SESEI | Seconded European Standardisation Expert in India

Enabling Europe-India Cooperation on Standards

Quarterly Report No. 13
Standards, Policy & Regulation
('July – September' 2022)

October 2022

SESEI IV– Dinesh Chand Sharma

Contents

1. Executive Summary

The quarterly report of the SESEI activities for the period of July to September 2022 is provided in this Quarterly report. BIS Training and Study visit to EU was one of the key highlights of this quarter. The BIS delegation comprising of twenty officials from various departments and regional offices of BIS visited EU to learn about the European Standardization System (ESS) and the main actors engaged in formulation of standards, conformity assessment and accreditation. This study cum training visit was organized by PROJECT SESEI under the ambit of the MoU signed between BIS and CEN CENELEC promoting the exchange of information, knowledge and sharing of best practices, thereby fostering closer cooperation, and further strengthening their relationship. The study visit was appreciated by BIS as well as the ESO's as a crucial step towards understating of the standards development process and future strategy.

During the ISO General Assembly at Abu Dhabi, a bilateral meeting between the high-level delegation of BIS and CEN CENELEC was held. The focus of the meeting was towards the need to increase cooperation around standardization between India and EU, strengthening the goals set by the political instruments, such as A Roadmap to 2025, Connectivity Partnership, the recently re-launched EU-India Free Trade Agreement etc. Both organizations have agreed to work on identifying topics of mutual interest to focus the development of a targeted action plan as soon as possible. SESEI will follow-up on this activity as a key priority.

BIS is currently engaged in framing the next version of the Standards National Action Plan (SNAP) in consultation with relevant stakeholders to obtain their insights and suggestions on how development of Indian Standards can be ensured with a clear understanding of national priorities, considering the needs of the economy, society, environment, and technology through an effective consultative process, and in a timely and efficient manner. SESEI as a member of MAIT (industry association) provided comments and suggestions towards the Standards National Action Plan 2022-27 which are in line with international harmonization of standards, setting up coordination group, strategic groups, promoting digitization, sustainability, and resource efficiency.

SESEI is currently engaged with the BIS Sectional committee **SSD 10/P-4/A-2** which has been constituted for formulating indigenous standard on Digital Signature. SESEI is the Co convener of this sub-sectional committee. SESEI supported the adoption of **ETSI TS 119 101,** and it has been agreed to convert the ETSI TS 119101 standard into IS-12 format and it has been circulated with the panel members. SESEI has shared copy of the draft Indigenous standard based on ETSI TS 119 101 with ETSI for suggestions/comments.

The inaugural launch for 5G commenced on October 1, 2022, only two out of the three private operators have commenced the initial launch of 5G services. 5G technologies are extremely crucial to the success of meeting the growing demands of IoT applications and devices. The TSDSI has also transposed 3GPP Rel. 17, which will be adopted by TEC as national standards shortly.

SESEI is strongly associated with the various TEC Working Groups on IoT and is contributing towards draft technical reports being prepared on how IoT can influence, assist, and aid Smart Grid, Smart Agriculture, etc. TEC is also in the process of finalizing the draft report on Security by design principles in M2M/IoT device manufacturing. During the meeting, inputs/comments received from the members were discussed.

During this quarter, SESEI participated in many events as key speaker / session moderator promoting the EU driven standards and technologies at every forum and meeting. The National Telecommunications Institute for Policy Research, Innovation & Training (NTIPRIT) invited SESEI to deliver a comprehensive overview of ETSI, its working, organizational set up etc.

A technical session on "5G for the Enterprise and Private Networks" was moderated by SESEI for the "5G Conference" organized by Voice & Data. During the session discussions were held on the strategy to be used by the operators for deployment of 5G networks in India, etc.

A presentation on "6G: Green Technology Evolution: EU policy measures and contribution of ICT Standards", was made by SESEI at the 39th GISFI standardization series meeting, providing updates on EU Policy measures around 6G, Green Deal – Circular Economy and how ICT Standards will play a key role achieving it.

A remarkably interesting virtual session on "ICT Accessibility - Policy, Implementation, Standards organized by Broadband India Forum. SESEI as the Co-chair of this committee moderated the the technical session on "Challenges around implementation of accessibility policy and standards in India". It is important to note that SESEI engaged with BIS, MeitY, CDAC, etc. for adoption of EN 301549 for the ICT Accessibility for inclusivity for the Persons with disabilities. Through the BIF Committee, SESEI is extensively working on the effective implementation of these standards and related policies.

SESEI is also actively advocating the standards for Circular Economy and resource efficiency. At the 23rd Virtual Quality Conclave on E-waste Management Quality Strategies organized by QCI, SESEI was invited as one of the key speakers and gave a presentation on European/International Standards & Policies around e-Waste/Circular Economy.

Post the BIS Training and Study trip, SESEI received a lot of queries from the BIS officials, especially concerning the EU standards and strategy. SESEI provided updates and information on EU Food regulations and standards, Lights, Electrical Equipment, Lifts & Escalator, Policy, and Legislation related work around Cloud & Edge computing in Europe, Annual Union Program for EU standardization 2022 and Standardization Strategy, etc.

As conveyed earlier, the EISMEA/ETSI has approved the extension of SESEI IV till February 2023 and the regulatory, financial, and legal compliances for the Liaison Office extension have also been conducted and completed.

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

Assuring you of my best!!!

Warm regards,

Dinesh Chand Sharma
(Seconded European Standardization Expert in India)

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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 July till 30th September 2022. 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 (July to Sept 2022)
1	External Meetings	456	42
2	Internal Meetings	95	5
3	Events/Seminar/Workshop/Roundtable	426	24
	Total	**977**	**71**
4	No of Queries	114	11

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

Key Meetings:

Following is the list of few key meetings, SESEI expert addressed during the last quarter (July to September 2022).

