vehicles. NITI Aayog in its role as government think tank has proposed the formation of six committees. Each committee, to be headed by the respective secretaries which will decide issues pertaining to finalisation of non-fiscal incentive; promotion of last mile connectivity; electric mobility in public transport; technology development of R&D electric mobility;

charging infrastructure for electric mobility, and demand and supply-side incentive. Niti Aayog has also submitted a draft cabinet note on developing a strategy to scale up transformative mobility for uptake of zero-emission vehicles and ancillary technology.

Read more

6.6   Ministry of Road, Transport and Highway has released following notifications:

- Notification no. S.O. 1663(E) regarding Exemption of Vehicle Location Tracking device and emergency buttons in Public Service Vehicles Read more
- Draft Notification no. S.O. 1522(E) regarding Revised Speed Limits Read more
- Notification no. G.S.R 201(E) regarding Emission standards for CEV and Agricultural tractors Read more
- Notification no. G.S.R. 243(E) (3rd Amendment, 2018) regarding simplification of forms for DL Read more
- Notification no. G.S.R. 453(E): regarding Background colour of registration plate for electric vehicle Read more
- Notification no. G.S.R 371(E): regarding Light and Light Signaling Devices. Read more
- Notification no. G.S.R 367(E): regarding Standardisation of Fully built bus as per AIS 153. Read more

7   ICT

7.1   Department of Telecommunications (DoT) releases draft National Digital Communications Policy (NDCP)

On 1 May 2018, the Department of Telecommunications (**DoT**) released draft of new National Digital Communications Policy – 2018 (Draft Policy) for public comments. Draft policy seeks to unlock the transformative power of digital communications networks - to achieve the goal of digital empowerment and well-being of the people of India; and towards this end, attempts to outline a set of goals, initiatives, strategies and intended policy outcomes.

The National Communications Policy aims to accomplish the following Strategic Objectives by 2022:

I.   Provisioning of Broadband for All
II.   Creating 4 Million additional jobs in the Digital Communications sector
III.   Enhancing the contribution of the Digital Communications sector to 8% of India's GDP from ~ 6% in 2017
IV.   Propelling India to the Top 50 Nations in the ICT Development Index of ITU from 134 in 2017
V.   Enhancing India's contribution to Global Value Chains
VI.   Ensuring Digital Sovereignty

Read more/Down load Draft NTP 2018

7.2 Taskforce recommends establishment of national mission for coordinating AI-related activities across India

A Task Force on Artificial Intelligence (AI) set up by the Indian Government's Ministry of Commerce & Industry in August 2017 and headed by Professor V Kamakoti from the Indian Institute of Technology, Madras has submitted its report. One of the key recommendations in the report is to establish an inter-ministerial national mission to coordinate AI-related activities across the country.

The taskforce looked at AI as a socio-economic problem solver at large scale, rather than only a booster of economic growth. The report attempts to answer three policy questions:
1.   What are the areas where Government should play a role;
2.   How can AI improve quality of life and solve problems at scale for Indian citizens; and
3.   What are the sectors that can generate employment and growth by the use of AI technology?

The taskforce identified 10 important domains of relevance to India: Manufacturing, FinTech, Healthcare, Agriculture/Food processing, Education, Retail/Customer Engagement, Aid for Differently Abled /Accessibility Technology, Environment, National Security and Public Utility Services. The report elaborates on specific challenges in the adoption of AI-based systems and processes in these domains and discusses key enablers, as well as ethical and social safety issues to ensure responsible use of AI. *Access the complete report here.*

There are other Government-established committees working on different aspects of AI.
*   The Ministry of Electronics and Information Technology has set up four committees to understand various regulatory and technical challenges associated with AI and potential implementation areas.
*   NITI Aayog (National Institution for Transforming India), the premier policy thinktank of the Government of India, has been asked to initiate a national programme to direct efforts in the area of AI)

Read more

7.3 Department of telecommunications (DoT) has issued 13-digit numbers for M2M network trials

The Department of Telecom has issued 13-digit numbers to telecom operators for the trial of machine-to-machine (M2M) communications like smart electric metres and car tracking devices. The 13-digit numbers have been allocated to state-run firm BSNL and private telecom operators Bharti Airtel, Reliance Jio, Idea Cellular and Vodafone for testing purposes only.

