

Annexure 2

Activity Tracker & Queries for the period of 'July-September 2020'

Quarterly Report No. 05

Sr. No.	Description	Total Until now	In Last quarter
1	External Meetings	149	34
2	Internal Meetings	43	06
3	Events/Seminar/Workshop/Roundtable	132	45
	Total	324	85
4	No of Queries	53	09

SESEI-IV

Monthly Activity Update: July to September 2020

Sr. No	CAT	Date	Meetings/Events:	Subject:	Outcome:	What Next	Status	Sector
1	E	02-09-2020	REI E-Expo 2020	Renewable Energy India Expo 2020, organised by Informa Markets was held on 2nd & 3rd Sept 2020.	As part of the 7th Indo-German Energy Day, Indo-German Chamber of Commerce in collaboration with the Indo-German Energy Forum (IGEF) Support Office organized a virtual German Pavilion at the REI E-Expo 2020. IGEF also hosted a session with discussion on "PV Rooftop and Storage".	N/A	Closed	Electrical Equipment and Consumer Electronics
2	M	02-09-2020	Virtual meeting of the TEC WG on Future Communication Technologies & use cases in IoT domain	TEC has been organizing regular meetings to seek inputs on draft report on the Future Technologies	Regular meetings of the TEC Working group on Future Communication Technologies in IoT domain are being organised. In this meeting updated draft document after incorporating inputs from members was discussed in detail. SESEI is an active member of the Working Group and provides inputs on the latest standards and work being carried out by EU and ETSI. SESEI also updates project partners and shares the draft document with them.	Continue working with TEC on this subject	Closed	ICT
3	M	03-09-2020	Virtual meeting of the TEC WG on "Security by design Principles in M2M device manufacturing and National Trust Center for certification of M2M devices and applications"	The meeting of the TEC WG on "Security by design Principles in M2M device manufacturing and National Trust Center for certification of M2M devices and applications" was called to further	During meeting, inputs/comments received from working group members were discussed in detail. SESEI is an active member of the Working Group and has provided information on work being carried out at ETSI on this subject.	Continue working with TEC on this subject	Closed	ICT

				discuss the reference draft document, inputs and used cases data received from members and the minutes of the last meeting.				
4	E	03-09-2020	Webinar by Pmanifest on - Emerging e-mobility use cases for Rural transportation in India and Africa	Pmanifest consultants organised a webinar on the Emerging e-mobility use cases for Rural transportation in India and Africa	<p>It is believed that e-Mobility brings efficiency to transportation (EVs 6X efficient from tank-to-wheel energy conversion) and with its required charging electricity quantum has potential to improve energy supply economics in rural for improved energy access. This improved energy access and higher affordable transportation has potential to drive next wave of rural economic growth. This webinar jointly organized by pManifest and EST focused on:</p> <ul style="list-style-type: none"> - Existing transportation landscape in rural regions, driving factors and economics - Need and suitability (use cases) of EV For Rural Applications - Opportunities, success stories and barriers to develop integrated e-mobility ecosystem for rural regions - Potential business models - Developing ecosystem of e-mobility around battery/ renewable energy to empower rural economy and energy access 	N/A	Closed	Smart Mobility
5	M	03-09-2020/ 10-09-2020/ 17-09-2020/	Periodic Webex meeting invitation: LITD 28/P6 ICT RA Weekly call	LITD-28-P6-ICT-RA WG meeting to discuss ICT Reference Architecture	<p>Weekly calls of LITD-28-P6 ICT RA are being organized by Bureau of Indian Standards to discuss the inputs/comments on LITD 28 (15990) P – “Unified Digital Infrastructure - ICT Reference Architecture (UDI-ICTRA)”.</p> <p>SESEI being an important member of panel regularly attends</p>	Continue working with LITD-28-P6 ICT RA and provide inputs to this	Closed	ICT

		24-09-2020			meetings and provides inputs on EU work around this subject.	document		
6	M	04-09-2020	TEC: Virtual meeting for finalizing Technical Report on Smart Village & Agriculture,	Working Group of the TEC on Smart Village & Agriculture, are meeting regularly for finalising the draft technical report on smart village and agriculture	TEC organized working group meeting to discuss inputs/comments received from WG members and said that the technical report needs to be finalized soon, members are requested to contribute in the working group. SESEI is a member of this WG and has provided EU work around Smart villages which are well considered in this draft report.	Continue working with TEC on this subject and promote EU work	Closed	ICT
7	M	07-09-2020	Discussion Meeting of the Panel 2 of SSD10 of BIS	Mr. Ranjeet Goswami, called a meeting of the SSD 10, IT and ITES sectional committee sub-committee. BIS	Meeting of the Panel 2 of SSD10 of BIS was called to discuss the following draft documents: - SSD-10 Panel 2 Roadmap - SSD10 Standardization Roadmap SESEI expert attended this meeting and provided inputs on these documents.	Continue working with SSD 10 of BIS to promote EU work around this subject	Closed	Services
8	I	07-09-2020	Meeting with Christi Jarita, CENCENLEC	Meeting to 1) discuss Opportunity to virtually meet the EU Delegation officers in India from DG CONNECT, MOVE, TRADE etc. 2) Webinar with BIS on Market Surveillance	Meeting was held to discuss the following points: 1) discuss Opportunity to virtually meet the EU Delegation officers in India from DG CONNECT, MOVE, TRADE etc. : SESEI will contact the delegation officers once date/time agreed 2) Webinar with BIS on Market Surveillance: SESEI informed the status and ongoing discussion on it	N/A	Closed	Generic

9	E	08-09-2020	Webinar on GSGF Report "Electromobility in Smart Grid: State of the Art and Challenging Issues"	Webinar on GSGF Report "Electromobility in Smart Grid: State of the Art and Challenging Issues Worldwide" was organised by ISGF.	<p>During the webinar, the GSGF (Global Smart Grid Forum) released a report "Electromobility in Smart Grid: State of the Art and Challenging Issues Worldwide" and the a detailed overview of the report was presented.</p> <p>The aim of the report is to present the scientific and industrial issues to allow integration of the large fleets of EVs with the power systems under transformation.</p> <p>The report presents ongoing (or recent) demonstration projects the aim of proposing and testing solutions to facilitate EV integration and the development of the Vehicle-to-Grid (V2G) Systems.</p>	N/A	Closed	Electrical Equipment and Consumer Electronics
10	E	09-09-2020	The Digital Dialogues on "Digital Highway to 2025 - Suggested Milestones" on the occasion of BIF AGM and 5th Anniversary Celebration	Broadband India Forum celebrated its 5th Anniversary during its AGM this year. To commemorate the occasion, a special session of The Digital Dialogues was organised on the topic of "Digital Highway to 2025 - Suggested Milestones"	<p>Very senior officials from the Government and Ministry addressed the session:</p> <ul style="list-style-type: none"> - Dr. RS Sharma, Chairman, TRAI, was the Chief Guest on the occasion. - Shri Amitabh Kant, CEO, NITI Aayog Chaired the Session. - Shri Ajay Prakash Sawhney, Secretary, MeitY; Shri Anshu Prakash, Chairperson, Digital Communications Commission (DCC) & Secretary, Department of Telecommunications and Smt. Aruna Sundararajan, Former DoT Secretary and DCC Chairperson were invited as Special Guests of Honour. <p>The virtual session aims brought forth rich insights and perspectives from the renowned speakers on their outlook for the Digital Future, the desired time-specific goals to be achieved in this journey, and the opportunities and challenges to be addressed in doing so.</p>	N/A	Closed	ICT

11	M	09-09-2020	Second sectional committee meeting of SSD 10 'IT and ITES', BIS	The Second Meeting of IT and IT Enabled Services Sectional Committee was organised by BIS on 9 September 2020	<p>Bureau of Indian Standards (BIS) organized the Second Meeting of IT and IT Enabled Services Sectional Committee. The agenda for the meeting was:</p> <ul style="list-style-type: none"> - CONFIRMATION OF THE MINUTES OF THE PREVIOUS MEETING - ACTION POINTS ARISING OUT OF PREVIOUS MEETING - COMPOSITION OF SECTIONAL COMMITTEE - PROGRESS OF WORK ASSIGNED TO PANELS (SSD 10/P-1 & SSD 10/P-2) - INFORMATION ON E-SALE OF STANDARDS BY BIS - NATIONAL INSTITUTE FOR TRAINING IN STANDARDISATION <p>SESEI is an important member of the committee and attended the meeting and has provided CEN/CENELEC work around IT and IT Enabled Services.</p>	Continue working with this sectional committee of BIS and promote EU work in Service sector	Closed	Services
12	E	10-09-2020	Virtual Conference on "Satellite Communications-Road Ahead"	In order to consolidate the views of the Satcom stake holders, ITU -APT Foundation of India organised a virtual industry dialogue on " Satellite Communications-Road Ahead", Focusing mainly on the opening of the Indian Satcom to the private sector.	<p>Satellite Communications is expected to play a major role in connecting the underserved and unserved areas of the country in the coming years. Many new applications are being developed world wide to meet the growing user demands and requirements, in particular by using LEO satellites. The activities are on a growth trajectory with huge commercial potential. Participation of Non-Government-Private-Entities (NGPEs) in space activities is expected to expand the space economy.</p> <p>In order to enhance the role of private enterprises in satellite communications, Government of India has decided to permit NGPE's to carry out various satellite related activities including launch of spacecraft on board a launch vehicle, establishment/ operation of launch infrastructure and providing space based services including operation, control and station keeping of spacecraft by establishing and</p>	N/A	Closed	ICT

					<p>operation of ground segment/ stations.</p> <p>At present there is no national law governing the use of satellites and the DOT administers the satcom policy under the existing Indian Telegraph act through the regulator TRAI and TDSAT. ISRO has proposed to create a new national level nodal agency to promote, hand hold, permit, monitor and supervise space activities by NGPEs. This agency, to be called Indian National Space Promotion and Authorization Centre (IN-Space) is proposed to be established by ISRO. In this scenario, role of existing regulatory bodies such as TRAI, TDSAT and DOT in this process needs to be clearly delineated and understood by all the stake holders.</p> <p>This conference put forth the views of stake holders in the satellite communications industry on these issues.</p>			
13	I	11-09-2020	Zoom Call with CEN CENELEC on Railways & India	CENELEC organized a meeting remotely on Railway & India	<p>A zoom call meeting was organised by CENCENELC. The main of this meeting was to discuss;</p> <ol style="list-style-type: none"> 1. Chosen priority topics and pilot topic 2. RDSO top three priority areas and any further information from the Indian perspective 3. Draft an objective for the selected pilot and outcome <p>During the meeting SESEI expert has provided following information:</p> <ol style="list-style-type: none"> 1) I have mapped the report in excel sheet as enclosed and checked with Railway report produced earlier and I could see that many of the standards have been referred/implemented by Indian Railways, would seek check and confirmation from Veronica & team... 2) Checked RDSO website and don't see or find anything "their top three priority areas". Also checked their annual report and can see that they focus on the entire scope and 	Continue provide support to CENELEC to promote EU Standardizati on work in railway sector in India	Closed	Railway

					not through prioritizing few. We can check this again when we are ready to formally engage with them. https://rdso.indianrailways.gov.in/ and RDSO Publications...			
14	M	11-09-2020	InDiCo IN Security Webinars - Agenda discussion and refinement	Conference call meeting initiated by Project InDiCo for organisation of the India Security week, which will consist of series of webinars.	Meeting was called by InDiCo, along with the India - EU ICT Project Instrument and SESEI. Main discussion of the meeting was on structure of the webinars and the topics to be taken up during the India Security Week.	Continue provide support to Project IndiCo	Open	ICT
15	M	12-09-2020	IET Future Tech Panel-Joint Meeting	IET - Future Tech Panel called a Joint Meeting of all the Working Groups to present the Charter of each working group. All the members of the IET Future tech panel of every working group were requested attend this meeting.	The meeting of all the Working Group members and Chairs was called by the Chairman, IET Future Tech, Dr Rishi Mohan Bhatnagar. The basic agenda of this meeting was presentation of each working group charter from the respective working group chairs. SESEI is the chairman of the Standards Legal & Regulatory Working Group and presented the Charter of the Working Group. SLR Working Group being horizontal Working Group, members expressed keen interest in the carter and the deliverables of the SLR WG.	Continue working as chair of WG on Standards Legal and Regulatory of the IET-Future Tech Panel	Closed	ICT
16	M	14-09-2020	InDiCo EU-IN Security Webinars - Agenda discussion and refinement	Project InDiCo called a meeting for organisation of the India Security week, which will consist of series of webinars.	Meeting held between Project InDiCo, SESEI and EU - India ICT Project to discuss the proposed Security Week in India. During the meeting discussion was held on the proposed agenda, topics to be taken up in the webinars and the suggested speakers.	Continue provide support to Project IndiCo	Open	ICT

