

Quarterly Report No. 1

Standards, Policy and Regulation

(‘July – September’ 2019)

Oct 2019

SESEI iv – Dinesh Chand Sharma

1.	<i>Executive Summary</i>	2
2.	<i>Key Meetings, Event Participation and Queries</i>	4
3.	<i>Generic Update</i>	8
3.1	<i>National Lab Directory launched by BIS – A major breakthrough for industry in the field of testing & measurement</i>	8
3.2	<i>Consumer Protection Bill 2019 approved</i>	9
3.3	<i>Patents (Amendment) Rules, 2019 comes into effect</i>	10
3.4	<i>Commerce Ministry to soon come out with new foreign trade policy</i>	10
3.5	<i>WTO reforms must be taken up by all countries: says India</i>	11
4	<i>SMART CITIES</i>	12
4.1	<i>Smart City Mission 2.0 likely in 2020</i>	12
4.2	<i>Smart City: Report Card on the Progress made</i>	12
4.3	<i>Ministry of Housing and Urban Affairs’ planning to monetise data collected by smart cities</i>	13
5	<i>Electrical Equipment including Consumer Electronics</i>	13
5.1	<i>5 Year power vision: Scaling up the grid integration of renewable energy</i>	13
5.2	<i>India will overachieve Paris pact targets by 60% : IEEFA Sectorial report on Electrical Equipment including Consumer Electronics in India</i>	14
5.3	<i>EESL successfully installs and operationalises over 5,00,000 Smart Meters across India</i>	14
5.4	<i>Office Memorandums (OMs)/Notifications issued by Ministry of Power (MoP) and Ministry of New and Renewable Energy (MNRE)</i>	15
6	<i>Automotive</i>	15
6.1	<i>Government of India introduced New Motor Vehicles (Amendment) Bill 2019</i>	15
6.2	<i>Department of Heavy Industry has approved the sanction of 5595 electric buses to 64 Cities, under FAME II India scheme phase</i>	15
6.3	<i>India looking at newer EV battery technologies for strategic reasons</i>	16
6.4	<i>Government invites proposals for deployment of EV charging infra under FAME II</i>	16
6.5	<i>E-mobility mission to be implemented in phases based on auto industry feedback</i>	16
6.6	<i>Guidelines/Notifications: Government of India</i>	17
7	<i>ICT</i>	17
7.1	<i>DoT issues Guidelines for 5G trials across all available Spectrum bands Cabinet</i>	17
7.2	<i>MeitY seeks feedback on data bill from select organisations</i>	18
7.3	<i>MeitY whitepaper to seek opinion on non-personal data</i>	18
7.4	<i>Cybersecurity Policy to be unveiled in January 2020</i>	19
7.5	<i>Series of Measures approved to increase ICT access to PwD ctorial report on Indian ICT sector</i>	19

0 | Page



7.6	<i>Department of Telecommunications (DoT) & Telecommunication Engineering Centre (TEC)</i>	
	<i>Notifications;</i>	19
7.7	<i>Reports/White Papers/Recommendations and Consultation Papers by TRAI</i>	20
8	<i>Planned Activities for Next Quarters</i>	20
9	<i>Glossary</i>	20



1. Executive Summary

We are pleased to inform you that acknowledging the importance of presence of Project SESEI and its contribution towards strengthening cooperation between India and Europe, on new and emerging technologies standards. The Fourth phase of Project SESEI commenced from 15th July 2019. The fourth phase of the Project SESEI will make the most of the work accomplished during the second and third phases and strengthen the links and extensive network built over the past six years.

In continuation of our practice, we are happy to bring our 1st quarterly report of Project SESEI IV providing important updates related to policies, regulations, legislations and new standards for the period “July to September 2019”. Details and highlights of the activities carried out, meetings and events attended by SESEI expert are also captured in the quarterly report.

Ministry of Consumer Affairs launched an online directory recently, which provides information about Indian standards of various products and testing infrastructure in the country for the benefit of various stakeholders such as start-ups. The directory is a one-stop solution for all testing requirements and houses information about all testing facilities available in the country. Likewise, another important development this quarter was the release of “Consumer Protection Bill, 2019” which was recently approved by the Parliament. Bill aims to protect the rights of consumers by establishing authorities for timely and effective administration and settlement of consumers’ dispute. The bill also covers consumer rights on e-commerce transactions whether through offline or online transactions, electronic means, teleshopping, direct selling or multi-level marketing.

As per the news reports it is also suggested that a new foreign trade policy is on the unveil. Focused at increasing exports for the next five financial years 2020-25, the new policy would focus on simplifying procedures for exporters and importers, besides providing incentives to boost outbound shipments.

The government of India is exploring to expand the Smart Cities mission from 100 to 4000 cities in the next phase of the mission. Smart city 2.0 mission is likely to be rolled out in 2020. The Ministry of Housing and Urban Affairs is also working towards monetizing of data collected from various local bodies. The India Urban Data Exchange (IUDX) will be used as a means of transferring data between urban local bodies, private sector, academia and civil society.

5G readiness of the country, setting the scene for IoT / M2M technology and how to use Artificial Intelligence to its maximum benefit are the key focus areas for the Indian ICT industry at present. Guidelines for the 5G trials have been issued by the Department of Telecommunications for all the stakeholders. India is also working toward new cybersecurity policy, which is likely to be unveiled by 2020.

It is also a matter of great satisfaction that the Digital Communications Commission has mandated major mobile phone manufacturers to produce at least one model which satisfies the needs of Persons with Disabilities. Project SESEI continue working closely with the concerned Indian authorities for adoption of EN301549, for promotion of providing ICT access to persons with disabilities (PwD) in public procurement.



