SESEI

Seconded European Standardization Expert in India

Quarterly Report No. 9
('July – September' 2021)

October' 2021

SESEI IV– Dinesh Chand Sharma

1.   Executive Summary

Dear Members,

This is the Quarterly report 09 capturing the highlights of the various activities undertaken by SESEI during the period of July to September 2021. In this quarterly report we have made few modifications, which will help in accentuating the important tasks, meeting and way forward made by SESEI in various sectors and action items agreed.

In the previous Quarterly reports, we were also presenting key news items on policy, legislations, and market developments, akin to as captured in the SESEI Newsletter-Europe. To avoid repetition of these updates presented through newsletter, we have decided to remove these updates from the quarterly report now. We hope that the changes made will be agreeable with all of you.

This quarter was very exciting and invigorating due to the SESEI IV Survey, which was launched during the month of July and remain effective for feedback until mid of August 2021. The conceptualization of questionnaire prepared with the help of partners, revelations made by the collected data and the feedback received has been very encouraging and thought provoking. The survey also coincided when EU and India are reflecting upon the need to revitalize their Strategic partnership not only in the realm of Trade but also in the areas of Defence, Human Rights, Environmental issues, Clean Energy, Emerging Technologies, Standards harmonization etc. SESEI, under the leadership and guidance of the Project Partners is making right strides towards bridging the gap between the EU and India's standardization community, policy makers as well as the Industry and the Survey results validated the same. Survey data will be further collated and all the relevant inputs in discussion with partners will be incorporated in the current and the possible future scope of SESEI project.

Moving on, this quarter for SESEI project had been very productive in its interactions and engagements with the Bureau of Indian standards (BIS). I am happy to share that the Memorandum of Understanding (MoU) between Bureau of Indian Standards (BIS) and CEN-CENELEC has been finalized and the signatures are expected to be carried out anytime shortly. This MoU will pave the way for further processing of CEN-CENELEC license agreement to facilitate easy adoption of CEN-CENELEC standards by BIS. SESEI is closely coordinating with BIS on many other issues and topics while promoting European/Global standards. Possible update of EN-115 and of EN-81 Series adoption for Lifts & Escalator Update/adoption of CEN Standards for Ropeways/Cableways and EN 301 549 - Accessibility requirements suitable for public procurement of ICT products, various Service standards are on the anvil.

BIS has also recently approached SESEI for sharing 21 standards in the areas of Fitness, Playground (CEN TC/136), Transport, Logistics and Services (CEN TC/320) and similar list is also expected from BIS Service Sector Divisional Council – 2 for their further study and possible adoption.

Adoption of EN 301549 is under final stages of adoption through the BIS -LITD 35/P1 Meeting 1 Accessibility standard for ICT products and services. Centre for Development of Advance Computing (CDAC) is heading the task of creating this adopted standard for "Indian Accessibility requirements for ICT products and services" based on EN 301 549. SESEI expert is working as a member to this panel and ensuring the identical adoption of EN 301 549 latest version. The draft Indian Standards is currently

under wide circulation and is identical to EN 301 549 with changes limited to applicable Indian Acts and Indian Languages. The Conformity Assessment part of EN 301 549 is dealt separately as Part – 2 and is also under development. SESEI promoted the adoption of EN 301549, through various forums i.e., Broadband India Forum, Meity, TRAI, etc. and as a result it has delivered its results.

SESEI is also working with BIS Service Sector Divisional (SSD) No 10 technical committees on Digital Signatures, Electronic consent, and Cloud Services standards, which has given the Project an opportunity to promote adoption of ETSI-CEN-CENELEC standards in these area as they are found relevant in Indian context and fruitful discussions are ongoing in these topics.

SESEI has also established an excellent working relationship with Telecom Engineering Centre (TEC) and is often consulted and invited for participation in relevant working group meetings. During this quarter first meeting of the Consultative Committee for adoption of oneM2M Release 3 standards was held and timely adoption of release 3 post making release 2 as National Standards is under progress.

SESEI is also working with the EBG (European Business Group) in making strong representation to the Indian government for ensuring adoption of globally harmonized - 3GPP 5G standard, which also has a potential to give a much-needed push to related manufacturing in India.

SESEI has also approached the Research Designs & Standards Organisation (RDSO) under the Ministry of Railways, which is a Railways standards body, and we are hopeful of establishing technical synergies with them going forward.