Meetings with BIS:

Generic:

- **BIS Delegation Meeting and Study sessions at ETSI:** As part of the BIS Study visit, a session with ETSI was organized for the BIS officials at the ETSI Premises at Sophia Antipolis, France. The main aim of the session was to provide the BIS with an understanding of the ICT/IT standardization work / efforts being done by ETSI and its members. The main presenters of the study sessions were Ms. Margot Dor, Mr. Xavier Peidnoir, Ms. Laure Pourcin, Ms. Sonia Compans.
  - ETSI during the study session provided update on Standards & policies activities around, Smart Cities Encounter with SmartM2M leadership, CTI (Centre for Testing & Interoperability), ITS, Quantum Technologies, Digital Signature, Human Factor (Accessibility) - EN 301 549, Cyber Security, Safety (EMC/EMI)
  - The study topics and sessions were appreciated by BIS Officials and a lot of interesting engagements and interactions were held between BIS and ETSI.

- **BIS Delegation Meeting and study session at AFNOR:** The last leg of the BIS study tour was held at AFNOR office. The study tour was designed to provide a comprehensive overview of the European Standardization System, standards formulation process to the BIS delegates.

- As part of the agenda, AFNOR the French Standardization Body provided an overview of their Work Program, Standardization Strategy, working with CEN-CENELEC, ETSI, ISO, IEC.

- **Meeting with the International Relations Department of BIS**.: SESEI held a meeting with IRD officials. SESEI met with the IRD officials from the BIS to discuss the possibility of bilateral meetings between BIS and CEN-CENELC on the sides of the ISO General assembly scheduled to be held in September at Dubai, UAE.

- **Stakeholder Discussion of Electronics and IT Sector for Standards National Action Plan 2022-27:** BIS organized a meeting with the stakeholders of the Electronics and IT sector. BIS has initiated the task of framing the next version of the Standards National Action Plan in consultation with relevant stakeholders to obtain their insights and suggestions on how development of Indian Standards can be ensured with a clear understanding of national priorities, considering the needs of the economy, society, environment, and technology through an effective consultative process, and in a timely and efficient manner. In this regard a series of consultations with various sectoral stakeholder groups is being proposed.
  - An update on SNAP 2019-22 was presented along with presentation by Industry Associations on what they seek from the SNAP following and Open House for Discussion Industry representatives and BIS. SESEI expert attended the meeting and provided his views/inputs to the proposed Standards National Action Plan 2022-27.

Services:

- **First Panel Meeting of the BIS Digital Signature, SSD 10/P-4/A-2.1:** This Panel has been constituted to discuss the plan and way ahead for formulating indigenous standard on Digital Signature. In the meeting, the panel requested the member secretary to convert **ETSI TS 119 101 into IS 12 format of BIS** and subsequently share with the panel members for their review and further perusal. Accordingly, the work has been done and the document of ETSI TS 119 101 as per IS 12 of BIS.SESEI has shared copy of the draft Indian standard based on ETSI TS 119 101 with ETSI for perusal and suggestions if any.

- **In the second meeting of the BIS Digital Signature, SSD 10/P 4/A-2.2:** Mr. Dinesh Chand Sharma, SESEI (co-convenor) convened the meeting. During the meeting it was highlighted that.
  - The ETSI TS 119101 standard has been converted into IS 12 format and circulated with the panel members. The updated document with suggestions and comments received was discussed and again circulated for further comments.
  - Further, it was decided to share the Indian Standard IS 17802 (Part 1): 2021 'Accessibility for the ICT Products and Services Part 1 Requirements' with the panel members for their information
  - In the **Third Panel Meeting of Digital Signature, SSD 10/P-4:** BIS SSD-II 10: Discussion on the drafting the Working Draft on Digital Signatures was held about Issuance, Creation and Validation. The draft document on Digital Signatures – Issuance, Creation and Validation after incorporating decisions taken in the last meeting was circulated for further review and finalization.

- **Sixth Working Group Meeting of Cloud Services, SSD 10/WG-1/A-2.6: BIS SSD-II 10:** Sectional committee approved the working group recommendation of formulating indigenous standard on cloud disaster recovery services. This working group have reviewed the most of ISO/IEC JTC1/SC 38 standards and recommended many of them for adoption as Indian Standards to the sectional committee, SSD 10. Now, the sectional committee has given the task formulating indigenous standard on cloud disaster recovery services and he also requested the members for their active participation in drafting the standard on cloud disaster recovery services.

  - The tentative title decided by the group was Cloud Service Provider Disaster Recovery Requirements – Guidelines and requested the member secretary to register the title in the BIS portal. Meity documents related to cloud disaster recovery and IS/ISO 22301 standard to be shared with the working group members for their review. The work to review the existing standards on cloud disaster recovery related to ISO, IEC, or any other standardization bodies. SESEI to provide any existing body of knowledge on cloud disaster recovery and present it in the next meeting.

- **BIS Seventh Working Group Meeting of Cloud Services, SSD 10/WG-1/A-2.7:** Meeting to discuss the formulation and/or adoption of standard for cloud disaster recovery. Discussion on Meity documents related to cloud disaster recovery and IS/ISO 22301 standard, drafting the Working Draft on Cloud Disaster Recovery Services.

  - During the meeting, members suggested including the sub clause Impact Analysis and Evaluation of DR outcome/results in the draft structure. As the structure of working draft is prepared by taking the Meity document as a reference document. The working group suggested the member secretary fill in the content of the relevant clauses from the Meity document and discussions can be taken up for further improvement in the next meeting.

