

Quarterly Report No. 6

Standards, Policy and Regulation

('Oct – Dec' 2020)

SESEI IV– Dinesh Chand Sharma

1.	<i>Executive Summary</i>	1
2.	<i>Key Meetings, Event Participation and Queries</i>	3
3.	<i>Generic Update</i>	12
3.1	<i>BIS to bring service norms for e-commerce companies, aggregators</i>	12
3.2	<i>BIS brings in quality control for certain home Appliances</i>	12
3.3	<i>Government sets up Inter-Ministerial Committee to strengthen the Capital Goods Sector</i> ...	12
3.4	<i>India Patent- 2019/2020 annual report Published</i>	13
3.5	<i>Revised Patent Rules in India effective from 19 October, 2020</i>	13
4	<i>SMART CITIES</i>	14
4.1	<i>BIS Standardization efforts for Smart Cities Digital Infrastructure</i>	14
4.2	<i>OneM2M IoT standard to help underpin India's smart Cities</i>	15
4.3	<i>IIT Madras Develops MOUSHIK' Microprocessor for IoT Devices</i>	15
4.4	<i>Telecom Regulatory Authority of India (TRAI) released White Paper on Smart Cities in India</i>	16
5	<i>Electrical Equipment including Consumer Electronics</i>	16
5.1	<i>NITI Aayog, Rockefeller Foundation & Smart Power India Launch Electricity Access & Utility Benchmarking Report</i>	16
5.2	<i>Electronic contract manufacturing in India to grow over 6-fold to \$152 bn by 2025</i>	17
5.3	<i>Power Ministry Proposes Pushing Back Emission Norms Deadlines</i>	17
5.4	<i>Office Memorandums (OMs)/Notifications issued by Ministry of Power (MoP) and Ministry of New and Renewable Energy (MNRE)</i>	18
6	<i>Automotive</i>	18
6.1	<i>Indian Railways issued Draft National Rail Plan</i>	18
6.2	<i>Government allows use of H-CNG as alternative clean fuel for Automobile</i>	20
6.3	<i>Government extends deadline for EV components localisation by six months</i>	20
6.4	<i>India plans \$4.6 billion in incentives for battery makers in electric vehicle push</i>	20
6.5	<i>Ministry of Road, Transport and Highways issued following notifications</i>	21
7.	<i>ICT</i>	21
7.1	<i>MeitY seeks comments/suggestions on the Draft Data Centre Policy</i>	21
7.2	<i>TSDSI releases report on "Cloud Interoperability and Portability (CIP)- Standards" jointly with CCICI</i>	21
7.3	<i>India's own 5G tech completes evaluation phase of ITU's IMT 2020</i>	22
7.4	<i>DoT constitutes working groups to prepare 5G Roadmap</i>	22
7.5	<i>DoT to Seek Cabinet nod on PLI Scheme Guidelines for Telecom Gears</i>	23
7.6	<i>C-DAC signs 13 MoUs with India's premier academic and R&D institutions to establish supercomputing Infrastructure</i>	23
8.	<i>Planned Activities for Next Quarters</i>	24
9.	<i>Glossary</i>	24



1. Executive Summary

At the outset, I would like to wish all the readers a very happy New Year 2021 with this that this year will be bearer of hope, vitality, and new beginnings. A surge of hope and positivity has already begun with the availability of COVID Vaccine and world's largest inoculation program has begun in India. India has also started exporting coronavirus vaccines to the neighbouring SAARC countries. Many low and middle-income countries are relying on India, the world's biggest vaccine maker, for supplies to start their COVID-19 immunisation programmes and bring an end to their outbreaks.

SESEI expert and team have been carrying out most of the activities in online mode with lockdown guidelines. In this quarterly report we will provide you with the latest updates and market related information concerning project priority sectors for the period of October to December 2020.

I am proud to announce that India through its Ministry of Communication, Department of Telecom arm Telecommunication Engineering Centre has adopted OneM2M specifications as the national standards for IoT/M2M technologies in India. It is a big milestone for India, and it shall provide a framework to support applications and services such as smart grid, connected car, home automation, public safety, health and many more. This will also help establishing the standardized technology framework for providing Machine to Machine (M2M) services in India and accelerate the deployment of M2M services across various verticals and facilitate optimal utilization of communication layer resources.

A White Paper on the Role of digital technologies for Smart Cities, emphasizing the need for global standards, smart solutions and reference ICT architecture for realization of the Smart cities in India is also released by Telecom Regulatory Authority of India (TRAI).

BIS Smart Infrastructure sectional committee (LITD 28) is developing a comprehensive set of standards for ensuring a harmonized, Secure, and sustainable Digital infrastructure across the Smart Cities and to facilitate the implementation of various Smart City projects. The standard "IS 18000 Unified Digital Infrastructure – ICT Reference Architecture (UDI-ICTRA)" is the foundational standard in this series.

The ongoing pandemic has delayed some of the 5G pilot rollout activities and spectrum auction. The department of Telecommunication has formed eight working groups to create a roadmap for the deployment of fifth-generation or 5G in different sectors such as agriculture, fintech, transportation and education. India's own 5G technology termed as 5Gi through TSDSI as claimed has also completed the evaluation phase of ITU's International Mobile Telecommunications 2020 (IMT-2020) vision and now conforms with the stringent performance requirement.

India's electric vehicle (EV) market opportunity by 2025 is estimated to be around INR 50,000 crore (US\$ 7.09 billion) with two- and three-wheelers expected to drive higher electrification of the vehicles. To support and create the EV ecosystem in India, localization of several components and especially the EV components is being encouraged. The department of heavy industries extended the deadline for the localization of several components under its phased manufacturing programme (PMP) for electric vehicles (EV) from October 1'20 to April 1'21 next year, offering a breather to the industry. The move is also expected to help the fledgling EV industry as the localization plans of several companies were derailed due to the disruption from the pandemic. India also plans to offer \$4.6 billion in incentives to



companies setting up advanced battery manufacturing facilities in India as it seeks to promote the use of electric vehicles and cut down its dependence on oil.

The Ministry of Road Transport and Highways has allowed the use of Hydrogen-enriched compressed natural gas (H-CNG) and notified various alternative clean fuels for transportation. The Bureau of Indian Standards (BIS) has also developed specifications of H-CNG as a fuel for automotive purposes.

Environmental sustainability being one of the key driving factors behind the EV and renewable energy mission launched by India. The government is deeply committed towards accomplishing the goals as set out in the Paris Agreement and is working towards replacing coal-fired power plants with renewable generating capacity in a bid to cut the nation's carbon footprint. However, India's power ministry has proposed pushing back the deadlines for adoption of new emission norms by coal-fired power plants stating "an unworkable time schedule" would burden utilities and lead to an increase in power tariffs.

The electronics sector is projected to grow by over six-fold to USD 152 billion by 2025, as per industry body Elcina and to support the electronic manufacturing sector in the country, government has launched production linked incentives (PLI) scheme.

In the quarterly report, we also provide 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 and detailed activity tracker including list of queries, events and meetings as "Annexure -2 to this quarterly report.

I would like to conclude this report with thanking all the project partners for their consistent support and guidance during the trying times of the pandemic to ensure attainment of Project activities in line with the timelines set.

Happy reading!!!