The Energy Efficiency Services Limited (EESL), a joint venture of PSU's of Ministry of Power, Govt. of India is leading the procurement and sale of Electric Vehicles in India. The company now plans to address the issue of EV Charging stations, by setting up nearly 1,000 charging stations, and is confident of deploying around 5,000 e-vehicles for various government departments by next year. Government of India also introduced a New Motor Vehicles (Amendment) Bill 2019, with major change of increased penalties for driving errors.

EESL is also making huge contributions in the Power and electronic sector. It has successfully installed over 5,00,000 Smart Meters across India. The smart meter technology is critical to India's ongoing power sector reforms. The Smart Meter National Programme that aims to retrofit 250 Millions conventional meters with smart variants will lead to 80-100 per cent improvement in billing efficiency.

The Ministry of Power has also released its vision document for 2024. The document, called "Vision 2024", aims at developing a sustainable, viable, efficient, and competitive power sector to facilitate economic and social development. Clean technologies, renewable energy sources and India's commitment to accomplish the Paris pact are the latest updates on the Electrical sector.

You will also find details of the various notifications issued by the Ministries concerning priority sectors. As always, we have also provided details of the various meeting, queries and events addressed and participated by SESEI expert.

List of draft standards released by Indian Standards organizations during this quarter is also available as **Annexure-1** with this quarterly report.

Detailed activity tracker including list of queries, events and meetings is submitted as "**Annexure -2** to this quarterly report.

Happy reading!!!

Dinesh Chand Sharma
(Seconded European Standardization Expert in India)



2. Key Meetings, Event Participation and Queries

SESEI formally stated working from 15th July 2019 for the SESEI IV Project. This quarterly report captures various important meetings attended, event / workshop participation and queries addressed by the SESEI expert during this quarter period of (15 July – September 2019). A quick dashboard of the activity summary is provided below:

Sr. No.	Description	Total Until now
1	External Meetings	29
2	Internal Meetings	3
3	Events/Seminar/Workshop/Roundtable	19
Total		51
4	No of Queries	12

Detail of few key 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.

Key Meetings:

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

Meetings with BIS

- **Meeting with BIS International Relations Department** to discuss status of ETSI, CENCENELEC MoU with BIS and Joint Workshop between BIS and CEN CLC.
- **Meeting with the IRD and ETD division of Bureau of Indian Standards (BIS)** to discuss MoU with IRD and EN-115 upgrade and Machinery safety standards copyright agreement.
- **5th meeting of LITD 13 of Bureau of Indian Standards (BIS)** to review of composition of sectional committee/panel, published Indian Standard, International activities, etc.

Meetings with TEC/ DoT and other Govt. Bodies

- **Meeting of TEC Consultative Committee formed for adoption of OneM2M specifications** to discuss the comments received from OCF, SMASING, TCS, TCIL. SESEI conveyed the importance of oneM2M for India and its smart cities rollout and address queries addressed by the stakeholders.
- **TEC meeting on " Finalizing IoT / ICT standards for Smart cities"**. Remote meeting of the members of the M2M working group to discuss the draft document prepared on the basis of inputs received for finalization of IoT / ICT standards for Smart Cities in India.



- **Audio meeting of the TEC Consultative committee formed for OneM2M adoption process** to decide the further course of action on the comments received and study of OneM2M documents.

Green passport/ Sustainable ICT

- **TEC meeting on 'Formulation and adoption of Volunteer Code of practice (VCP)** under Approach towards Sustainable Telecommunications. SESEI is working closely with TEC on the subject of Green Telecom while promoting adoption of ETSI standards
- **TEC, conference call meeting of NWG-20 for finalizing contributions for submission to ITU-T, SG-20:** SESEI is a member of the National Working Group and regularly contributes towards the various activities, providing information on European standards and the work done in the specific field.

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

General Cooperation

- **Meeting with Mr De Vroey Christophe, Trade Counsellor EU Delegation to India** and Mr. Chaitanya Kaushal to update on the SESEI IV Project, its priority sectors and the work to be carried out during the IV phase of the Project.
- **Meeting with Mr. Benoit Sauveroché, First Counsellor from EU Delegation to India** to discuss the ambition and expected outputs of the ETSI MoU with BIF, and how it articulates with the European Commission activities.
- **Video Conference hosted by the EU Delegation to India, for discussion with DG Connect:** meeting between DG CONNECT and the European telecom industry in India to discuss on the JWG topics, gather industry feedback, etc.

Meetings with Industry & Associations:

- **Conference call meetings of the OneM2M Workshop preparatory Committee:** Various conference call meeting of ETSI Officials with CDoT, TSDSI and SESEI were held to finalize the agenda, topics and suggested speakers for the 2day OneM2Mworkshop in India in August 2019.
- **Meeting with Mr. Krishna Sirohi, Senior official from Broadband India Forum (BIF)** to discuss the way forward to execute the key points of the MoU signed between ETSI and BIF.
- **Conference call meeting of the Panelist of "Standards Legal & Regulatory" Session, IoT Congress 2019** to discuss flow of the session and the focus areas for each of the panelist.