In the quarterly report you will also find details of the various webinars/ virtual conferences and workshops in which SESEI participated or organised such as workshop with Invest India on IoT / M2M Standards and their role in Business & Industry and the Webinar on "Green ICT" by TEC in association with ETSI etc.

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

With this, I would like to request you to read the quarterly report, note the important developments in the various areas and continue with your support and cooperation to Project SESEI moving forward.

Happy reading!!!
Dinesh Chand Sharma
(Seconded European Standardization Expert in India)

2.   Key Meetings, Event Participation and Queries

This section comprises of the activities undertaken by SESEI during the quarterly period of July to September 2021. Detail and key outcomes of the important meetings and event/workshop and queries responded is provided below.

For more details on the SESEI activities, please refer to the Activity Tracker report submitted as "Annexure -2.

A quick dashboard of the activity summary:

Sr. No.	Description	Total Until now	In Last Quarter (July-Sept 2021)
1	External Meetings	295	38
2	Internal Meetings	71	8
3	Events/Seminar/Workshop/Roundtable	288	38
	Total	**654**	**84**
4	No of Queries	85	6

Key Meetings:

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

Meetings with BIS:

Generic:

- **Meeting with the Head of International Relations Department of BIS and Head of the Services division:** Key agenda items discussed were finalization and closure of MoU between BIS-CEN CENELEC and between BIS-ETSI, adoption and license Agreement for adoption of EN-81/EN-115, clarification on Procedure for Lab recognition of Foreign Manufacturer, proposed Joint Webinar & meeting on topics of Mutual Interest such as Market Surveillance, Installation Rules – CB Scheme, Circular Economy etc.

ICT:

- **(3rd, 4th, 5th 6th and 7th 8th) Meetings of the BIS -LITD 35/P1 Meeting 1 Accessibility standard for ICT products and services:** BIS LITD 35/P1 panel members are working on creating a standard for "Indian Accessibility requirements for ICT products and services", which is based on EN 301 549. SESEI expert is working as a member to this panel and ensuring the identical adoption of EN 301 549 latest version. The draft Indian Standards is currently under wide circulation and is identical to EN 301 549 with changes limited to applicable

Indian Acts and Indian Languages. The Conformity Assessment part of EN 301 549 is dealt separately as Part – 2 and is also under development.

Services:

- **2nd & 3rd, 4th Study Group Meeting on Digital Signature**:
SESEI is an active member of this study group and provides regular updates on the ETSI and EU work being carried out in the domain of electronic signature. SESEI expert shared the list of ISO/IEC/ETSI/CEN-CENELEC standards on Digital Signature. BIS is planning to adopt ISO 14533 series and ISO/IEC 20248 standards. SESEI have also presented the status of ETSI/CEN-CENELEC standards around the topic, which was prepared by Chair of ETSI ESI TC. SESEI also introduced BIS about Indian organization e-mudra who is also ASIA PKI member and is also associated with ETSI TC ESI as well. BIS agreed to co-opt e-Mudra representative, which in turn made a presentation through its CTO Mr. Vijay Kumar, CTO covering top three priority areas for standardization on digital signature.

- **1st & 2nd Working Group meeting on Cloud Services:**
In the first working group meeting on cloud services, it was decided to share the published ISO standards on cloud. During the meeting, SESEI expert was assigned to share the list of standards around cloud services in Europe. To address this, SESEI consolidated a short report on it and share with Group.

- **4th Panel meeting of Electronic Consent Management of Services Sector Divisional Council – II (SSD-II) 10: Panel 3:**
This meeting was convened by SESEI as chair of the Panel and existing ISO/IEC 29184 standard was reviewed which addresses all the requirements and justifies the thought process of this panel on consent management standard. The process of adoption of ISO/IEC29184 have also been completed and at present this draft standard is with the publication department and it will be published soon as Indian Standard. Meeting was concluded that panel can be disbanded as already ISO/IEC 29184 standard suffice the requirements and if needed how the standard shall be implemented in real scenario including other Data Privacy related ACT/LEGISLATION like GDPR in Europe, BIS can invite igrant.io officials for conducting a webinar session.