17	E	15-09-2020	INDIA Conclave "Leveraging Artificial Intelligence for Future of Excellence"	FICCI organised a virtual conclave on the Artificial Intelligence "Leveraging Artificial Intelligence for Future of Excellence"	<p>To promote AI Initiatives and develop a policy framework , Meity in February 2018 constituted 4 committees - Platform and Data for AI, Identifying National Missions in Key sectors, Mapping Technological capabilities, Key policy enablers required across sectors - Skilling & Re-skilling & R&D and Cyber Security, Safety, Legal and Ethical issues. The committees have submitted their reports in July 2019. Industry now awaits next steps to translate the recommendations into a National AI Framework.</p> <p>Senior government officials from the Ministry, along with the industry experts on the Artificial Intelligence gathered at the conclave to share the deep insight and recommendations on how the Government policy and strategy can steer country and benefit from AI.</p>	N/A	Closed	ICT
18	E	15-09-2020	Webinar on Market Surveillance conducted by Mr. EwoutDeurwaard er, European Commission Directorate-General for Internal Market, Industry, Entrepreneurship and SMEs Free movement of goods	In addition to shouldering the responsibilities of National Standard's Body India, BIS also plays an important role in conformity assessment activities. BIS is looking forward to strengthen their market surveillance activities. Under the ongoing cooperation between BIS & CEN-CENELEC, a	<p>On the request of BIS, SESEI arranged a webinar on issues related to Market Surveillance and the best practices followed in Europe. Mr. EwoutDeurwaard er, European Commission Directorate-General for Internal Market, Industry, Entrepreneurship and SMEs Free movement of goods was the main speaker at the webinar. The main agenda of the webinar was</p> <ol style="list-style-type: none"> 1) Brief Introduction by BIS IRD & CMD officials 2) Brief Introduction by EC officers, & Project SESEI, CEN-CENELEC-ETSI-EFTA etc.. 3) Brief Presentation on CEN CENELEC 4) Presentation by EC officers 5) Q& A and Open Discussion 	N/A	Closed	Generic

				request on sharing some best practices on Market surveillance systems followed in Europe was raised by them.				
19	M	15-09-2020	Meeting with Mr. Vikas Sharma of Omnitech Automations	SESEI had a meeting with Mr. Vikas Sharma of Omnitech Automations regarding the VDE certification /compliance of their products used for Hospital Communications.	Officials of Omnitech automations sought meeting with SESEI. It was a meeting to address the query around: -Indian Nurse Call System looking for a VDE Certification (VDE 0834) to compete with European Company such as Schrack (https://www.schrack-seconet.com/en/contact/index.html) SESEI got him connected with VDE representative in India to take it forward.	Provide support to Omnitech Automations on issues on VDE certification/ compliance of our products used for Hospital Communications	Closed	Generic
20	M	16-09-2020	InDiCo EU-IN Security Webinars - periodic meetings	InDiCo is organising periodic meetings for conceptualisation, organisation of the security week webinars, especially designed to take care of India related cyber, data and network	Meeting held between Project InDiCo, SESEI and EU - India ICT Project to discuss the proposed Security Week in India.	Continue provide support to Project InDiCo	Closed	ICT

				security related issues.				
21	M	17-09-2020	37th Annual General Meeting of MAIT along with Fireside Chat with Shri Saurabh Gaur, Jt. Secretary, MeitY	MAIT organized its 37th MAIT AGM on 17th September 2020 on Webex Platform.	SESEI is a member of MAIT and participated in the AGM. The Agenda/Statement of the business to be transacted was presented during the meeting. On the occasion of AGM, MAIT also organised an exhaustive deliberation session with Mr. Saurabh Gaur, Jt. Secretary, MeitY. Shri Saurabh Gaur is behind many of the path breaking reforms and schemes that are seen on the electronics frontier of the country today.	N/A	Closed	Electrical Equipment and Consumer Electronics
22	I	17-09-2020	Project India #8 Meeting was called by CEN CENELEC to discuss the Cooperation with India.	8th Meeting of the Project India was held on 17th September 2020, to discuss in detail the progress made on the CEN CENELEC Cooperation with India. SESEI as a member of the committee participated in the meeting and shared updated status on the action items. This meeting was convened by Wim	The main agenda items discussed during the meeting was ; - SARSO update (Strategic Action Plan) - EU India strategic partnership - Action Plan 2020 - Roadmap for cooperation with BIS (Installation rules, Market Access – conformity assessment, Services, Railways) - Preparation for the virtual introduction of Head of IRD BIS (Key messages to be communicated, Feedback to be sought) - Update on: (MOU, Copyright Declaration EN 115, draft License agreement , Topics for joint BIS-CEN-CENELEC webinars, December 2020 , Seek the possibility of a parallel industry workshop at the 16th EU-India Summit Q1 2021 – promotion of standards)	Preparation for the virtual introduction of Head of IRD BIS	Closed	Generic

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23	E	17-09-2020	IFCCI's Panel Discussion on Automotive Businesses in India	Webinar on Shifting Gears: Post Pandemic Automotive Market in India organised by IFCCI	<p>The Indo-French Chamber of Commerce & Industry (IFCCI) in association with Udyen Jain and Associates (UJA), organized an interactive panel discussion on the Automotive Market, featuring European Automotive Businesses in India.</p> <p>The main objective of this interactive virtual talk was to address the Impact of the COVID-19 Outbreak on the Automotive Industry in India. The online event presented a platform to discuss the current crisis, how to get back on track and the effect on the industry in the long term. The session also intended to give insights on the digital boost and the manufacturing agility required in the sector.</p>	N/A	Closed	Smart Mobility
24	E	17-09-2020	Virtual panel session on "Cyber Security for Power and Energy Infrastructure" organised by IEEE	IEEE Standards Association organised a virtual Panel session on "Cyber Security for Power and Energy Infrastructure"	<p>Speakers from Power Grid Corporation of India, IIT-Dharwad and Hitachi ABB deliberated on the opportunities, challenges and case studies of Cyber Security and share their experience.</p> <p>The panel was moderated by Mr. Jason Allnutt, IEEE Standards Association, USA.</p>	N/A	Closed	Smart Energy

25	M	18-09-2020	7th meeting of Electrical Energy Storage Sectional Committee, ETD 52 of BIS	SESEI was co-opted for the Electrical Energy Storage Sectional Committee, ETD 52 of BIS	<p>For standardization in the area of “Electrical Energy Storage”, the Electro-technical Division Council of BIS has constituted the Electrical Energy Storage System Sectional Committee, ETD 52. SESEI was co-opted for the Electrical Energy Storage Sectional Committee, ETD 52 of BIS. The main agenda of the meeting was</p> <ul style="list-style-type: none"> - Composition of the sectional committee - Co-opting special members (including SESEI) - Draft Standards under wide circulation - Preparation of Program of Work , New subjects and future programme of work - International Activities - harmonisation of Standards (IEC TC 120) <p>SESEI has provided list of standards developed by CLC/SR 120 on Electrical Energy Storage (EES) Systems. SESEI was also asked to provide list of standards published by CENELEC on Flow batteries, BMS and repurposed batteries</p>	Continue work with BIS on this subject	Closed	Electrical Equipment and Consumer Electronics
26	E	21-09-2020	COAI e-Workshop on 5G Technology and Related Issues	COAI and Nokia along with 5G India Forum are organizing an e-Workshop on 5G Technology	<p>The online session was presented by Dr.HarriHolma, Nokia Bell Labs followed with an interactive discussion around the following topics:</p> <ul style="list-style-type: none"> i) 5G Global Update ii) Massive MIMO learnings iii) 3GPP evolution iv) 5G @ 3.5 GHz Experience v) 5G in mmWave Experience vi) 5G for IoT and few global use cases 	N/A	Closed	ICT

28	E	25-09-2020	Webinar on "Internet of Things (IoT) Security"	IoT division Telecommunication Engineering Centre (TEC) organized a Webinar on "Internet of Things (IoT) Security"	<p>As it is widely known that Internet of Things (IoT) technology is being used across verticals for creating smart infrastructures. Security of the IoT domain i.e. from devices to applications is very important, as the hacking of the devices / network being used in daily life may harm companies, organisations, nations and more importantly people. Ensuring end to end security for connected IoT devices is the key to the success for this market.</p> <p>This webinar provided a good opportunity for learning, exchange of ideas and enriching experience for the participants. IoT expert speakers from M/s Qualcomm, India and USA delivered the webinar.</p>	N/A	Closed	ICT
29	E	30-09-2020	IEC SyC Smart Cities - Virtual workshop on "Ontology for Smart City and Smart City Systems & Standards"	IEC SyC Smart Cities organized a virtual workshop on "Ontology for Smart City and Smart City Systems & Standards"	<p>Ontology is becoming a key subject in the world of smart city standards for two reasons:</p> <ul style="list-style-type: none"> • One of the most important requirements of standards is that their language needs to be clear and unambiguous, so that there is no room for users to misunderstand the guidance provided. Ontology is a discipline that helps us do this. • It is also vital when data is being shared between city departments and different cities that the data is described using a common ontology. <p>The workshop aimed at introducing to the members of IEC/SyC Smart Cities and ISO/IEC JTC 1/WG 11 about the basic concept, function and methodology of terminology ontology, and will further discuss on the specification requirements, standardization deliverable forms and demands.</p> <p>And as the foundation to encourage more experts to</p>	N/A	Closed	Smart Cities

					participate in the ontology study, the workshop provided a great opportunity to increase our member's understanding towards the meaning of ontology research.			
30	E	30-09-2020	TSDSI Roadmap [Online] Workshop	TSDSI is in the process of preparing its Roadmap 2.0 for the next 3 Years by incorporating inputs from a variety of stakeholders.	<p>The main objective of this workshop is to seek more ideas from stakeholders that would either enhance the existing roadmap items, propose additional sub-topics on the proposals received in the first workshop or propose new items, for Technical Studies/Standards.</p> <p>In this workshop proposals on the following topics were received:</p> <ul style="list-style-type: none"> - Open Bootstrap Framework, IoT Identifier, Machine KYC, Contributions to ITU work on IMT-2020 Advance, Enhancement of Rural Coverage, Coexistence studies for the optimum utilisation of spectrum by both satellite and terrestrial services, Adoption of O-RAN Specification by TSDSI and contribution towards development of India Specific use cases, Connectivity & Cloud Education Services, Quantum Key Distribution, IEEE802.16T as part of TSDSI activity. <p>Technology is moving fast and there are many other areas having potential for enhancement in existing standards or development of new standards. TSDSI wants to explore more key areas which are relevant for the future. Examples of such areas are as below:</p> <ol style="list-style-type: none"> 1. Critical communication & Security / Quantum Computing 2. AI-ML / Big Data / Analytics 3. Cloud based services /NFV/ Visible Light Communications 4. Open systems (Open RAN, Open Compute) 5. HAPS/UAV/Drones 6. 6G/Future Networks/Evolution of Broadband 	N/A	Closed	ICT

					SESEI expert attended webinar as a speaker and gave a presentation on ETSI long term strategy 2016-21.			
31	M	04-08-2020	Virtual meeting for finalizing Technical Report on Smart Village & Agriculture	TEC Working Group on Smart Village & Agriculture met on 4th August 2020 for a periodical meeting for finalisation of the draft report. Minutes of the previous meeting and the draft report, after incorporating recommendation received from members was distributed before the meeting.	<p>TEC is in the process for finalizing draft report on Smart Village and Agriculture. For launching smart village applications, such as telemedicine, smart agriculture, e-Governance, animal & human health monitoring, and precise irrigation etc., there is a need for increased tele-density and high speed internet facility. With the development of sensor based devices and emerging communication technologies, smart infrastructure may be created in various verticals, which will help in improving the quality of life and also in creating employments. Smart Village and Agriculture' Working Group (WG) having members from industries, academia, Government, Start-ups etc. has been formed to study problems and provide smart solutions addressing the major issues related to human being, agriculture and animals, using emerging technologies (IoT /ICT).</p> <p>This Highlights of the meeting are as under;</p> <ol style="list-style-type: none"> 1. Draft report is in final stage, members may go through the entire report, suggest addition/ deletion and refine it. One important section on Challenges (related with ICT, semiconductors etc.) and Way forwards needs to be completed. Inputs received from few members after the previous meeting were discussed. 2. Inputs received on various advantages of using biosensors chips in animal husbandry sector. 3. use case on Drones for farming (available in Annexure-15). He explained how drones with light weight high pixel camera and a tank attached, may be used in monitoring 	Continue working with TEC and provide support in finalizing the technical report on Smart Village & Agriculture	Closed	ICT