Electrical and Electronics:

- **Joint meeting of Secondary Cells and Batteries Sectional Committee, ETD 11, and Electrical Energy Storage Systems Sectional Committee.** An online joint meeting of Secondary Cells and Batteries Sectional Committee, ETD 11 and Electrical Energy Storage Systems Sectional Committee, ETD 52 was held to:
  - Revision of Indian Standards on Lithium/Nickel system cells & Batteries to review the ambient conditions, acceptance criteria, and performance requirements specified.
  - Formulation of Standards on New Battery Technologies such as Sodium-ion batteries, Solid State batteries, Aluminum air batteries, Lithium-sulfur batteries, etc.
  - Review of Marking requirements for cells and batteries, need for an accelerated test method for life test, Standard on BMS for batteries for Portable applications, EV applications as the present standard are applicable only for stationary applications, Smart Battery, and Identification of new subject for Standard formulation under the scope of ETD 11 & ETD 52.

ICT:

- **LITD 34 - Smart Manufacturing Sectional committee - Meeting 3:** LITD 34/P1 Smart Manufacturing Use case group: the panel is aiming to develop a standard on the template for use cases which will help the stakeholders analyze the user needs analyze existing Standards, conformity assessments, platforms for Smart Manufacturing, and various activities going on Smart manufacturing in India

- **LITD 28 Smart Infrastructure Sectional Committee - Meeting 25**: The main highlights of the 25th meeting of LITD 28. The panel conveners updated the committee about the progress of work along with any other work items identified. Standards published by ISO/IEC Committees: The standards published by the ISO/IEC Committees were listed for perusal and discussion
  - IEC 63152:2020 Smart cities - City service continuity against disasters - The role of the electrical supply
  - IEC SRD 63188:2022 Smart Cities Reference Architecture Methodology (SCRAM)
  - IEC SRD 63233-1:2022 Smart city standards inventory and mapping - Part 1: Methodology
  - IEC SRD 63235:2021 Smart city system - Methodology for concepts building
  - IEC SRD 63235:2021 Smart city system -Methodology for concepts building

  The committee may review and identify standards suitable for adoption as Indian standards

Meetings with DoT/TEC and other government bodies:

ICT:

- **Virtual meetings of the TEC Working group on IoT and 5G Use:** TEC has been organizing regular meetings of Working group on IoT and 5G Use cases in Agriculture. The main aim of this working group is to prepare a report on how IoT and 5G will help in Smart Agriculture. The report will highlight all the used cases on Smart Agriculture with the help of IoT and 5G technology / applications.
  - Draft report on the IoT and 5G technologies for Smart Agriculture along with the comments received was discussed during the meeting.
  - ITU-T-SG-20 approved template to be used for writing the used case, use case template circulated to all members; and submit their inputs/ contributions on the use cases related to agriculture, for incorporating it in the draft report.
  - DDG IoT requested members to present their thoughts about the use cases related with agriculture sector such as smart open field, drone applications, connected agricultural machinery, smart green house, precision agriculture, live-stock farming, etc.

- **Virtual meeting of TEC working group on IoT and 5G applications in Smart Grid:** TEC is in the process of drafting a document on the IoT and 5G Applications and the used cases in the field of Smart Grid. The Working Group is meeting regularly to update and finalize the draft document. During the meeting of the TEC Working Group on IoT and 5G applications in Smart Grid the following key issues were discussed and noted:

- Smart5Grid_D2.1-Elaboration-of-Ucs-and-System Requirement-analysis_V1.0 and ETSI Smart grid use cases were circulated to all members for perusal, refinement of 5G used cases, Security aspect in Smart5 Grid have been added to the document
- Draft document is still under discussion for finalization of the same.
- The used cases and presentations covering various verticals of the Power and Electricity sector was made by various members in the field of 5G powering Digitalization of Electricity Grid: Use Cases from Adani Power, 5G Use-case in Power Sector by Deloitte, Ericsson Dedicated Networks for Energy Plants, 5G powered Utilities Transformation use cases for Power Sector: by Infosys Limited, Asset Management Platform – RIPE FOR MORE DATA: By Intertek

- **TEC 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".** Document on Code of Practice for Securing Consumer IoT and Framework of National Trust Centre for M2M/IoT devices and Applications have already been released. These documents are part of the present draft document on Security by Design Principles. The Working Group discussed the draft document and the changes made for further improvement of the draft document. It suggested that TEC Technical report should be refined and made more concise, work conducted by BIS in IoT domain added, ITU Recommendations added by including X.509, Addition on National Critical Information Infrastructure Protection Centre (NCIIPC).

- **Virtual meeting of Working Group (WG) on "SBD and NTC" for discussion on draft document on Security by Design principles in M2M/IoT device manufacturing:** TEC organized the virtual meeting of the Working Group (WG) on "SBD and NTC" for discussion of draft document on Security by Design principles in M2M/IoT device manufacturing. TEC is in the process of finalizing the draft report on Security by design principles in M2M/IoT device manufacturing. During the meeting, inputs/comments received from the members were discussed.

- **TEC Open House Session with stakeholders on the accreditation of Labs for testing of CAS and SMS.** TEC has organized an Open House Session through videoconferencing under the chair of Sr. DDG & Head, TEC with Labs, Multiple system operators (MSO), Broadcasters, TRAI, BIS, concerned Government departments and other stakeholders for consultation and discussion on finalization of process for accreditation of Labs and setting of Labs for testing of CAS and SMS. Telecom Regulatory Authority of India (TRAI) has designated Telecommunication Engineering Centre (TEC) as a Testing and Certification Agency for Conditional Access System (CAS) and Subscriber Management System (SMS). TEC has invited proposals for accreditation of Labs for testing of CAS & SMS. Accordingly, after detailed stakeholder consultations, TEC has prepared the Test Guides for CAS and SMS. These test guides were circulated to all members and the same was discussed and opinions were invited during the Open House Session.