- **Meeting between ETSI and IISc Prof. Inder S Gopal, Amrutur Bhardwaj** to understand the scope of IISc proposal towards developing IUDX while using OneM2M and NGSI-LD Standards
- **Meeting with Ms. Pamela Kumar, DG TSDSI and VP TSDSI** regarding the IPR issues concerning adoption of OneM2M specifications as National standards in India
- **Meeting with official of the International Railway Summit** to discuss the possible session for SESEI as a speaker representing CEN CENELEC

Meetings with Project Partners:

- **Meeting with Mr. Luis Jorge Romero, CEO ETSI and Ms. Margot Dor Director Strategy Development, ETSI** to brief them on the agenda for the IoT Congress and the important meetings scheduled in Bangalore.
- **Conference call with Xavier Pidenoir, ETSI and Mr. Sachin Gaur Local Coordinator EU ICT project** to discuss the TSDSI Proposal for India Mobile Congress 2019 for standards focused workshop.
- **India Task Force Meetings** to discuss the upcoming workshop in India with BIS and market access related issues
- **ETSI Board Meeting:** SESEI presented update on the SESEI IV Project.
- **Steering Committee Meeting No. SC#1:** Steering Committee meeting SC#1 was held on 27th Sept 2019 at CCMC Office, Brussels

Key Event Participations:

- **5th International Conference on "Innovation for Shared Prosperity: Past Tense, Present Perplexed, Future Perfect"**. SESEI addressed the delegates on European Standardization System & Global Harmonization.
- **5G Congress 2019.** SESEI participated in the panel discussion on "Role of Indian Academia, R&D and Standards in Global 5G Ecosystem and Use Cases"
- **IoT Congress 2019, Bangalore organised by the IET- IoT Panel of India.** CEO ETSI was special invitee in the Plenary session on day 1 and Keynote on day 2 Plenary session. Special track on Standards, legal & Regulatory" was chaired by SESEI. Experts from the Industry, academia, Policymakers and SDO's were part of the panel along with Ms. Margot Dor from ETSI.
- **C DoT Foundation Day and OneM2M Workshop** was co-organized by C-DOT (Centre for Development of Telematics) and ETSI, with the support of EU-India Project and Indico. The Ministry of Communications is under the process of finalizing national standards for the IoT/M2M in India specifically for the Smart Cities. ETSI is working closely with, TSDSI, CDOT and TEC for adoption and finalization of standards for OneM2M. CEO ETSI was one of the key speakers in the plenary session



of the Conference, and also chaired a technical session on OneM2M Standards. Ms. Margot Dor, Director Strategy ETSI also moderated a session on IoT use cases on the 2nd day of the workshop.

- **CII 5G Digital India TELECOM Convergence Summit 2019:** SESEI participated in session on Collaboration and innovation in 5G and stressed on the need for SDO's to work together in a global platform like 3GPP to encourage collaboration on emerging technologies.
- **Digital Governance Tech Summit - 2019 organised by Microsoft India:** SESEI participated in the roundtable on 'IT Accessibility policy for Empowerment of Persons with Disabilities'.
- **5G Leadership Summit Mumbai:** SESEI expert gave presentation on "Are We Ready For 5G Deployment? Regulation, Standards and Spectrum Focus".
- **Digital Communications India Forum Mid-Year 2019 Seminar on 'Role of Advanced Technologies in Nation Building':** SESEI was invited as a keynote speaker on 'Next Generation ICT applications for transformation". SESEI gave a presentation on 5G Applications.
- **Launch of European Economic Group:** EEG is launched as a multi-stakeholder working group is positioned as a single European business voice in India. SESEI joined the group as ICT Expert.
- **Webinar on IoT Security organized by ICT Project Instrument of EU Delegation to India:** Deputy Director General (Smart Networks), Telecom Engineering Centre, DoT, India, gave a presentation covering Importance of IoT/M2M in Smart city mission India.
- **IoT for Digital India 2019** organized by IAMAI in association with Ministry of Electronics and Information Technology (Meity), Department of Science and Technology (DST).
- **TEC workshop on OCF inter working with OneM2M** as a follow-up to the series being carried out by TEC for adoption of OneM2M specifications for IoT in India.
- **6th oneM2M Industry Day:** TSDSI in partnership with India-EU Cooperation Project on ICT Related Standardisation, Policy and Legislation organized 6th oneM2M industry day. This event provided an opportunity to get updated on the technical work being done in the oneM2M project.
- **Annual General Meeting of Broadband India Forum –** ETSI has an MoU with BIF.
- **Webinar by Pmanifold on Understanding EV customers:** What is required to increase EV adoption in Indian cities?
- **TSDSI-NSGM Workshop on "Leveraging 5G and Cloud for Smart Grids - India Context".** The TSDSI workshop deliberated on evolving opportunities to leverage emerging technologies in 5G and Cloud, for smart grids.
- **EURAXESS - European Research Day 2019:** The European Industry day organised by EURAXESS focused on showcasing the research & innovation, cooperation and study opportunities in Europe.



- Launch of “Enhancing Export Competitiveness of India’s Electronic Hardware Manufacturing Ecosystem” Report: by MAIT
- **CII organized Automotive Industry 4.0 Summit:**

Key Queries addressed:

Generic:

- Provided data from Bureau of Indian Standards (BIS) for **International Standardization Status**: CEN CENELEC
- Provided information on **Horizon 2020**: Vyom Digital Services Pvt. Ltd.
- Provided information on **BIS certification for export of steel from Belgium to India**: KODDAERT NV
- Aided in hiring an Indian expert for conducting a **comparison study on National Quality Infrastructure (NQI) between China and South Asian countries**: Chengdu Institute of Standardization, China

ICT:

- Provided Inputs on **IoT Policy**: Ministry of Electronics and Information Technology
- Provided information on **spectrum band used for monitoring equipment in Railway**: TROIKA TRANSOLUTIONS PVT. LTD.
- Provided information on **expert in WPC and ETA**: Belgian Embassy
- Provided information and **overview of ETSI membership**: TEC

Resource efficiency:

- Provided information on work being done around **Resource Efficiency (RE) and Circular Economy (CE) Standards in Europe**: GIZ

Smart Manufacturing/Industry 4.0:

- Shared information on **policy initiatives around Industry 4.0 in India & Europe**: Institute of Directors, Hyderabad Regional Office

3. Generic Update

3.1 National Lab Directory launched by BIS – A major breakthrough for industry in the field of testing & measurement



Consumer Affairs Minister launched an online directory, which provides information about Indian standards of various products and testing infrastructure in the country for the benefit of various stakeholders such as start-ups. There are estimated 10,000 labs across the country. Currently, about 4,500 labs owned by public and private academic institutions are listed on the online directory. The online platform created by the National Standards Body of India, Bureau of Indian Standards (BIS) on the basis of self-entry by testing laboratories about the available testing facilities in their laboratories. The National Laboratory Directory has been created with an aim to bring together the information about test facilities available across various sectors such as Government and Private Laboratories on a single online platform (Example: All testing laboratories under various Government Organizations, Public Sector, Private Laboratories, Autonomous Bodies, R&D organizations).