					<p>large sized farms and using data analytics how drones may recommend optimized spraying of pesticides to the affected areas.</p> <p>4. Use case on Weather forecasting using Deep Learning and LoRaWAN explained how this low cost solution deployed in VIT Chennai aims to predict the next day's temperature and chances of rain after 6 hours</p> <p>5. use case on 5G and Intelligent Farming using IoT also discussed in detail.</p> <p>SESEI expert has provided inputs to this report and these are well considered in this draft technical report.</p>			
32	M	04-08-2020	First Meeting of the ASSOCHAM Standardization Council	ASSOCHAM is an Industry Chamber of Commerce. It has recently constituted a council on standardisation.	ASSOCHAM, an Industry Chamber of Commerce, has invited SESEI to participate as member of the ASSOCHAM Standardisation Council. In the first meeting of the Council, members were invited to seek their recommendation and suggestions for creating / establishing actionable plan under Standardization Council. Standardization Council will facilitate consultations and dialogue among the members of the industry as well as with the professional bodies, scientific organizations, academic institution and domain area experts related to that field on the identification of new areas for development of standards, revision of existing standards and harmonizing Indian Standards with International standards, and will also help in optimizing the involvement of industries in the standard development process and better coordination with Bureau of Indian Standards. Being first meeting, it was more an exchange of dialogue and in which SESEI expert assured full support to bring the best practices from EU around standards & related policy measures.	Continue working with this new standardization council and promote European Standardization ecosystem	Closed	Generic

33	E	04-08-2020	Request for a Presentation on ETSI and its standardization activities for ITS probationers	Department of Telecom (DoT) organized a virtual training session for recently recruited Indian Telecom Service (ITS) probationers on the various International and national standardization bodies and their standardization activities.	<p>Department of Telecom (DOT) recruits Indian Telecom Service (ITS) officer through UPSC examinations every year. These officers are posted across India to handle various telecom sector activities like policy formulation, licensing, monitoring, telecom security, regulation, standardization etc in DoT. Recently joined batch of ITS probationers is undergoing training at National Telecommunications Institute for Policy Research. Innovation & Training (NTIPRIT). A session on the various International and national standardization bodies and their standardization activities is planned in August 2020 for these probationary officers.</p> <p>SESEI was requested by Department of Telecommunications (DoT) to deliver a virtual presentation to these officers on ETSI related topics like organization, structure, standardization process, emerging technology standards etc. SESEI provided a detailed presentation on the ETSI, copy of presentation is available in this link</p>	N/A	Closed	ICT
34	E	04-08-2020	Workshop on "Unified Digital Infrastructure - ICT Reference Architecture (UDI-ICTRA)"	BIS organised a workshop to discuss the BIS preliminary draft, LITD 28 (15990) P – “Unified Digital Infrastructure - ICT Reference Architecture (UDI-ICTRA)”.	<p>The workshop on LITD 28 (15990) P – “Unified Digital Infrastructure - ICT Reference Architecture (UDI-ICTRA)” was organized through WebEx platform. Panel members of “LITD 28/P6 ICT RA”, who prepared the aforementioned draft Standard provided an overview of the draft Standard on “Unified Digital Infrastructure - ICT Reference Architecture (UDI-ICTRA)” during the workshop. It was followed by an interactive session where stakeholders interacted with the experts, shared any concerns/feedback on the document. It also helped to acquire better knowledge about the draft Standard. The agenda for the workshop was:</p> <ul style="list-style-type: none"> - Overview - “Unified Digital Infrastructure - ICT Reference Architecture (UDI-ICTRA)” by Prof. Amrutur Bharadwaj, 	N/A	Closed	ICT

					<p>Chairman, LITD 28</p> <ul style="list-style-type: none"> - Feedback form on Stakeholder Concerns by Mr. Ravi Madipagada, Siemens - Comments and discussions led by nodal officers (each nodal officer to give their views on the document (5-10 minutes each) Nodal Officers - Summarization of comments Members of the panel LITD 28/P6 ICTRA 			
35	M	05-08-2020	2nd Meeting of Standards Legal and Regulatory Working Group of the IET- Future Tech Panel	2nd Meeting of the SLR Working Group of the IET- Future Tech Panel was organised on 5th August 2020. SESEI is the Chair of this Working Group.	<p>The main discussion in the meeting was on;</p> <ol style="list-style-type: none"> 1. Finalisation of the Charter for the SLR WG. 2. Discussion on table of contents for the White Paper 3. Inputs from other working group of IET- Future Tech Panel 	Continue working as chair of WG on Standards Legal and Regulatory of the IET- Future Tech Panel	Closed	ICT
36	E	05-08-2020	Webinar on "Cybersecurity for Industry 4.0 in India: Introducing the IEC 62443 series of standards"	The online event was organised by the Bureau of Indian Standards (BIS) and GIZ – the German Agency for International Cooperation	<p>This online exchange introduced the IEC 62443 series of standards which the Bureau of Indian Standards (BIS) is currently adopting. Experienced experts from Siemens and TÜV SÜD provided technical insights for industry professionals and policymakers on the implementation of cybersecurity standards by companies and trends in cybersecurity certification.</p> <p>The interconnected Industry 4.0 confronts manufacturers and regulators with new challenges of IT security. How can the security of an automated supply chain across different companies be ensured? Internationally, the IEC 62443 series of standards lays the foundation for a holistic approach to industrial security throughout the entire life cycle of automation solutions.</p>	N/A	Closed	Cyber-Security

37	E	06-08-2020	TSDSI Expert Talks#2 on Fronthaul and Backhaul for 5G	TSDSI launched its "TSDSI Expert Talks" Webinar Series to engage the domestic and global community in a dialogue on "Standards for Emerging Technologies" with the inaugural talk by Prof. Arogyaswami Paulraj, Professor Emeritus Department of Electrical Engineering, Stanford University.	<p>The 2nd Talk in this webinar series was with Dr Kumar Sivarajan, CTO Tejas Networks & Founder Chairman TSDSI on "Role of Optical Networking in 5G and Beyond".</p> <p>While much of the industry attention is focused on the radio aspects of 5G, optical networking will play a critical role in realizing the full potential of 5G. With increased data rates, backhaul for 5G needs to be almost entirely optical and with distributed radios, there is a need for optical fronthaul as well. In this talk, Dr Kumar Sivarajan gave an overview of optical technology solutions for 5G fronthaul and backhaul. He also gave a glimpse of the nature of 6G networks that will be deployed in 2030.</p> <p>The session was moderated by Professor Kiran Kuchi, Professor Department of Electrical Engineering, IIT Hyderabad and Member Governing Council, TSDSI.</p>	N/A	Closed	ICT
38	E	07-08-2020	Live Panel Discussion on "Shifting Telecom Gears from Evolution to Revolution: The Journey Towards 5G"	The Economic Times in association with Nokia organised Live Panel Discussion on "Shifting Telecom Gears from Evolution to Revolution: The Journey Towards 5G"	<p>The topic of discussion on "Shifting Telecom Gears from Evolution to Revolution: The Journey Towards 5G".</p> <p>Key Discussion Points were:</p> <ol style="list-style-type: none"> 1) India's telecom journey so far 2) Policy interventions 3) The vision of the National Digital Communications Policy - 2018 4) The current state of telecom networks 5) 5G technology and India's preparedness 	N/A	Closed	ICT

39	M	08-08-2020	WebEx meeting invitation: LITD 28/P9 IoT Systems RA - Meeting 13	BIS has constituted a panel on IoT reference architecture (LITD/28 P9).	SESEI is a member of this panel of BIS and participates regularly in the meetings to contribute. During the meeting, panel reviewed the working draft of IoT RA and discussed the IoT entity based reference model, IoT Domain based reference Model and IoT Architecture Members were further requested to actively contribute to the development of the Standard.	Continue working with WG and contribute EU Work in it	Open	ICT
40	E	10-08-2020	BIF Digital Dialogue webinar series on "ICT Accessibility for Persons with Disabilities"	Broadband India Forum in collaboration with Bharat Exhibitions organised a webinar on the "ICT Accessibility for Persons with Disabilities".	BIF in association with BE has come out with ICT Accessibility Recommendations for Persons with Disabilities by releasing a White Paper titled 'Priorities for a COVID-19 World: ICT Accessibility for Persons with Disabilities in India' during Digital Dialogues webinar. SESEI expert is a Vice Chair of WG on ICT Accessibility at BIF and contributed to this paper inclusion of EN 301 549 Standard. Whitepaper is available here: https://www.broadbandindiaforum.com/images/WP_on_IC T_Accessibility_for_Persons_with_Disablilites.pdf The paper was jointly released by Dr. Malcolm Johnson, Deputy Secretary-General, ITU; JS Deepak, Former Ambassador to WTO & Former Secretary – Department of Telecommunications (DoT), Ministry of Communications; K Ramchand, Member (T), DoT; HK Mahajan, DDG (SR & E), DoT; and Vinay Thakur, Chief Operating Officer, National eGovernance Division, MeitY.	N/A	Closed	ICT