Dinesh Chand Sharma
(Seconded European Standardization Expert in India)



2. Key Meetings, Event Participation and Queries

In this section, we are providing you with a snapshot of various activities performed by the SESEI expert during the period starting 1 October 2020 till 31st December 2020. All physical meetings, events and conferences have been altered into virtual / online mode. Complying with the lockdown guidelines as laid down by the National advisory, SESEI expert and team has been working online to meet the Project deliverables. A quick dashboard of the activity summary is provided below:

Sr. No.	Description	Total Until now	In Last Quarter
1	External Meetings	175	26
2	Internal Meetings	53	10
3	Events/Seminar/Workshop/Roundtable	174	42
	Total	402	78
4	No of Queries	66	13

Detail of few key meetings and event/workshop participation are briefly summarized below and for more 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:

Industry 4.0:

- **LITD 34 Smart Manufacturing P1, P2 meeting:** Bureau of Indian Standards (BIS) has developed a committee to develop standards that help industries to create use cases in a systemic way. LITD 34 presented Smart Manufacturing Standards Map (SM2) Framework, presentation of initial use case template for developing Indian Standard and draft ToC for writing a standard and seek inputs form members. BIS being a member of IEC has right to copy the use case template available in IEC 62559 standard series or can modify wherever needed.

Smart cities:

- **20th meeting of LITD 28 Smart infrastructure Sectional committee:** to discuss draft Standards to be finalized for printing, seek status update from Panels and Study group and review the International Standardization Activities in the said realm.
- **BIS Meeting of the Electronics & IT Department - LITD-35 Active Assisted Living:** BIS organized the 1st Meeting of Active Assisted Living Sub-Committee, LITD 35 which is the National mirror committee (NMC) of IEC SyC Active Assisted Living. This Sectional committee, LITD 35 AAL has been constituted to mirror the work of IEC SyC Active Assisted Living to address India specific requirements in the standardization activities of IEC SyC Active Assisted Living; also identify the Standardization, need at the national level and propose the same to the Sectional committee.



Automotive

- **Meeting of the TED Division Council of BIS to discuss comments received from ARAI & NHAI for amendment 2:** Virtual meeting of members of panel on RFID (Radio Frequency ID) to discuss comments received from ARAI (Automotive Research Association of India) & NHAI (National Highway Authority of India) for amendment 2.
- **Meeting of BIS, TED28, Intelligent Transport Systems Sectional Committee:** 13th meeting of Intelligent Transport to discuss, Composition of Sectional Committee, Review of Published Standards to identify the standards that are not required by the industry due to change in technology, obsolescence, etc., for withdrawal and the standards that need to be discarded to be revised and also review the International Activities in the scope of the ITS Sectional Committee.

Electrical & Electronics

- **Meeting called by BIS, LITD 10 'Power System Control and Associated Communications Sectional Committee.** This meeting was called to review some old standards which need to be revised. These standards are quite old and hence need to be reviewed. A copy of these standards was circulated to all members prior to the meeting and were requested to review and provide their inputs/suggestions whether these Standards need to be revised or withdrawn.
- **16th meeting of Electronics & IT Department - LITD 10 'Power System Control and Associated Communications',** hosted by LITD, in joint session with all its panels and Smart Energy Sub-Committee was held as a virtual meeting.

Meetings with TEC/ DoT and other Govt. Bodies

ICT:

- **Virtual meeting for finalizing Technical Report on Smart Village & Agriculture:** Working Group of the TEC on Smart Village & Agriculture, are meeting regularly for finalizing the draft technical report on smart village and agriculture. SESEI is a member of this WG and has provided EU work around Smart villages which are well considered in this draft report.
- **Virtual meeting for "Finalizing IoT / ICT standards for Smart cities:** Regular meetings to finalize the national standards for ICT Architecture layer for Smart Cities. OneM2M standard has been selected as a national standard in India to develop the 100 smart cities mission for Indi. Small paragraph on oneM2M national standard – already available in section 3.2.3
- **Virtual meeting of Working Group (WG) on "Security by design Principles in M2M device:** to further discuss the reference draft document, inputs and used cases data received from members. SESEI expert provided inputs on ETSI EN 303 645, a standard for cybersecurity on the Internet of Things (IoT) that establishes a security baseline for internet-connected consumer products and provides a basis for future IoT certification schemes. All 13 provisions for the security of Internet-connected consumer devices and their associated services, are well considered to be included in TEC report.



- **Virtual meetings of the TEC's WG on Future Communication Technologies and use cases in IoT domain:** SESEI provides latest updates and work being carried out by ETSI and CEN CENELEC in the domain of IoT & 5G technologies.
- **1st Meeting of the Committee to formulate an Indian ICT accessibility standard under Ministry of Electronics & IT, Govt. of India, organised by CDAC:** CDAC has been entrusted with the task of formulating standards for the ICT accessibility for PwD. SESEI is an active advocate for adoption of EN301 549 for Indian ICT accessibility standard. Summary of EN, other ICT accessibility standards and EN_301 549 v.2.1.2 were reviewed during the first meeting.

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

- **Meeting with Mr. Vikram Singhal, doppeImayr:** Niti Aayog has issued guidelines to state authorities for using BIS standards in their procurements. Meeting was held to discuss the strategy to deal with this notification in which BIS standards have been claimed equivalent to CEN standards. Guidelines were discussed in details and way forward to address it was decided.

Meetings with Industry & Associations:

ICT:

- **Meetings with BIF Committee Meeting on ICT for Inclusive Ability (PwD):** Broadband India Forum (BIF) organized virtual meetings of Committee on ICT for Inclusive Ability (PwD). During the regular meetings
 - White Paper titled 'Priorities for a COVID-19 World: ICT Accessibility for Persons with Disabilities in India' was released. Recommendation on the adoption of the European Standard, EN 301 549: Accessibility requirements for all ICT products and services (ETSI, 2019) made.
 - BIF to explore funding specific projects with accessible ICTs such as organizing skill development programs for PwDs and supporting the national accessible online library. Follow-ups on the Drafting Committee set-up by CDAC awarded by MeitY. And Way Forward for the Year 2021
 - **BIF Meeting with Mr. Vinay Thakur, COO, NeGD:** to discuss guidelines for Indian Government Websites and set up inter-ministerial steering committee to recommend and help implement accessibility measures within the Govt and other stakeholders as recommended by TRAI.
 - **BIF Meeting with Shri Hoshiar Singh, Registrar, Copyrights.** to discuss the implementation of Accessibility related provisions in Indian Procurements and to inform him about BIF initiative on this subject.
- **Conference call meeting called by the Cyber Security Working Group of IET Future Tech Panel:** The Cyber Security WG have been working on a paper titled "Future Proofing Standards" and had shared the document for comments and inputs from other WG's especially the SLR WG. The discussion was around restructuring the paper in a way to be able to identify what we are expecting from standardisation, experimentation, research and innovation and regulations.