The link for the National Laboratory Directory is www.labdirectory.bis.gov.in

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3.2 Consumer Protection Bill 2019 approved

The Digital Age has ushered in a new era of commerce and digital branding, as well as a new set of customer expectations. Digitisation has provided easy access, a large variety of choice, convenient payment mechanisms, improved services and shopping as per convenience. However, along the growth path it also brought in challenges related to consumer protection. Keeping this in mind and to address the new set of challenges faced by consumers in the digital age, the Indian Parliament, passed the landmark Consumer Protection Bill, 2019 which aims to provide the timely and effective administration and settlement of consumer disputes. The New Act seeks to replace the more than 3 (three) decades old Consumer Protection Act, 1986 (Act). **Key Highlights of the New Act:**

- **Covers E-Commerce Transactions:** The definition now includes any person who buys any goods, whether through offline or online transactions, electronic means, teleshopping, direct selling or multi-level marketing.
- **Enhancement of Pecuniary Jurisdiction:** Revised pecuniary limits have been fixed.
- **E-Filing of Complaints:** The New Act provides flexibility to the consumer to file complaints with the jurisdictional consumer forum located at the place of residence or work of the consumer.
- **Establishment of Central Consumer Protection Authority:** The New Act proposes the establishment of a regulatory authority known as the Central Consumer Protection Authority (CCPA), with wide powers of enforcement.
- **Product Liability & Penal Consequences:** The New Act has introduced the concept of product liability and brings within its scope, the product manufacturer, product service provider and product seller, for any claim for compensation.
- **Unfair Trade Practices:** The New Act introduces a specific broad definition of Unfair Trade Practices, also includes sharing of personal information given by the consumer in confidence, etc.



- **Penalties for Misleading Advertisement:** The CCPA may impose a penalty on a manufacturer or an endorser, for a false or misleading advertisement.
- **Provision for Alternate Dispute Resolution:** The New Act provides for mediation as an Alternate Dispute Resolution mechanism, making the process of dispute adjudication simpler and quicker.

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3.3 Patents (Amendment) Rules, 2019 comes into effect

Nine months after the Central government first notified the [draft Patents \(Amendment\) Rules, 2018](#) on the 4th of December 2018, the [Patents \(Amendment\) Rules, 2019](#) have now come into effect through a notification by the Central Government on the 18th of September 2019 in its official gazette. In line with the draft rules, the new rules now primarily entitle the following categories of patent applicants to seek expedited examination of their patent applications:

1. Small entities / MSME's;
2. Female applicants;
3. Departments of the Government;
4. Institutions owned or controlled by the Government;
5. Institutions wholly or substantially financed by the Government;
6. Government companies; and
7. Applicants of those countries whose patent offices are in an agreement / arrangement with the Indian patent office.

In addition to this certain fee will no longer be applicable, giving PCT applicants a reason to be cheerful about.

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3.4 Commerce Ministry to soon come out with new foreign trade policy

The Commerce Ministry will soon come out with a new foreign trade policy, which provides guidelines and incentives for increasing exports for the next five financial years 2020-25. The Ministry is giving final touches to the new policy as the validity for the old one will end on March 31, 2020. The Ministry's arm Directorate General of Foreign Trade (DGFT) is formulating the policy.

The new policy would focus on simplifying procedures for exporters and importers, besides providing incentives to boost outbound shipments. At present, tax benefits are provided under the 'merchandise export from India' scheme (MEIS) for goods and 'services export from India' scheme (SEIS).



In the new policy, changes are expected in the incentives given to goods as the current export promotion schemes are challenged by the US in the dispute resolution mechanism of the World Trade Organisation (WTO). In this backdrop, the government is recasting the incentives to make them compliant with global trade rules.

The Commerce Ministry has also floated a cabinet note for a new export incentives scheme — Rebate of State and Central Taxes and Levies (RoSCTL) — that would be compliant with the WTO norms. The RoSCTL scheme is available for exports of garments and made-ups. It would now be proposed to extend it to all exports in a phased manner. Directorate General of Foreign Trade (DGFT) has issued followings trade notices keeping in mind the review of the existing Foreign Trade Policy :

- [Trade notice No. 21/2019-20 dated 28.06.2019](#) and [Trade Notice No. 22/2019-20 dated 03.07.2019](#) inviting suggestions from all stakeholders on revision of FTP.

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3.5 WTO reforms must be taken up by all countries: says India

The time has come to take on the policies of protectionism and unilateral measures by some developed countries that are having an adverse effect on global free trade and if this continues there will be recession in the world and no country will escape it, said Union Minister of Commerce & Industry.

Commerce and Industry Minister urged that all member countries must take up reforms of the WTO and not deal with issues in a piecemeal manner. We cannot afford to walk away from the current system but all member countries of the WTO must re-engage to ensure that the rule-based, transparent, and non-discriminatory governance that free-trade requires is taken forward honestly and in a non-discriminatory manner and keeping in mind the interests of different member countries with disparate GDP. He further stated that the policies of protectionism being followed by some countries in the developed world are affecting engagement between countries for trade in goods, services and protection of investments.

