# SESEI

Seconded European Standardization Expert in India

# Quarterly Report No.
## Standards, Policy and Regulation
### ('April – June' 2021)

**July 2021**

SESEI IV– Dinesh Chand Sharma

## 1. Executive Summary

This is the eighth quarterly report of the Project SESEI IV, covering latest updates on Standards, new policies, directives, market developments and technology related trends for the period April 2021 to June 2021.

In May 2021, India, and European Union (EU) announced that they would resume talks to conclude a free trade agreement. Partly overshadowed by the COVID-19 crisis in India, the meeting brought together Indian Prime Minister and all the bloc's 27 leaders for the first time in a sign of the EU's renewed interest in the Indo-Pacific region. In the joint statement released, they have agreed to advance the implementation of the actions set out in the India-EU Roadmap 2025 as well as the new decisions taken to jointly contributing to a safer, greener, cleaner, more digital, resilient and stable world, in line with the 2030 Agenda for Sustainable Development and the Paris Agreement.

EU has also expressed its inclination to align with India, 5G technology and has begun discussions on 5G technology rollouts and the establishment of global security standards. EU wants to work with democratic partners including India to establish open and transparent standards as nations prepare to move to the new security protocol that should be part of every 5G value chain.

In the Smart City section, we are happy to report that European Business and Technology Centre (EBTC) in collaboration with Ministry of Electronics & Information Technology (Meity) and International Institute of Information Technology-Hyderabad (IIIT-H) Smart Cities Mission, has initiated a Smart City Living lab which will work to create research and development ecosystem for next-generation technologies designed to improve safety, sustainability, energy efficiency, sanitation, and overall quality of life in densifying cities.

In the Electrical & Electronic sector, the startup hub of Ministry of Electronics & Information Technology (MeitY) with La French Tech has launched the Indo-French Tech Programme to support Indo-French startup collaboration for facilitating a rapid convergence of the French and Indian startup ecosystems. Another French power utility firm EDF has installed 1 lakh (0.1 million) smart electricity meters in India. This is the first large-scale prepaid smart meter solution to be deployed in India. The contract was awarded to EDF in association with Accenture Solutions Private Limited (India) in 2019. The India Smart Grid Forum India (ISGF) and ASEAN Centre for Energy executed MoU for Cooperation for Decarbonization Initiatives in ASEAN Member States in the areas of Smart Grids, Electric Mobility and Renewable Energy Developments on Fast-track. Another noteworthy initiative of MeitY is the recent policy paper on circular economy to deal with e-waste as part of the larger plan to encourage circular economy and ensuring zero to minimal wastage in the use of electronics and electrical sector.

In the ICT Sector, permissions have been granted to the Telecom Service Providers (TSPs) to start conducting trials for use and applications of 5G technology. TSPs are also expected to facilitate the testing of the indigenously developed use cases and equipment as part of the trials and are encouraged to conduct trials using 5Gi technology developed by IIT Madras, Centre of Excellence in Wireless Technology (CEWiT) and IIT Hyderabad in addition to global 5G Technology. It may further be noted that Indian telecom standards body TSDSI has submitted a vision for 6G to ITU Radiocommunication sector. For faster adoption of IPV6, Meity has launched three new initiatives which will guide & provide

necessary technical support, share best practices, and help in increasing IPv6 adoption in India. Telecom Engineering Centre (TEC) have approached ETSI via SESEI expert to seek cooperation and inputs on drafting Guidelines / Code of Practice for Securing Consumer Internet of Things (IoT). Engagement with National Centre for Communication Security (NCCS) and DoT has also been initiated on Comparative Study of Telecom Security Assurance and Certification Schemes in the EU and India.

In the Mobility sector, India has pitched for common international standards for green hydrogen at the BRICS Green Hydrogen Summit, to ensure safe transportation and storage of the new age emission-free fuel. Also, the Automotive Research Association of India (ARAI) taking a cue from the European benchmarks have amended its AIS-113 Standard to include the safety requirements of Road-Trains and published the draft on Ministry of Road Transport & Highway's website.

In the quarterly report, we also provide details of the various notifications issued by the Ministries concerning priority sectors.   Report also includes details of the various important meeting, queries and events as addressed and participated by SESEI expert.

List of draft standards released by Indian Standards organizations during this quarter is also available as **Annexure-1** and SESEI expert's detailed activity tracker including list of queries, events and meetings as "**Annexure -2** to this quarterly report.

In the end, I would like to conclude by stating that the global coronavirus pandemic has clearly demonstrated the need for the businesses, organisations, and people to become resilient and adaptable to sudden changes and Standards and new digital technologies will play a crucial role for safeguarding the environmental needs, business solutions and adaptability to innovative solutions.

Happy reading!!!

**Dinesh Chand Sharma**
**(Seconded European Standardization Expert in India)**

## 2. Key Meetings, Event Participation and Queries

In this section, we are providing you with a snapshot of various activities performed by the SESEI expert during the period starting 1st April 2021 till 30th June 2021.  Details of all the activities are presented below for discernment.

A quick dashboard of the activity summary is provided below:

| Sr. No. | Description | Total Until now | In Last quarter |
|---------|-------------|-----------------|-----------------|
| 1 | External Meetings | 257 | 44 |
| 2 | Internal Meetings | 63 | 03 |
| 3 | Events/Seminar/Workshop/Roundtable | 250 | 35 |
| | **Total** | **570** | **82** |
| 4 | No of Queries | 79 | 5 |

Detail of few key meetings and event/workshop participation are briefly summarized below and for more information on these and other key meetings, events/workshop participations and list of queries addressed, please refer the Activity Tracker report submitted as "Annexure -2_Activity Tracker".

**Key Meetings:**

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

**Meetings with BIS:**

**ICT:**

- **11th meeting of the LITD 13 Sectional Committee of BIS in joint session with mobile phone panel:** CRO/CRS Scheme, Consumer Electronics including Mobile Phone.

- **LITD 28 Smart infrastructure Sectional committee Meeting:** Indian Standard based on oneM2M based IoT Reference Architecture (RA).

  o **LITD 28/P9 IoT RA (Reference Architecture) panel meeting:** During the meeting panel discussed the inputs/comments received from members on the latest draft of the IoT RA document. The panel members were also informed about the mandate given to LITD 28 by Ministry of Housing & Urban Affairs (MoHUA) for publishing a set of standards by June 2021.

- **Meeting of LITD 30 on Artificial Intelligence:** BIS TC LITD 30 is working about Standardization around Artificial Intelligence and Big Data and is coordinating with ISO/IEC TC-JTC 1 SC-SC 42 (P): Artificial Intelligence. Meeting was held to discuss activities around AI in India and Globally.

- **LITD 34 Smart Manufacturing Sectional Committee - Meeting 2**: Agenda items for the meeting was Structure of LITD 34 (LITD 34/P1 Smart Manufacturing Use case group, LITD 34/P1 Smart

Manufacturing Use case group), Standardization Roadmap for LITD 34, International Activities, Composition of the Committee

- **Second Meeting of BIS LITD-35/Panel-1 on Accessibility standard for ICT products and services:** During the meeting, panel discussed the Draft Standard "Accessibility guidelines for the ICT products and services" based on EN 301 549.

**Services:**

- **Panel meeting of Electronic Consent Management, SSD 10/P-3**: During the third sectional committee meeting of SSD 10 'IT and IT Enabled Services', a panel was constituted to prepare the working draft standard on Electronic Consent Management. During the meeting: - The panel reviewed the composition of the panel and decided to give the responsibility of convenorship to Mr. Dinesh Chand Sharma of SESEI.