Meetings with Project Partners:

- **SESEI - priority topics and outreach:** CEN CENELEC organized a meeting with SESEI expert and Project Partners for discussion on outreach activities: discussion held on participation in the CII 28th National Conference and key messages, possibility of collaboration with GIZ/PTB, etc. possibility of collaboration through the UK/ Or Commonwealth Standards Network etc.
- **CCMC Project India:** Ms. Jarita, CEN CENELEC organized a meeting with SESEI expert to discuss status update of BIS/RDSO, proposed meeting with EU delegation to India, final approval on Market surveillance and book chapter. SESEI expert provided her updates on these activities.
- **Conference call meetings with CEN-CENELEC for CII Seminar on Quality Infrastructure:** to discuss the key messaging and India specific areas for a presentation to be made by Chair India Task force at the CII Conference. Draft presentation with following agenda points as prepared by Ms. Jarita was discussed in details and inputs were provided by SESEI expert.
- **Meeting ETSI/TSDSI to discuss OneM2M IMs:** Meeting between ETSI & TSDSI to discuss oneM2M IMs increase and effective Cash/membership contribution. Fruitful meeting to work together and re-examine the soft in-kind work allocation in view of the TSDSI projected increase in number of Individual Member to 65 in oneM2M w.e.f 01 Jan 2021.
- **India: Virtual introduction - EU delegation to India – ESOs:** A virtual meeting to make introductions between Senior officials at EU Delegation to India and the SESEI Project Partners and ensure synergies on the ongoing activities on ground.
- **India Taskforce Meeting No. #9:** A meeting was called by CEN-CENELEC to discuss agenda items for the India Taskforce. SESEI expert shared a presentation covering updates around European Business Group Position Paper, draft book Chapter on standards in India, Action Plan 2021, - SESEI CEN & CENELEC priorities and next steps and future meetings.
- **ETSI/InDiCo meeting about IMC 2020:** to discuss participation details at the virtual India Mobile Congress 2020. InDiCo team booked the 2h time slot in the IMC 2020 main Conference agenda at the end of Day 1.
- **Coordination call Meeting No. #4 with ETSI/Indico, SESEI and EU-IN ICT Standards:** Periodic meeting called by InDiCo/ETSI with SESEI and EU - India ICT Standards Project, to discuss security webinar and next steps. Discussion held on agenda, topics, speakers, and timelines for the future webinar on security.
- **Conference call meeting organised by ETSI/ InDiCo for IMC 2020:** Final meeting was held to discuss the agenda, speakers, and other logistic details. Discussion also took place on the key messages to be highlighted during the ETSI presentation in the IMC 2020. ETSI/ IndiCo session was very well received and appreciated by the audience.



- **Conference call Meeting with InDiCo to discuss India video Filming kick-off:** to initiate discussion on content / script, key messages for a proposed video / film on 5G technologies, its benefits, opportunities, especially in the Indian Context. SESEI expert provided input to storyboard, agency, location, and prospective stakeholders. Discussion also took place to update the storyboard with IMC 2020 conference for which also relevant material was shared.

Key Event Participations:

Generic:

- **28th QUALITY SUMMIT by Confederation of Indian Industries (CII)-** During its Annual Quality Summit, CII invited Mr. Wim De Kesel, Chairman India TaskForce, CEN CENELEC as one of the speakers in the session on Quality Movement 4.0: Competitive, Inclusive & Self Reliant. He shared his expertise on, New Legislative Framework (NLF) - Harmonized European Norms (hENs), benefits of the new legislative framework, benefits of Harmonised European Norms and also spoke about the cooperation between CEN/CENELEC and BIS and way forward for ESOs and India to work together.
- **VDMA Web-seminar "Conformity Assessment for a Safe and Competitive Market:** The German Engineering Federation (VDMA), organized a Web Seminar on "Conformity Assessment for a Safe and Competitive Market", and invited SESEI expert as a speaker. SESEI gave a presentation covering topics such as Single Market, Conformity Assessment, Market Surveillance, New Approach & Self Certification in Europe and IECEE scheme.
- **The Bureau of Indian Standards (BIS), along with Institute of Electrical and Electronics Engineers (IEEE) held a webinar to celebrate World Standards Day 2020.** The day, celebrated to raise awareness among regulators, industry, and customers about the importance of standardization to the global economy.
- **Diplomatic and Industry Leadership Session with Hon'ble Minister of Commerce & Industry.** "Diplomatic & Industry Leadership Session on EU-India Collaborative Economic Growth" was jointly co-organized by the European Business and Technology Centre (EBTC) and Invest India.
- **CEN-CENELEC 10-10 webinar: Participation of Small & Medium Sized Enterprises (SMEs) in standardization:** How Standards can help SMEs to grow and become more competitive.
- **Webinar: Standardization for EU competitiveness in a digital decade:** ETSI and KREAB organized virtual debate to discuss and share ideas on a standardization strategy to stimulate EU competitiveness in the digital economy. Standardization must also adapt to the context it operates in, and constantly adjust to deliver the economic and societal benefits expected by all parties who invest in it.
- **EBG Position Paper Release 2020:** Virtual release of the EBG Position Paper. EBG produces its yearly position paper and SESEI being a part of its Telecom Committee provides inputs on the telecom standards, policy and new technologies being introduced in India.



- **26th DST-CII Technology Summit:** Department of Science & Technology (DST), Govt. of India along with Confederation of Indian Industry (CII) organized 26th technology Summit. This time, India partnered with Portugal to focus on areas of trade & investment, driven by Science, Technology & Innovation
- **CUTS Webinar on "India-UK Trade and Economic Cooperation in the Context of Developments in the Indo-Pacific Region":** The meeting emphasized that the two countries should work together not only for their own mutual development and benefit, but also to deepen cooperation as democracies.

ICT:

- **India Mobile Congress 2020;5G and beyond: Developing EU-IN cooperation for the next generation of standards.** On the occasion of IMC2020, a very well-designed session was hosted by InDiCo and ETSI. Experts and Senior officials from Govt and Indian Telecom Industry interacted with ETSI officials. Project SESEI assisted InDiCo in obtaining a slot to highlight 5G standardisation efforts being carried out by ETSI.
- **5G India 2020 Virtual Conference & Exhibition organised by Bharat Exhibitions:** SESEI was invited as one of the key speakers in the technical session to share his views on "5G Standardisation". SESEI shared latest updates and overview on 5G Standardisation covering ETSI 5G building blocks, 5G standardization work in 3GPP.
- **6G Knowledge Lab Opening and 36th Virtual GISFI Workshop:** This workshop was held jointly with the CTIF Global Capsule, the Global ICT Standardization Forum for India (GISFI), technically sponsored by IEEE and by Wireless World Research Forum (WWRF-wwrf.ch). SESEI was invited as a key speaker in the technical session on 5G. SESEI expert gave a presentation on topic "5G and Beyond". In this presentation SESEI expert shared overview of the 5G Technologies and the standardisation work being carried out by ETSI and 3GPP. New Future technologies being introduced, and the standards developed by the Industry Specific Groups and Technical Committees at ETSI.
- **EU-India Workshop on Safe and Secure Mobile Technologies:** The Webinar was organized by the European Commission (DG CONNECT) and the Indian Government (Department of Telecom), with the logistical support of the EU-funded International Digital Cooperation - ICT Standardization project. The online workshop brought together experts from India and Europe to discuss on Cybersecurity Rules for Telecommunications, including security framework, and Security Assurance and Certification Schemes. EU-India Cooperation on Digital Policy and Strategy, India Cybersecurity Rules for Telecommunications, EU Policy Framework, Security Assurance and Certification Schemes
- **Webinar on "Quantum Security & 5G Networks" organised by TSDSI:** Digital Communications India Forum (DCIF) organized a webinar on "Quantum Security & 5G Networks" with TSDSI as a Standardisation Partner. The speakers deliberated on future of Security, 5G Networks and Advanced Real-time streaming based event applications.