The aspirations of people cannot be held back for a better life: for sustainable growth of the seven billion people of the world and India is committed to the Sustainable Development Goals (SDGs) and believes that peoples' aspirations cannot be held back till 2030, said the Commerce and Industry Minister. India is not going to wait till 2030 to give access to energy, literacy and clean potable water to its people, India is fast-tracking its efforts to reach the SDGs to the last man at the bottom of the pyramid. India also desires that this pace of development reaches people in the rest of the world.

South-South cooperation is a broad framework of collaboration among countries of the South in the political, economic, social, cultural, environmental and technical domains. Involving two or more developing countries, it can take place on a bilateral, regional, intraregional, or interregional basis. South-South cooperation is a manifestation of solidarity among peoples and countries of the South and the attainment of the goals of Sustainable Development.

Commerce and Industry Minister hoped that the South-South and Triangular Cooperation will help the developed world become a part of the developing world's growth agenda.



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4 SMART CITIES

4.1 Smart City Mission 2.0 likely in 2020

After first Smart Cities Mission for 100 cities, the government will expand the Smart Cities Mission to all 4,000 cities in the country. The ministry of housing and urban affairs, the nodal department for Smart City Mission, is set to roll out smart city 2.0 mission in 2020. The central government's second version of the smart city initiative will be rolled out across the country, said a government official.

The ministry of housing and urban affairs is also looking at alternative funding mechanisms such as pool finance, fund of fund approach, bonds, fiscal money, monetisation of unused land and tapping foreign capital.

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4.2 Smart City: Report Card on the Progress made

Projects worth over Rs 2.05 lakh crore are proposed in 100 cities under the Smart Cities Mission and a significant progress has been made in terms of implementation of these projects, the Economic Survey 2018-19 said.

The Smart Cities Mission (SCM), which was launched in June 2015 for a five-year period, seeks to promote cities that provide core infrastructure and give a decent quality of life to its citizens. The strategic components of this mission are area-based development involving city improvement (retrofitting), city renewal (redevelopment), city extension (greenfield development) and a Pan-city development in which smart solutions are applied covering larger parts of the city.

- The 100 cities under the mission have proposed to execute 5,151 projects worth 2,05,018 crore in five years from their respective dates of selection.
- "Financial innovation is in-built in the design of the programme. The distribution of funding from the central and state government is Rs 93,552 crore (45 per cent) and funds from PPP is Rs 41,022 crore (21 per cent),"

On implementation status, the survey said that all the 100 cities have incorporated Special Purpose Vehicles (SPVs), City Level Advisory Forums (CLAFs) and appointed Project Management Consultants (PMCs).

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4.3 Ministry of Housing and Urban Affairs' planning to monetise data collected by smart cities

The government is planning to make health, education and financial data — collected from more than 4,000 urban local bodies under its Smart Cities Mission — public by 2024 and eventually monetising it, [reports](#) The Hindu. The government will start with an open data platform for 100 cities under the mission and expand it to cover data from 500 cities by 2022, the report said. By 2024, all urban centres would be covered in this platform. Ministry of Housing and Urban Affairs' (MoHUA) India Urban Data Exchange – set up for the Smart Cities project – will be expanded, and eventually become a “marketplace”, the report continues.

- **The open data platform right now:** Currently, the open data platform has 2,783 data catalogues from 99 Smart Cities, and by 2020, all data sets for the smart cities would be available, per the report. By 2024, cities will have data officers and data coordinators as well, according to the report.
- **The open data platform in the future:** The India Urban Data Exchange will eventually be used as a means of transferring data between urban local bodies, private sector, academia and civil society, according to the report. A non-disclosure agreement would have to be signed by these stakeholders for the same, the report continues.
- **How can this data be used?** MoHUA suggested that anonymized bulk data on mobility can be used by advertisers to put up advertisement hoardings at areas where there's more traffic congestion as a possible use case of the data collected, the report said. For now, the ministry is ensuring that cities become “mature” in dealing with this kind of data, adds the report. It also said that datasets are already being used by companies.
- **What's up with the Smart Cities project?** As of now, Smart Cities' projects worth Rs 19,041 crore have been completed, and tenders for new projects would be issued by March 2020, the report said; by June 2020, projects worth ₹50,000 crore would be completed.

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5 Electrical Equipment including Consumer Electronics

5.1 5 Year power vision: Scaling up the grid integration of renewable energy

The Ministry of Power has issued a vision document which charts the way forward for India's power sector. The document points out the problem areas and sets the timeline for every aspect of power generation, evacuation, and distribution.

The document, called “Vision 2024”, aims at developing a sustainable, viable, efficient, and competitive power sector to facilitate economic and social development. The report points out that the generation capacity in India has increased drastically in the past decade, but the sector is beset with falling plant load factor (PLF) and stressed assets.

Transmission is a huge problem for Indian renewable energy project developers. In many cases, renewable energy projects are ready to evacuate, but the evacuation infrastructure is not ready. In some other cases, due to the lack of proper transmission infrastructure, renewable energy has to be curtailed.



While the country's overall generation has been on the rise, especially with the growth in solar and wind projects, an adequate transmission has always been a challenge leading to grid congestion and curtailment. The lack of transmission capacity has been a growing concern for solar and wind companies, and Mercom has been reporting on this issue diligently. With a plethora of mega solar tenders announced in the solar sector, including interstate transmission system (ISTS) connected projects, the availability of the required evacuation infrastructure has been one of the biggest challenges.