- **Meeting of TEC National Working Group 16 (NWG-16):** The National Working Group 16(NWG-16) corresponds to the ITU-T Study Group 16, "Multimedia and related digital technologies" was constituted on 14.06.2022. Director IT convened the meeting of the NWG-

16, TEC and he appraised the members on the constitution and responsibility of NWG-16, the roadmap to contribution, important links of ITU-T and questions under study in Study Group 16. During the meeting, members selected four questions (Q5/16, Q8/16, Q13/16, and Q27/16) for contributions. Members were requested to register for online participation in the ITU-T meeting scheduled to be held on 17th and 28th October 2022.

- **MeitY Meeting reg. Incorporation of NavIC in Position, Navigation and Timing (PNT) applications in India:** MAIT as one of the important representatives of the stakeholders was invited to deliberate upon the subject matter. In this regard a meeting was scheduled under the Chairmanship of Joint Secretary (Electronics), MeitY. Department of Telecommunications (DoT), Ministry of Communications had discussed the subject matter (Incorporation of NavIC in Position, Navigation and Timing (PNT) applications in India) with the industry stakeholders. In this connection, Samsung, ICEA and COAI raised some queries during the meeting with the DoT. SESEI as a member of MAIT was invited to participate in the deliberations and provide his comments on the queries posted by some of the key stakeholders regarding implementation of NaviC in the mobile phone handsets being marketed in India

Meetings with Industry & Associations:

ICT:

- **Discussion meeting with Mr. Zamir Dhale, panelist for the BIF Organized on "ICT Accessibility - Policy, Implementation, Standards.** Mr. Zamir Dhale is a person with deaf blindness' and is the founder of the Society for The Empowerment of The Deaf-Blind (SEDB) India; the first trust run by deafblind people in India. SESEI interacted with Mr. Zamir Dhale for the upcoming Conference on "ICT Accessibility - Policy, Implementation, Standards organized by Broadband India Forum. Mr. Dhale is one of the panelists in the technical session moderated by SESEI as the Co-Chair of the BIF's Committee on 'ICT for Inclusive Ability (PwDs. Mr. Djale and his interpreter discussed with SESEI the proposed questions and flow of the panel. He provided details on the key solutions and recommendations as proposed by Society for The Empowerment of The Deaf-Blind (SEDB)

- **Meeting of the BIF's Committee on ICT for Inclusive Ability (PwDs) ICT:** SESEI is the Co-Chair of the BIF's Committee on ICT for Inclusive Ability (PwDs): The main agenda of the meeting was update on the virtual session on ICT Accessibility – Policy, Standards & Implementation, and status on the action items from the session. Discussion and review of the work plan for the year as the Hackathon which was part of the Work Plan has been moved to be done later. Status on the proposed Study report by DEF on 'How digital enablement works, impacts, and builds independence, confidence, response, and resilience amongst people with disability and research study on uncovering global funding models for Development and Deployment of Assistive Technologies for PwDs by Saksha.

- **Meetings of the DECT Forum: India Working Group:** Two meetings of the Forum were held, following agenda points were discussed during the meetings:

- Need for revival process of DECT Forum India, perspective of SESEI on the new DFI initiatives, current DECT products in India by WG members & their operating frequencies. Any scope in DECT band other than 1880~1900MHz?
- How to take things forward for the DECT technology in India
- WG members to share data on business cases like DECT products, their use cases/applications, current & future market size, technical advancements etc.
- DECT 5G possibilities in India based on the four types of captive non-public networks (as per DoT guideline shared by SESEI expert.
- Smart metering Indian standard amendment request letter by ETSI to be shared with the Forum
- Important update on Tamil Nadu govt. being interested in a pilot project on smart metering using DECT

- **Meeting with Dr Rishi Bhatnagar, Chair, IET Future Tech Panel regarding IET Future Tech Congress:** IET - Institution of Engineering and Technology, organized a session with Dr Rishi Bhatnagar for the Chairs and Co-Chairs to discuss the IET Future Tech Congress. IET wants to hold a one-of-a-kind, tech-first event which will bring together multiple stakeholders to address the challenges and opportunities being created by emerging technologies and decode tomorrow's customer demands on 22nd and 23rd of November 2022 in Bengaluru.

- **MAIT organized a meeting for formulation of Task Force under Mr. Vivek Vats on Right to Repair and Standardization of Charging Ports:** MAIT organized the first meeting of Task Force on Right to Repair and Common Charging Ports. The quick agenda for the meeting was Formulation of Task Force which shall be working on the issues of "Right to Repair" and "Common Charging Ports" led by Mr. Vivek Vats, HPI. Periodicity of the Task Force for apprising all members on the developments/MAIT stance on these matters

Energy Efficiency & Circular Economy:

- **Industry Discussion organized by MAIT on Battery Waste Management Rules 2022:** MAIT organized a meeting to discuss the issues related to "Battery Waste Management Rules 2022 " released by Ministry of Environment, Forest, and Climate Change (MoEF&CC). It was iterated in the meeting that there are many ambiguities present in the notification. Based on the discussion during the meeting, MAIT has called out a few of the industry issues and requested industry members to find out the issues related to the current notification.
1. The notification overlaps with the E-waste Management rules. MoEF&CC to clarify the applicability of both the rules.
2. The BWMR 2022 does not include anything related to non-rechargeable batteries.
3. Ambiguity in Rule 4.14, which states- Producer shall have the obligation with respect to the minimum use of domestically recycled materials in new Battery. The assessment of the minimum use of the recycled materials in Battery shall be in respect of the total dry weight of Battery. In the case of imported Battery, the Producer shall have to meet the obligation of the minimum use by way of getting such quantity of recycled materials utilized by other businesses or by way of exporting such quantity of recycled materials.