  ✓ Second Panel Meeting was convened by SESEI. During the meeting a presentation by iGrant.io was given on Electronic Consent to the panel members and to discuss the strategy to prepare working draft or adopt ISO Standard on Electronic Consent Management.

- **Meeting of Study Group for Standardization of Digital Signature.** Sectional Committee SSD 10 'IT and IT Enabled Services' formed a study group for recommending whether the area 'Digital Signature' can be taken up for standardization in the future by SSD 10. SESEI expert asked the members that before starting up the standardization work on Digital Signature, efforts must be made in identifying the companies in India who are working on secure signatures/digital signatures and invite them for the meeting. During the meeting, SESEI expert was assigned to share the information around Electronics Signature activities in Europe. To address this, SESEI consolidated a short report on it and shared it with SG.

**Electrical & Electronics:**

- **8th meeting of Electrical Energy Storage Systems Sectional Committee, ETD 52**: During the meeting discussion on extending battery management standards to Li-ion batteries with different chemistries, Repurposed batteries etc. was discussed. In the meeting SESEI informed BIS the following EN standards on flow batteries: EN IEC 62932-1:2020-, EN IEC 62932-2-1:2020, EN IEC 62932-2-2:2020. He also informed the following standards under development: 1 EN 50604-1:2016/prAA:2019 (pr=65424), EN 62133-2:2017/prA1:2020 (pr=71032) EN 62485-5:2019 (pr=63703), EN 62485-6:2019 (pr=63702), EN IEC 62619:2020 (pr=68538) and EN IEC 62660-3 (pr=72205).

- **18th meeting of LITD 10 Sectional Committee of BIS:** The main agenda discussed was Adoption of IEC 62746-10-1:2018 'Systems interface between customer energy, management system and the power management system - Part 10-1: Open automated, Guidelines for SCADA System Displays (LITD/10/17093) and Finalization of Standards.

**Meetings with TEC/ DoT and other Govt. Bodies**

**ICT:**

- **TEC Virtual meetings of WG on Future Communication Technologies & Use cases in IoT domain:** This WG was formed around one and a half year back and this work is now on the verge of completion. Members have been meeting consistently and were appreciated for their continuous efforts and contributions in preparation as well as refinement of the draft document. However, there is still need to fill-in the existing gaps in the document, write recommendation section and add some use cases on global deployment of C-V2X and Industry 4.0, if possible.

- **TEC Virtual Meetings of Working Group (WG) on "Security by design Principles in M2M device manufacturing and National Trust Center for certification of M2M devices and applications**". During the quarter periodic meeting of the working group were organized.  The discussions held during the meeting are.

  - ✓ to review/discuss the inputs/comments received from members on National Trust Center for IoT, draft guidelines consumer IoT security and draft document on security by design. SESEI expert has provided his inputs on "EU Cybersecurity Certification Framework"
  - ✓ inputs/comments received from members discussed on adoption of EN 303 645 Standard on Consumer IoT.
    - ▪ Discussion on inputs from ETSI on Draft Guidelines / Code of Practice for Securing Consumer Internet of Things (IoT): TEC has approached ETSI to seek their support and cooperation on issues related drafting Guidelines / Code of Practice for Securing Consumer Internet of Things (IoT). Ms. Sonia Compans, ETSI Technical Officer, along with TC Cyber experts and SESEI provided comments on the draft guidelines / Code of Practice for Securing Consumer Internet of Things (IoT).  The comments and suggestions received from ETSI were circulated to the members for further discussion and comments. Post receiving comments from the members, another meeting with ETSI & SESEI was arranged by TEC and its members for seeking clarification and information on the IoT security related issues.
  - ✓ During one of the meeting, DDG (IoT), TEC briefed about virtual event - ETSI IoT week April 2021 and shared some important presentation related to IoT security. Also shared and briefed ETSI presentation on "ETSI Standards on Consumer IoT security: EN 303 645 and TS 103 701".
    - ▪ DDG (IoT) also requested SESEI Expert to explain Radio Equipment Directives (RED) i.r.o. EN 303 645 and Harmonised standard (HEN).  SESEI Expert explained about Radio Equipment Directives (RED) i.r.o. EN 303 645 and Harmonised standard (HEN).

- **TEC Virtual meeting of the committee formed for "Finalizing IoT/ ICT standards for Smart Cities"**. TEC is in the process of preparing a detailed report on the IoT/ICT standards for India. SESEI has provided input to the document covering works in Europe.

- **TEC Virtual meeting of NWG-20 for finalizing contributions for ITU-T SG-20 meeting**. TEC has been participating and submitting contributions in almost all the meetings of ITU-T SG-20 from around

last four-five years. During this period, two documents- Y Suppl.53 (having five IoT use cases from India and one from Egypt) and Y Suppl.56 (having smart city use cases from Japan, Korea, UK and India), having significant contributions from India, have been agreed / approved as ITU Recommendations.

- **TEC Virtual meeting of working group on Smart Grid:** TEC Working Group on the Smart City was requested to take up issues related to Smart Grid. In this regard, Draft ToR for WG on Smart Grid were prepared and shared with the group for further comments and finalisation of the same. Draft template for the report to be prepared by the Working group was also discussed and finalized.

**Meetings with EU delegates, EU projects & officials from EU delegation in India:**

**ICT:**

- **EBG Telecom Sector sub-Committee's meeting**: The aim of the meeting was to give guidance about members role and commence the process for them to start working. SESEI expert is an important member of Standards and Technology development Working Group and shared updates on following topics with committee members:
    - ✓ The 3GPP transposition by TEC/ TSDSI (delayed),
    - ✓ AI stack development by TEC to be harmonized,
    - ✓ Green Passport,
    - ✓ National Trust center TEC (Security),
    - ✓ NFAP (6Ghz for Telco).

- **Marie KRPATA and Olivier KACZMAR, students at the IRIS Sup**, one of the major think tanks in France also providing training to professionals, requested SESEI expert to provide information on India's role in the international standard setting ecosystem in the face of geopolitical evolutions as regards to ICT Technology. SESEI expert used this opportunity and shared a presentation on Project SESEI, main Indian Standardization Bodies in Indian ICT sector (BIS, TSDSI & TEC) and new approach/ Key Initiatives of the Indian Gov. in ICT sector.

- **Connect on Capgemini 5G lab @ Mumbai**: EU Project on ICT Standards organized a meeting with Capgemini to discuss their initiatives around 5G Lab in India. SESEI expert was invited to be a part of this meeting to take up discussion around 5G Labs/Trials in India. During the meeting Capgemini representative shared all around 5G lab in India and what different use cases they are ready to demonstrate.

- **ERICSSON briefing on video project around Global Standards in India:** INDICO ICT STANDARDS Project organized a call b/w ERICSSON and Indico project officials to produce a video about THE BENEFITS OF GLOBAL STANDARDS IN INDIA. SESEI Expert has been supporting INDICO Project to connect with industry officials to produce video interviews. Meeting was held to explain the contours of Video Interview, logic behind it and the format.

**Meetings with Industry & Associations:**

**ICT:**

- **Discussion on the flow of program - Global Accessibility Awareness Day (GAAD) 2021**: SESEI is the Co-Chair, of BIF's Committee on 'ICT for Inclusive Ability (PwDs). A meeting was held with the concerned officials from BIF to review the programme, agenda, and the flow of the events. SESEI is moderating a session on Standards.