- **SDN & NFV India Congress 2020:** Nexgen Conferences organized flagship event on 4th Annual SDN & NFV India Congress – A Digital Seminar which focused on the roadmap and future direction of SDN and NFV technology in Indian Telecom space. The deployment and expansion of 4G to 5G technology could also persuade operators to adopt SDN and NFV so they can maximize their return on investment.
- **CII Telecom Convergence Summit: "Broadband for Inclusive Growth - Social, Economic and Business":** The main objective of the Summit was to highlight the crucial role broadband plays towards inclusive development, role of Telco's and the power of voice.
- **IET India organized webinar on "Ethical AI: Implementation, Challenges and Framework" as part of their IET India Digital Conversations.** IET expert panel shared insights on: How can country-level policies be built to ensure fair AI? What are the ethical AI considerations that need to be fed in?
- **Curtain Raiser Event for India Mobile Congress 2020:** Curtain raiser ceremony for the India Mobile Congress 2020 was held on 9th November 2020, organised by COAI. ETSI via Project InDiCo is one of the participants at the India Mobile Congress 2020.
- **THE DIGITAL DIALOGUES on "5G Opportunities with Satellite Broadband"** organised by Broadband India Forum. The theme of this series was 5G Opportunities in conjunction with satellite broadband. This digital dialogue was focused on how to 5G Technologies with Satellite technology for optimising the 5G experience.
- **IET India organized webinar on " LPWA networks – shaping the future of IoT"** as part of its IET India Digital Conversations
- **India SatCom 2020** is the 6th edition of BIF's annual flagship event, most comprehensive conference for satellite communications in the country.
- **Quantum Leap for India - Technologies and Applications: IET India Digital Conversations** - During the webinar, speakers threw light on the status of quantum computing/technologies in India, Policy/Initiatives taken by Government of India and also anticipated the future of quantum technologies in India.
- **ASSOCHAM organised a webinar on the "India-Germany bilateral collaboration in the AI Sector":** To further strengthen India-Germany bilateral collaboration in the AI Sector, the, Consulate General of India, Frankfurt, ASSOCHAM and NRW Global Business GmbH organized a webinar on 'India-Germany Collaboration in the AI Sector'.
- **Data Centre India 2020 Virtual Conference by Bharat Exhibitions.** This forum highlighted the importance of various aspects of Next generation data centres and Virtual Cloud based Data Centre.
- **IEEE organized a webinar on "IoT Protocols - How Data Exchange Happens"**
- **IIT Kanpur organized "2nd IEEE Winter School on Fog/Edge Computing 2020" virtually:**



Smart city:

- **Webinar on "Demystifying façade safety in buildings to build safer, secure, smart and sustainable India":** BIS – IIT Gandhinagar – Underwriters Laboratories (UL) organized a panel discussion on to discuss the critical nature of façade safety of a variety of sectors.
- **IEEE SA Summit: Mobile Health: Necessity for Access, Validation and Trust to Meet:** IoT devices are typically characterized by low power requirements and are working under constrained environments in terms of network, memory, processing capabilities and power consumption. Therefore, IoT devices are in need of specialized protocols called "IoT protocols" to work efficiently in constrained environments.

Electrical & Electronics:

- **German Days Digitales 2020:** The Indo-German Chamber of Commerce (IGCC) brought the 'German Days Digitales- the Digital Experience'. Indo-German Energy Forum (IGEF-SO) organized a panel discussion on "Renewable Energy power supply for commercial and industrial consumers".
- **CUTS & BASK Webinar on "Transforming Power Distribution: Consumers, Governance & Technology."**
- **Distribution Utility Meet (DUM) 2020 from 27 to 28 Nov 2020 on a Digital Platform:** Fourth Edition of ISGF's Annual Conference of Power Distribution Utilities - Distribution Utility Meet (DUM 2020) was held on 27-28 November 2020 on Digital Platform
- **3rd edition of Renewable Energy Investors' Meet and Expo (3rd RE-INVEST)** on a virtual platform: Indo-German Energy Forum (IGEF), organised a **RE-INVEST 2020, an Indo-German country session.**
- **IEEE SA Summit: Future Trends in Renewables:** IEEE Standards Association organised a virtual session on "Future Trends in Renewables" as part of IEEE SA Summit.
- **Virtual Smarter Energy India Conference Program 2020: Indo-German Energy Forum was one of the key participants and sponsor.** SESEI was invited by Indo German Energy Forum to visit the international virtual conference. Industrial and commercial storage with B2I and others, Agrophotovoltaics (AgroPV) with Fraunhofer ISE, NSEFI, and O&M of large-scale PV plants with Solar Power Europe, NSEFI were key areas of highlight and focus by IGEF.
- **GoToWebinar - Roundtable on Standards for building safe electrical energy storage system:** BIS with the Solar Energy Corporation of India and Underwriters Laboratories scheduled a roundtable workshop on standards for construction of safe electrical energy storage systems in India to build awareness of India's existing standards, discuss the international implementation of new standards and, highlight the benefits of safer, reliable and sustainable Battery Electrical Energy Storage Systems (BEES).

Industry/ Smart Manufacturing:

- **DSCI-TASL Virtual Panel Discussion on Advanced Industrial Security - Protecting Industrial Operations:** The Data Security Council of India (DSCI), in association with Tata Advanced Systems



Ltd. Organized an exclusive virtual panel discussion on the theme 'Advanced Industrial Security - Protecting Industrial Operations from Targeted Attacks'.

Automotive/ E-Vehicles:

- **IEEE SA Summit: E-Mobility: An Ecosystem Perspective:** Featuring many technologies & innovations in electric vehicles & mass transportation, efforts are underway to develop electric aviation as well.
- **Webinar on Intelligent Connected Vehicle Platform** organized by Informa. The presentation made during this event, discussed the digital enhancement enabled by their connected car initiatives, that are being undertaken to achieve this objective.

Resource Efficiency:

- **CEN-CENELEC Webinar "European standards addressing material efficiency aspects":** (CEN-CLC/JTC 10) organised a webinar to present how standards could be used by product-specific Technical Committees when developing product-specific or product group standards addressing material efficiency aspects.

Key Queries addressed:

Generic

- Query on Indian legislative framework on product safety, market surveillance system in place": European Commission
- Query related to BIS (Conformity Assessment) Amendment Regulations, 2020: European Commission
- Query on BIS regulations for products for measuring the distance between 2 devices: Atlas Copco India
- Query on Time Norms/Frame if a new Standard Develops at CEN CENELEC and BSI: Bureau of Indian Standards (BIS)

ICT

- Query on ETSI and its Process to make any specification to standard before it becomes a Regulations: Ericsson.
- Inputs to draft report on "IoT / ICT standards for Smart cities" being produced by TEC: TEC
- Inputs to Annual Action Plan of Telecom Engineering Centre (TEC) for FY 2021-22: Telecom Engineering Centre (TEC)
- Provided information on quantum technologies status in India: CEN-CENELEC
- Provided a copy of TR (DTR /0057) Guide to Cyber Security for Consumer Internet of Things and TS 103 701 Cybersecurity assessment for consumer IoT products: TEC
- share the latest version of EN 301 549 on Accessibility requirements for ICT products and services: Bureau of Indian Standards (BIS)

Automotive

- Query on CEN Standards and Certification for ropeways: Alok Sharma
- Shared Rail Report on Standards prepared by SESEI: EU Delegation to India



3. Generic Update

3.1 BIS to bring service norms for e-commerce companies, aggregators.

Bureau of Indian Standards (BIS) is in the process of setting standards for services provided by e-commerce companies and aggregators like Flipkart, Ola, AirBnB among others. BIS, which lays down norms with regards to quality and safety of goods sold in the country, has been in discussion with various stakeholders to lay out standards for several issues ranging from standardisation of invoices and websites.

It also plans to come out with certification for secure websites in order to curb the menace of fly by night operators in the digital commerce industry. "There are several fraudulent websites that fleece money from consumers under the garb of being an e-commerce firm, selling goods. The certification will help consumers in identifying the reliable ones," said an official who did not want to be identified. These standards will touch upon areas which are outside the scope of the e-commerce policy in order to avoid any overlap.