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5.2 India will overachieve Paris pact targets by 60%: IEEFA Sectorial report on Electrical Equipment including Consumer Electronics in India

India would significantly exceed its 2015 Paris Agreement target of a 40 per cent share of installed power capacity from non-fossil fuel sources by 2030, stated the US-based Institute for Energy Economics and Financial Analysis (IEEFA).

Based on India's Central Electricity Authority (CEA) projections, instead of 40 per cent, India will have 63 per cent of installed capacity from non-fossil fuel sources by 2029-30. And this amounts to 60 per cent more than what India had committed to achieve under the 2015 Paris Agreement on Climate Change,

IEEFA's statement is based on a report released by the CEA. The CEA's report on Optimal Energy Mix scenario projects that India could have 63 per cent of its installed power capacity from non-fossil fuel sources, including hydro, by 2029-30. According to the CEA, the growth in new installed power capacity will lead renewables to generate close to 44 per cent of all electricity consumed in India in 2029-30.

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5.3 EESL successfully installs and operationalizes over 5,00,000 Smart Meters across India

Energy Efficiency Services Limited (EESL), a joint venture of four public sector enterprises under the Ministry of Power, Government of India, announced the successful installation of over 5,00,000 smart meters in the states of Uttar Pradesh, Delhi, Haryana, Bihar and Andhra Pradesh, under the Government of India's Smart Meter National Programme (SMNP). The smart meters operational in these states aim to enhance consumer convenience and rationalise electricity consumption.

To overcome challenges such as billing inefficiencies, unauthorised power consumption, and DISCOMs' financial woes, the Government of India is accelerating the adoption of smart meters. Made with the latest technology as well as certified and type tested by the Bureau of Indian Standards (BIS) as per IS 16444 guidelines, which are followed and accepted globally, these smart meters are installed in accordance with guidelines issued by the Central Electricity Authority, Government of India. Smart meters are part of the overall Advanced Metering Infrastructure solution (AMI) that measures and records consumers' electricity usage at different times of the day and sends this information to the energy supplier through GPRS technology. This gives consumers better access to information and enables them to make more informed decisions on the use of electricity in their homes. This can immediately control AT&C losses, due to power pilferage, bypassing meters, defective meters, or errors

in meter reading. Every kilowatt of power drawn from the grid is thus accounted for – and billed, thereby reviving DISCOM revenues.

The smart meter technology is critical to India's ongoing power sector reforms. The Smart Meter National Programme that aims to retrofit 25 crore conventional meters with smart variants will lead to 80-100 per cent improvement in billing efficiency.

[Read more](#)

5.4 Office Memorandums (OMs)/Notifications issued by Ministry of Power (MoP) and Ministry of New and Renewable Energy (MNRE)

- Notification on BIS Registration Exemption for SPV Modules used in old SPV Power Projects. [Read more](#)
- Guidelines on implementation of Phase – II of Grid Connected Rooftop Solar Programme for achieving 40 GW capacity from Rooftop Solar by the year 2022. [Read more](#)
- Amendment to the Guidelines for Tariff Based Competitive Bidding Process for Procurement of Power from Grid Connected Solar PV Power Projects. [Read more](#)
- Notification on declaration of ocean energy as Renewable Energy. [Read more](#)
- MNRE invites Startups and innovators to join the journey towards Sustainable Energy future. [Read more](#)
- Modifications in Scheme for "Development of Solar Parks and Ultra Mega Solar Park Scheme". [Read more / Download](#)
- Amendment to the Guidelines for Tariff Based Competitive Bidding Process for Procurement of Power from Grid Connected Wind Power Projects. [Read more/ Download](#)

6 Automotive

6.1 Government of India introduced New Motor Vehicles (Amendment) Bill 2019

The amendments to the Motor Vehicle Act were passed by the Parliament recently but most have come into effect from September 1, 2019. This means that driving errors are going to be penalized hugely. The transport ministry issued a notification dated August 28, listing out all the laws that have come into effect from September 1, 2019.

[Download](#)

6.2 Department of Heavy Industry has approved the sanction of 5595 electric buses to 64 Cities, under FAME II India scheme phase

The Department of Heavy Industry has approved the sanction of 5595 electric buses to 64 Cities, State Government Entities, State Transport Undertakings (STUs) for intra-city and intercity operation under FAME India scheme phase II in order to give a further push to clean mobility in public transportation.



The Department had invited the Expression of Interest (EOI) from million-plus cities, smart cities, State/UT capitals and cities from special category states for submission of proposal for deployment of electric buses on operational cost basis.

[Read more](#)

6.3 India looking at newer EV battery technologies for strategic reasons

As part of India's energy security plan, the government is exploring newer battery technologies such as polymer-based solid-state batteries that may allow India to avoid dependence on lithium or cobalt imports.

This comes in the backdrop of Chinese state-owned firms securing lithium mine concessions in countries such as Bolivia, Argentina and Chile, which forms the so-called lithium triangle. The idea is to not allow India to fall in a vulnerable position with a likely threat of supply squeeze as has happened in the case of crude oil, with India being the world's third largest oil importer.

Almost all electric vehicles in the country run on imported batteries, mostly from China. At present a lithium-ion battery accounts for 40% of the total cost of an electric vehicle. Lithium also has other uses such as in mobile phone batteries and solar panels.

[Read more](#)

6.4 Government invites proposals for deployment of EV charging infra under FAME II

The government has invited proposals from entities for the deployment of electric vehicle charging infrastructure in big and smart cities. Proposals are invited from entities that intend to develop EV charging infrastructure in million-plus cities as per the 2011 census; and smart cities as notified by the Ministry of Housing and Urban Affairs, the Ministry of Heavy Industries.

"Initially, 1,000 EV charging stations are earmarked for deployment through this EOI. These charging stations will be sanctioned to different states/cities/entities after evaluation of the proposals received under this EOI," the Heavy Industries Ministry said.