According to a letter sent by the DoT to operators, the authority has approved allocation of "1 million codes for testing purpose for each LSA (licence service area)" to service providers. M2M communication, a new-age technology, is at the heart of concepts such as smart homes and smart cars. M2M communication can include a gas, electricity or water meter communicating information it records such as consumption level, or a vending machine alerting distributor when stocks run low, or transmission of

data about personal appliances. The Telecom Regulatory Authority of India has recommended that all telecom licence holders should be allowed to provide M2M service using any spectrum. However, it has suggested that critical M2M services should be provided by those companies who have licensed spectrum. The regulator has also recommended that Government to issue new category of licence for M2M services for companies interested in providing or operating services in this segment only.

Read more

7.4 DoT makes changes to India's internet telephony guidelines

Department of Telecommunications (DoT) in a note dated June 19, 2018 made some changes to India's internet telephony guidelines. DoT said access service providers can provide Internet telephony to the customers using Internet service of the other service providers. This is because Internet telephony services envisaged in the licenses is un-tethered from the underlying access network, DoT said in its clarification. *You may download DoT's clarification regarding Internet Telephony form here*

DoT's notification said the mobile numbering series should be used for providing Internet telephony by a Licensee. TSPs are allowed to allocate same number to the subscriber both for cellular mobile service and Internet telephony service. The access service licensee should use private ENUM in its network for telephone number mapping from E.164 to SIP/H.323 addresses and vice-versa. DoT said the licensees should comply with all the interception and monitoring related requirements as specified in the licence. The public IP address used for originating / terminating Internet telephony calls should be made a mandatory part of CDR in case of Internet telephony. The location details in form of latitude and longitude should be provided.

Read more

7.5 TRAI, Europe telecom regulator group BEREC sign MoU, back net neutrality

The Telecom Regulatory Authority of India (TRAI) and European telecoms regulator group BEREC (Body of European Regulators for Electronic Communications) have jointly backed an open internet while calling for effective regulation of electronic communications even as net neutrality rules officially expired in the US earlier this week. TRAI and BEREC inked a memorandum of understanding (MoU), underscoring their "common understanding of the building blocks of net neutrality rules" and core aspects of the regulators' mission in preserving them, the Indian telecom regulator said in joint statement.

Read More

7.6 Policies / Regulations/ Key Notification/Clarification released by Government

- Ministry of Electronics & Information Technology (MeitY) has notified "Information Technology (Information Security Practices and Procedures for Protected System) Rules 2018. Read more/download
- National Institution for Transforming India (NITI) aayog released discussion Paper on National Strategy for Artificial Intelligence. Read more/download

7.7   Telecom Regulatory Authority of India (TRAI)

Consultation Papers on:

- Draft Telecommunication Tariff (64th Amendment) Order, 2018
- Draft Telecommunication Consumers Education And Protection Fund (Fourth Amendment) Regulations, 2018
- The Draft Telecom Commercial Communications Customer Preference Regulations, 2018
- The Draft Telecommunication Interconnection (Amendment) Regulations, 2018'

Recommendations:

- TRAI's Response to DoT's back-reference on Recommendations on 'In-Flight Connectivity'
- TRAI releases Recommendations on ''Next Generation Public Protection and Disaster Relief (PPDR) communication networks''

8   Activities by other standards development organization in India

8.1   Global ICT Standardization Forum for India (GISFI)

- 29th GISFI Standardization Series Meeting (GSSM) reward 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   Institute of Electrical and Electronics Engineers (IEEE)

Institute of Electrical and Electronics Engineers (IEEE) organized following conference/workshop:

- IEEE - India Electronics Week 2017
- IEEE - Computer Society India Symposium (CSIS) 2017: The theme of the event was "Human and Computers".
- IEEE organized 2-Day Technical Forum on Smart Grid for Smart Cities India: SESEI expert shared presentation on EU standards on Smart Energy Grids
- **IEEE SmartTech Workshop In collaboration with NASSCOM, COE IoT & TiE**: Digital transformation with Cognitive Minds and Machines

9   Planned Activities for Next Quarters

1. Follow-up on action items with BIS, CDOT and TSDSI which came during the sideline meetings held in April between EC and SESEI Project Partners with the Indian Stakeholders.