41	E	11-08-2020	IET India Digital Conversations event “Leading India’s Digital Revolution” with Shri N R Narayana Murthy, Founder and Chairman Emeritus, Infosys Leading India’s Digital Revolution.	Covid-19 recovery plan is to majorly digitise businesses, protect employees and serve customers as much as possible. In the sixteenth IET India Digital Conversations, powered by IET Future Tech Panel, the man behind Infosys Limited, N R Narayana Murthy gave his insight on topics ranging from how covid has promoted the growth of digital adoption to reflecting the lessons he learnt during his journey of setting up Infosys will be discussed.	<p>The sixteenth edition of IET India Digital Conversations, powered by the IET Future Tech Panel took place on 11th August, 2020, with Shri N R Narayana Murthy, Founder and Chairman Emeritus, Infosys Leading India’s Digital Revolution.</p> <p>Here are the key takeaways from this session:</p> <ul style="list-style-type: none"> • The current pandemic demands us to be prepared to live with the virus. The smartest thing to do is to define a new normal such that it allows the economy to grow and fight the virus. The economy cannot come to a halt, instead, every sector should operate in full speed with suitable precautions. • IT industry in India has weathered many challenges and has come out successfully. What is important is to make companies resilient and strong. Leaders must realise 3 attributes that are necessary for this: Competence, values and goodwill. • Indian companies need to learn to compete better. Productivity in every aspect of the business cycle across all verticals should to benchmark against global standards. India needs to lead by example in discipline and hard work. • Advice to enterprises: In order to get the economy back on track, important projects need to be identified and executed within the budget which requires excellent planning and managerial expertise. There is a need for amending laws and providing infra facilities for companies who cannot use the ‘work from home paradigm’. There could be a 2 or 3 shift time scheduling introduced for employees to ensure higher productivity. 	N/A	Closed	ICT
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				<ul style="list-style-type: none">• Advice to leaders: Business leaders need to raise the faith of employees, reward good behaviour, create goodwill in society, invest in continuous learning and skilling of employees and steer their companies towards becoming good corporate citizens. They should see this crisis as an opportunity for betterment. This situation provides a plethora of opportunities that could lead to improved global delivery model, use of technologies to facilitate interactions between customers and business, possibility of creating local job opportunities to name a few.• Advice to citizens: There is a need to avoid creating a panic situation, encourage the use of all the necessary precautions to combat the virus spread, encourage and popularise the use of technologies and contribute to charities in order to help India economically. We need to accept working extra hours, work harder and become more innovative and highly concerned citizens of the country.• Tips to youngsters: Youngsters need to utilise the time available with them to make them better skilled and better prepared. They could consider working pro bono in companies, go back to colleges and help other students, help teachers with improving course materials or even assisting with day to day activities in their institutions.			
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42	E	11-08-2020	Webinar Back To Basics Part 2: The World of SSOs, IPR Policies and Patent Pools	<p>The Fair Standards Alliance (FSA) is a key contributor to the debate around standard essential patents (SEPs). The FSA advocates for an open and collaborative approach to the licensing of SEPs that are needed for the creation of the next generation of wireless technology products. We are contributing to the future of balanced SEP policies as the European Commission advances its Digital Single Market objectives and as other policy makers around the world look into these issues. FSA organised a webinar series on IPR Policies etc.</p>	<p>Webinar explored the world of standard setting organizations and patent pools: Why are they so important? What does a world without them look like? And regardless of the industry you are in, why you need to be paying a little more attention to them.</p> <p>In this webinar it was highlighted:</p> <ul style="list-style-type: none"> • How are Technical Standards administered: The role of the Standard Setting Organizations (SSOs) • How do SSOs handle standard essential patents? A look at different SSO's IP policies and bylaws. • What is a patent pool? And why are pools typically formed around standards? • How does the licensing around SEPs work? • What are Technical Standards - how are standards developed within SSOs? • New, emerging Technical Standards and Trends • The future: What you need to know now! 	N/A	Closed	Generic
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43	E	13-08-2020	Webinar on “IEEE 802.11™ Enabling 5G Applications”	IEEE organised a webinar on 802.11 as an 5G Technology, convergence of heterogenous radio access for enterprise networks.	<p>IEEE organised a webinar on 802.11 as an 5G Technology, convergence of heterogenous radio access for enterprise networks.</p> <p>Theme 1: 802.11 as an 5G technology Shubhodeep Adhikari, Senior Principal Engineer, LTE-WLAN Systems Design at Broadcom The 5G wireless discussion has been dominated by 3GPP standards like NR. However, 5G (IMT-2020) requirements for certain salient configurations can also be met by current products and standards like IEEE 802.11ax. In this presentation he describe an evaluation of 802.11ax for Indoor Hotspot and Dense Urban, which are two important configurations in 5G. The evaluation follows the methodology specified by ITU-R. The conclusions of the evaluation have been endorsed by the IEEE Standards Association (press release). We next provide a brief comparison of 802.11ax with 5G NR Unlicensed. Lastly, we touch upon the features of 802.11be, the next generation Wi-Fi standard which includes significant enhancements over 802.11ax.</p> <p>Theme 2: Convergence of heterogeneous radio access for Enterprise networks Subhas Mondal, Wipro Fellow and Chief Architect - 5G, at Wipro Limited Wired Ethernet has dominated the Enterprise Networks for a long time. With the evolution of wireless access technologies, the last mile connection for end users have moved to Wireless Ethernet aka WiFi. WiFi 6 now can scale to a very large number of connections without reduction of throughput due to the OFDMA based multiple access technology. For low mobility indoor use cases, the in throughput, and latency of WiFi 6 is comparable to 5G NR.</p>	N/A	Closed	ICT
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					<p>This offers the opportunity for the enterprises to leverage both NR and WiFi 6 in a judicious way. Once the network requirements for a use case is characterized, a network service could be designed with the right access technology for a given set of performance and cost constraints. With the support for multiple access technologies in 5G architecture, it now is possible to federate the 3GPP and non-3GPP networks to meet all the communication needs of an enterprise.</p> <p>This talk gave a technical overview of the available architectural options for building an enterprise network that best delivers value.</p>			
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44	I	14-08-2020	Meeting between IndiCo Project (ETSI) - IET Future Tech Panel to discuss collaboration for Digital Conversation (Digital platform) for promoting ETSI and future technologies/ new standardisation areas.	Project IndiCo officials along with SESEI and Mr. Suman Bhowmick from IET - Future Tech Panel had a meeting to discuss on future collaboration for Digital Conversation series and showcasing ETSI latest efforts for future technologies	ETSI through Project IndiCo collaborated with IET - future Tech Panel by participating in the Digital Conversation series started by IET. This collaboration was catalysed by SESEI, as he is an active member and Chairman of the SLR Working Group of IET - Future Tech Panel. In the meeting it was agreed that; <ul style="list-style-type: none"> - 5G and used cases in Health Sector - 5G and India specific used cases - How EU/ International used cases for health sector can be relatable in the Indian environment. - More Digital Dialogue series with ETSI participation in September and October - ETSI to provide details of the topics they would like to highlight at the Digital Conversation series by early September 2020 	Continue provide support to Project IndiCo	Open	ICT
45	I	17-08-2020	Virtual Meeting with CENCENELEC Ms. Christi Jarita	A meeting was held to discuss issues related to Project India for further identification of gap areas, areas of mutual collaboration and the important issues on Market access	CEN CENELEC had a discussion meeting with SESEI to seek his inputs for Project India. The main points discussed during the meeting were : <ul style="list-style-type: none"> - Project India – name change and background - Priority issues & TORs <ul style="list-style-type: none"> o Installation rules o Market access – conformity assessments o Market access – services o Rail o Resource efficiency – EU-REI - Virtually meeting the new head of IRD and the communication package we need to create - India’s Trade – inclusion of comments/feedback and next steps 	identify gap areas, areas of mutual collaboration and important issues on Market access	Closed	Generic

46	E	19-08-2020	Virtual event on 'Connecting Bharat' to celebrate the incredible milestone of 25 years of the Internet in India	Broadband India Forum in collaboration with Bharat Exhibitions organised virtual event themed Connecting Bharat.	<p>Broadband India Forum in collaboration with Bharat Exhibitions organised virtual event themed Connecting Bharat to celebrate the 25 years of internet in India. The Internet in India was the harbinger of today's broadband services, and the prime engine for the country's incredible Digital Transformation. Digital Connectivity has emerged as a key enabler, empowering millions and bringing about exceptional transformation in India on several fronts – the national economy, socio-economic development, and the people's way of living. The widespread proliferation of the internet has resulted in the delivery and offtake of digital services such as e-commerce, digital payments, e-banking, e-health, e-education, e-agriculture, etc. across the country, being instrumental in improving the way we work and live. With the Internet becoming the underlying infrastructure for Digital Transformation and the Broadband ecosystem expanding exponentially, we at the Forum look to facilitate every medium of providing broadband services across the nation through a prudent mix of Mobile, Wi-Fi, Satcom, Cable and other new and innovative technologies.</p> <p>A BIF White Paper on 'Internet Governance & Digital Cooperation' was jointly released by the eminent dignitaries and Ms. Amrita Choudhury, President & Director, CCAOI.</p> <p>White Paper is available here: https://www.broadbandindiaforum.com/images/White_Paper_on_Internet_Governance_-_Accessible_Tag_-_18_AUG_20.pdf</p>	N/A	Closed	ICT
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47	E	19-08-2020	Federation of Indian Chambers of Commerce & Industry (FICCI), organised an Interaction with Dr. R. S. Sharma, Chairman, TRAI and ICT & Digital Economy Committee Meeting	Meeting of the National Committee on ICT & Digital Economy held a discussion with Mr. R.S.Sharma , Chairman TRAI	FICCI organised an Interaction with Dr. R. S. Sharma, Chairman, TRAI and ICT & Digital Economy Committee Meeting. Mr. R.S,Sharma provided is insight on; - Outlook for the telecommunications sector post COVID - 19 - TRAI's priorities in the mid to long term period	N/A	Closed	ICT
48	E	20-08-2020	Webinar on Electricity distribution – creating the change Confirmation	ISGF and RTI organized a webinar on 'Electricity Distribution – Creating the Change'	Electricity use in India is projected to triple by 2040 driven by economic growth, higher average income, and better income distribution, the rapidly increasing use of electric applications (including EVs), population growth, and urbanization. To become future-ready and yet remain within the sustainable envelope of Net Zero CO 2 Emissions, targeted at the national level by 2050, distribution utilities will need to control losses, enhance investments in smart metering, digitize for higher operational efficiency, broad base the skill set of employees and adopt a flexible and consumer-friendly approach to providing comprehensive energy services. This requires a major transformation and enhancing the technical, financial, and managerial capabilities of the distribution utilities. ISGF and RTI organized a webinar for policymakers and DISCOM leaders in states, their advisors, think-tanks, and financing agencies. The objective of the webinar is to kick-start the process for restoring the financial stability of distribution utilities and address key steps to achieve that such as – What strategies can be deployed? What are the	N/A	Closed	Electrical Equipment and Consumer Electronics

					options for broader restructuring? What innovations can be attempted, within the existing legal and regulatory framework? Is privatization the answer, as Gol's recent plan suggests? If so, what are the enablers for privatization? What investments and technologies are relevant and how to prioritize them? International investors, keen to participate in India's energy transformation, will find it useful for developing investment plans and strategies.			
49	E	24-08-2020	Joint Webinar organised by COAI, 5G India Forum and 5G-ACIA on Towards 5G for Industry in India	COAI, 5G ACIA and 5G India Forum organized special webinar "Making Industry 4.0 Happen With 5G"	<p>COAI organized a panel discussion with the stakeholders - TSP, Telecom Vendors, Manufacturing industry players, System Integrations for Industry 4.0 to stimulate and accelerate the digitization road map of the industries. This brainstorming helped to identify the requirements from OT industry and readiness of Indian TSP to provide the reliable connectivity infrastructure and services. Globally, different countries have adopted and developed new policies to enable private networks.</p> <p>Industrial 5G will play a key role in helping industrial users achieve the goals of Industrial IoT. A core requirement of Industrial IoT is the ability to connect sensors, devices, equipment, software applications, manufacturing production processes, workers, and end consumers. The main agenda of the panel discussion was ;</p> <ul style="list-style-type: none"> - 5G for Industrial IoT- An Overview and Industrial Use Cases and Requirements - Making Industry 4.0 Happen With 5G 	N/A	Closed	ICT

50	M	25-08-2020	Virtual meeting for TEC Working Group for " Finalizing IoT / ICT standards for Smart cities"	TEC organizes regular meetings to finalise the national standards for ICT Architecture layer for being the common layer for applications for Smart Cities	TEC has set an agenda for speedy finalization of the specifications required to support the IoT/ICT Ecosystem enabling the Smart Cities. TEC, being the national standards body for telecom sector, has been assigned the task for finalizing standards/ specifications for ICT/ IoT based solutions for Smart Cities. In this regard regular meetings to finalise the national standards for ICT Architecture layer for being the common layer for applications for Smart Cities SESEI is an important member of this working Group and is contributing regularly for finalisation of the national standards and finalisation of report on the specifications for ICT/ IoT based solutions for Smart Cities	Continue work with TEC on this subject	Closed	SMART CITIES
51	M	25-08-2020	Stakeholder meeting for extension of Phase IV and notification of products under phase V of CRO	A web meeting was organised by MAIT (Industry association) under the chairmanship of Shri Saurabh Gaur, Joint Secretary to deliberate on the extension of implementation date of Phase IV CRO and notification of product categories under Phase V of CRO.	A web meeting was organized by MAIT under the chairmanship of Shri Saurabh Gaur, Joint Secretary to deliberate on the extension of implementation date of Phase IV CRO and notification of product categories under Phase V of CRO. The revised draft list of items is given below: (i) Wireless microphone - IS 616:2017/IEC 60065:2014 (ii) Digital camera- IS 13252 (iii) video camera - IS 616:2017/IEC 60065:2014 (iv) Webcam IS 616:2017/IEC 60065:2014 (v) Dimmers of LED products: IS/IEC 60669-2-1: 2008 (vi) Printed Circuit Board (PCB) and) Printed Circuit Board Assemblies (PCBAs): IS/IEC 60695-11-10 (vii) Smart Speaker IS 616:2017/IEC 60065:2014 (viii) Bluetooth Speakers (ix) Amplifiers below 2000W (x) smart speaker with Display : IS 13252	Continue working and support MAIT on this subject	Closed	ICT

52	E	26-08-2020	CUTS Webinar Link - 'SDG-12: Will the Pandemic Slowdown the Progress of Meeting the Target'	CUTS International organized a webinar on 'SDG-12: Will the Pandemic Slowdown the Progress of Meeting the Target'.	<p>The Covid-19 pandemic will have severe negative impacts on achieving the targets of most of the Sustainable Development Goals (SDGs). However, while unlocking and reconnecting, pandemic offers countries an opportunity to build recovery plans that will reverse current trends and change the consumption and production patterns towards a more sustainable future, experts said in an International webinar organised by CUTS on 'SDG-12: Will the Pandemic Slowdown the Progress of Meeting the Target'.</p> <p>India and its States are taking actions towards sustainable consumption and production (SCP) which is goal 12 of SDGs. However, many of those achievements are not being reported, and this could be giving a wrong image of the nation's merits and efforts towards SCP, said Archana Datta, Project Co-ordinator for India for SWITCH-Asia (RPAC), UN Environment Programme India Office. Switch Asia is actively supporting India on SDG12 monitoring and reporting. She further said that the pandemic has exposed our system's weaknesses, and meeting targets of SDG is no more the responsibility of the government, but it also shifts to the private players and the citizens of the country.</p>	N/A	Closed	Generic
53	E	27-08-2020	Virtual Conference on 100 Smart Cities India 2020, organised by Bharat Exhibitions	Bharat exhibition (BE) organized a virtual Conference on 100 Smart Cities India 2020. SEEI was invited to participate in the plenary session as one of the speaker.	SEEI delivered Vote of thanks at the virtual Conference organised by Bharat Exhibitions on 100 Smart Cities India 2020. SEEI summarised the session and also highlighted the challenges which lie ahead for realisation of Smart Cities in India including importance of oneM2M adoption and implementation in India as a National Standard. Copy of speech is available here.	N/A	Closed	Smart Cities