**Meetings with Project Partners:**

**Generic:**

- **Virtual Meetings of Project India members:** Project India #Meeting No. 11 & 12. These are periodic meetings held to assess and assert the status of actions points. The CEN-CENELEC Project India met and shared some initial proposals for questions for the SESEI stakeholder consultation and associated timeframe. In the 12th meeting, Project India members reviewed the progress of the stakeholder survey, the questions raised, and the stakeholders identified. SESEI during the meeting shared updates from India on Priority Topics of interest of Project India.

- **Call between SESEI and Mr. Peter Sissons from BSI:** Mr. Peter Sissons called for a meeting with SESEI expert to share information on the range of standards/resources developed by BSI to support the fight against COVID-19. SESEI expert during the call informed BSI that a list of EN standards freely available for download and are relevant for COVID were shared earlier (list share post call) and if BSI wishes to inform more information around it, SESEI will be happy to include them in the next Newsletter for Indian Audience and BSI can draft a news article on it. Post call BSI representative shared the article, which was included in the newsletter and shared with audience.

- **55th CEN and 61st CENELEC General Assemblies, and 11th Common Session:** SESEI was invited to participate in the 11th Common Session of the CEN CENELEC General Assemblies. Various agenda items were discussed during the meeting. SESEI and SESEC project renewal and status of MoU with BIS was also shared during the meeting.

**ICT:**

- **Daniel Hartnett, DECT Forum sought a meeting with SESEI expert and ETSI officials:** DECT Forum / ETSI TC DECT-2020 called a meeting to discuss "introduce DECT Forum and explain what they are doing and where they would need your support for Indian Market". Currently the DECT technology does not enjoy any approved spectrum in India. For such an important market, this is large white space in our global appeal. During the meeting and post meeting SESEI expert updated what all have been done through SESEI and through earlier DECT India Forum.

    ✓ A follow-up meeting by DECT forum on its activities and action plan for Indian Dept. of telecom was organized with ETSI representative Mr. Xavier to brainstorm the proposed

activities with India and explore possibilities to include DECT topic as a priority topic in other EU projects for India and discuss what all could be done.

- **India EU ICT Project Steering Committee Meeting on Phase 2 Planning:** SESEI was invited to participate in the Steering Committee Meeting of the India EU ICT Project.  To discuss Work plan for the next two years, resource constraint: human and budget, selection of priorities, etc. SESEI during the call provided his inputs and thoughts around the possible topics of work as part of Project Activity**.**

  - ✓ Follow-up Meeting was organized including TSDSI officials as well. During the meeting, Mr. Matej joined the meeting virtually to explaining the funding guidelines and explained to all the possibilities and what all is possible as part of the incidental expenses. All other topic such as a template of proposing a new activity was discussed and finalized during the call.

- **EU Project InDiCo & SESEI expert meeting on IET India Digital Conversation series on 5G Use Cases:** Project InDiCo along with SESEI organised a Digital Conversations series hosted by the IET- Future Tech Panel.  For the session, Project InDiCo team will bring an expert panel of speakers from different countries and backgrounds, who will explore the uses cases of mobile connectivity and how 5G could enable breakthrough innovations in products, services, processes for the benefits of all. During the periodic meeting, concept paper on the 5G used cases was discussed in detail. The panel discussion will be moderated by Mr. Dinesh Chand Sharma, SESEI.  Through this panel discussion, InDiCo aims to create awareness and sharing of knowledge on Experiences and pilots of the most promising use cases of 5G technology in different application domains.

- **Review of video on the benefits of global standards through Project InDiCo**: Project InDiCo along with SESEI is working on preparing a video interview on the benefits of global standards. In discussion, Key Stakeholders from Academia, Research Institutions, Govt., Industry, Indian Standardization bodies were identified. Interviews and video shoot with these identified stakeholders and report is under process.  A review of the key messages, alignment of the statements and important speakers were reviewed by SESEI along with the Project InDiCo officials.

**Key Event Participations:**

**Electrical & Electronics:**

- **Electronics Manufacturing Summit 2021 (Virtual):** MAIT, the apex industry body for the Electronics Hardware sector in India, organized Electronics & Telecom Manufacturing Summit 2021.

- **Workshop on Fact-Finding Mission India**, organised by Indo-German Chambers of Commerce with focus on "Storage solutions and Charging infrastructure for e-mobility": Current scientific developments & applications, lithium-ion battery, etc.

- ICRIER organized a stakeholder convening event towards **developing an understanding of the battery manufacturing and recycling ecosystem in India**.

**Mobility:**

- **AVANCI - 5G Licensing for Connected Vehicles", organized by** SRI Division of DoT as a Knowledge Session focused on buddle IPRs and SEPs for Connected Vehicle by renowned Expert Monica Magnusson, VP, IPR policy, Ericsson.

- "**EV charging infrastructure and its Grid integration in Indian EV ecosystem**": "EV charging infrastructure and its Grid integration in Indian EV ecosystem" organized by GIZ and IIT Bombay as a part of Transport and Climate Change Week 2021 of the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ).

- Webinar on "**Integrated rail data management: emerging trends for unpredictable times**" by International Railway Summit

**ICT:**

- **Webinar by BIS on Digitizing India through Standards:** Meeting was organised by BIS to brainstorm with Industry on Digital India initiatives and collect feedback. BIS during the session shared updates of its Technical Activities and published standards by LITD Divisional Council relevant and related to Digitization. Few Technical committee Chair also made presentation such as Data privacy and Security. EN 301 549 adoption was also shared during the call apart from many other topics such as Blockchain, AI, Smart Infrastructure etc.

- **Global Accessibility Awareness Day 2021- organised by Broadband India Forum (BIF):** A conference was organised by BIF to create awareness and engage with the Indian Government, Policymakers, and the industry in the need to adopt standards and policies which are inclusive of people with special abilities. SESEI was the moderator of the session on Standards and is promoting adoption of EN 301 549.

- **Session on LI-FI Technologies & Applications**: National Institute of Technology, Warangal in association with Department of Electronics and Communication Engineering, SRM Institute of Science and Technology College of Engineering and Technology, organized an online Faculty Development Program. SESEI Expert was invited to speak on current standardization activities in the domain. SESEI expert gave a presentation on "Global Standards: Research & Innovation VLC/Li-Fi", ETSI, 3GPP, Standards and Research (Horizon 2020 research programe on LiFi technology).

- **IET Future Tech Panel Digital Conversations on 5G and beyond - Use cases for mobile connectivity** organized by European Project Indico in coordination with IET India. SESEI being the chairman of the Standards Legal & Regulatory Working Group at IET Future Tech Panel, chaired this webinar and session. Subject matter experts both national and International who participated as speakers and shared their views and expertise.

- **37th GISFI standardization series meeting (GSSM): International Symposium 7-IN-1**: SESEI was one of the speakers at the technology session. SESEI in his presentation on the Smart Body Area Network & AI – Standardization", provided details of the work being carried out by ETSI, CEN-CENELEC on the Smart Body Area Network (SBAN) and AI.

- **Second India-EU Webinar on Safe and Secure Mobile Technologies organized by EU Project InDiCo managed by ETSI:** Webinar was organized on Comparative Study of Telecom Security Assurance and Certification Schemes in the EU and India. Programme was divided into three important sections. The plenary / opening session was addressed by Mr. Tonnie De-Koster, European Commission, DG Connect and Mr. C V L Nagaleela, Senior DDG, National Centre for Communication Security (NCCS), DoT Bengaluru. Post which a session on "Update from India - focusing on Cybersecurity Rules for Telecommunications" comprised of speakers from, National Security Council Secretariat and Department of Telecommunications and the 3rd Section comprised of "Update from the European Commission- Policy Framework and Guidelines for 5G Certification Scheme" with speakers as Head of Sector, Digital Innovation & Blockchain, ICT Standardization, EC DG Connect and Deputy Director General, officer from COAI.