2. Close engagement with Niti Aayog & BIS on the issues of ITS

3. EN 301 549 adoption activities: New Hi-Level Committee on ICT for Inclusive ability at BIF: SESEI expert is Co-Chair, CDAC, MeitY, TRAI recommendation etc.

4. 5G HLF Task Force on Education, Trials and Standardisation: SESEI expert is a member

5. Ropeway Standard

6. CEN CENELEC & ETSI MoU with BIS and CENELEC MoU with ISGF Closure

7. Preparation & release of one sector profile report

8. Monthly Activity Tracker, Draft Standards under WC and Bi-Weekly News/Policy

9. Release 10th edition of Quarterly report (July to Sept '18) and 10th edition of Newsletter India and Europe (July to Sept '18)

10. Participate in Important event as speaker/delegate

11. Monthly/ Quarterly/ Yearly Tax & Regulatory Compliance

10   Glossary

Sr. No.	Acronym	Expansion
1	3GPP	3rd Generation Partnership Project
2	5G	5th Generation
3	AI	Artificial Intelligence
4	AIS	Automotive Industry Standards
5	AMRUT	Atal Mission for Rejuvenation and Urban Transformation
6	BEREC	Body of European Regulators for Electronic Communications
7	BIS	Bureau of Indian Standards
8	CDOT	Centre for Development of Advanced Computing
9	CDR	Call Detail Record
10	CEN	European Committee for Standardization
11	CENELEC	European Committee for Electrotechnical Standardization

12	CII	Confederation of Indian Industry
13	CRS	Compulsory Registration Scheme
14	DG	Director General
15	DoT	Department of Communications
16	DST	Department of Science & Technology
17	EAP	Education/awareness/ Promotions
18	EFTA	European Free Trade Association
19	Ers	Essential Requirements
20	ETA	Equipment Type Approval
21	ETD	Electro-technical Division Council
22	ETSI	European Telecommunications Standards Institute
23	EU	European Union
24	EV	Electric Vehicle
25	FAME	Faster Adoption and Manufacturing of (Hybrid &) Electric Vehicles in India
26	FTA	Free Trade Aggrement
27	GPS	Global Positioning System
28	HLF	High Level Forum
29	ICT	Information and Communication Technology
30	IEC	International Electro-technical Commission
31	IEEE	Institute of Electrical and Electronics Engineers
32	IITM	Indian Institute of Technology Madras
33	IITR	Indian Institute of Technology Roorkee
34	IoT	Internet of Things
35	ISO	International Organization for Standardization
36	ITS	Intelligent Transport System
37	ITSAR	Indian Telecom Assurance Requirements
38	ITU	International Telecommunication Union
39	LITDC	Electronics and Information Technology Division Council
40	M2M	Machine to Machine
41	MAIT	Manufacturers' Association for Information Technology
42	MCA	Model Concession Agreement
43	MED	Mechanical Engineering Department
44	MEITY	Ministry of Electronics and Information Technology
45	MNRE	Ministry of New and Renewable Energy
46	MoU	Memorandum of Understanding
47	MTCTE	Mandatory Testing and Certification of Telecom Equipments
48	NEP	National Electronics Policy

49	NTP	National Telecom Policy
50	PCBs	Printed Circuit Boards
51	PPDR	Public Protection and Disaster Relief
52	PPP	Public–Private Partnership
53	PV	Photovoltaic
54	R&D	Research and Development
55	RFID	Radio Frequency Identification
56	SDO	Standards Developing Organization
57	SESEI	Seconded European Standardization Expert In India
58	SLR	Standards Legal and Regulatory
59	TC	Technical Committee
60	TEC	Telecommunication Engineering Centre
61	TEDC	Transport Engineering Division Council
62	TRAI	Telecom Regulatory Authority of India
63	TSDSI	Telecommunications Standards Development Society, India
64	WG	Working Group