54	M	27-08-2020	19th meeting of LITD 28 Smart infrastructure Sectional committee	19th meeting of LITD 28 Smart infrastructure Sectional committee took place on 27 Aug 2020 virtually through webex.	<p>SESEI is a member of LITD 28 of BIS and regularly participates in the meetings.</p> <p>The agenda ifor this meeting was as below:</p> <p>Draft Standards to be Finalized for printing:</p> <ul style="list-style-type: none"> - LITD 28 (13502) UDI LMCPS RA LITD 28 (13 - LITD 28 (13503) UDI LMCPS NAL <p>Draft Standards for Approval for Wide Circulation</p> <ul style="list-style-type: none"> - LITD 28 (14073) - - Data_Exchange_Reference_Architecture <p>Activities of the Sectional Committee/Subcommittees/Panels</p> <ul style="list-style-type: none"> - LITD 28/P 7 - Data Architecture for Smart Infrastructure - LITD 28/P 1 - Last mile Communication Protocols - LITD 28/P 9 - IoT Systems Reference Architecture - LITD 28/SG 9 - Implementation Guidelines - LITD 28/P 6 – ICT Reference Architecture - LITD 28 (15990) - Consolidated comments Consolidated comment - LITD 28/P 5 - Smart Infrastructure Gateways - LITD 28/P 8 - Urban e-Governance Platform <ul style="list-style-type: none"> - Representation from Tata Communications Ltd., and LoRa Alliance for considering LoRaWAN technologies as part of BIS Standards - International Standardization Activities - Review of Committee Composition - Model RFP - Future meetings - Any other business 	Continue working with LITD 28	Closed	SMART CITIES
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55	E	27-08-2020	Key sight technologies & IIT Madras organised a virtual conclave on Atmanirbhar Bharat for 5G in association with CNBC TV18.	Virtual Conclave on how 5G Technologies will help India to become self-reliant and attain economic growth.	<p>5G promises to deliver faster & reliable communication network. It will open doors to exciting new applications in the areas of Telemedicine, Remote surgery, Agriculture, Education, Industry 4.0, Smart City, Augmented reality, Autonomous driving etc.</p> <p>At this forum, senior Leaders from Keysight Technologies, IIT Madras, DOT, TSDSI and COAI shared insights about 5G design and development efforts. The conclave offered a unique opportunity to understand new radio interface standards and India specific use cases, which have been Conceived in India, Developed in India and will be Deployed in India.</p>	N/A	Closed	ICT
56	E	27-08-2020	Kick-off event of the Nationally Determined Contributions (NDC) - Transport Initiative for Asia (TIA) – India Component.	NDC-TIA programme is being implemented by NITI Aayog in collaboration with the German Federal Ministry for the Environment, Nature Conservation, and Nuclear Safety (BMU) under its International Climate Initiative (IKI)	<p>The aim of the NDC-TIA India Component is to promote a comprehensive approach to decarbonising transport through coherent policies and strategies, coordinated among ministries, civil society organisations and the private sector.</p> <p>The consortium partners of NDC-TIA include: World Resources Institute (WRI), International Council on Clean Transportation (ICCT), International Transport Forum (ITF), Renewable Energy Policy Network for the 21st Century e.V. (REN21), Agora Verkehrswende and Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)</p> <p>The online kick-off event was held during which Keynote addresses was given by Mr. Amitabh Kant, CEO, NITI Aayog and Dr.KarstenSach, Director General IK, International and European Policy, Climate Policy, BMU. In addition, Ms. Corinna Küsel, Director South Asia, GIZ and, Mr. Stephan Grabherr, Deputy Ambassador, German Embassy also</p>	N/A	Closed	Automotive

					delivered their remarks.			
57	M	28-08-2020	SSD 10, IT and ITES sectional committee- Subcommittee meeting	The proposed scope of this SSD 10 IT and ITS sectional sub-committee is Standardization of Processes, Supporting Frameworks, Management and Governance for the provisioning of IT and IT Enabled Services in areas such as (but not limited to), contract management, performance management, procurement processes, customer satisfaction, consent management, covering existing and emerging digital and automation	Regular meeting of this SSD 10, IT and ITES sectional committee are being held to finalise the role and scope of the committee. In the meeting held on 28th August 2020, the main agenda was to understand the scope detailed by panel 1 and plan way forward for panel 2. The final outcome of the Panel 1 was provided for perusal and discussion of the members. SESEI expert have provided input on CEN-CENELEC work around this topic and highlighted the importance of standards developed around e-competence framework and its possible study and adoption by India through this TC.	Continue working with SSD 10 and promote European standardization work in Service sector	Closed	Services

				technologies. The scope of work does not include the standardization effort already in progress or completed by LITD 14 or other allied LITD committees.				
58	M	28-08-2020	Meeting with Mr. Parag Kulkarni from John Deere	Officials from John Deere approached SESEI for a meeting on standards development and the strategies. .	<p>The main points discussed during the meeting were;</p> <ul style="list-style-type: none"> • Introduction of John Deere and involvement in Standards development • Overview of India- EU standards collaboration program • Explore possible collaboration opportunities for standard development <p>During the meeting SESEI highlighted work carried out by TEC, BIS and TSDSI on this subject especially in view of oneM2M transposition, and ongoing work at TEC to make them national standards and BIS to include it as part of smart infrastructure. Assured full cooperation and support.</p>	N/A	Closed	Smart Cities/Smart Agriculture
59	E	28-08-2020	Webinar on Atamanirbhar Bharat: India's challenge in Telecom Manufacturing and Export."	Digital Users Group (DUG) organised a webinar on "Atamanirbhar Bharat: India's challenge in Telecom Manufacturing and Export	The objective of the webinar was to understand government policies to encourage manufacturing industry under the slogan of Atamanirbhar Bharat (Self Reliant India) and what are the challenges faced by the manufacturing industry for domestic production and export and to come out with a report with set of recommendations to deal with the issues raised during the discussion.	N/A	Closed	Make in India/Manufacturing

60	M	02-07-2020	Periodic meetings organised by InDiCo with ETSI, oneM2M, TEC, TSDSI, C-DOT and SESEI	<p>These meetings are being held to conceptualise, discuss and finalise the proposed Conference that InDiCo was supposed to organise in India to coincide with the release of the report on national IoT/ ICT standards for Smart Cities in India. However due to the ongoing pandemic the group will review and agree on other ways of organising the said event.</p>	<p>The discussion between all the stakeholders with regard to organising the IoT event in India , the highlights of the discussions and decision taken are as under; Decisions taken:</p> <ul style="list-style-type: none"> - The initial one day workshop is to be divided into two or three webinars of 1h30 to 2h duration to be scheduled during the summer - The theme will be the oneM2M IoT Standards and the ecosystem in India - The participation will be open to all, however this being said, an invitation list will be established to encourage participation of key stakeholders. - The sessions may be recorded and available for replay online - One webinar should allow for 4 speakers for 15mn each + one introduction + one moderator and leave time for questions from the audience and interactivity - A good timing for the first webinar would be between July 27th and August 7th, 2020 <p>the following specific topics to be covered during the webinars :</p> <ul style="list-style-type: none"> - Scenario of adoption of oneM2M at ITU - Focus on release 4 aspects - Use cases for India, perspectives and viewpoints - oneM2M implementations and large scale pilots in the EU - Testing and certification issues - Security aspects <p>Follow-up actions decided during the call :</p> <ul style="list-style-type: none"> - C-DOT/SESEI to Establish a invitation list of key stakeholders in India - ETSI/InDiCo to propose a platform for the webinar. 	Successful organization of conference	Open	Smart Cities
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61	E	02-07-2020	COAI-IMC Studio Invitation Online Panel Discussion on "Digital Networks: The Health and Wealth of the Nation"	On the occasion of Annual General Meeting of COAI. A panel discussion was held with the luminaries of the telecom industry.	<p>The panellists at the virtual discussion were :</p> <ul style="list-style-type: none"> - Mr. R.S.Sharma, Chairman TRAI - Mr. Anshu Prakash, Secretary DoT - Mr. Ravinder Takkar, MD & CEO Vodafone India - Mr. Ajay Puri, COO Bharti Airtel - Mr. Sanjay Mashruala, MD Reliance Jio - Dr. Anand Agarwal, Group CEO STL <p>The discussion highlighted the significant role of Telecom Industry during the COVID Pandemic to keep the businesses and Industry alive and to support government and Health workers in fight against Covid Pandemic.</p>	N/A	Closed	ICT
62	M	02-07-2020/ 09-07-2020	Webex meeting invitation: LITD 28/P6 ICT RA Weekly call	Panel 6 of LITD 28 Technical Committee Meeting on deciding the ICT reference Architecture	<p>The convener presented the final IoT Concept Model diagram to the members Convener requested the members to complete the requirement document. The panels discussed the IoT Reference Model and prepared the draft ToC for the part of the standard.</p> <p>The convener suggested that in order to have a well-directed flow towards our goal, to write a document for practically implementable IoT Reference Architecture, we may retain the ToC as such and attempt to fill in the details therein referring to the aforementioned documents.</p> <p>The link to the document is here: https://docs.google.com/document/d/1kiixeXusBIV8eUWbW6s-5Ht8loc8aSBF24aw-13oBB4/edit?usp=sharing</p>	Continue working with the panel to align EU Work	Closed	Smart Cities

63	M	03-07-2020	Meeting/ con call for finalizing Technical Report on Smart Village & Agriculture	<p>'Smart Village and Agriculture' Working Group (WG) of Telecommunication Engineering Centre (TEC) having members from industries, academia, Government, Start-ups etc. has been formed to study problems and provide smart solutions addressing the major issues related to human being, agriculture and animals, using emerging technologies (IoT /ICT).</p>	<p>TEC is in the process of finalizing the technical report on Smart Village & Agriculture. This WG through detailed deliberations and discussions has created a list of relevant use cases for smart villages for India, e.g. Soil Health Monitoring, rural health, precision irrigation, smart farming, crop pest surveillance system etc. The WG has also analysed existing international benchmarks in smart villages, and the report has listed and briefly described smart villages around the world. This report also reflects the Indian scenario and initiative which may be taken up by the concerned stakeholders for improving the back-bone network for providing / improving the telecom /internet / IT services in rural areas.</p> <p>SESEI being a member of WG, participates in the meetings regularly and has provided inputs to this report on:</p> <ul style="list-style-type: none"> - "Smart village pilot project: European commission" as part of Smart village initiatives around the world (Chapter 4) - "Saansad Adarsh Gram Yojana (SAGY)" of GoI as part of chapter 5 on Smart village initiatives in India 	Continue working with TEC and provide support in finalizing the technical report on Smart Village & Agriculture	Open	ICT
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64	M	04-07-2020/ 25-07-2020	Periodic Webex meetings of LITD 28/P9 IoT Systems RA - Meeting 11 & 12	BIS has constituted a panel on IoT reference architecture (LITD/28 P9).	<p>Ministry of Housing and Urban Affairs (MOHUA) has quite explicitly mentioned their urgency for IoT reference architectures. In this regards, Bureau of Indian Standards (BIS) has constituted a panel on IoT reference architecture (LITD/28 P9).</p> <p>Inputs/comments received from members were discussed during the calls. SESEI is a member of this panel of BIS and participates regularly in the meetings to contribute. During the meeting, the panel discussed the table of content and flow of the document.</p> <p>Mr. Sharad Arora, Sensorise, proposed that the ISO/IEC 10341 IoT RA to be referred for developing the reference Model and TS 0001 oneM2M to be referred for the reference architecture, that was agreed by the panel.</p>	Continue working with WG and contribute EU Work in it	Open	ICT
65	M	07-07-2020	TEC 2nd Sub-DCC & MF meeting on standard on Energy Consumption Rating and Energy Passport	TEC's 2nd sub Development Coordination Committee (DCC) and Manufacturer Forum e-Meeting of FA division to discuss the draft document	2nd Sub-DCC & MF meeting of FA division was organised in respect of formulation of new Standard for Energy Consumption Rating and Energy Passport for Telecommunications Products, Equipment and Network/ Services. SESEI is working with TEC on this subject and the draft standards has made reference to ETSI standards.	Continue working with TEC on this subject	Open	ICT