The bureau has set up various committees to decide these standards. All major companies including Snapdeal, Flipkart and JioMart are a part of these committees. The initiative is a part of standardisation activity being done by the National Standards Body through the Services Sector Department for 12 service sectors including retail, e-commerce and payments.

[Read More>>](#)

3.2 BIS brings in quality control for certain home Appliances.

The BIS, the national Standards Body of India working under the aegis of Ministry of Consumer Affairs, Food & Public Distribution, has brought in some fresh standards for certain home appliances.

The BIS in a statement said that these items will have to follow the norms set by the bureau. These include refrigerators with or without low temperature, freezers and household frosts. This would essentially mean that the items specified will have to adhere to new norms. BIS standards that help to ensure quality certification of goods and incidental matters, have been made applicable to refrigerators and freezers from Jan 2020 and as such the industry players dealing in these goods will have to mandatorily comply with the standards issued by Bureau of Indian Standards and also obtain requisite BIS registrations.

[Read more>>](#)

3.3 Government sets up Inter-Ministerial Committee to strengthen the Capital Goods Sector



The government has set up a 22-member inter-ministerial committee in strengthening the Capital Goods (CG) Sector through interventions that help the CG Sector in contributing more actively in the national goal of achieving a USD 5 trillion economy and a USD 1 trillion manufacturing sector.

Initiatives in the Capital Goods Sector require in depth consultations and deliberations with all concerned Ministries / Departments on regular basis. It is in this light proposed an Inter-Ministerial Committee (IMC) is being constituted with representation from all the concerned Ministries / Departments dealing with the CG sector and using CG machinery to regularly meet and deliberate to address the issues and bottleneck pertaining to the sector. The IMC will help DHI in taking a holistic view for all the issues pertaining to the CG Sector.

The Committee will look into on all such issues pertaining to the Capital Goods Sector including technology development, mother technology development, global value chains, testing, skill training, global standards, reciprocity issues, custom duties to make this sector globally competitive and to become the manufacturing hub for the world. Any other relevant issue pertaining to the Capital Goods sector may also be brought before the Committee with the prior approval of the Chairman.

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3.4 India Patent- 2019/2020 annual report Published

[DPIIT India](#) which is also responsible for formulation and implementation of IPR policies has recently published its annual report for the year 2019/2020. Chapter 5 of the [annual report](#) provides description of recent activities of the Office of the Controller General of Patents, Designs and Trademarks (CGPDTM) carried out in 2019/2020 including:

- implementation of new amendments in Patent Rules
- number of patents granted under the expedited examination procedure
- number of applications received by CGPDTM in the capacity of ISA and IPEA

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3.5 Revised Patent Rules in India effective from 19 October, 2020

The India Ministry of Commerce and Industry has issued a notification that the Patents (Amendment) Rules, 2020, was released and enforced on 19 October, 2020.

In summary, the key amendments have an impact on the requirements for filing priority documents and its verified English translation, as well as the timeline and content required when submitting the Statement of Working for a granted patent in India:

1. The requirements for submitting priority document(s) have been amended to **broaden the exception** to include situations under Rule 17.1(b-bis) of the PCT Regulations, wherein the applicant asks the Receiving Office to obtain the priority document from a digital library. Furthermore, submission of an English translation is only required when the validity of the priority claim is relevant to determination of patentability or when errors in the international filing date have been corrected (Rules 51bis.1(e)(i) and (ii) of the PCT Regulation).



2. A Statement of Working for a granted patent will have to be filed for each financial year (beginning 01 April) instead of the calendar year as previously stipulated, starting from the financial year commencing immediately after the grant of the patent. Further, the statements can be submitted within six months from the expiry of each financial year.

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4 SMART CITIES

4.1 BIS Standardization efforts for Smart Cities Digital Infrastructure

Bureau of Indian Standards (BIS), the national standards body of India, is developing standards for Smart Cities through several sectional committees under it. One of the sectional committees, LITD 28 Smart Infrastructure sectional committee is developing a comprehensive set of standards for ensuring a well harmonized, Secure, and sustainable Digital infrastructure across the Smart Cities and to facilitate the implementation of various Smart City projects.

The series of standards would be applicable across any geographical region that can encompass Smart Village to the entire nation. The standard “IS 18000 Unified Digital Infrastructure – ICT Reference Architecture (UDI-ICTRA)” is the foundational standard in the series. The wide circulation draft of IS 18000 ([Doc No LITD 28 \(15990\)](#)) is presently available for public comments and the last date for sending comments is 14 Nov 2020. The document can be downloaded from [here](#).

This draft standard provides a reference architecture for achieving a harmonized, Secure, and sustainable Digital infrastructure that can serve as a template for both the City Administrators, who are the consumers of such ICT based solutions, as well as the ICT Solution Providers who develop and deploy such solutions. The reference architecture includes functional reference models, technology reference models and information reference models.

The other standards in the series which are under development are as below:

IS No	Title
IS 18001	Unified Digital Infrastructure – Implementation Guidelines (under development)
IS 18002	Unified Digital Infrastructure – Data Layer Reference Architecture (under development)
IS 18003-1	Unified Data Exchange Part 1: Architecture (Available for public comment: LITD 28(14073))
IS 18003-2	Unified Data Exchange Part 2: API Specification (under development)
IS 18003-3	Unified Data Exchange Part 3: API Test Specification (under development)
IS 18004	Unified Digital Infrastructure: IoT System Reference Architecture (under development)

IS 18010-1	Unified Digital Infrastructure: Last Mile Communication Reference Architecture (UDI LMCPS) (Under publication)
IS 18010-5-1	UDI LMCPS Network Access Layer (IEEE 802.15.4) (Under publication)

The above standards have also been referred to in the Model RFP being prepared by the Smart Cities Mission.

[Read More>>](#)

4.2 OneM2M IoT standard to help underpin India's smart Cities.

International standards initiative for M2M and IoT technologies oneM2M has announced that its standard has been adopted at national level in India to develop the 100 smart cities plan of the country. The standard, developed by a joint global collaborative effort, has already been transposed in India by the Telecommunications Standards Development Society, India (TSDSI).

According to the partnership project, national adoption of the TSDSI transposition of oneM2M standard highlights the importance of collaboration, testing and certification in the development of IoT devices and software, and it will also 'propel' India in the global IoT market.

"We have completed this adoption process after following an exhaustive process of consultation as well as critical analysis by a consultative committee," said Udai Srivastava, senior deputy-director general at the Indian government's telecom standard body Telecom Engineering Centre (TEC). "IoT/M2M will play a significant role in the expansion of the digitally connected society and the realisation of the Smart City Mission programme in India."

As India strives to deliver over 100 smart cities across the country, standard based deployment would ensure interoperability, security and multi-vendor deployments bringing India closer to becoming "Digital India", reports TSDSI.