- **"5G Networks: Strategies for Enabling Standards Driven Technologies & Innovation"** jointly organized by TSDSI and TIA. The workshop dwelt on Data Centre Technologies for 5G and Evolving Trends in Standardization, Supply Chain Security and Service Performance Reliability Requirements from Next Gen Networks for Connected Vehicles.

- **"5G Test Bed Initiative at IIT Delhi"** IIT Delhi & TSDSI, organized an online regional workshop to showcase activities of the project on Multi-Access Edge Computing, 5G NR Channel Estimation, Equalization and Blind Decoding of Control Signals.

- **Session on "Advanced Digital Comm. Technologies Toolkit for India" organized jointly by "**Delegation of the European Union to India and NITI Aayog". The objective of the workshop was to validate the initial work focus areas of project study and obtain the inputs/suggestions from the participants. During the workshop, SESEI provided input to include topics such as DECT, Satellite Communication for Standards and Spectrum harmonization in India.

  - ✓ **Follow-up workshop of 'Advanced Digital Communication Technologies Toolkit for India'** Project - An initiative of the European Union and NITI AAYOG. The session focused on Satellite Communication, Data Protection, Training & Education.

- **Webinar on OpenAirInterface - Democratizing innovation in the 5G era: 29th webinar in the knowledge sharing series under the** aegis of the India-EU Partnership Project on Collaboration for ICT Standardization.

- **Webinar "Capgemini's 5G Lab in Mumbai - Your Gateway to Intelligent Industry":** On launch of their 5G Lab in Mumbai, Capgemini, organised a webinar. In the webinar, it was discussed how Capgemini labs can address the needs of intelligent industry through 5G and Edge solutions.

**Resource Efficiency:**

- Electronics Sector Skills Council of India (ESSCI) organized an informative and an interactive Panel Discussion on a crucial topic "**Transparent Sustainability: Circularity & E-Waste Management**": to discuss and brainstorm with industry experts the practical aspects and the on-ground challenges on E-waste handling, legislations, and policies.

**Key Queries addressed:**

**Generic:**

- Query on "How EU is handling and regulating Aluminum Scrap": Bureau of Indian Standards (BIS)

**ICT:**

- Inputs to Draft Document on "Security by design Principles in M2M device manufacturing and National Trust Center for certification of M2M devices and applications": Telecom Engineering Centre (TEC)

- Provide information on Satellite communication in India: SatADSL

- Draft guidelines for the Registration Process of M2M Service Providers(M2MSP) & WPAN/WLAN Connectivity Provider for M2M Services: Siemens

**Services:**

- Information around Electronics Signature activities in Europe: BIS

## 3. Generic Update

### 3.1 Research Design & Standards Organization (RDSO) becomes the FIRST Institution to be declared SDO under "One Nation One Standard" mission on BIS

Research Design & Standards Organization (RDSO) of Indian Railways has become the FIRST Institution to be declared SDO under "One Nation One Standard" mission on BIS (Bureau of Indian Standards) which is Institution under Department of Consumer Affairs.

This unique initiative of two organizations under Government of India (GOI) is going to set a template for all the rest of leading research and standard development organizations in the country to follow and adapt World Class Standards.

It may be noted that to attain "Nation One Standard" vision of Govt. of India, Bureau of Indian Standards (BIS), the National Standards Body, has launched a scheme which provides for "Recognition of SDO".

Through this scheme, BIS aims at aggregating and integrating the existing capabilities and dedicated domain specific expertise available with various organizations in the country engaged in standards development in their specific sectors and enable convergence of all standard development activities in the country resulting in "One National Standard for One Subject".

Research Designs & Standards Organization (RDSO), Lucknow, which is the sole R&D Wing of Ministry of Railways, is one of India's leading Standard formulating Body undertaking standardization work for railway sector. RDSO took the initiative to seek recognition as a Standard Developing Organization (SDO) under the BIS SDO Recognition Scheme. In the process, RDSO reviewed its Standard Formulation procedures to realign them with the Best Practices of Standardization, encoded in the WTO-TBT "Code of Good Practice" and mandated by the Bureau (BIS) as essential criteria for recognition as SDO.

The Standard formulation procedures at RDSO will now be more focused on Consensus-based decision making and will entail extensive engagement of all stakeholders including Industry, Academia, Users, Recognized Labs, Test Houses etc., in the process of Standard making from the very early stages i.e., from Conceptualization to finalization of Standards. Some of the major benefits that will flow out of this recognition by Bureau of Indian Standards, under the BIS SDO Recognition Scheme, include Larger participation of Industry / Vendors / MSME's / Technology Developers in IR Supply Chain, Increased competitiveness amongst Industry / Vendors, Reduction in Cost, Quantum improvement in Quality of Product & Services, Smooth Induction of latest evolving & emerging technologies on IR, Reduced dependence on imports, Thrust on "Make-in-India", Improvement in Ease-of-Doing-Business, Recognition of RDSO on International Standards Making Bodies and Integration with Global Supply Chain / Global Trade.

Read more>>

### 3.2    List of Products Under Simplified Procedure by BIS

Bureau of Indian Standards (BIS) in its endeavor and commitment towards easing certification compliance to the industry is introducing measures for mandatory utilization of option - 2 (erstwhile simplified procedure) for processing product certification applications for grant of licence. These measures are being introduced (for the domestic Industry, including MSMEs) with the aim of processing applications for grant of licence within 30 days. The list of such products where applications are required to be mandatorily filed under option - 2 are described.

Read more / Download>>

### 3.3    BIS Indian Standards are Now Available Free of Cost & BIS reforms

The Bureau of Indian Standards (BIS) announced its New Initiatives. BIS standards are now available free of cost for everyone according to Director General, Bureau of Indian Standards. A booklet on BIS reforms has also been launched. Secretary, Department of Consumer Affairs and DG, BIS addressed a virtual press conference about the New Initiatives of BIS.

Some of the new initiatives are:

- ✓ Quarterly meeting of Sectional Committees
- ✓ Stage-wise timeframe for every Standard under development or revision
- ✓ Action Research to be an integral part of the process
- ✓ Broad banding of consultation process through Standardization Cells in Ministries and Industry Associations
- ✓ Better provisioning of Human Resources to ensure that one Scientific Officer does not deal with more than 30 standards in a year
- ✓ Initiation of revision of standards parallel to formulation or revision of corresponding ISO/IEC standards for prompt harmonization.

DG, BIS informed that BIS have nearly 21000 Indian Standards. The objective is to ensure a genius standard for every product relevant for the national economy and consumers. The DG said that for the benefit of industry, particularly the MSME sector, Indian Standards are now available free of cost, and can be downloaded from the Standardization Portal of e-BIS.

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### 3.4 Government launches network of 6,580 labs for quality control of Indian products

The portal makes it possible to search labs for a particular product in a state or a city. It also enables finding the scope of accreditation and test methods of a laboratory. Facility for booking a test online has been developed and is being pilot tested for Textile Committee Laboratories

The government has launched a nationwide network of 6,580 laboratories in line with Prime Minister Narendra Modi's vision that "scale" and "standards" are the two key principles that could catapult India as a global manufacturing hub, commerce and industry ministry said.