66	M	07-07-2020	Synchro Call: European delegation, SESEI - Business France - ART-Fi	Art-Fi, a French enterprise providing international solutions in telecommunication s and IoT, interested in setting up entity in India. They requested a meeting with SESEI seek update and clarification on matters related to SAR value and SAR testing in India.	Art-Fi, a French enterprise requested a meeting with SESEI to seek update and clarification on matters related to SAR value and SAR testing in India. Apart from the discussion and exchange on the Indian standards for measurement of SAR values. Discussion was also held on: - Paradigm changed brought by ART-Fi on the SAR/OTA ecosystem thanks to the D-phase technology embedded in ART-Fi measurement system & associated impacts for Operators, Makers, Regulators, Labs - Status regarding EN 62209-3 standard - next step actions as [SAR Best Practices Academy] World Tour Stop Over in Delhi (and a probable meeting with TEC)	Continue promote new standard EN 62209-3 in India for its adoption	Open	ICT
67	E	08-07-2020	CUTS-CIRC Webinar: Myths and Realities of 5G in India	CUTS international organized a webinar 'Myths and Realities of 5G in India'	Speaking in a webinar, Dr ArogyaswamiPaulraj, Professor Emeritus, Stanford University, opined that 5G's enhanced capabilities will unlock many consumers facing and industrial use cases, by enabling Machine to Machine, and Person to Machine communication. He also mentioned weaknesses in India's network infrastructure, which need to be overcome to realise the full potential of 5G – early, efficiently, pervasively, and inclusively. Dr Arvind Mayaram, Former Finance Secretary of India, and Economic Advisor to the Chief Minister of Rajasthan, underlined the importance of data protection and privacy with 5G. He called for the gamut of data to be generated by Internet of Things (IoT) devices to be kept secured. He also underlined the importance and role of 5G in bridging the prevailing digital divide in India, which becomes more	N/A	Closed	ICT

				<p>important in light of the Covid-19 pandemic.</p> <p>Ms Kirti Gupta, Vice President, Technology & Economic Strategy, Qualcomm, pointed out the importance of Make in India to be implemented in its spirit. She highlighted the need for India to move from being mere assemblers of mobile phones, to actual innovators and developers of mobile chipset technology, which would require investments and intent on Research and Development (R&D).</p> <p>Mr Vikram Tiwathia, Deputy Director General, Cellular Operators Association of India, appreciated the government's initial efforts towards the Digital India programme, and the National Digital Communication Policy. However, he also expressed discontent on the lost momentum in the last few years. He highlighted India's strength in software development, and suggested to focus on data driven use cases of 5G, as India's contribution to 5G.</p> <p>Mr TV Ramachandran, President, Broadband India Forum, called for India to upgrade its presently inadequate network infrastructure, especially with respect to more extensive fiberisation, enhanced download/upload capability, adequate field trials of 5G use cases, and optimal spectrum allocation. He also called on the government to lower the price of spectrum, since they were considered to be much higher than global averages considering the purchasing power of telecoms in India.</p> <p>Mr Udai S Mehta, Deputy Executive Director, CUTS International shared findings from CUTS consumer survey in Delhi. He highlighted the prevailing lack of awareness among consumers regarding the potential of 5G, and timeline for availability of 5G services. While mentioning that consumers were eager to adopt 5G services, high cost and lack of valuable utility of IoT driven products were significant barriers to its adoption.</p>			
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68	M	09-07-2020	Meeting of the BIS SSD 10, IT and ITES sectional committee-	Bureau of Indian Standards (BIS), has set up a new committee on IT and IT Enabled Services under the Services Sector Department II, called SSD 10.	All members of the subcommittee were requested to provide inputs on: - inputs or names of other industry members for inclusion in the committee. - issues / areas to be considered under the scope of the SSD 10. SESEI beibg an important memeber of SSD 10, participates in meetings regularly and promotes CENELEC work around IT and IT Enabled Services.	Continue working with BIS on this subject	Closed	ICT
69	E	09-07-2020	CUTS Webinar - Atmanirbhar Bharat and Cross Border Data Flows	CUTS International organized a Webinar: Atmanirbhar Bharat and Cross Border Data Flows	Shri Rajeev Chandrasekhar , Hon'ble Member of Parliament (MP), Rajya Sabha (RS) and Member of the Joint Parliamentary Committee (JPC) on the Personal Data Protection Bill, 2019 (PDPB), opined that Data Localisation (DL) to be a narrow response to achieve government objectives, and highlights lack of holistic or sectoral understanding. He suggested that costs of DL may outweigh its incremental benefits. He called for review of all digital policies, examining their cross-sectoral impact, and designing them afresh to fit the new realities. Mr. Chandrashekhar said that India's IT/IT-BPM sector gains more significance in a post-COVID world. He attributed its success to minimal regulatory intervention and entrepreneurship skill, and cautioned against heavy handed government interventions, which he believed to be counterproductive to the sector's growth. Shri Amar Patnaik, Hon'ble MP, RS and Member of JPC, PDPB , highlighted the importance of ensuring data security and data sovereignty. He called for incentivising local storage of data by creating an enabling environment for the data centre industry, while highlighting numerous licenses required at present to establish and operate a data centre. He suggested the government to adopt a regulatory sandbox	N/A	Closed	ICT

				<p>approach for framing optimal regulations, and unlocking India's potential of becoming the world capital of data storage and processing.</p> <p>Mr. Bipul Chatterjee, Executive Director, CUTS International, underlined the need for Indian policy makers to transition from a control to a facilitation model. He went on to highlight various adverse impacts of DL on India's digital services exports, which could have a ripple adverse effect on employment and GDP. The same was substantiated by CUTS research report 'Data Localisation – India's double-edged sword?' which was released in the webinar (available at: bit.ly/3iPnlwH).</p> <p>Mr. Deepak Maheshwari, public policy consultant, while quoting Prime Minister Modi, opined DL to be counter-productive to atmanirbharta goals with respect to digital economy. He called for exploring other mechanisms to ensure law enforcement agencies access to data, and suggested strengthening Mutual Legal Assistance Treaties.</p> <p>Mr. Gulshan Rai, Chief Information Security Officer, Prime Minister's Office, stressed on the need to consider DL not from the lens of security, but technology and practical enforceability perspective, while giving the example of Reserve Bank of India's mandate on local storage of payments data.</p> <p>Ms. Ankhi Das, Director, Public Policy, South & Central Asia, Facebook, emphasised on the need to base economic policy decisions on evidence-based research, and highlighted the existing paucity of evidence showing DL leading to economic development, although its adverse impact have been well documented.</p>			
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70	E	13-07-2020	Webinar on Standards for fostering Resource Efficiency and Circular Economy in India	The Webinar on “Standards for fostering resource efficiency and circular economy in India” was organized by The Energy and Resources Institute (TERI) under the EU-REI project	Standards are crucial for mainstreaming of Resource Efficiency and Circular Economy (RE & CE) as they establish specifications and procedures designed to ensure the reliability of the materials including secondary raw materials, products and components made using these materials, methods adopted and services provided. The webinar aimed to have a discussion around some key issues on the topic including: <ul style="list-style-type: none"> • Existing Standards and Certification Schemes for mainstreaming RE across products and processes in India • Life cycle perspective for development of RE and CE standards in India and their role in Indian Corporate Sector • WEEE Standards • Experiences from the EU in adoption of these standards and implementation challenges • Role of standards in post COVID era-Building Resilience and pushing forward a Circular Economy SESEI expert is working with the project to address the European Standards around CE/RE and arranged a CEN-CENELEC speaker to participate as a speaker in the webinar. Ms Mercedes Mira Costa, Project Manager Energy & Living CEN-CENELEC shared presentation on the topic of European Standards: Essential tools to support the transition to a circular economy	Continue working on this topic of importance CE/RE	Closed	CE & RE
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71	E	16-07-2020	Webinar on “Successful PLC technology use cases in India and Europe”	IEEE SA virtual event on Successful PLC technology use cases in India and Europe”	<p>IEEE Standards Association (IEEE SA) under the Industry Connections (IC) activity has initiated a programme towards setting up multiple Power Line Communications (PLC) testbeds in India engaging various stakeholders from Industry, Academia and Utilities. The webinar is organized to bring together various stakeholders from industries, utilities and academia who look to leverage PLC as a core technology. India is on the cusp of a ‘Digital Revolution’ with various initiatives like ‘Digital India’, ‘Skill India’ and ‘100 Smart Cities’ have created a huge growth opportunity for the Digital Infrastructure. Several IoT technologies are available to cater to various verticals like Transportation, Urban planning, Healthcare, Connected Vehicles, Agriculture, Telecom, etc. One of the significant technologies that will serve as a backbone for the Infrastructure growth is likely to be Power-Line Communications (PLC). This technology is ably supported by IEEE 1901 Standards and is being adopted in several projects across the world. PLC technology is also recommended by Bureau of Indian Standards (BIS) as part of its Smart City Framework Policy Recommendations.</p> <p>Presentations are available here: https://1drv.ms/u/s!AsToLDZ_s_Eapga8niG5qh8Aa54q?e=AFiBwO</p> <p>SESEI participated to gain insight into the topic and for PLC European Standards are also existing for its implementation as technologies.</p>	N/A	Closed	Electrical Equipment & Consumer Electronics
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72	E	16-07-2020	Webinar on SEPs and IPRs in the Tech Driven Society - Opportunities for SME's	TSDSI, India's Telecom SDO, is partnering with Jindal School of Banking & Finance and Department of Telecommunication, Govt. of India to organise a Webinar on "SEPs and IPRs in the Tech Driven Society - Opportunities for SMEs"	An overview of IPRs, SEPs from a SME was shared by Prof. Ashish Bharadwaj, Dean and Executive Director, Office of Rankings, Benchmarking and Institutional Transformation (ORBIT), Jindal School of Banking & Finance. Prof. Bharadwaj explained the linkages between patent rights, technology innovation, and the creation of wealth for shared prosperity of societies and India's experience in this context. He further discussed licensing of SEPs on Fair, Reasonable and Non-Discriminatory (FRAND) terms focusing on India and the potential of and opportunities for the Indian SMEs and Start-up sector in leveraging IP for technological advancement and to climb up the global technology value chain. - The webinar was moderated by Mr Kishore Babu DDG – Standards, Research and Innovation, Department of Telecommunication, Govt. of India	N/A	Closed	Generic
73	E	17-07-2020	Virtual Workshop: Smart Cities 5.0 - Digital Transformation through Disruptive Technologies & Standards	IEC SyC Smart Cities is hosting its first virtual workshop to discuss the sustainable digital transformation of cities	The concept of smart cities is widely touted, yet little consensus exists on its definition or implementation. Many technologies are available, yet no single solution has emerged that can be applied to all cities around the world. To better understand the technologies available as well as some of the best practices underway. The workshop focused on disruptive technologies and how standards can be used to support the roll-out and implementation of these technologies. SESEI expert attended the workshop to gain insight into this priority topic.	N/A	Closed	Smart Cities

74	E	22-07-2020	Assocham Webinar on "Battery Storage Technology"	ASSOCHAM is organised a Webinar on "Battery Storage Technology"	Batteries Technology have emerged as a key technology for the transformation of electricity systems and the reduction of carbon emissions around the world. With India aiming to set up 175 gigawatt (GW) of renewable energy capacity by 2022, deploying BESS will only aid network operators, mitigate renewable resources' variability, and reduce congestion on the grid. The Niti Aayog has also sought Cabinet approval for a proposal to build up to 10 large factories that would get subsidies to produce lithium-ion batteries used in electric vehicles. To promote AatmaNirbhar Bharat Abhiyaan, the preference should be given to Indian manufacturers in the government procurement. There is also a need for creating Indian standards for batteries and setting up of field- testing facilities for both stationary and mobile sectors. SESEI expert attend the webinar to gain insight into the topic.	N/A	Closed	Smart Mobility
75	M	24-07-2020	TEC: virtual meeting for "Finalizing IoT / ICT standards for Smart cities"	TEC Committee formed for "Finalizing IoT/ ICT standards for Smart Cities" is meeting regularly virtually for finalisation of report on IoT/ ICT Standards for Smart Cities in India	TEC is in the process of finalizing draft report on IoT/ ICT Standards for Smart Cities in India. In this regard, TEC organizes meetings of committee to deliberate and discuss the inputs/comments received from the members. SESEI is key contributor to the Committee and is providing all ETSI and OneM2M updates and IoT related specifications to TEC. SESEI updates Project partners on the progress of finalisation of the report.	Continue working with TEC on this Subject	Open	ICT & Smart cities