[Read More>>](#)

4.3 IIT Madras Develops MOUSHIK' Microprocessor for IoT Devices

Indian Institute of Technology Madras Researchers have successfully boot up MOUSHIK, an indigenously made Microprocessor. MOUSHIK is a processor cum system on chip that can cater to the rapidly growing IoT devices, an integral part of Smart Cities of a Digital India. The impact of the completely indigenous development process is the showcasing of an Indian ecosystem for designing, developing and fabricating end-to-end systems within the country, leading to self-sufficiency. The Project is funded by the Ministry of Electronics and Information Technology, Government of India. The Field Applications of 'MOUSHIK' include:

- Smart cards including Credit cards, ID Cards, Debit cards, Travel Cards for Metros and Driving Licenses
- Electronic Voting Machines (EVMs)
- Office Management Systems including Attendance, surveillance cameras and safe locks



- Personalized Health Management Systems
 - Consumer Electronics including but not restricted to Washing Machines and Water pump monitoring systems.
1. The first indigenous chip in the SHAKTI series was designed and booted up SHAKTI in October 2018. This is a basic building block for mobile computing devices, embedded low power wireless systems and networking systems besides reducing reliance on imported microprocessors in Communications and Defence Sectors.
 2. SHAKTI Microprocessor can be used by others as it is on par with International Standards. This series of microprocessors has the potential to pave way for a global market.
 3. As it is open source, any industry including startups can take the design and customize it based on their needs. The Swadeshi Microprocessor Challenge 2020 (<https://innovate.mygov.in/swadeshi-microprocessor-challenge/>) has been launched by the Ministry of Electronics and Information technology, Government of India, to encourage the same.
 4. The other crucial aspect of such an indigenous design, development and fabricating approach is reducing the risk of deploying systems that may be infected with back-doors and hardware Trojans. This development will assume huge significance when systems based on SHAKTI processors are adopted by strategic sectors such as defence, nuclear power installations and Government Agencies and Departments.

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4.4 Telecom Regulatory Authority of India (TRAI) released White Paper on Smart Cities in India

The White Paper highlights the Role of digital technologies for smart cities, discusses the key smart solutions, deliberates the need of Global Standardization and connectivity related aspects specific to smart cities, and tries to identify the framework for ICT Infrastructure for the success of Smart Cities Mission in India.

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5 Electrical Equipment including Consumer Electronics.

5.1 NITI Aayog, Rockefeller Foundation & Smart Power India Launch Electricity Access & Utility Benchmarking Report

NITI Aayog, Ministry of Power, Rockefeller Foundation, and Smart Power India launched the 'Electricity Access in India and Benchmarking Distribution Utilities' report.



Based on a primary survey conducted across 10 states—representing about 65% of the total rural population of India and with a sample size of more than 25,000, including households, commercial enterprises, and institutions—the report assesses 25 distribution utilities.

Aimed at capturing insights from both the demand (electricity customers) as well as supply side (electricity distribution utilities), the report seeks to:

- Evaluate the status of electricity access in India across these states and distribution utilities along all dimensions that constitute meaningful access.
- Benchmark utilities' capacity to provide electricity access and identify the drivers of sustainable access
- Develop recommendations for enhancing sustainable electricity access.

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5.2 Electronic contract manufacturing in India to grow over 6-fold to \$152 bn by 2025

The electronic contract manufacturing sector in the country is projected to grow by over six-fold to USD 152 billion by 2025, as per industry body Elcina. Globally, the electronic manufacturing services (EMS) sector was valued at USD 832 billion in 2019 and is estimated to grow to USD 1,055 billion by 2025. "Elcina predicts that the Indian EMS industry will gallop from USD 23.5 Bn in 2019-20 to USD 152 Bn by 2025. This effectively means that it has the potential to grow from less than 3 per cent of the global industry to about 14 per cent within 5 years," the Electronic Industries Association of India (Elcina) said in a statement.

Electronics and IT Secretary Ajay Prakash Sawhney, while releasing the "EMS Task Force Report" by Elcina, emphasized on the need to manufacture printed circuit board (PCB) assemblies within the country and reduce import dependence. China exports USD 685 billion of electronics to the world. India has set a target of USD 100 billion exports of mobiles alone by 2025, which is possible with the support of the production-linked incentive (PLI) scheme, Elcina said. This would mean that India would serve 25 per cent of the global mobile market which was estimated to be valued at USD 415 billion in 2025, the statement said, adding that similar support for non-mobile EMS exports would enable India to make a mark in the world market.

It is estimated that there are almost 700 EMS players in India, including 100 global companies and 600 domestic companies. EMS is the key link between components and finished equipment. All major OEM"s are keen to develop alternative sources to prevent uncertainty and supply chain disruptions.

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5.3 Power Ministry Proposes Pushing Back Emission Norms Deadlines

India's power ministry has proposed pushing back the deadlines for adoption of new emission norms by coal-fired power plants, saying "an unworkable time schedule" would burden utilities and lead to an increase in power tariffs. India initially had set a 2017 deadline for thermal power plants to comply with emissions standards for installing Flue Gas Desulphurization (FGD) units that cut emissions of toxic sulphur dioxide. That was later changed to varying deadlines for different regions, ending in 2022.



Under the latest proposal, no new dates have been set. However, a final decision will have to be approved by the Supreme Court, which is hearing the issue.

The power ministry proposed a "graded action plan," whereby areas where plants are located would be graded according to the severity of pollution, with Region 1 referring to critically polluted areas, and Region 5 being the least polluted.

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

- Testing of all equipment, components, and parts imported for use in the power Supply System and Network in the country to check for any kind of embedded malware/trojans/cyber threat and for adherence to Indian Standards. [Read more/Download](#)
- All Electricity Distribution Companies (DISCOMs) to come under Energy Conservation (EC) Act, 2001. [Read more](#)
- Amendments to the Guidelines for Tariff Based Competitive Bidding Process for Procurement of Round-The Clock Power from Grid Connected Renewable Energy Power Projects, complemented with Power from Coal Based Thermal Power Projects. [Read more/Download](#)
- Concept Note on Plan for one Solar City in Each State/ UT. [Read more](#)
- Dispute Resolution Mechanism to consider the unforeseen disputes. [Read more](#)
- Amendments to the Guidelines for Tariff Based Competitive Bidding Process for Procurement of Power from Grid Connected Solar PV Power Projects. [Read more/Download](#)

6 Automotive

6.1 Indian Railways issued Draft National Rail Plan

In an endeavor to address the inadequacies of capacity constraints and improve its modal share in total freight eco system of the country, Indian Railways has come up with Draft National Rail Plan.

A long-term strategic plan called the National Rail Plan has been developed to plan infrastructural capacity enhancement along with strategies to increase modal share of the Railways. The National Rail Plan will be a common platform for all future infrastructural, business, and financial planning of the Railways. This plan is being circulated among various Ministries for their views now. Railways aim to finalise the Final plan by January 2021.

The objective of the Plan is:

- To create capacity ahead of demand by 2030, which in turn would cater to growth in demand right up to 2050 and also increase the modal share of Railways from 27% currently to 45% in freight by 2030 as part of a national commitment to reduce Carbon emission and to continue to sustain it. Net Zero Carbon emission by 2030.
- To assess the actual demand in freight and passenger sectors, a yearlong survey was conducted over hundred representative locations by survey teams spread all over the country.

- Forecast growth of traffic in both freight and passenger year on year up to 2030 and on a decadal basis up to 2050.
- Formulate strategies based on both operational capacities and commercial policy initiatives to increase modal share of the Railways in freight to 45% by 2030.
- Reduce transit time of freight substantially by increasing average speed of freight trains from present 22Kmph to 50Kmph.
- Reduce overall cost of Rail transportation by nearly 30% and pass on the benefits to the customers.
- Map the growth in demand on the Indian Railway route map and simulate the capacity behaviour of the network in future.
- Based on above simulation identify infrastructural bottlenecks that would arise in future with growth in demand.
- Select projects along with appropriate technology in both track work, signalling and rolling stock to mitigate these bottlenecks well in advance.