4. According to the Industry, there is an error in the Schedule I - Prohibitions and Labelling Requirements, point one. (ii) Battery that contains up to 0.002% (2000 ppm) of cadmium by weight may only be placed. Instead of 2000 ppm, it should be 20,000 ppm.

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

Generic:

- **Meeting with officials from EU Delegation to India:** SESEI had a meeting with Mr. Chaitanya Kaushal from EU Delegation to India to discuss about the project progress. In the meeting, SESEI discussed about, adoption of oneM2M and Code of Practice as National Standard by TEC, BIS adoption of Accessibility and IOT RA as National Standards, success and feedback received for the BIS study tour, SESEI extension and proposal for phase V, TEC interest to set up oneM2M Lab and how it can be addressed appropriately through EU-INDIA ICT project, update on the proposed Indo-German workshops. During the meeting proposed visit of the Indian delegation for participating in the ETSI Conference on Security and M2M in October 2022.

- **Meeting with Mr. Benoit Sauveroche, Counsellor EU Delegation to India:** SESEI held a meeting with the Mr. Benoit Sauveroche, Counsellor, EU Delegation to India. During the meeting SESEI exchanged details on BIS Delegation visit to EU as part of the study tour, important meetings held during the BIS study tour, Impact of the BIS study tour and the feedback received from the project partners & BIS and next deliverables and milestones of SESEI in context with BIS.

- **Conference call meeting with Mr. Arun Mukarji from the EU -India ICT Project Instrument**. The meeting was held to discuss the invitation and participation of the TEC and other important Indian delegation to attend the ETSI IoT and Security Week to be held in October 2022 at ETSI Premises, Sophia Antipolis, the scope for oneM2M testing & Certification lab for TEC.

- **Meetings of the Preparatory Group for the proposed hybrid online seminar/ workshop on Circular Economy Standards - Ecolabeling & Eco Design**: Following the success of the webinar on resource efficiency jointly organized by EU-REI, SESEI, CEN CENELEC, BIS and ECOS. It was proposed by ECOS that another focused webinar on ECO -Design and Eco Label should be organized between India and EU. As a major priority area, SESEI is working as the main coordinator for this webinar. Weekly meetings with the preparatory committee will be held until the webinar for organizing the webinar/ conference successfully. During these meetings the agenda, speakers, logistics and other details for the workshop are discussed, updated and action is taken.

Meetings with Project Partners:

Generic:

- **SESEI-V and Other Updates:** Meeting of the Steering Committee Members was organized to discuss and understand the status update on the SESEI V some of the key details are as below:
  - Decision on Funding, Timelines for call of Tender by EISMEA, time taken for closure of contract, etc.
  - Next SC# Meeting: Physical meetings and schedule, possibility to meet EC officer, how SESEI can help in furthering of the EU-INDIA FTA, Trade and Technology Council (TTC) and/or A Roadmap to 2025.
  - Upcoming Webinar on ECO design & Labeling: Need to identify speakers from EC & CEN CENELEC.

- **Periodic Conference call meetings with Eric Marchand CEN-CENELEC:** SESEI regularly schedules conference call meetings with Eric Marchand CEN CENELEC to discuss the status and update on the SESEI action items and deliverables. Some of the key items discussed during this quarter were, BIS Study tour observations, feedback, and next steps forward, Status update on License Agreement submission to BIS and, ISO GA Bilateral meeting.

- **Travel to Dubai by SESEI for participation in the ISO General Assembly:** SESEI travelled to Dubai for participation in the ISO General Assembly and to coordinate the CEN CENELEC and BIS Bilateral meeting. The main discussions and highlights of the meeting were:
  1. Both parties agreed to identify key areas of focus and develop a targeted action plan that will include Joint Webinars, Technical Workshops, Joint Working Groups, Study Tours, and Trainings. Areas identified are - Security, Climate Change, Clean Energy, ICT, Transport, Green Deal, Resource Efficiency, Circular Economy, Clean Tech, Renewables, Artificial Intelligence, Research & Innovation, RAIL
  2. Signing of the Framework License Agreement and its timely closure for CEN and CENELEC for easier access of EN Standards for their study and adoption by BIS
  3. BIS to explore with the CEN and CENELEC members to support the ballot ISO/TS/P306 - TC on Ayush Systems as proposed by India

Key Event Participations:

SESEI expert participated in following events either to understand the ongoing latest activities around Priority Topics in India or present/share EU updates.

Generic:

- **CEN-CENELEC Webinar on " New Internal Regulations Part 3:2022, updates on Drafting Rules and Technical Report & Simple Template Updates" Confirmation:** This webinar was held to guide the standards maker through a comprehensive presentation of the updates in the new 2022 edition of the Internal Regulations Part 3 and provided specific information with regards to the drafting of a Technical Report, key elements to be considered in the drafting of documents, and an overview of the updated Simple Templates.

- **Virtual International Conference on Standard Essential Patents & FRAND Licensing:** IPETHICON Educational Academy organized a Virtual International Conference on Standard

Essential Patents & FRAND Licensing. Ms Pamela Kumar, DG TSDSI, shared her views along with other International Experts in a Panel Discussion on "Global Jurisprudence on SEP. The discussion clarified common aspects relating to SEP's such as the interplay of R&D efforts, essentiality, declarations, working of SSO, licensing aspects etc. Standard-essential patents (SEPs) and their licensing under fair, reasonable, and non-discriminatory (FRAND) terms have been debated widely internationally and more recently also within India. SESEI attended the webinar to gain knowledge about the basics of this topic, landmark judgments and developments related to this topic.