- **5th sectional committee meeting of IT and ITeS, Services Sector Divisional Council (SSD) 10 of BIS:**
SESEI is a member of the SSD 10 and participates in its various sub sectional committees which are as under. Meeting was held to take a review of all panels under this divisional council.
  - Convenor of Panel for Electronic Consent Management, SSD 10/P-3: During the meeting SESEI expert presented a report with a conclusion that panel can be disbanded with the approval of Chair as already ISO/IEC 29184 standard suffice the requirements and if needed how the standard shall be implemented in real scenario including other Data Privacy related ACT/LEGISLATION like GDPR in Europe, BIS can invite igrant.io officials for conducting a webinar session. Chair agreed with it.
  - Member of Working Group on Cloud Services, SSD 10/WG - 1. ISO/IEC standards in this domain are being studied by the WG for their comments for adoption.
  - Member of Study Group on Digital Signature: The study group is constituted to examine the documents related to Digital Signature and recommend the possible areas for standardization that can be taken up in future. SESEI is promoting adoption of ETSI-CEN-CENELEC standards in this area as they are relevant in Indian requirements.

Meetings with TEC/ DoT and other Govt. Bodies

ICT:

- **Meetings of the TEC Working Group for "Finalizing IoT / ICT standards for Smart cities":**
  SESEI has provided input to the document covering works in Europe. The document on "Finalizing IoT / ICT standards for Smart cities" is in the stage of finalization. Several short meetings are being held with chairs, concerned members to finalize the draft document. The inputs provided by SESEI on " Smart City: Policy Initiatives and standardization work in Europe" have been well considered in this report.

- **Meetings on "IoT and 5G applications in 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. During the meeting, members discussed the inputs received on the draft template.

  - identifying the use cases, a Smart Grid Architecture with two different flows, one with the power and other with data or communication flow may be finalised. Once the architecture having the major building blocks of smart grid from the generation to the distribution to the consumption is drawn then it will be very easy to identify the use cases.
  - 5G features may be used in Smart Grid as per requirements of the use case, however 5G can also be used in backhaul.
  - SESEI suggested to include more stakeholders already working on this subject such as ISGF and NSGM to ensure proper input/suggestions are recorded and avoid the duplication of work and efforts

- **Meeting of the TEC WG on Future Communication Technologies & Use cases in IoT domain.**
  The draft document has been refined in multiple short meetings with chairs. Work is in progress on the refinement/ finalization of the document. The revised and updated draft document is circulated to all members before each meeting to give their comments/ input. Inputs provided by SESEI covering EU work have been considered well in the draft report.

- **Various Meetings of the TEC Working Group (WG) on "Security by design Principles in M2M device manufacturing and National Trust Center for certification of M2M devices and applications":**
  The meeting was held to discuss the inputs received from WG members of "Draft Guidelines / Code of Practice for Securing Consumer Internet of Things (IoT)". It was discussed that five data protection provisions for consumer IoT to be included in this document as it is already available in ETSI EN 303 645.
  - TEC has published Code of Practice on Securing Consumer IoT, which is majorly based on EN 303 645. SESEI has been working on development of this standard with the help of ETSI TC Cyber.
  - As a follow-up SESEI will continue working on its implementation by adopting TS 103 701.

- **First meeting of the Consultative Committee for adoption of oneM2M Release 3 standards:**

It is intimated that TSDSI has transposed oneM2M Release 3 documents and has submitted to TEC for considering them for adoption/ ratification. These documents consist of 24 Technical Specifications and 3 Technical Reports on various subjects. The adoption process is based on standardization guide (https://tec.gov.in/standards-adoption-policy) and the role of Consultative Committee, as detailed in this guide, shall be to collate public comments against the standard, review them and accordingly prepare a report towards inclusion or rejection of those comments. SESEI expert is a member of this WG and is promoting timely adoption of oneM2M specifications as National Standards

- **TEC: Virtual meeting of NWG-20 for finalizing contributions for ITU-T SG-20 meeting:**
  This group has been working on the ITU-T SG-20 on IoT and its applications in Smart Cities & communities, work item Y.SRC "Requirements for deployment of smart services in rural communities" for the last more than one year. TEC has also released a technical report on IoT/ICT Enablement in Smart Village & Agriculture in March 2021 and is available on https://www.tec.gov.in/M2M-IoT-technical-reports and SESEI expert had contributed to this report on EU work around this subject.