As part of the National Rail Plan, [Vision 2024](#) has been launched for accelerated implementation of certain critical projects by 2024 such as 100% electrification, multitracking of congested routes, upgradation of speed to 160 kmph on Delhi-Howrah and Delhi-Mumbai routes, upgradation of speed to 130kmph on all other Golden Quadrilateral-Golden Diagonal (GQ/GD) routes and elimination of all Level Crossings on all GQ/GD route.

- Future projects for implementation beyond 2024 in both track and signalling have been identified with clear cut timelines for implementation.
- Three Dedicated Freight Corridors, namely East Coast, East-West & North-South identified along with timelines. PETS survey already underway.
- Several new High Speed Rail Corridors have also been identified. Survey on Delhi-Varanasi High Speed Rail already under way.
- Assess rolling stock requirement for passenger traffic as well as wagon requirement for freight.
- Assess Locomotive requirement to meet twin objectives of 100% electrification (Green Energy) by December 2023 and the increasing traffic right up to 2030 and beyond up to 2050.
- Assess the total investment in capital that would be required along with a periodical break up.
- Identify new streams of finance and models for financing including those based on PPP.
- For successful implementation of the National Rail Plan, the Railways will be looking to engage with Private Sector, PSUs, State Governments and Original Equipment Manufacturers (OEM)/Industries.
- Sustained involvement of the Private Sector in areas like operations and ownership of rolling stock, development of freight and passenger terminals, development/operations of track infrastructure etc.

In effect the National Rail Plan envisages an initial surge in capital investment right up to 2030 to create capacity ahead of demand and increase the modal share of the Railways in freight by 45%.

Post 2030, the revenue surplus generated would be adequate to finance future capital investment and take the burden of debt service ratio of the capital already invested. Exchequer funding of Rail projects would not be required.

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6.2 Government allows use of H-CNG as alternative clean fuel for Automobile.

In a move aimed at a wider adoption of alternative clean fuel for transportation, the Ministry of Road Transport and Highways on Monday allowed the use of Hydrogen-enriched compressed natural gas (H-CNG, which is an 18 per cent mix of hydrogen, in CNG engines. The ministry has been notifying various alternative clean fuels for transportation. The Bureau of Indian Standards (BIS) has also developed specifications of H-CNG as a fuel for automotive purposes. Certain CNG engines were tested to understand the emission reduction using H-CNG as compared to 'neat' CNG.

A notification for amendments to the Central Motor Vehicles Rules, 1989, for inclusion of H-CNG as an automotive fuel has been published vide GSR 585 (E) dated September 25, 2020, by the ministry. The draft rules in this respect were made available to the public on the July 22. No objections and suggestions were received from the public in this respect, the ministry said in a press statement.

[Read More>>](#)

6.3 Government extends deadline for EV components localisation by six months.

The department of heavy industries extended the deadline for the localisation of several components under its phased manufacturing programme (PMP) for electric vehicles (EV) from October 1 to April 1 next year, offering a breather to the industry. Compliance with the PMP is a condition for availing subsidies.

The move is expected to help the fledgling EV industry as the localisation plans of several companies were derailed due to the disruption from the pandemic. To get demand incentives under the Rs. 10,000-crore (€1.2 bn) second phase of the Faster Adoption and Manufacturing of Hybrid and Electric vehicles (FAME) scheme, companies must gradually increase the local sourcing of components for their EVs as stipulated in the PMP.

[Read More>>](#)

6.4 India plans \$4.6 billion in incentives for battery makers in electric vehicle push.

India plans to offer \$4.6 billion in incentives to companies setting up advanced battery manufacturing facilities as it seeks to promote the use of electric vehicles and cut down its dependence on oil. As per the proposal drafted by NITI Aayog, said India could slash its oil import bills by as much as \$40 billion by 2030 if electric vehicles were widely adopted.

The think tank recommended incentives of \$4.6 billion by 2030 for companies manufacturing advanced batteries, starting with cash and infrastructure incentives of 9 billion rupees (\$122 million) in the next financial year which would then be ratcheted up annually. "Currently, the battery energy storage industry is at a very nascent stage in India with investors being a little apprehensive to invest in a sunrise industry," the proposal said.



India plans to retain its import tax rate of 5% for certain types of batteries, including batteries for electric vehicles, until 2022, but will increase it to 15% thereafter to promote local manufacturing, the document said.

Though keen to reduce its oil dependence and cut down on pollution, India's efforts to promote electric vehicles have been stymied by a lack of investment in manufacturing and infrastructure such as charging stations. Just 3,400 electric cars were sold in the world's second-most populous nation during the last business year, compared to sales of 1.7 million conventional passenger cars. The policy could benefit battery makers such as South Korea's LG Chem and Japan's Panasonic Corp as well as automakers which have started building EVs in India such as Tata Motors and Mahindra & Mahindra.

[Read More>>](#)

6.5 Ministry of Road, Transport and Highways issued following notifications:

- Changes in the Model Concession Agreement (MCA) for NHs works under Hybrid Annuity Mode (HAM) Projects. [Read more>>](#)
- Standard Operating Procedure (SOP) for Maintenance & Repair (M&R) of NHs. [Read more>>](#)
- safety requirements for Construction Equipment's Vehicles. [Read more>>](#)

7. ICT

7.1 MeitY seeks comments/suggestions on the Draft Data Centre Policy

MeitY has drafted a Data Centre policy to benefit the Data Centre park developers/Data Centre operators as well as the allied ecosystem of Data Centre sector. The policy intends to ensure sustainable and trusted Data Centre capacity within the country. This policy framework shall be followed by a detailed scheme with implementation guideline document providing the particulars of various fiscal and non-fiscal incentives to be provided to the sector by the Central and State Government.

[The Policy document is attached for your reference.](#)  159.34 KB

7.2 TSDSI releases report on “Cloud Interoperability and Portability (CIP)- Standards” jointly with CCICI

Telecommunications Standards Development Society, India (TSDSI) was mandated by Department of Telecommunications (DoT) based on Telecom Regulatory Authority of India (TRAI) recommendations to develop Cloud Service Interoperability Standards for India.

TSDSI joined hands with Cloud Computing Innovation Council of India (CCICI) for this activity. Experts from both forums were engaged in defining an interoperability standard in a phased approach addressing the Use Cases in the India commercial / Govt usage context and by referring to the already



globally available standards. Phase I of the Study was completed in Sept 2020. Based on this, the first release of the report “India Cloud Interoperability Specification” was published and handed over to DOT. This report covers Cloud Interoperability – Standards Reference Architecture as well as analysis of the requirements of hybrid cloud, smart city, telecom, and cloud analytics use case scenarios. These requirements have been mapped to existing cloud standards and the gaps in the existing standards to address the Indian scenarios have also been identified.

Phase II of the study has been initiated to provide the normative reference standards on cloud services interoperability as well as secure & easy portability. The document will also address EDGE cloud and Cloud for Open RAN scenarios for the emerging 5G technology.

The report is available on TSDSI website at link <https://bit.ly/2HlaHa4>.

7.3 India's own 5G tech completes evaluation phase of ITU's IMT 2020

India's own 5G technology, TSDSI 5Gi, has completed the evaluation phase of ITU's International Mobile Telecommunications 2020 (IMT-2020) vision and now conforms with the stringent performance requirement, ITU said in a statement. This means that India's contribution is now being accepted as the global 5G standard.