It further advised that to the extent possible charging station should be connected with 'grid-connected solar power plant' of required capacity as per MNRE guidelines so as to ensure grid stability and green energy for electric vehicles.

[Read more](#)

6.5 E-mobility mission to be implemented in phases based on auto industry feedback

The National Electric Mobility Mission will be implemented in phases based on the feedback from auto industry. The Minister of State for Heavy Industries promised all support to the auto industry



on policy matters to ensure smooth and efficient transformation of the automotive industry from internal combustion (IC) to electric powertrain.

Three lakh electric vehicles have already been sold under the FAME India Scheme. The minister said a provision of Rs 10,000 crore has been made for electric mobility in the Union Budget for 2019-20.

The National Electric Mobility Mission Plan (NEMMP) 2020 is a mission document providing the vision and the roadmap for the faster adoption of electric vehicles and their manufacturing in the country. This plan has been designed to enhance national fuel security to provide affordable and environmentally friendly transportation and to enable the Indian automotive industry to achieve global manufacturing leadership.

[Read more](#)

6.6 Guidelines/Notifications: Government of India

- Central Electricity Authority (CEA) issued safety guidelines specifically for EV charging stations. [Read more/Download](#)

Ministry of Road Transport and Highways has issued following notifications:

- Notification no. G.S.R 523(E) regarding registration fee for vehicles). [Read more/Download](#)
- Notification no. G.S.R 521(E) regarding Microdot. [Read more/Download](#)
- Notification No. G.S.R 511(E) regarding Inclusion of NATRAX as test agencies. [Read more/Download](#)
- Draft Notification No. G.S.R. 512 (E) regarding High Security Registration Plate. [Read more/Download](#)
- Draft Notification No. G.S.R. 510 (E) regarding BS VI. [Read more/Download](#)
- Draft Notification no. G.S.R 439(E) regarding vehicle location tracking device. [Read more/Download](#)
- GSR 681(E), regarding omission of Rule 8 (Minimum Educational qualification for driving transport vehicles). [Read more](#)
- SO 3147(E), regarding Implementation of Section 1 of the Motor Vehicles (Amendment) Act, 2019 from 1st September, 2019. [Read more](#)

7 ICT

7.1 DoT issues Guidelines for 5G trials across all available Spectrum bands Cabinet

The Department of Telecommunications (DoT) has issued guidelines for 5G trials across all available spectrum bands indicating to allocate up to 400 MHz of radio waves for experiments. The DoT has fixed a uniform fee of Rs 5,000 for the trial licence. However, its validity will range between 3 month and 2 years, depending on the purpose for which the trial is being conducted.



For 5G service trials, “quantum of spectrum as may be necessary and/or can be justified to demonstrate technological capabilities. For example, typical values may be up to 100 megahertz in 3.5 Ghz (gigahertz) band, 400 Mhz in 26 Ghz band and other potential millimetre bands,” the guidelines dated July 23 said. The government has plans to conduct spectrum auction for 5G services by the end of this year to enable the roll-out of commercial services using the technology in 2020.

Indian entities involved in research and development (R&D), manufacturing, telecom operators and academia for the purpose of R&D and experimentation can get licence for a period of “up to two years, renewable on case to case basis by WPC (wireless planning and coordination), subject to truncation to prevent interference to licensed operations”.

[Read more](#)

7.2 MeitY seeks feedback on data bill from select organisations

The government has sought inputs from select stakeholders on its draft data protection Bill. The Ministry of Electronics and Information Technology (MeitY), in a letter sent has sought clarifications on issues such as data localisation and ways to govern non-personal data, including anonymised, community and ecommerce data.

MeitY has sought inputs on the scope of the data authority and obligations for the data fiduciary. It also asked stakeholders for feedback on the “contours of a policy that should govern non-personal data” and whether there was a case to mandate free access to such data. The Bill would focus only on personal data of citizens and that MeitY was not looking to expand that to include non-personal data. MeitY is not holding “any fresh consultations” on the Data Protection Bill. No industry association or company has been contacted and only individual opinions have been sought, the official clarified.

[Read more](#)

7.3 MeitY whitepaper to seek opinion on non-personal data

The electronics ministry may come up with a report on non-personal — community, anonymised and ecommerce — data held by companies, including Uber, Google and Amazon, to be used to chalk out a policy on nonpersonal data regulation.

The government may also consider leaving it to the ministries or regulators to define which kind of data should come under the purview of such a policy. This comes after the latest round of select stakeholder consultation over the draft Personal Data Protection (PDP) Bill, in which the government has also sought opinions on the contours of a policy for non-personal data, besides feedback on issues such as data localisation.

The official cited earlier said the ministry of electronics and IT ([MeitY](#)) had sought the views of 10-15



stakeholders on non-personal data. “The views received through this consultation can form the ground for a white paper that can be opened for wider public consultation before a policy is formed,” said the official, adding that “it’s a grey area” and no country has so far been able to come up with a policy on how to deal with public data.

In its latest feedback sent on Friday, MeitY had asked if there was a case to mandate free access to community, anonymised or ecommerce data, among others. It also asked whether the Data Protection Authority (DPA) should be the regulator in respect of all non-personal data. “The ministries or the regulators say health or ecommerce can only take a call on this, how can we define it for others,” said the official, adding that MeitY can only come up with a broader framework for such data.

[Read More](#)

7.4 Cybersecurity Policy to be unveiled in January 2020

The government of India plans to release a Cybersecurity Strategy in 2020. The government had “made a start” on a cybersecurity policy, the present Cybersecurity policy was released in 2013, and a lot has changed in the six years since then.