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

ICT:

- **Meeting with Mr. Peter Stephens, Head of Secure by Design, Cyber Security, Department for Digital, Culture, Media, and Sport:**
  A meeting was arranged between SESEI, DCMS, UK and Telecom Engineering Centre (TEC) on issues related to latest dynamics in India regarding consumer IoT Security. TEC and DCMS discussed next steps post adoption of EN 303 645 and issues related to TS 103 701. A proposal to hold a webinar on exchange of practices in EU/UK and India in line with ETSI TC Cyber and its implementation in UK was also discussed.

- **Meeting of the EBG Telecom Sector Committee:**
  SESEI is actively engaged through EBG on issues related to Market Access, 5G, emerging technologies, supporting European Telecom vendors interests in India. SESEI contributed to drafting of the standards section for the EBG Position paper. SESEI also coauthored the representation to DoT/TEC on 5Gi issue.

- **Operational Meeting with India EU ICT Project**:
  Project Operational Meeting was called by the stakeholders of the India EU ICT Project. The main agenda of the meeting was to discuss and understand actual status of submitted, received, and approved activity proposals, and related activities. Activity proposals under preparation and discussion of general project operations related topics (e.g., speed up processes). SESEI Expert participate to ensure a technical synergy.

Meetings with Industry & Associations:

Generic:

- **Audio Meeting with Mr. Anand Deep Gupta, QCI:**

Meeting was sought on the request from DG international partnerships CEN-CENELECs and its efforts on Africa to check more information on QCI MOU with ARSO (Africa) and its activities in Africa and if it is promoting BIS standards. On this request SESEI expert held a meeting with QCI officer and post meeting updated CEN-CENELEC with below updates:

- There was a meeting held recently titled as "5th Tripartite Meeting of National Standards Regulatory Authorities" and held on 25-26th August between India-Brazil-Africa's Standards & Accreditation Bodies (BIS & QCI from India, ARSO & SANAS from Africa and their counterpart in Brazil) and it was part of Govt-to-Govt dialogue established as part of IBSA. India is the current chair of this Forum which brings together India, Brazil, and South Africa.
- As it is a political dialogue, and they are talking all including Standards, Accreditation, Skill Development, Meteorology, agriculture, tourism to name a few.
- QCI works with SANAS through this platform for accreditation exchange and as per the knowledge of QCI officer, they don't have any separate MoU with ARSO, and it doesn't make sense to have MoU with standards organization such as ARSO. Also, as per the database compiled earlier on BIS MoU, I don't see any MoU between BIS and ARSO as well. Hence this engagement is purely under the framework of IBSA only and there are no specific sector/activities, and it may be a generic exchange of activities around standards.

- **ASSOCHAM National Council on WTO Trade & Investment** called upon a council meeting to discuss issues being faced by members on trade & investments due to Standardization of products and recyclable material, Rationalization of customs duty on input and output, Foreign Trade Policy, Trade facilitation, simplification of customs procedure, etc. SESEI participated in the meeting to understand their scope of work.

    ICT:

- **e-Meeting with officials from Invest India to discuss proposed session on IOT Standardization:**
  Invest India is the National Investment Promotion and Facilitation Agency of the Government of India, mandated to facilitate investments into India. They requested a meeting with SESEI to seek inputs and information on standardization in the IoT Space. During the meeting SESEI expert shared latest update around this subject including work carried out by TSDSI, BIS and TEC.

- **Meeting of the Standards, Legal & Regulatory (SLR) Working Group of the IET - Future Tech Panel:**
  SESEI is the Chairman of the SLR Working Group of the Future Tech Panel. SLR Working Group meeting was called to discuss the formulation of White Paper on the M2M/IoT and emerging technologies

- **Meeting with Chairman of the IET- Future Tech Panel:**
  Status update of the work being undertaken by the Working Group of Standards Legal and Regulatory (SLR) chaired by SESEI Expert.

- **BIF Committee Meeting on ICT for Inclusive Ability (PwD):**
  SESEI expert is a Vice Chair of this WG and promote/support the EU work such as adoption of EN 301 549.In the meeting, plan to carry out a follow-up Webinar and desired topics were discussed.

Mobility:

- **Meeting on Railway Standards with Mr. Javed Afaque, Principal Consultant, Équipe Qualité Consultants:**
  Meeting was held to discuss status update on the railway standards in India and the European railway standards. Équipe Qualité Consultants are working on EN 15085 series of standards for welding in railway vehicles (prepared by Technical Committee, CEN/TC 256). Équipe Qualité Consultants expressed the desire to be associated with SESEI activities related to EN 15085 or other standards of CEN/TC 256.