"To enhance competitiveness of Indian goods and services, building a quality culture is of utmost importance. Access to information about testing laboratories is the first step," a ministry spokesperson said.

A unified mapping of the network of laboratory infrastructure -- Parakh -- has been created to overcome the fragmented nature of digitised information about testing facilities, he added. Speaking at Udyog Manthan, an industry webinar, PM Modi last month urged manufacturers to ensure that Indian products meet global standards.

The unified laboratory network has been developed by the Department for Promotion of Industry and Internal Trade (DPIIT) with the support of ministry of electronics and information technology (Meity) and Bhaskaracharya Institute for Space Application and Geo-informatics (BISAG).

Read More>>

### 3.5 Government plans crackdown on sellers of low-quality toys, wants manufacturers to follow BIS Standard

The government will tighten the noose on toy sellers selling non-certified toys. Bureau of Indian Standards (BIS), the national standards body, is set to penalise toy sellers selling low-quality toys. The government has made quality certification mandatory for toys from January this year to prevent the sale of low-cost toys which are hazardous to health.

"We have sent notices to malls, airports and other commercial establishments directing them not to sell sub-standard toys which are not in conformity with BIS norms. We have received several complaints and soon we will be conducting raids," said BIS chief Pramod Kumar Tiwari. He said that the government so far has not taken any penal action against toy manufacturers. It has sensitized them to produce quality toys as most of them are small and micro-enterprises. "More than 250 toymakers including global brands like Hamleys have taken BIS certification.

Read More>>

### 3.6 TBT notifications submitted by India to the World Trade Organization (WTO)

- G/TBT/N/IND/201 & G/TBT/N/IND/203: Thermoplastic materials.
- G/TBT/N/IND/202: Halogenated hydrocarbons.
- G/TBT/N/IND/204: Plastics in general.
- G/TBT/N/IND/205 & G/TBT/N/IND/206: Organic chemicals
- G/TBT/N/IND/44/Add.10: Telecommunications.

## 4 SMART CITIES

### 4.1 Bureau of Indian Standards' new Reference Architecture for Smart Cities adopts the Open Group ArchiMate Specifications

The Open Group, the vendor-neutral technology consortium, announced the adoption of the ArchiMate® Specification, a standard of The Open Group, in the publication of India's ICT Reference Architecture for Smart Cities (ICTRA), marking a milestone for accelerating smart cities initiatives globally.

The Bureau of Indian Standards (BIS) in collaboration with the Ministry of Housing & Urban Affairs (MoHUA), alongside city administrations in the country, has developed the ICTRA (Indian Standard IS18000:2020) which makes the internationally recognized ArchiMate® Specification available for smart cities applications across India.

The ICTRA has been designed to address real issues that cities are aiming to solve through digital technology, providing a shared framework to improve interoperability and enable vendors to

commodify solutions. The ArchiMate® Specification is an open and independent modeling language for Enterprise Architecture that is supported by different tool vendors and consulting firms. The standard provides instruments to enable Enterprise Architects to describe, analyze, and visualize the relationships among business domains in an unambiguous way.

Integrating diverse systems, enabling collaboration between stakeholders, and needing to reinvent the wheel are common challenges for smart cities initiatives. The ICTRA ensures that components can talk to each other and deliver overarching functionality beyond their standalone purpose, in the same way that businesses design Enterprise Architecture to define processes and information flows across their functions.

Read More>>

Note: In this series of standards, BIS have also released a standard - IS 18004-1:2021: IoT System Part 1 Reference Architecture" which is based on oneM2M specifications.

## 4.2    IIIT-H gets first corporate founding partner for Smart City Living Labs

International Institute of Information Technology-Hyderabad (IIIT-H) has announced that Silicon Labs, a leading provider of silicon, software, and solutions, is the first corporate founding partner for its new Smart City Living Lab.

The lab's mission is to provide a research and development ecosystem for next-generation technologies designed to improve safety, sustainability, energy efficiency, sanitation, and overall quality of life in densifying cities. It is part of the institute's Smart City Research Center, supported by Ministry of Electronics & Information Technology (MeitY), Smart Cities Mission, Telangana government, and European Business and Technology Centre.

While Silicon Labs focuses on solutions addressing market needs, the academia will focus on building new knowledge through research and imparting education. The combination is expected to yield accelerated development of new breakthroughs, fuel innovation and growth in technology, said professor co-innovation and head research/innovation outreach, IIIT-H Ramesh Loganathan. "Silicon Labs' expertise in designing compelling wireless devices will enhance our efforts of building an innovation ecosystem for smart cities," he added.

Read More>>

# 5    Electrical Equipment including Consumer Electronics

## 5.1    MeitY Startup Hub, La French Tech Bengaluru announce Tie-Up

MeitY Startup Hub and La French Tech, Bengaluru, have launched the Indo-French Tech Programme to support Indo-French startup collaboration. It is also for facilitating a rapid convergence of the French

and Indian startup ecosystems and establishing linkages between Indian and  French incubators and startups. This programme is jointly supported by the Ministry of Electronics & IT of India, and the French Government, a joint statement said.

The Indo-French Tech  Programme  was  launched  on  the  visit  to India by French Minister for Europe and Foreign Affairs, Jean-Yves Le Drian during a French Tech event.

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### 5.2    French firm EDF installs 1 lakh smart meters in India

French power utility firm EDF has installed 1 lakh (0.1 million) smart electricity meters in India. The milestone marks the beginning of the commercial rollout of its 5-million smart electricity meters contract, nearly half of which will be installed in Bihar.

"Global low-carbon electricity leader EDF successfully installed 100,000 smart meters in India under its contract with Energy Efficiency Services Ltd (EESL)," an EDF statement said. According to the statement, this is the first large-scale prepaid smart meter solution to be deployed in India. The contract was awarded to EDF in association with Accenture Solutions Private Limited (India) in 2019. It covers the design of an advanced metering infrastructure, the proper installation of 5 million smart meters across India, integration of smart meters with existing billing system of electricity distribution companies as well as operation and maintenance of the of the whole system for a period of six-and-half years.

India has always been a key market for our growth and presents immense potential in the smart meter space. Smart meters will empower customers to gain a higher degree of control over their electricity consumption and would further enhance the resilience of the network," Director and Country Head, EDF India, said.

Read more>>

### 5.3    Ministry of Power decides to set up a National Mission on use of Biomass in coal based thermal power plants

To address the issue of air pollution due to farm stubble burning and to reduce carbon footprints of thermal power generation, Ministry of Power has decided to set up a National Mission on use of Biomass in coal based thermal power plants. This would further support the energy transition in the country and our targets to move towards cleaner energy sources. The "National Mission on use of biomass in thermal power plants" will have the following objectives.

a)  To increase the level of co-firing from present 5% to higher levels to have a larger share of carbon neutral power generation from the thermal power plants.
b)  To take up R&D activity in boiler design to handle the higher amount of silica, alkalis in the biomass pellets.
c)  To facilitate overcoming the constraints in supply chain of biomass pellets and agro- residue and its transport up to the power plants.

d) To consider regulatory issues in biomass co-firing.

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### 5.4 India Smart Grid Forum and ASEAN Centre for Energy executed MoU for Cooperation for Decarbonization Initiatives

Association of Southeast Asian Nations (ASEAN) has long standing international partnerships on energy cooperation which have been mutually beneficial to all stakeholders (including the donors). These international partnerships support the implementation of the ASEAN Plan of Action for Energy Cooperation (APAEC) 2016-2025, a regional blueprint for energy cooperation which was endorsed by the ASEAN Ministers on Energy Meeting (AMEM).