76	E	24-07-2020	Webinar by IET-Future Tech Panel on " Clearing the 5G obstacle course in India "	The fourteenth episode of IET India Digital Conversations on 'Clearing the 5G obstacle course in India' was a huge success. In this Webinar ETSI collaborated through Project IndiCo to promote 5G Technologies work being done at ETSI. Mr. Adrian Scrase, COO ETSI participated as one of the key speakers at the webinar	<p>Here are the key takeaways from the webinar are as under;</p> <ol style="list-style-type: none"> 1. Completing phase I and II of 5G is only the beginning. 5G has a lot of room for traction in the market. 2. Remote working is a reality. It is important to understand how we could use remote working capability to make manufacturing and farming processes, a lot more productive and how to leverage technology to increase productivity in general. 3. 5G is not just another G; it is about end to end connectivity and a lot about fiber, in building coverage and leveraging high bandwidth capability in network slicing and extending the coverage of network. 4. The amount of AI, ML and tech related work happening outside of India from India, is phenomenal. But there should be an inward looking approach as well. India has the talent and skills and it is in a good position to leverage this talent to make it more India focused today. 5. 5G will plays a significant role in enabling new applications which would need lower latency, higher bandwidth and drive higher efficiency and productivity in manufacturing. This is one area where 5G will be leveraged. 6. 5G R&D and trials are already happening in India and acquiring licensing for this is a simple process as well. The only thing is public availability of 5G which is something that still needs time. 7. Identifying the use cases of 5G, getting the ecosystem including beneficiaries, government, academia, telcos and industry bodies together, allowing room for experimentation and getting them to work; will give a clear opportunity for 5G 	N/A	Closed	ICT
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77	E	24-07-2020	Release of the Report 'Implications of AI on the Indian Economy'	The Indian Council for Research on International Economic Relations (ICRIER) in collaboration with Google and NASSCOM organized the web launch of its report titled 'Implications of AI on the Indian Economy'	There is significant momentum in the Indian economy, both from the private sector as well as from the government to promote a flourishing AI based ecosystem in the country. This momentum is founded on the acknowledged potential of AI to trigger economic growth and social welfare. The ecosystem requires nurturing, especially to safeguard from potential risks of unethical use and industrial disruption. This report traces the impact of AI on the Indian economy using an econometric model to estimate the impact of General Purpose Technologies (GPTs), such as AI, on firm productivity. These findings are complemented with case studies that cover firms developing AI based applications across a range of sectors. We analyse firm-level capabilities that drive innovations in AI. The analyses are distilled into policy recommendations.	N/A	Closed	ICT
78	M	27-07-2020	Virtual meeting of Working Group (WG) on "Security by design Principles in M2M device manufacturing and National Trust Center for certification of M2M devices and applications"	TEC organized a meeting of Working Group (WG) on "Security by design Principles in M2M device manufacturing and National Trust Center for certification of M2M devices and applications" to discuss the draft document.	TEC is in the process of finalizing a document on the "Security by design Principles in M2M device manufacturing and National Trust Center for certification of M2M devices and applications". During the meeting draft document was shared with all members and inputs/comments received from the members were discussed. Highlights of the meeting were; 1. Contents added in section 4.5 i.e. " IoT -Security Characteristics and controls " has been taken from the compliance applicability given in the IoTsF IoT Security Compliance Framework Release 2.1 May 2020 and IoTsF Compliance Questionnaire Release 2.1 since it takes care most of the requirements for compliance of securing devices by design in IoT devices. 2. The IoTsF compliance questionnaire(in the last sheet of excel file) has also mapped provisions of section 4 of ETSI 103 645 i.e. first globally applicable cybersecurity standard	Continue working with TEC on this subject	Open	ICT

					<p>for consumer IoT devices.</p> <p>3. The UK DCMS document " Mapping of IoT Security recommendations, Guidance and standards to UK's Code of Practice for consumer IoT Security" has also closely mapped recommendations given in the IoTSF "IoT security compliance framework 1.1" with its "Code of Practice for consumer IoT Security". In this document, the highest number of recommendations of IoTSF i.e. 159 have been mapped.</p> <p>SESEI expert is working to promote the EN 103 645 inclusion, and its possible adoption and implementation by TEC.</p>			
79	E	28-07-2020	GoToWebinar - CharIN Tuesday Asia - virtual conference	<p>CharIN's efforts to adopt e-mobility, and to further push the development of the required eco-system based on the Combined Charging System (CCS) and ISO/IEC 15118.</p> <p>In this context, stakeholders of the regional EV markets gave a market overview and discussed the further promotion of electric vehicles, EV Charging Infrastructure and the whole</p>	<p>CharIN Tuesday Asia organised a virtual conference the highlights and focus area of the virtual conference was;</p> <p>Part I: Energy – Vehicle to Grid (V2G) With an increasing number of electric vehicles, intelligent grid services including bidirectional power transfer will be a key element in many power supply systems. Many V2G projects based on ISO 15118 and the CCS already started and brought valuable results which were exchanged during the first CharIN Tuesday Asia.</p> <p>Part II: Customer Comfort - Plug and Charge The customer comfort of charging with features like Plug and Charge will play an important role in the further acceptance of electromobility in the mobility market. The requirements and advantages of this feature based on CCS and ISO 15118 will be discussed with Asian and European experts during the second CharIN Tuesday Asia.</p> <p>Part III: Markets – regional developments Asia The growing motorization and the increasing problem of air pollution make electrification in South and South East Asian countries both desirable and urgent. Local governments and industries have partly different strategies and roadmaps, but similar</p>	N/A	Closed	Smart Mobility

				ecosystem powered by the Combined Charging System (CCS).	challenges to electrify the mobility market. Additional to the car industry, electrification of two/three wheelers and busses also play an important role in these regions.			
80	E	28-07-2020	TSDSI online workshop on “Standards-driven Research and Innovation in India”	TSDSI, along with its member IIT Bhilai, organized an online workshop on “Standards-driven Research and Innovation in India”	<p>Indian Academic Institutes and Technology Startups are playing a significant role in driving research, innovation and IP creation in the digital technologies space, ranging from IoT/M2M, AIML, Cloud to 5G, 6G and beyond, that are appropriate to India market requirements. There is a need to channelize these activities for incorporating into global standards so as to enable similar regions to benefit from the innovations and also offer a global platform for commercializing the same.</p> <p>TSDSI, along with its member IIT Bhilai, organized an online workshop on “Standards-driven Research and Innovation in India”, to deliberate on standardization potential of research activities being carried out in the premier technology institutions in the central part of India. Keynote Address on “The Standards -Research and Innovations Triad” by Mr Kishore Babu, DDG-SRI, DoT</p> <ul style="list-style-type: none"> - “Role of TSDSI in driving India appropriate requirements and IP in Global standards” by Ms Pamela Kumar, Director General, TSDSI; - Overview of oneM2M by Mr Aurindam Bhattacharya, Member TSDSI (CDOT); - Overview of ITU and 3GPP by Mr A K Mittal, Advisor, TSDSI - “Overview of WTSA 2020” by Mr M P Singhal, Former Advisor-Telecom Engineering Centre (TEC) 	N/A	Closed	ICT

81	E	29-07-2020	ASSOCHAM IT Council Meeting on Non-Personal Data Governance Framework	Discussion meeting of the Assocham IT Council meeting on Non-Personal Data Governance Framework	A Committee of Experts under the Chairmanship of Shri. Kris Gopalakrishnan has been constituted to deliberate on Non-Personal Data Governance Framework. ASSOCHAM National Council on IT/ITes organised a discussion meeting of its members to seek their inputs/ comments & concerns to be collated and send to the concerned government authorities for their consideration and review. SESEI attended the meeting to gain insight and Industry views on this important topic of Data Privacy Bill related to Non Personal Data	N/A	Closed	ICT
82	M	29-07-2020	Virtual meeting of the TEC WG on Future Communication Technologies in IoT domain	Regular meetings of the TEC Working group on Future Communication Technologies in IoT domain are being organised. This meetings are being held to seek inputs and draft a report on the Future Technologies	Updated draft document after incorporating inputs from members is discussed in detail during each meeting. SESEI is an active member of the Working Group and provides inputs on the latest standards and work being carried out by EU and ETSI. SESEI also updates project partners and shares the draft document with them.	Continue working with TEC on this subject	Closed	ICT
83	E	30-07-2020	IET India Digital Conversations - Digital Twins for Secure, Green and Healthy Future Cities.	Digital twins is the concept of creating digital replicas of physical objects, processes and systems. Digital Twins help to manage the present and future scenarios by using data received via	Here are the key takeaways from the session: <ul style="list-style-type: none"> • Twins can be created for the whole city and systems within cities. Digital twins help address the challenges arising from the global trends. They allow humans to use their skills to solve greater challenges. These could be in the form of automating systems, creating tools to support better decision making and working towards improving connectivity. • Before going into digital twins it is important to understand its parallel physical system. Digital twins help optimise, manage, control and improve how the physical 	N/A	Closed	Smart Cities

				<p>multiple sensors and coupling them with ML algorithms. At the fifteenth IET India Digital Conversations, impact of digital twin on four core systems of the future city namely - healthcare system, water management system, safety & security system and environment system. was discussed</p>	<p>system is put together.</p> <ul style="list-style-type: none"> • Connectivity and decision making are very important in designing digital twins. • Digital twin in healthcare space can help characterise the patients, help in procedure planning and provide decision support guidance system. It allows for patient-specific biophysical model and allows for real-time intervention guidance. • We are consuming resources like water at a rapid speed. Digital twins can help in improving the sustainability of water, help control the quality and stress of water, water delivery, leakage, age of water and disinfectant, etc. • There are tremendous opportunities in the field of visual intelligence. There is immense opportunity for start-ups and industry to associate and to put enough AI, ML and algorithms to make sense out of the imageries. 			
84	I	31-07-2020	Meeting organised by CEN CENELEC on Railways and India	<p>CEN-CENELEC organized a meeting on Railways and India.</p>	<p>CEN-CENELEC organized a meeting to discuss the status of Railway standards in India. During meeting SESEI informed all the participants that in India BIS, National Standards Body, does not work on Railway standards at all. The Research Designs & Standards Organisation (RDSO) under the ministry of Railways is the only organization which work around standardization of railway equipment. SESEI had prepared a report on Railway standards in India. Report has been shared with members. SESEI expert said that Indian Railways has begun of a transformatory journey towards sustainable mobility and has goal of Green Railways.</p> <p>During meeting, all the members agreed the next steps: 1. ALL - Review the attached priority list of topics/Standards indicated by SMEs, please provide:</p>	Identify specific areas/ standards and begin talks with RDSO	Open	Railway

					<p>a. Comments</p> <p>b. Prioritisation – can we start with a pilot?</p> <p>c. Any other priority areas</p> <p>2. SESEI - Would it be possible for SESEI to learn from the RDSO – what their top three priority areas are?</p> <p>3. ALL - Identify an objective for the selected pilot and outcome</p>			
85	M	31-07-2020	Meeting with Adelphi on EU REI WEEE Standards	<p>adelphi is a leading independent think tank and public policy consultancy on climate, environment, and development.</p> <p>Their Key areas of focus are: Climate, Energy, Resources, Green Economy, Sustainable Business, Green Finance, Peace and Security, International Cooperation and Urban Transformation.</p>	<p>Adelphi sought a meeting with SESEI to have discussion and exchange of notes on the EU REI WEEE Standards and the status of Resource Efficiency & Waste Management Policy and its implementation in India. SESEI expert provided input to their list of questions while representing both EU and India.</p>	Continue promote EU best practices and standards around CE & RE I India	Closed	CE & RE

List of Queries addressed during the quarter (July-September 2020)

SESEI-IV

Sr. No.	Date of Receipt	Brief Description	Requester	Sector	India Responsible	Action/Update	Document Reference	Status
1	29-Sep-20	Provided list of standards published by CENELEC on Flow batteries, BMS and repurposed batteries	ELECTROTECHNICAL BIS <eetd@bis.gov.in>	Electrical Equipment and Consumer Electronics	Bureau of Indian Standards (BIS)	<p>Dear Sir/Madam,</p> <p>Please note below part -1 response to action items on me, rest or additional information will be provided as soon as I get it from my EU partners:</p> <p>On Flow batteries, EU have following standards: EN IEC 62932-1:2020 Flow battery energy systems for stationary applications - Part 1: Terminology and general aspects EN IEC 62932-2-1:2020 Flow battery energy systems for stationary applications - Part 2-1: Performance general requirements and test methods EN IEC 62932-2-2:2020 Flow battery energy systems for stationary applications - Part 2-2: Safety requirements</p> <p>While I am checking standards on BMS and repurposed batteries, CENELEC TC 21X responsible for secondary cells and batteries have also developed/under development following standards:</p> <p>1 EN 50604-1:2016/prAA:2019 (pr=65424) Secondary lithium batteries for light EV (electric</p>	Email Query	Closed