Services:

- **Meeting with Vijay Kumar, CTO, eMudhra a company associated with Digital certification, e-signatures, etc.:**
  SESEI held a meeting with CTO of eMudhra to discuss ISO/EN standards available on digital signature. This request was generated during the second study group meeting of BIS Technical Committee meeting on digital signatures and as well through ETSI ESI Chair introduction. SESEI is working on this subject with BIS for adoption of EN standards in India around Digital Signatures.

Meetings with Project Partners:

Generic:

- **Pre-Summer Session of the SESEI Steering Committee:**
  SESEI Steering committee agreed to meet before the start of the summer holidays to discuss issues related SESEI V & SESEI - IV Survey.

- **CEN-CENELEC Project India Meeting #13:**
  As part of the India Priority Task force formed by the CEN CENELEC, periodic meetings are scheduled to assert the status of action items taken up jointly by the India Priority Taskforce. In the 13th Meeting of the India Priority Task Force, SESEI provided status update on SESEI IV stakeholder survey – key learnings and opportunities, SESEI V Update etc.

- **SESEI SC# ad-hoc meeting:**
  The main agenda of the meeting was SESEI Survey findings and discussion on the comments and feedback received as well as deciding the next steps.

- **ETSI Board meeting#134:**
  SESEI Presented a summary report of the SESEI Project, role of SESEI in supporting EU Standards and Standardization community in India, its key achievements, findings, and key results from the SESEI Survey.

Mobility:

- **Meeting with CEN-CENELEC:**
  To discuss proposed INDIA: Rail webinar with the Railways Standards Organization - RDSO.

Circular Economy:

- **Meeting with CEN-CENELEC:**
  CEN-CENELEC Priority WG on Circular Economy, requested SESEI expert to provide updates on CE& RE in India. SESEI team prepared a special report and presentation on "CIRCULAR ECONOMY & RESOURCE EFFICIENCY IN INDIA: Policy and Standardization" and shared it during the call. During the meeting proposal to hold a Webinar on CE/RE with EU-REI project was discussed.

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:

- **GoToWebinar - Enabling Collaborative Development: Indo-German Deals in a Decade.**
  The Indo-German Chamber of Commerce (IGCC), Ebner Stolz and Nexdigm (SKP), jointly organised webinar highlighted the key trends that have shaped the Indo-German Deal landscape over the last decade, industry-specific insights, and the outlook for the next decade.

- **Horizon Europe Launch Event in India:**
  Events titled as New collaboration opportunities for EU-India was organized by the Delegation of the European Union to India and EURAXESS India.

- **CUTS Webinar on Proposed Amendments to the Consumer Protection (E-Commerce) Rules, 2020"**
  Webinar to share the latest amendments proposed by Ministry

ICT:

- **Invest India Webinar - World of Standards:M2M/IoT & Emerging Technologies:**
  SESEI was approached by the Invest India to share his knowledge and expertise in the domain of IoT Standardization both in India as well as Europe and Globally. Post this request, SESEI engaged with TEC and CDOT to participate in this webinar to provide comprehensive information on the IoT standards, its deployment etc. to the Invest India and Ministry of Electronics and Technology Officials. During the webinar speakers were SESEI expert, Mr. Sushil Kumar, Director IoT, TEC and Mr. Aurindam Bhattacharya, CDoT and presented and shared updates around M2M/IoT activities, National Standards and Platform Pilot etc.

- **Webinar on "Green ICT" by TEC in association with ETSI:**
  The webinar was requested by TEC and SESEI expert worked with ETSI. During the webinar, ETSI Chair responsible for the subject, presented an overview of the ETSI activities on eco-environmental topics related to ICTs and introduce various concepts like Energy Efficiency Measurement Methods, Key Performance Indicators, Life Cycle Assessment and Circular Economy.

- **Webinar on Open Automated Demand Response by Bureau of Indian Standards:**

BIS Organised a technical webinar on Open Automated Demand Response. The main discussion and presentation during the webinar were on Overview and importance of IEC 62746-10-1:2018, Features and functions of Open Automated demand Response, etc.

- **Presentation cum Knowledge Session on 5G SEP Leadership organised by TSDSI & DoT:**
  Standards, Research & Innovation (S-R-I) Division of DOT conducted a series of Presentation cum Knowledge Sessions on IPRs & SEPs. The 2nd such session on 5G Standard Essential Patent (SEP) Leadership was organized in collaboration with TSDSI and Ericsson was the main presenter.