- **CII Diagnostics Summit 2022- Digital Diagnostics Shaping the Future of Healthcare:** The CII Delhi Diagnostics Summit 2022 brought together all stakeholders, experts, and Industry Stalwarts to discuss on new horizons in the diagnostics sector with Digital Diagnostics at it center. SESEI attended the event to gain knowledge on what is happening in the health sector.

ICT:

- **Presentation on ETSI and its standardization activities at NTIPRIT Training Centre:** NTIPRIT National Telecommunications Institute for Policy Research, Innovation & Training (NTIPRIT) invited SESEI to deliver a presentation on the Organizational Setup, Functions and Secretariat working of ETSI. SESEI made a presentation on the overview of ETSI covering, membership, Standards formulation and engagement with the industry, Benefits of standards and emerging technologies being standardized by ETSI.

- **Plenary panel discussion on "5G – The Indian Journey on Standards & Innovation" at the 5G India 2022 International Conference organized by** Broadband India Forum along with Bharat Exhibitions. SESEI was invited as an esteemed panelist for the technical session on: 5G – The Indian Journey on Standards & Innovation. The session was moderated by Shri Y.G.S.C. Kishore Babu, DDG (S.R.I), Department of Telecommunications, Ministry of Communications. SESEI, took this opportunity to share his knowledge and information on 5G technology, 5GPP standards and release 17 and 18. Security standards, especially the world's first standard on IoT released by ETSI, evolution of 5G and 6G technology in India. Need for India to participate in the standards formulation at a global level.

- **EBG webinar on Protecting Data with Privacy Principles:** EBG organized a webinar on Data Privacy inviting Legal firms to put forth their opinion and knowledge on the data privacy laws and requirements to bridge the gap. During the Q&A session SESEI shared updates around the Data Privacy Law in India and how startups such as Igrant.io are addressing the key element of consumer Privacy.

- **39th GISFI STANDARDIZATION SERIES MEETING (39th GSSM) at the ITS College:** SESEI was invited as the speaker by the GISFI at the 39th GISFI Standardization Series Meeting. The main theme of SESEI's presentation was "6G: Green Technology Evolution: EU policy measures and contribution of ICT Standards". In the presentation SESEI provided updates on EU Policy measures around 6G, Green Deal – Circular Economy and how ICT Standards will play a key role in achieving it.

- **Virtual session on "ICT Accessibility - Policy, Implementation, Standards organized by Broadband India Forum:** SESEI as the Co-Chair of the BIF's Committee on 'ICT for Inclusive Ability (PwDs) was invited to moderate the technical session on "Challenges around implementation of accessibility policy and standards in India". India has adopted standards for the ICT Accessibility for inclusivity for the Persons with disabilities. While the standards have been adopted effective implementation of these standards and policies is the next step. The technical session moderated by SESEI focused on this especially prominent issue to discuss "Challenges around implementation of accessibility policy and standards in India."

- **Voice&Data organized the 5G Conference under the Telecom Leadership Forum:** "SESEI was invited to moderate the session on "5G for the Enterprise and Private Networks". The points of discussion during the session were on what is the strategy the operators will deploy to upgrade the capacity of existing 4G networks or acquire additional spectrum? Current 4G networks can allow elements of 5G technology to be built on their networks. Can the existing capacity be leveraged? How do operators intend to meet the demands of the roll out and effectively create use cases, what role does the infrastructure play in meeting the capacity demands?

- **CDAC Brainstorming Session on "Testing and Evaluation of Quantum Technologies: Need and Approach":** CDAC organized an online brainstorming to have a focused discussion on the need for National level initiative and approach for testing and evaluation of Quantum Technologies. SESEI was invited by TSDSI to attend this online Brainstorming session. Considering the entire ecosystem and growing market demand, for Quantum technologies, this may be an appropriate time for India to jump start early and gear up to empower towards T&E of such complex systems. Such an early effort can be pursued in a collaborative way along with the Industry, Academia, R&D organization, and Standard Development Organization (SDO). This shall position India strongly in the area leading to innovation and development of trustworthy systems.

- **Grand Finale of BIF Connectivity Accelerator (BIFCA) program:** To conclude the PM WANI Accelerator program initiated by Broadband India Forum (BIFCA) in partnership with Meta India and Head start Foundation held a grand finale on 17th August 2022.

- **Interactive Session with Mr. Dinis Guarda, organized by EBTC:** A closed-door discussion with select thought leaders on emerging topics in the Europe-India Business Corridor like Web 3.0, Metaverse, AI, Blockchain etc. was organized by EBTC. The discussion was led by Mr. Dinis Guarda.

- **oneM2M @10 – "Progress and Prospects for global IoT Standardization":** Bright talk, webinars organized a conversation with oneM2M Leaders to recount the 10 years journey of oneM2M and future directions. In this webinar, oneM2M experts discussed the need for open IoT standards and the motivations for creating oneM2M as a global initiative. They also described key capabilities offered to IoT users and standardization milestones over oneM2M's ten-year journey. Emerging industry requirements in areas related to IoT security,

- **National Workshop on Spectrum and Regulatory Issues in Preparations for WRC-23:** ITU-APT Foundation of India, hosted a national workshop on preparation for next year's WRC-23 for various satellite related agenda items. In addition, the event also focused on how to maximize the potential of satellite broadband in India, and the way forward on related regulatory issues. All spectrum allocation discussions for the satellites are within the ambit of the ITU and that provides a regulatory certainty for the industry to grow and flourish.