These international partnerships exist in the form of ASEAN's Dialogue Partners (DP), International Organisations (IO) as well as the direct institutional engagements. ASEAN has ongoing partnerships with Japan, Republic of Korea, China, Germany, USA, Norway, East Asia Summit (EAS) Energy Cooperation and other international collaborations with IRENA, IEA, etc.

India has emerged as a leader in the clean energy, electric mobility, and smart grid developments with impressive achievements through innovative policies, programs, and projects for decarbonization of power sector. India is the only major economy that has surpassed the targets under the Paris Climate Agreement by end of 2020. Several of ASEAN countries who have embarked on the energy transition journey could benefit from close collaboration with India. In 2018, India Smart Grid Forum (ISGF), a Public Private Partnership initiative of Ministry of Power (MoP), Government of India in coordination with ACE and Heads of ASEAN Power Utilities/Authorities (HAPUA) conducted a 5 day training program on smart grids in New Delhi for 17 senior officials of AMS.

This program was funded through a grant from the Indian Delegation to ASEAN and was appreciated by all participants. Developing on that relationship, ISGF and ACE have formulated a Five-Year Integrated Program for capacity building in various institutions in AMS for decarbonizing the power and transport sectors.

To jointly implement that program, ISGF and ACE have executed a Memorandum of Understanding ("MoU") on 19th April 2021. The MoU set forth a framework for mutual co-operation between ACE and ISGF for various initiatives in the areas of smart grids, electric mobility, and renewable energy development.

Read More>>

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

- Comments on Discussion Paper on redesigning the Renewable Energy Certificate (REC) Mechanism. Read more>>
- National Committee on Transmission (NCT)-amendment thereof. Read more>>
- Ministry of Power has invited suggestions/inputs on draft National Electricity Policy (NEP) 2021. Read more>>
- Approved Models and Manufacturers of Solar Photovoltaic Modules (Requirement for Compulsory Registration) Order, 2019 – Implementation-Clarification-reg. Read more/Download>>
- Guidelines on Production Linked Incentive Scheme 'National Programme on High Efficiency Solar PV Modules' Read more>>
- Amendment to Scheme Guidelines for Central Public Sector Undertaking (CPSU) Scheme Phase-II for setting up 12,000 MW grid-connected Solar Photovoltaic (PV) Power Projects. Read more/Download>>
- Seeking comments on specifications and testing procedures for solar off grid applications. Read more>>

# 6 Mobility (including Railways)

## 6.1 Government allots 5 MHz spectrum in 700 MHz band to upgrade Indian Railways Security

The Union Cabinet approved the allotment of a 5 MHz spectrum in 700 MHz frequency band to the Railways for public safety and security services at stations and in trains. The spectrum allocation is in line with the Railways' objective to provide Long Term Evolution (LTE) based mobile train radio communication on its route, a project with an estimated investment of Rs 25,000 crore (€2.9 billion). The project is expected to be completed in the next five years. The railways currently rely on optical fibre for their communication network but with the allocation of fresh spectrum, it will be able to use high-speed radio on a real-time basis. It will help in augmenting both communication and signaling networks of the railways. It will help in augmenting both communication and signalling networks of the railways.

"Spectrum would lead to secure data with adequate bandwidth to take care of the massive capacity expansion of Railways and making it a strong real-time network-centric national transportation platform. This will also give a boost to Aatmanirbhar Bharat mission," a Railway statement. The spectrum charges may be levied based on a formula basis as prescribed by the Department of Telecommunications for royalty charges and license fee for captive use as recommended by the Telecom Regulatory Authority of India.

With this LTE based communication facility, the Railways can provide secure and reliable voice, video, and data communication services for operational, safety and security applications. It will be used for modern signalling and train protection systems and ensure seamless communication between loco pilots and guards. It will enable the Internet of Things (IoT) based remote asset monitoring especially of coaches, wagons and locomotives and live video feed of CCTV cameras in the train coaches to ensure efficient, safer, and faster train operations.

Read More>>

## 6.2 Ministry of Road Transport & Highways, publishes Draft Standards for Road-Trains

To revolutionize the transport of goods and reduce the overall logistic costs, the Automotive Industry Standards Committee has amended its AIS-113 Standard to include the safety requirements of Road-Trains and has hosted the draft on Ministry of Road Transport & Highway's website.

The standards have been prepared after examining European benchmarks, keeping in mind Indian operating conditions.

These standards shall pave the way for a breakthrough intervention for fast and efficient movement of goods along the long-distance freight corridors. Road-Train is a motor vehicle wherein the traction is provided by the puller, which is connected to a serial combination of trailers or semi- trailers.

These shall ply on select stretches to reduce congestion, save fuel, and reduce noise & air-pollution. The Automotive Industry Standards Committee has representatives from the relevant Ministries, Testing Agencies, Industry stakeholders, BIS etc.

The amended standard AIS-113 (Code of Practice for Type Approval of Trailers / Semi-trailers of categories T2, T3 and T4 being towed by Motor Vehicles of categories N2 and N3) has been published for invitation of public comments, after which it shall be notified in due course.

Read More>>

## 6.3 India calls for common global standards for Green Hydrogen

India pitched for common international standards for green hydrogen at the BRICS Green Hydrogen Summit, to ensure safe transportation and storage of the new age emission-free fuel. India had organised the two-day summit on green hydrogen involving Brazil, Russia, India, China, and South Africa, also referred to as the BRICS nations, on their initiatives around the green fuel.

Green hydrogen gas is produced by splitting water into hydrogen and oxygen using an electrolyzer that may be powered by electricity generated from renewable energy sources.

"Shri Alok Kumar, Secretary Ministry of Power, in his keynote address said that Government and industry must work together to ensure existing regulations are not an unnecessary barrier to investment. Trade will benefit from common international standards for the safety of transporting and storing large volumes of hydrogen and having appropriate certificate of origin. BRICS countries could work together on these aspects," the union power ministry said in a statement.

Leveraging India's landmass and green energy sources for exporting green hydrogen is one of the steps for achieving energy sufficiency for the country, according to a draft proposal circulated by the ministry of new and renewable energy (MNRE), for the planned National Hydrogen Energy Mission.

### 6.4 Govt. approves Production Linked Incentive scheme "National Programme on Advanced Chemistry Cell Battery Storage

The Cabinet, chaired by Prime Minister, has approved the proposal of Department of Heavy Industry for implementation of the Production Linked Incentive (PLI) Scheme 'National Programme on Advanced Chemistry Cell (ACC) Battery Storage' for achieving manufacturing capacity of Fifty (50) Giga Watt Hour (GWh) of ACC and 5 GWh of "Niche" ACC with an outlay of Rs.18,100 crore (€2.12 billion).

ACCs are the new generation of advanced storage technologies that can store electric energy either as electrochemical or as chemical energy and convert it back to electric energy as and when required. The consumer electronics, electric vehicles, advanced electricity grids, solar rooftop etc. which are major battery consuming sectors are expected to achieve robust growth in the coming years. It is expected that the dominant battery technologies will control some of the world's largest growth sectors.

While several companies have already started investing in battery packs, though the capacities of these facilities are too small when compared to global averages, but there still is negligible investment in manufacturing, along with value addition, of ACCs in India. All the demand of the ACCs is currently being met through imports in India. The National Programme on Advanced Chemistry Cell (ACC) Battery Storage will reduce import dependence. It will also support the Atmanirbhar Bharat initiative. ACC battery Storage manufacturers will be selected through a transparent competitive bidding process. The manufacturing facility would have to be commissioned within a period of two years. The incentive will be disbursed thereafter over a period of five years.