5G will change the entire scope of cybersecurity in India. There are new aspects like ransomware, and IoT was not there, so with these changes, there is going to be a new strategy for dealing with cybersecurity. A small team has been created to draft the policy and public consultation will be sought in due course.

[Read More](#)

7.5 Series of Measures approved to increase ICT access to PwD

The Digital Communications Commission (DCC) approved a series of measures to increase Information and Communications Technology (ICT) access to persons with disabilities (PwD), including a mandate for major mobile phone manufacturers to produce at least one model which satisfies the needs of PwDs. “All mobile manufacturers who produce more than 5 models shall be mandated to make one model that satisfies the needs of persons with disabilities.

The Centre has also been conducting inter-ministerial consultations on the issue and a committee under the Department for Empowerment of Persons with Disabilities will now be set up to drive measures focused on increasing ICT access to this group of telecom users. The Telecom Regulatory Authority of India (TRAI) had already submitted its recommendations on the issue as early as July 2018, with the measures approved on Thursday by the DCC largely toeing the line. DCC has also approved other measures suggested by TRAI.

[Read More](#)

7.6 Department of Telecommunications (DoT) & Telecommunication Engineering Centre (TEC) Notifications;



- Department of Telecommunications (DoT) has released an office memorandum regarding setting up a new division for promoting Standardization, R&D and innovation (SRI). [Read more/download](#)
- Notification for launch of Mandatory Testing and Certification of Telecom Equipment (MTCTE). [Read more/Download](#)
- Notification for acceptance of test reports from labs accredited by ILAC signatories. [Read more/Download](#)
- Notification for revision of MTCTE procedure exemptions/relaxations. [Read more/Download](#)

7.7 Reports/White Papers/Recommendations and Consultation Papers by TRAI

- An Analytical Report titled “Wireless Data Services in India” presenting the Key Parameters and growth trends of Wireless Data Usage, Wireless Data Subscribers, Market Share in Wireless Data Services etc. in the last four years. [Read more/Download](#)
- Yearly Telecom Services Performance Indicator Report-2018. [Read more](#)
- Consultation Paper on Developing a unified numbering plan for fixed line and mobile services [Read more](#)
- Consultation Paper on Reforming the Guidelines for Transfer/Merger of Telecom Licenses [Read more](#)

8 Planned Activities for Next Quarters

- Quarterly Report, Newsletter – India and Europe
- Policy & NEWS Updates
- Continue working with TEC for adoption of oneM2M standards
- India Taskforce workshop with BIS (November’2019)
- India Mobile Congress 2019, Standards track with TSDSI
- Representing CEN/CENELEC at 8th International Railway Summit
- Participation in the important conferences and events

9 Glossary

Sr. No.	Acronym	Expansion
1	TSDSI	Telecommunications Standards Development Society India
2	5G	Fifth Generation
3	AMI	Advanced Metering Infrastructure
4	BIF	Broadband India Forum
5	BIS	Bureau of Indian Standards

6	CCPA	Central Consumer Protection Authority
7	CDoT	Centre for Development of Telematics
8	CEA	Central Electricity Authority
9	CEN	European Committee for Standardization
10	CENELEC	European Committee for Electro-technical Standardization
11	COAI	Cellular Operators Association of India
12	DCC	Digital Communications Commission
13	DGFT	Directorate General of Foreign Trade
14	DISCOMs	Distribution Companies
15	DoT	Department of Telecommunications
16	DPA	Data Protection Authority
17	EEG	European Economic Group
18	EESL	Energy Efficiency Services Limited
19	EOI	Expression of Interest
20	ETA	Equipment Type Approval
21	ETD	Electro-Technical Department
22	ETSI	European Telecommunications Standards Institute
23	EU	European Union
24	EV	Electric Vehicle
25	FAME	Faster Adoption and Manufacturing of (Hybrid) and Electric Vehicles
26	GDP	Gross Domestic Product
27	IAMAI	Internet and Mobile Association of India
28	ICRIER	Indian Council for Research on International Economic Relations
29	ICT	Information and Communication Technology
30	IEEFA	Institute for Energy Economics and Financial Analysis
31	IISc	Indian Institute of Science
32	IoT	Internet of Things
33	IPR	Intellectual Property Rights
34	IRD	International Relations Department
35	ITU-T	Telecommunication Standardization Sector of the International Telecommunications Union
36	LITDC	Electronics and Information Technology Division Council
37	M2M	Machine to Machine
38	MAIT	Manufacturers' Association for Information Technology
39	MEITY	Ministry of Electronics and Information Technology
40	MNRE	Ministry of new and renewable energy
41	MoHUA	Ministry of Housing and Urban Affairs
42	MoP	Ministry of Power
43	MoU	Memorandum of Understanding

44	MSME	Micro, Small and Medium Enterprises
45	MTCTE	Mandatory Testing and Certification of Telecom Equipment
46	NEMMP	National Electric Mobility Mission Plan
47	NIUA	National Institute for Urban Affairs
48	NWG	National Working Group
49	OCF	Open Connectivity Foundation
50	OMs	Office Memorandums
51	PWDs	Persons with Disabilities
52	R&D	Research and Development
53	RoSCTL	Rebate of State and Central Taxes and Levies
54	SCM	Smart Cities Mission
55	SDG	Sustainable Development Goals
56	SESEI	Seconded European Standardization Expert for India
57	SMNP	Smart Meter National Programme
58	SPV	Special Purpose Vehicles
59	TCS	Tata Consultancy Services
60	TEC	Telecom Engineering Centre
61	TRAI	Telecom Regulatory Authority of India
62	VCP	Volunteer Code of practice
63	WPC	Wireless Planning & Coordination
64	WRC	World Radio-communication Conference
65	WTO	World Trade Organization