Smart Cities:

- **Smart Cities and Intelligent Mobility India 2022 organized by Bharat Exhibitions:** Technical session on "A Deep Dive into the Future of Mobility and Smart Cities with 5G" was moderated by SESEI in the eighth edition of Smart Cities & Intelligent Mobility India 2022 as "Distinguished Moderator". SESEI took this opportunity to share policy initiatives and standardization work around Smart city and Smart mobility (ITS) in India and Europe. The presentation also highlighted the role of standards in smart cities and Intelligent Transport and Smart Mobility. Some of the key panelists during the session were from Niti Aayog, DIMTS, Reliance Jio, Gaia Smart Cities, Indus Towers, etc.

- **Award Ceremony for the Smart Solutions Challenge & Inclusive Cities Awards:** SESEI in recognition of his work for advancing the rights of persons with disabilities in India, was invited by NIUA and UN India to acknowledge and recognize the individuals, organizations and cities who have done exemplary work towards the cause of accessibility and inclusion for ensuring a life of equality and dignity for persons with disabilities, women and girls, and the elderly, at the occasion of the Smart Solutions Challenge and Inclusive Cities Awards.

Mobility:

- **E-launch of GIZ's Report-3 on EV Charging Infrastructure and its Grid Integration.** GIZ along with IIT Bombay organized the e-launch event of the third report "Electric Vehicle Charging Infrastructure and its Grid Integration in India: Status Quo, Critical Analysis and Way Forward." This specific report, focused on a detailed analysis and documentation of EV charging infrastructure and its grid integration in Indian EV ecosystem covering the status analysis of various aspects including EV charging technology, standards, and protocols applicable in India, grid integration status of EVs, stakeholders in Indian EV ecosystem, policy and regulatory matters related to EV charging infrastructure. Gap analysis in EV charging infrastructure and its grid integration in Indian EV ecosystem is also presented in this report.

- **Masterclass on standards for EV' organized by ULSE and IESA for ETD 11 and ETD 52 sectional committee members:** IESA in association with Underwriters Laboratories Inc. organized a Masterclass Series on Safety and Standards of Energy Storage Systems for the ETD sectional committees of BIS. As we scale up production and usage of energy storage systems, it is critical to establish, understand and follow standards and safety precautions to

avoid future predicaments. Masterclass Series on Safety and Standards of Energy Storage Systems helped participants understand different ESS standards and their implementation.

Electrical & Consumer Electronics:

- **'Interaction with Standards Community' Workshop:** BIS organized an 'Interaction with Standards Community' to enable the relevant stakeholders (such as Industry, Academia, Laboratory, Consumers, participating experts under IEC, etc.) to interact directly with Mr. Philippe Metzger, Secretary-General & CEO, IEC and put forward their perspectives. SESEI is a member of MAIT and was invited by them to participate and interact in the BIS conference and share his views and concerns related to adoption of global standards, conformity assessment and administers third party Conformity Assessment (CA) Systems.

- **Workshop on "Cyber Security challenges - Global Experience":** PES India Chapters Council (PICC) in association with Power Grid Corporation of India Limited organized a workshop on "Cyber Security challenges - Global Experience" focused on the Power Sector. The electrical power infrastructure is an extremely large cyber-physical system. The experts shared their experience in the challenges faced by the power sector globally.

- **Discussion on Third Round of PLI for Large Scale Electronic Manufacturers:** MAIT held a meeting of the concerned stakeholders to seek their inputs on the Third Round of PLI for Large Scale Electronic Manufacturers. MeitY is considering the Third round of Production Linked Incentive Scheme for Large Scale Electronics Manufacturing. MAIT has observed that while the earlier two rounds were focused on finished goods (mobiles) and certain Specific Electronics Components, the third round might be exclusively for components.

Energy Efficiency incl. Circular Economy:

- **23rd Virtual Quality Conclave on E-waste Management Quality Strategies for driving towards Circular Economy by QCI**: The conclave aims to discuss Standards & Guidelines to tackle e-waste in India & achieve a Resilient Circular Economy. SESEI expert participated in the 23rd Virtual Quality Conclave on E-waste Management Quality Strategies for driving towards Circular Economy, as a key speaker and gave a presentation on European/International Standards & Policies around e-Waste/Circular Economy.

- **Relevance of Quality Infrastructure (QI) for Circular Economy:** SESEI expert was invited to attend "Indo-German Expert Exchange on Circular Economy" organized by The Indo-German Working Group on Quality Infrastructure This forum provides an interactive platform for bilateral exchange between ministries, standards bodies, and the industry on various standardization topics. The main topic discussed was how does standardization support digital and green transformation as well as innovation processes? And what common viewpoints can India and Germany develop on standardization at international level?

- **Managing Climate Change: A Strategy for India:** The webinar, titled "Managing Climate Change: A Strategy for India?" was held to discuss the paper of the same name co-authored

by Montek Singh Ahluwalia, former Deputy Chairman of Planning Commission of India and Utkarsh Patel, Associate Fellow at Centre for Social and Economic Progress. The paper highlights the broad areas which need to be addressed for India to reduce emissions. These include increasing energy efficiency, a greater thrust on electrification, shifting power generation from fossil fuels, expanding afforestation, and developing carbon capture utilization and storage (CCUS) technologies.

- **Release of ICEF2022 report by India Circular Economy Forum:** A report on key policy recommendation and action plan was released. Large economies, such as the EU and India, have a key role to play in the global transition towards a circular economy and a lot to gain from stronger business cooperation and aligned legislation. The event represented an opportunity to identify, highlight, and celebrate circular initiatives in India across different focus sectors.