### 6.5 Siemens Partners with Switch Mobility on E-Mobility Projects in India

Siemens Ltd has signed a Memorandum of Understanding (MOU) with Switch Mobility Automotive Ltd to jointly address need of commercial electric vehicle (EV) customers and execute E-Mobility Projects in India.

The MOU is aimed at delivering efficient, cost-effective, and sustainable E-Mobility solutions to various commercial vehicle customers in India. Switch Mobility will bring its electric commercial vehicle industry experience while Siemens will provide the charging infrastructure technology and charging infrastructure management software solution to enhance the energy-efficient operations of the chargers. Siemens' charging infrastructure management software solution would enhance the energy-efficient operations of chargers.

The two companies will collaborate on new business models such as eMobility-as-a-Service (eMaas), integrated depot energy management, Vehicle-to-Grid (V2G) as well as on-site / off-site renewable energy sources by leveraging batteries from commercial vehicles.

### 6.6 Electric Vehicles likely to get Registration Fee Waiver

The Ministry of Road Transport and Highways has issued a draft notification which states that EVs will be exempt from paying registration fees.

The cost of electric vehicles and renewal of registration for the green vehicles is soon to get cheaper. The Ministry of Road Transport and Highways (MoRTH) has issued a draft notification, proposing to exempt Battery Operated Vehicles (BOV) from payment of fees for the purpose of issue or renewal of Registration Certificate (RC) and assignment of new registration mark.

The Draft notification was issued on May 27 and is open to comments from public and stake holders for 30 days.

The notification states: "Provided further that, for the Battery-Operated Vehicles as defined in rule 2(u); the items given at Sl. no. 4 of the below mentioned TABLE shall be exempted from the payment of fees for the purpose of issue or renewal of registration certificate and assignment of new registration mark." Rule 2(u) defines a Battery-Operated Vehicle as a "vehicle adapted for use upon roads and powered exclusively by an electric motor whose traction energy is supplied exclusively by traction battery installed in the vehicle" with certain exemptions.

[Read more>>](#)

### 6.7 Notifications issued by Ministry of Railways

- Misclassification of Goods as Works in procurement. [Read more](#)
- PPP-MII Order, 2017- Clarification regarding local content calculation for imported products. [Read more](#)

## 7. ICT

### 7.1 Telecom Department gives go-ahead for 5G Technology and Spectrum Trials

The Department of Telecommunications (DoT), Government of India, approved, permissions to Telecom Service Providers (TSPs) for conducting trials for use and applications of 5G technology. The applicant TSPs include Bharti Airtel Ltd., Reliance JioInfocomm Ltd., Vodafone Idea Ltd. and MTNL. These TSPs have tied up with original equipment manufacturers and technology providers which are Ericsson, Nokia, Samsung, and C-DOT. In addition, Reliance JioInfocomm Ltd. will also be conducting trials using its own indigenous technology.

The permissions have been given by DoT as per the priorities and technology partners identified by TSPs themselves. The experimental spectrum is being given in various bands which include the mid-band (3.2 GHz to 3.67 GHz), millimeter wave band (24.25 GHz to 28.5 GHz) and in Sub-Gigahertz band (700 GHz). TSPs will also be permitted to use their existing spectrum owned by them (800 MHz, 900 MHz, 1800 MHz, and 2500 MHz) for conduct of 5G trials.

The duration of the trials, at present, is for a period of 6 months. This includes a time of 2 months for procurement and setting up of the equipment. The permission letters specify that each TSP will have to conduct trials in rural and semi-urban settings also in addition to urban settings so that the benefit of 5G Technology proliferates across the country and is not confined only to urban areas.

The TSPs are encouraged to conduct trials using 5Gi technology in addition to the already known 5G Technology. It will be recalled that International Telecommunications Union (ITU) has also approved the 5Gi technology, which was advocated by India, as it facilitates much larger reach of the 5G towers and Radio networks. The 5Gi technology has been developed by IIT Madras, Centre of Excellence in Wireless Technology (CEWiT) and IIT Hyderabad.

The objectives of conducting 5G trials include testing 5G spectrum propagation characteristics especially in the Indian context; model tuning and evaluation of chosen equipment and vendors; testing of indigenous technology; testing of applications (such as tele-medicine, tele-education, augmented/ virtual reality, drone-based agricultural monitoring, etc.); and to test 5G phones and devices.

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### 7.2    India launches beta online portal for "trusted" telecom gear sources

The government has launched an online portal for telecom service providers (TSPs) and original equipment manufacturers (OEMs) to procure gear from "trusted sources" as identified by India's highest cybersecurity office, Mint reported on Monday citing an official source aware of the development. The beta portal, though, was expected to launch on April 15. It is currently accessible to only a few TSPs and OEMs, the publication added, without naming the companies.

The National Cyber Coordination Centre (NCSC) will launch the beta portal on April 15 and will notify the categories of gear for which the security code related to trusted sources is applicable. The online portal will also enable prospective gear makers to track the progress of approval of their applications.

The Department of Telecom last month asked telecom operators--Reliance Jio, Bharti Airtel, and Vodafone Idea to designate respective nodal officers to coordinate with the designated authority, NCSC, for the trusted sources directive, and share information on a designated portal regarding the company, the products they intend to connect to their network portal to ensure they fall into the 'trusted sources' category. In addition to gear makers, India will also scrutinize chipmakers such as Intel Inc., Qualcomm Technologies, MediaTek, among others for inclusion in the list of trusted sources.

Read More>>

### 7.3 Telcos, vendors seek NDA for protecting proprietary information on trusted Portal

Global network vendors and telcos have sought a non-disclosure agreement (NDA) from the government to protect all sensitive and proprietary information relating to telecom gear procurements that will be shared with the National Cyber Security Coordinator (NCSC) on the new trusted telecom portal.

In a recent letter to the National Cyber Security Coordinator (NCSC), telcos and vendors have also urgently sought clarity on specific steps the government plans to take to prevent any external actors from potentially hacking such proprietary information. Under a national security directive for the telecom industry, operators have been mandated to buy network gear only from trusted and authentic vendor sources and share details of all planned procurements on the government's trusted telecom portal that went live. The new portal will operate as a certifying window and telecom gear suppliers empanelled with the authority will be able to track the progress on approval of their applications.

Read More>>

### 7.4 Indian Telecom Standard Body Submits 6G Vision to UN Body ITU

Indian telecom standards body TSDSI has submitted a vision for 6G to UN body ITU Radiocommunication sector that finalizes global standard for wireless communications. Telecommunications Standards Development Society, India (TSDSI) in its submission said it should be a technology that aids the development of a ubiquitous intelligent mobile connected society, bridge the digital divide with affordability, support technologies for personalization and localization of services as well as focus on data protection management. In a document 'TSDSI submits 6G Vision to ITU-R', the body said that TSDSI is contributing towards the above IMT 2030 work.

TSDSI said that as part of its 6G journey, it will 'steer research in India to serve the above goals' and 'continue engagement with global standard bodies for harmonization of efforts'.
South Korean technology giant Samsung claimed to have achieved 50 times faster speed in 6G research compared to 5G.

A Samsung Electronics senior official during the company's presentation on new 5G transmission equipment, said it has achieved a speed of 5.23 gigabit per second (Gbps) on the 5G network.