IIT Kanpur Director, Prof Abhay Karandikar, founding member and Chairman of the Telecom Standards Development Society of India (TSDSI), India's body for telecom standards, said that global vendors will now need to make handsets and base stations conforming to this standard. The other two technologies that have completed the evaluation phase are 3GPP 5G-SRIT and 3GPP 5G-RIT submitted by the Third Generation Partnership Project (3GPP).

[Read More>>](#)

7.4 DoT constitutes working groups to prepare 5G Roadmap.

The Department of Telecommunications (DoT) has formed eight working groups to create a roadmap for the deployment of fifth-generation or 5G in different sectors such as agriculture, fintech, transportation and education. The working groups include members from Chinese vendor company Huawei, who will look at healthcare and fintech sectors, according to a notification by the department.

“The objective is to conduct a study and to produce a report with actionable points which brings out the use of 5G mobile technology in the respective sectors and how global use cases of 5G mobile technology in these sectors can be utilised and adapted to the Indian requirements,” the DoT said in a notification. As per the notification, Telecommunication Engineering Centre (TEC) will lead the task of preparing the report that will have technical solutions, use cases and doable action points. TEC members will head all eight groups which will also have members from telecom vendor companies Ericsson, Huawei, and Nokia. US based-Qualcomm Technologies Inc will have members for industry 4.0, smart grid and education.

The DoT has also decided to rope in more nominations/ volunteers from a larger pool of experts who



can give industry-specific perspective and direct the study. This will allow the department to interact with diverse stakeholders, understand issues in a holistically, and help the working groups come out with a report in a time-bound manner.

[Read more>>](#)

7.5 DoT to Seek Cabinet nod on PLI Scheme Guidelines for Telecom Gears

The Department of Telecommunications (DoT) will approach the Union Cabinet for approval of the structure of production-link incentives for telecom gear makers in India. In November, the Cabinet approved an incentive of Rs 12,195 crore (€1.4 bn) to introduce production-linked incentive (PLI) scheme for telecom and network products.

The Digital Communications Commission on December 1 approved the proposal for the scheme. The DoT will go to the Cabinet to get approval of the guidelines and structure of the PLI scheme. It will be in place within a month. Everything is going on with positive momentum. The product lines that have been specified include core transmission equipment; 4G/5G, next-generation radio access network and wireless equipment; and access and customer premises equipment (CPE). They also include internet of things (IoT) access devices and other wireless equipment; and enterprise equipment including switches and routers. The Cabinet had approved PLI schemes for 10 key sectors including automobiles, pharmaceuticals, food products and solar modules.

The approval followed the success of the scheme in the electronic manufacturing sector where the government announced sops of around Rs 50,000 crore (€5.9bn).

[Read More>>](#)

7.6 C-DAC signs 13 MoUs with India's premier academic and R&D institutions to establish supercomputing Infrastructure.

Several premier academic institutions in India will soon partner in indigenous assembling and manufacturing to establish supercomputing infrastructure in the country and make the facilities available at an affordable cost. Centre for Development of Advanced Computing(C-DAC) under the Ministry of Electronics and Information Technology (MeITY) signed a total of 13 MoUs with the premier academic and R&D institutions of India for establishing Supercomputing Infrastructure with Assembly and Manufacturing in India and Critical Components of National Supercomputing Mission in a virtual ceremony held on 12th October 2020.

The mission envisages empowering our national academic and R&D institutions to spread over the country by installing a vast supercomputing grid comprising of more than 70 high-performance computing facilities. The mission also includes the development of highly professional High-Performance Computing (HPC) aware human resource for meeting the challenges of the development of these applications. The mission implementation would bring supercomputing within the reach of the large scientific & technology community in the country and enable the country with a capacity to solve multi-disciplinary grand challenge problems. The mission is implemented and steered jointly by the

Department of Science and Technology (DST) and Department of Electronics and Information Technology (DeitY) at an estimated cost of Rs.4500 crore (€530 million) over a period of seven years to make India one of the world leaders in Supercomputing.

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8. Planned Activities for Next Quarters

- End of Year financial closure & Regulatory Compliances for both EU and India
- Steering Committee Meeting #4
- Prepare Interim Report Project SESEI with ETSI: 02/21
- Release updated “Landscape Report on Indian Standardization and new Initiatives”: 01/21
- Prepare One Industry Sector Profile Report: 03/21
- Support Virtual Workshop on IoT/M2M with TEC/CDOT through ETSI/Indico
- Support Security Webinars in India through ETSI/Indico
- Follow-up & work on the India Taskforce/Priority India activities, action points including possible workshop.
- Continue participation in the important conferences and events to promote EU Standards & related policies.
- Release timely Policy & NEWS Updates

9. Glossary

Sr. No.	Acronym	Expansion
1	3GPP	3rd Generation Partnership Project
2	5G	Fifth Generation
3	5GIF IEG	5G India Forum Independent Evaluation Group
4	AAL	Active Assisted Living
5	AI	Artificial Intelligence
6	BIF	Broadband India Forum
7	BIS	Bureau of Indian Standards
8	CDoT	Centre for Development of Telematics
9	CEA	Central Electricity Authority
10	CEN	European Committee for Standardization
11	CENELEC	European Committee for Electro-technical Standardization
12	COAI	Cellular Operators Association of India
13	DGFT	Directorate General of Foreign Trade
14	DoT	Department of Telecommunications
15	EEG	European Economic Group

16	EESL	Energy Efficiency Services Limited
17	EoI	Expression of Interest
18	ETA	Equipment Type Approval
19	ETD	Electro-Technical Department
20	ETSI	European Telecommunications Standards Institute
21	EU	European Union
22	EV	Electric Vehicle
23	FAME	Faster Adoption and Manufacturing of (Hybrid) and Electric Vehicles
24	FTAs	Free Trade Agreements
25	FTP	Foreign Trade Policy
26	GST	Goods and Services Tax
27	HSN	Harmonized System of Nomenclature
28	ICT	Information and Communication Technology
29	IEA	International Energy Agency
30	IEC	International Electrotechnical Commission
31	IISc	Indian Institute of Science
32	IoT	Internet of Things
33	IPR	Intellectual Property Rights
34	IRD	International Relations Department
35	ISUW	India Smart Utility Week
36	ITU	International Telecommunication Union
37	LCD	Liquid Crystal Display
38	LED	Light Emitting Diodes
39	LITDC	Electronics and Information Technology Division Council
40	LPWAN	Low-Power Wide-Area Networks
41	M2M	Machine to Machine Communication
42	MAIT	Manufacturers' Association for Information Technology
43	MEITY	Ministry of Electronics and Information Technology
44	MNRE	Ministry of new and renewable energy
45	MoHUA	Ministry of Housing and Urban Affairs
46	MoP	Ministry of Power
47	MoP	Ministry of Power
48	MoU	Memorandum of Understanding
49	MSME	Micro, Small and Medium Enterprises
50	NDAP	National Data and Analytics Platform
51	NMC	National Mirror Committee
52	PLI	Production-Linked Incentive

53	PV	Photovoltaics
54	PWDs	Persons With Disabilities
55	R&D	Research and Development
56	SAR	Specific Absorption Rate
57	SESEI	Seconded European Standardization Expert for India
58	SMNP	Smart Meter National Programme
59	SyC	Systems Committee
60	TAG	Technical Advisory Group
61	TBT	Technical Barriers to Trade
62	TEC	Telecom Engineering Centre
63	TRAI	Telecom Regulatory Authority of India
64	TSDSI	Telecommunications Standards Development Society India
65	USB	Universal Serial Bus
66	WG	Working Group
67	WWRF	Wireless World Research Forum