- I**nternational Conference on Circular Economy – Green Energy (ICCE-GE) 2022:** Renewable Energy Society of India (RESI) & Chandradeep Solar Research Institute (CDSRI) organized an International Conference on Circular Economy – Green Energy (ICCE-GE) 2022. To create awareness on the Circular Economy and Resource Efficiency in the industry and participants.

Key Queries:

Generic:

- Annual Union Program for EU standardization 2022 and Standardization Strategy: **Bureau of Indian Standards (BIS)**
- Information on Current and Ongoing Project & Political instruments available between EU and India for cooperation in many areas/ sectors: **Bureau of Indian Standards (BIS)**
- Provided inputs to Standards National Action Plan (SNAP 2022-27) which is being prepared by Bureau of Indian Standards (BIS): **Manufacturers Association of Information Technology (MAIT)**
- Provided information regarding EU Food regulations and standards: **Bureau of Indian Standards (BIS)**

ICT:

- Provided inputs to DoT's Consultation paper on new Legal Framework: **Manufacturers Association of Information Technology (MAIT)**
- Shared Policy and Legislation related work around Cloud & Edge computing in Europe: **Bureau of Indian Standards (BIS)**

Electrical and Electronics:

- Status of IS/IEC 62368-1 : 2018: Audio Video Information and Communication Technology Equipment Part 1 Safety Requirements First Revision" in India: **Tom Claeys, Certification Engineer, BARCO**
- Provided list of CEN CENELEC Technical Committees and their published standards in following areas a) Lighting b) Electrical Installation c) EV Charging Infrastructure d) Lifts and Escalators: **Bureau of Indian Standards (BIS)**

Services:

- Provided latest copy of following ETSI standards a) ETSI TS 119 312 b) ETSI TS 119 432 c) ETSI TS 119 441: **Services Sector Department II, BIS**

Circular Economy:

- Information on Plastic and Packaging Policy/Directive and Standards developed/adopted around it by CEN-CENELEC: **GIZ**
- Provided information regarding the standards of potable drinking water and/or Packaged Drinking water and the test methods for the various parameters being followed in Europe: **Bureau of Indian Standards (BIS)**

4. Planned Activities for Next Quarters

- Preparation and Organisation of Hybrid Workshop on Eco-Design and ECO labelling with ECOS and EU-REI on 18th Nov 2022
- Adoption of oneM2M Release 3 as National Standards
- Framework License Agreement of CEN-CENELEC to BIS
- Continue working with TEC about Security, Smart Cities, oneM2M, Energy Efficiency etc.
- Continue working with BIS on Digital Signatures, Smart Cities, Accessibility, Circular Economy, Services etc.
- Release of quarterly newsletters and quarterly report
- Start preparation for Final Report

5. Glossary

S. No	Acronym	Expansion
1	5G	Fifth Generation
2	AAL	Active Assisted Living
3	ACC	Advanced Chemistry Cell
4	AI	Artificial Intelligence
5	ASEAN	Association of Southeast Asian Nations
6	BIF	Broadband India Forum

7	BIS	Bureau of Indian Standards
8	CAS	Conditional Access System
9	CE	Circular Economy
10	CEN	European Committee for Standardization
11	CENELEC	European Committee for Electro-technical Standardization
12	COAI	Cellular Operators Association of India
13	C-V2X	Cellular Vehicle-to-Everything
14	C-DoT	Centre for Development of Telematics
15	DoT	Department of Telecommunications
16	EBTC	European Business and Technology Centre
17	EBG	European Business Group
18	EC	European Commission
19	ECR	Energy Consumption Rating
20	EEG	European Economic Group
21	ETD	Electro-Technical Department
22	ETSI	European Telecommunications Standards Institute
23	EISMEA	European Innovation Council and SMEs Executive Agency
24	ESS	European Standardization System
25	EU	European Union
26	EV	Electric Vehicle
27	FAME	Faster Adoption and Manufacturing of (Hybrid) and Electric Vehicles
28	FTA	Free Trade Agreement
29	GCF	Global Certification Forum
30	GISFI	Global ICT Standardization Forum for India
31	GoI	Government of India
32	ICT	Information and Communication Technology
33	ICT RA	ICT Reference Architecture for Smart Cities
34	IoT	Internet of Things
35	IOTSF	Internet of Things Security Foundation
36	ISGF	India Smart Grid Forum
37	ITU	International Telecommunication Union
38	LiFi	Light Fidelity
39	LITD	Electronics and Information Technology Division Council
40	M2M	Machine to Machine
41	MAIT	Manufacturers Association for Information Technology
42	MEITY	Ministry of Electronics and Information Technology
43	MNRE	Ministry of New and Renewable Energy
44	MoHUA	Ministry of Housing & Urban Affairs
45	MoP	Ministry of Power

46	MoRTH	Ministry of Road Transport and Highways
47	MoU	Memorandum of Understanding
48	NCCS	National Centre for Communication Security
49	NCSC	National Cyber Security Coordinator
50	NWG	National Working Group
51	PLI	Production Linked Incentive
52	PWD	Person with Disability
53	R&D	Research & Development
54	RDSO	Research Design & Standards Organization
55	RE	Resource Efficiency
56	SESEI	Seconded European Standardization Expert for India
57	SDG	Sustainable Development Goals
58	SG	Study Group
59	SNAP	Standards National Action Plan
60	SMS	Subscriber Management System
61	SSD	Service Sector Department
62	TEC	Telecom Engineering Centre
63	TRAI	Telecom Regulatory Authority of India
64	TSDSI	Telecommunications Standards Development Society India
65	VLC	Visible Light Communication
66	WG	Working Group