According to a white paper from the company, Samsung expects that the completion of the 6G standard and its earliest commercialization could be as early as 2028, while mass commercialization may occur around 2030. At present, India has only 4G network and yet to see the rollout of 5G services.

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## 7.5 DoT extends network gear purchase restriction to Satellite Services

Companies providing satellite connectivity services through gateway set-up in India will have to install network equipment as recommended by the government, according to new norms issued by the Department of Telecom (DoT). At present, only BSNL has installed a satellite gateway through which it provides satellite-based communication services to authorised agencies like security forces, oil companies etc.

As per the new norms, National Cyber Security Coordinator (NCSC) will be the designated authority that can impose conditions for the procurement of telecom equipment on the grounds of "Defence of India" or matters directly related to national security. DoT had already announced similar restrictions on telecom operators as well as internet service providers last month.

Read More>>

## 7.6 Promote R&D-led Telecom Manufacturing Ecosystem instead of just Assembly

There is a need to promote research and development led telecom equipment manufacturing instead of just assembly-based production, a senior official of the Department of Telecom said. DoT Member (Technology) T K Paul said as per a WTO report on global supply chain, India's contribution is only 0.15 per cent in telecom equipment and 0.068 per cent for integrated circuits and components. This calls for design-driven manufacturing for 'Aatmabnirbharta' (self-reliance) in the telecom sector, he noted.

"Way forward is design-led manufacturing by leveraging indigenous software. R&D capabilities should be promoted instead of just assembly led manufacturing.

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## 7.7 Reports/White Papers/Recommendations and Consultation Papers

- MEITY has released guidelines for the Operation of Production Linked Incentive Scheme (PLI) for IT Hardware. Read more
- Telecom Engineering Centre (TEC) has released technical report titled "IoT/ICT Enablement in Smart Village and Agriculture". Read more/Download
- Supplementary Consultation Paper on Roadmap to Promote Broadband Connectivity and Enhanced Broadband Speed. Read more

# 8. Energy Efficiency & Circular Economy

## 8.1 MeitY formulates policy paper on circular economy to deal with e-waste

Aiming to deal with e-waste as part of the larger plan of the Indian government to encourage circular economy or ensuring zero to minimal wastage in the use of electronics and electrical sector, the Ministry of Electronics and Information Technology (MeitY) has formulated a policy paper that deals with these issues.

The paper, "Circular Economy in Electronics and Electrical Sector," was entrusted to MeitY by the Niti Aayog, and focuses on the life cycle of electronics including stages of raw material acquisition, design, manufacturing/production stage, consumption to end of life (e-waste) management, and secondary raw materials utilisation.

Circular economy as a concept has been gaining ground globally, International Telecommunication Union, World Economic Forum, the United Nations, and others stressing the need to ensure minimum wastage in the electrical and electronics sectors.

"India is the third largest consumers of raw materials produced globally and estimated to consume nearly 15 billion tonnes of material by 2030 with the current economic trends. Electronic and Electrical Equipment (EEE)-manufacturing is dependent on high material consumption with metals like iron, copper, silver, gold, aluminum, manganese, chromium and zinc along with various rare earth elements. The rate of extraction of these abiotic resources for EEE manufacturing is significantly higher than the rate of their formation in nature. CE approach will thus be imperative to fulfill the resource needs for the country," the policy paper noted.

The focus areas include 11 end-of-life products/recyclable materials/wastes that either continue to pose considerable challenges or are emerging as new challenge areas that must be addressed in a holistic manner. The paper covers the entire lifecycle of the products used in EEE manufacturing, and makes short-, medium- and long-term suggestions about CE.

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## 8.2 Committee on energy efficiency, low carbon technologies to be set up

Power and Renewable Energy Minister said a committee will be set up having members from all relevant Ministries for implementation of the Roadmap on Energy Efficiency and low carbon technologies.

Ministered chaired a high-level meeting to review the progress of various energy efficiency programmes and the preparedness for Climate Change Actions in the country through videoconferencing. The purpose of this high-level meeting was to discuss activities in the field of energy efficiency across all sectors of the economy with the objective of reducing CO2 emissions.

The Minister said a concerted push for renewables is already under way and a detailed action plan will be developed to identify potential areas. He said that a committee/group will be set up having members from all relevant Ministries for implementation of the Roadmap on Energy Efficiency and low carbon technologies.

Read More>

## 9. Planned Activities for Next Quarters

- Presentation of the SESEI IV Survey Results
- Preparation and submission of 1 sector specific Report
- End of Year financial closure & Regulatory Compliances
- Steering Committee #5 Meeting
- Follow-up & work on the India Taskforce/Priority workshop action points
- Participation in the important conferences and events
- Policy & NEWS Updates

## 10. Glossary

| Sr. No. | Acronym | Expansion |
|---------|---------|-----------|
| 1 | TRAI | Telecom Regulatory Authority of India |
| 2 | EV | Electric Vehicle |
| 3 | FAME | Faster Adoption and Manufacturing of (Hybrid) and Electric Vehicles |
| 4 | ETD | Electro-Technical Department |
| 5 | EEG | European Economic Group |
| 6 | LITD | Electronics and Information Technology Division Council |
| 7 | ICT | Information and Communication Technology |
| 8 | SSD | Service Sector Department |
| 9 | DoT | Department of Telecommunications |
| 10 | TEC | Telecom Engineering Centre |
| 11 | ETSI | European Telecommunications Standards Institute |
| 12 | SESEI | Seconded European Standardization Expert for India |
| 13 | WG | Working Group |
| 14 | C-V2X | Cellular Vehicle-to-Everything |
| 15 | IoT | Internet of Things |
| 16 | M2M | Machine to Machine |
| 17 | EU | European Union |
| 18 | ITU | International Telecommunication Union |
| 19 | SG | Study Group |

| 20 | EBG | European Business Group |
|----|-----|-------------------------|
| 21 | TSDSI | Telecommunications Standards Development Society India |
| 22 | AI | Artificial Intelligence |
| 23 | 5G | Fifth Generation |
| 24 | PWD | Person with Disability |
| 25 | BIF | Broadband India Forum |
| 26 | CEN | European Committee for Standardization |
| 27 | CENELEC | European Committee for Electro-technical Standardization |
| 28 | VLC | Visible Light Communication |
| 29 | LiFi | Light Fidelity |
| 30 | GISFI | Global ICT Standardization Forum for India |
| 31 | NCCS | National Centre for Communication Security |
| 32 | COAI | Cellular Operators Association of India |
| 33 | EC | European Commission |
| 34 | RDSO | Research Design & Standards Organization |
| 35 | GoI | Government of India |
| 36 | BIS | Bureau of Indian Standards |
| 37 | ICT RA | ICT Reference Architecture for Smart Cities |
| 38 | MoHUA | Ministry of Housing & Urban Affairs |
| 39 | MEITY | Ministry of Electronics and Information Technology |
| 40 | ASEAN | Association of SouthEast Asian Nations |
| 41 | R&D | Research & Development |
| 42 | MoP | Ministry of Power |
| 43 | MNRE | Ministry of New and Renewable Energy |
| 44 | ISGF | India Smart Grid Forum |
| 45 | MoU | Memorandum of Understanding |
| 46 | PLI | Production Linked Incentive |
| 47 | ACC | Advanced Chemistry Cell |
| 48 | MoRTH | Ministry of Road Transport and Highways |
| 49 | NCSC | National Cyber Security Coordinator |
| 50 | CE | Circular Economy |
| 51 | RE | Resource Efficiency |