						<p>vehicle) applications - Part 1: General safety requirements and test methods 2 EN 62133-2:2017/prA1:2020 (pr=71032) Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary lithium cells, and for batteries made from them, for use in portable applications - Part 2: Lithium systems 3 prEN 62485-5:2019 (pr=63703) Safety requirements for secondary batteries and battery installations - Part 5: Safe operation of stationary lithium-ion batteries 4 prEN 62485-6:2019 (pr=63702) Safety requirements for secondary batteries and battery installations - Part 5: Safe operation of lithium-ion batteries in traction applications 5 prEN IEC 62619:2020 (pr=68538) Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium cells and batteries, for use in industrial applications 6 prEN IEC 62660-3 (pr=72205) Secondary lithium-ion cells for the propulsion of electric road vehicles - Part 3: Safety requirements</p> <p>Warm Regards, Dinesh C Sharma</p>		
2	16-Sep-20	Inputs to draft strategy paper being prepared by the Sectional Committee on IT &ITeS, SSD 10 of BIS	Services Services Sector Department II <ssd2@bis.g	Services	Bureau of Indian Standards (BIS)	<p>Dear Sir/Madam,</p> <p>We have added work at CEN CENELEC as part of section 7 on International Standardization covering following in track change:</p>	Email Query	Closed

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3	16-Sep-20	Provided list of standards developed by CLC/SR 120 on Electrical Energy Storage (EES) Systems	ELECTROTECHNICAL BIS <eetd@bis.gov.in>	Electrical Equipment and Consumer Electronics	Bureau of Indian Standards (BIS)	<p>Dear Sir/Madam,</p> <p>CLC/SR 120 is responsible for standardization work around Electrical Energy Storage (EES) Systems and so far, it has developed following standards.</p> <ol style="list-style-type: none"> 1. EN IEC 62933-1:2018 (pr=63986): Electrical Energy Storage (EES) systems - Part 1: Vocabulary 2. EN IEC 62933-2-1:2018/AC:2019-02 (pr=68958): Electrical energy storage (EES) systems - Part 2-1: Unit parameters and testing methods - General specification 3. EN IEC 62933-2-1:2018 (pr=63071):Electrical energy storage (EES) systems - Part 2-1: Unit parameters and testing methods - General specification 4. EN IEC 62933-5-2:2020 (pr=66821):Electrical energy storage (EES) systems - Part 5-2: Safety requirements for grid-integrated EES systems - Electrochemical-based systems <p>Regards,</p>	Email Query	Closed
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4	13-Sep-20	Provided inputs to the final document on Internet of Things (IoT)	Kandregula Jagadeesh Babu <kjb@cca.gov.in>	ICT	MEITY	<p>Dear Sir, While comments from NASS COE are good, during this period few developments has also happened in India and Europe such as below:</p> <p>1) TSDSI has transposed oneM2M specification, TEC has drafted a report on making these oneM2M standards as Voluntary National Standards: have updated this in the report Section 2.5</p> <p>2) ETSI has released a) ETSI EN 303 645 standard for security of consumer internet of things (IoT) products b) Ontology for automotive, eHealth/Ageing-well, wearable and water domains: Updated section 3.1 on Global IoT Standard (Europe) with link in footnotes for more information if needed.</p> <p>Updated report in track change enclosed for kind information.</p> <p>Regards,</p>	Email Query	Closed
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5	06-Aug-20	<p>Hi, We are a startup based in Hyderabad and we are planning to manufacture electric light commercial vehicles.As we are new to the scene we want to find out about the regulations set by the Indian government to manufacture and sell a commercial vehicle.</p> <p>We will be looking forward to your reply.</p> <p>Thank you.</p> <p>Regards, Rohit Reddy ED motors</p>	Rohit Reddy <n.rohitreddy08@gmail.com>	Automobile	ED Motors	<p>Dear Rohit,</p> <p>While my work majorly focuses on European Standards, I have compiled below my reply based on available information and I hope it may help.</p> <p>Regulations</p> <p>In India, the Motor Vehicles Act 1988 (MVA) along with the Central Motor Vehicles Rules 1989 (the CMV Rules) issued by the central government constitutes the principal regulatory framework for manufacture, registration and insurance of automobiles and automobile parts. The MVA vests authority with the central and state governments to make and implement rules regulating the construction, equipment and maintenance of automobiles with respect to several aspects including dimensions, emission norms, automobile parts such as brakes, steering gears, safety devices and warranty after sales. The central government primarily administers and regulates the industry through its apex wing, the Ministry of Road Transport and Highways (MoRTH). MoRT&H has constituted three committees to recommend and advise the ministry on issues relating to Safety and Emission Regulations:</p> <ul style="list-style-type: none"> • Central Motor Vehicles Rules-Technical Standing Committee (CMVR-TSC) • Standing Committee on Implementation of Emission Legislation (SCOE) and • Automotive Industry Standards Committee (AISC) 	Email Query	Closed
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A manufacturer or importer that proposes to manufacture or import a new automobile is required to obtain approval of the prototype of such automobile from the designated testing agencies. The procedure for type approval and certification of automobiles for compliance with the MVA and CMV Rules should accord with the Automobile Industry Standards (AIS) as prescribed and notified by the central government. While the production of automobiles is ongoing, the CMV Rules require a conformity of production tests to be conducted periodically on automobiles drawn from the production line to verify that they conform to the approval certification. Upon manufacturing being completed and sale of an automobile, the manufacturer has to issue a certificate of roadworthiness and quality to the owner, and thereafter, for in-use vehicles, owners are required to obtain a pollution under control (PUC) certificate a year after the date of its registration.

Incentives to encourage the growth of the automotive sector/Electric vehicles in India:

In the recent past, the government of India has launched a number of schemes to encourage the growth of the automotive sector/Electric vehicles, such as:

- Draft National Auto policy 2018 to provide a long-term, stable and consistent policy regime and to have a clear roadmap for the automotive

					<p>industry, making India a globally competitive auto R&D and manufacturing hub and achieving the targeted objectives of green mobility”</p> <ul style="list-style-type: none">• the Automotive Mission Plan 2016-26, which aims to increase the domestic production of automobiles, increase automotive exports and address environmental and safety challenges;• the National Automotive Testing and R&D Infrastructure Project, which has been set up to enable the industry to adopt and implement global performance standards by establishing nationwide automobile testing agencies;• the National Electric Mobility Mission Plan 2020, which provides incentives to manufacturers of electric cars; and• the Faster Adoption and Manufacturing of (Hybrid) and Electric Vehicles in India scheme (FAME-India Scheme), which provides monetary incentives to producers and purchasers of eco-friendly vehicles in the country. The government of India approved the second phase of the scheme in February 2019, which will be implemented until FY 2021-22. Phase-II of the FAME-India Scheme is proposed to be implemented through demand incentives, establishment of network of charging stations and administration of the scheme through publicity and other activities.• Technology Platform for Electric Mobility (TPEM) to create a collaborative platform for developers, suppliers, automakers to work together in five areas — lithium battery technology, motors and drives, charging infrastructure, drive cycle and traffic pattern, light-weighting of XEVs — and		
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					<p>developing affordable electric technology, which will be open for use by all in manufacturing two-wheelers, three-wheelers and commercial vehicles used for public transport</p> <ul style="list-style-type: none">• Ministry of power has released “Charging Infrastructure for Electrical Vehicles- Guidelines and Standards”. <p>Standardization work:</p> <p>Standardization work in Indian Automobile industry, is being carried out by Bureau of Indian Standards (BIS) through its technical committee (TED & ETD) and Automotive Research Association of India (ARAI).</p>		
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6	27-Aug-20	<p>Dear Mr. Sharma,</p> <p>Greetings from BIS!</p> <p>As you are aware that in addition to shouldering the responsibilities of National Standard's Body India, BIS also plays an important role in conformity assessment activities. As we are looking forward to strengthen our market surveillance activities, we would appreciate if under the ongoing cooperation between BIS & CEN-CENELEC, you could kindly share with us some best practices on Market surveillance systems followed in Europe. This may include information on institutions that carry out Market surveillance and criteria for selection of such market surveillance bodies, strategies, their roles & responsibilities, coordination between them, linking market surveillance with risk assessment and challenges in Market surveillance.</p> <p>I thank you in advance in anticipation of receiving the above information at an early date. Thereafter, we may also consider having a web-meeting/webinar on</p>	IRD BIS <ird@bis.gov.in>	Generic	Bureau of Indian Standards (BIS)	<p>Dear Ma'am,</p> <p>Please find enclosed the ppt and the report drafted on "Market Surveillance in Europe". I will come back with proposed date/time option for the web meeting and/or Webinar soon after my discussions/agreement with officials in Europe as soon as they are back from summer holidays.</p> <p>For any question or more information please revert back.</p> <p>Regards, Dinesh C Sharma</p>	Email Query	Open
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the above subject at a mutually convenient date and time. We also seek your advice on how this can best be arranged.

With best regards,
Rachna Sehgal,
Head, International Relations

7	12-Jul-20	<p>Hello Dinesh,</p> <p>Hope you are doing well. I understand you are equally updated about the subject – TEC standard for Energy passport and ECR Ratings (ATTACHED FYI). TEC has given reference of EN 102 706-2 for dynamic and EN 202 706-1 for static testing along with ITU-T L.1310 standard for eNodeB.</p> <p>You would be able to recall that in the meeting Director (TEC) suggested for submission of comments on the applicability/validity of standards used as reference for testing. We request your support in terms of clarification towards TEC about the EN TS 102 706-2 validity and acceptance within EU for energy efficiency testing. We understand that present version has been changed to study only.... because of some basic reasons like work undertaken thru this document does not address the present requirements of Massive MIMO etc. part of 4G and 5G. Looking forward to work with you.</p> <p>Regards, Vipin</p>	Vipin Gupta <vipin.gupta@ericsson.com>	ICT	Ericsson	<p>Dear Vipin,</p> <p>I have forwarded your query to ETSI for their comments/input, will revert back as soon as receive the same and accordingly we can decide the way forward to address it.</p> <p>Regards,</p>	Email query	Open
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8	21-Jul-20	<p>Dear Dinesh</p> <p>Did the India government publish their account of the Summit? Would very much welcome news (accessible from Europe) from the Indian government. In this manner, we gain a glimpse on what India would like to emphasis in the partnership. It would be very interesting to hear if there were any responses from India's neighbouring countries. Especially since the digital and rail initiatives include neighbouring countries – for infrastructure.</p> <p>Your excellent knowledge on the Indian perspective, will definitely help us here.</p> <p>Many thanks Jarita</p>	<p>Christie Jarita <JChristie@cenelec.eu></p>	Generic	CEN-CENELEC	<p>Dear Jarita,</p> <p>Please note below what's been published in Indian Ministry website and India Media:</p> <ul style="list-style-type: none"> - "EU-India Strategic Partnership: A Roadmap to 2025" has been published at Ministry of External Affairs website (https://www.mea.gov.in/bilateral-documents.htm?dtl/32828/IndiaEU_Strategic_Partnership_A_Roadmap_to_2025) - Five documents were concluded during the summit – a joint political statement, a Roadmap to 2025, pact on research and development in civil nuclear energy, joint declaration on resource efficiency and circular economy, and five-year renewal for science and technology cooperation agreement. <p>(https://economictimes.indiatimes.com/news/politics-and-nation/india-eu-open-new-chapter-in-strategic-partnership-strengthening-rules-based-order/articleshow/76984512.cms)</p> <p>We are checking and if find some/more information on what India's neighbouring countries are saying on this will share it.</p>	Email query	Closed
9	31-Jul-20	<p>Provided responses to the questionnaire on adaptation of CENELEC standards to the Indian context</p>	<p>Morton Hemkhaus - adelphi <hemkhaus@adelphi.de></p>	CE & RE	adelphi research gemeinnützige GmbH	<p>Dear Morton,</p> <p>Please find enclosed responses to the questionnaire on adaptation of EU/CENELEC WEEE standards to Indian context</p>	Email query	Closed