- **IITB-TSDSI Webinar on 'End-to-End 5G Testbed: An Overview'**:
  TSDSI in partnership with IIT Bombay, organised a webinar to present an overview of the DoT sponsored project 'Indigenous 5G Test-bed'. The webinar provided an overview of the project along with IIT Bombay's contribution towards the testbed.

- **BIS Webinar on Multi Cloud Data Management - Problems and Solutions.**
  This webinar was organised to serve as open platform for discussing various challenges arising in the area of Multi-cloud environment and how those challenges can be eased by standardization.

- **TSDSI Webinar on - Digital Technology Innovations Series Webinar#1 on "India Stack and the ITU"**:
  TSDSI and ITU's Asia Pacific Regional office organised a joint webinar series on "Digital Technology Innovations – Case Studies from India and the Asia-Pacific Region" along with support from Department of Telecommunications and select Ministries of Govt of India and other partners from the Asia-Pacific Region to showcase such initiatives (large public as well as private sector implementations).

- **5G Tests & Pilots: Collaborative Webinar 5G-IA and India TSDSI**.
  TSDSI and 5G-IA jointly organized a webinar on 5G Tests & Pilots (T&P). The objective of this webinar was to enable the sharing of information, data, lessons learnt and areas for collaborative 5G Tests and Pilots. Presentations included examples of 5G T&Ps implemented in 5G "hot verticals", such as smart city, smart grid, media broadcast and media production from Europe and India.

- **ITU- APT event on "Looking Beyond 5G Future Technology Trends Towards 6G":**
  ITU-APT Foundation of India, jointly with 5G India Forum (5GIF) held this webinar to look at the evolution towards 6G and a future wireless connected society and how India can play a significant role in that evolution.

- **5th edition of 5G India 2021 Virtual Conference & Exhibition, organised by Bharat Exhibitions in collaboration with Broadband India Forum.**

- **The Digital Dialogues on 'Building the Digital Economy: Opportunities for Growth and Partnership' by BIF:**
  The esteemed expert global and national speakers deliberated on the critical aspects of the need to understand and appreciated that the digital world, including 5G and beyond, demands more than ever before, a high level of cooperation and partnership amongst the various stakeholders

- **The Digital Dialogues on 'Satcom & 5G – The Final Frontier' by BIF**:

A BIF White Paper articulating the finer aspects of Satcom's role in 5G, was released during the session. The session included a panel discussion with the esteemed speakers deliberate on critical aspects of role of satellites in 5G, progress of integration of Satellite into global 5G standards, implications of technology advancements, user requirements, various new use cases and the recommended way forward for India in this vital domain.

- **National Webinar and live interaction with stakeholders on "Data Privacy Assurance organised by BIS:**
  To ensure data privacy assurance to individuals and to help the organizations who process data, Bureau of Indian standards has published two Indian Standards: - IS 17428 (Part 1) DATA PRIVACY ASSURANCE PART 1 ENGINEERING AND MANAGEMENT REQUIREMENTS & IS 17428 (Part 2) DATA PRIVACY ASSURANCE PART 2 ENGINEERING AND MANAGEMENT GUIDELINES. During the webinar details of these standards were shared.

- **4th Edition of 5G India Congress organized by NEXGEN**

- **Session on Digital India - It's triumph and way forward with emerging technologies, by FICCI**

- **Interaction with Shri Saurabh Gaur, IAS, Joint Secretary, MeitY and Meeting of the FICCI National Committee on ICT and Mobile Manufacturing**

- **4th Edition of 5G India Congress organised by NEXGEN:**

- **Session on Digital India - It's triumph and way forward with emerging technologies, by FICCI**

Smart City

- **IET India Digital Conversations - Influence of AI and advanced analytics in Smart City strategies.**

- **7th edition of Virtual Conference on 100 Smart Cities India 2021 with the theme – "Innovations Sustainability and development for Smart Cities.**
  The main discussion theme of the technical session was on Smart Future Technologies for the Transformation of our Cities and Digital Transformation of Indian Cities Towards Smarter, Sustainable & Safer Future.

Electrical & Electronics:

- **BIS Webinar on the "LVDC: The future of electricity usage: Webinar on Low Voltage Direct Current":**
  During the webinar an overview of LVDC & Electricity Access was presented by the speakers on International Standardisation in LVDC, IS 16711- Guidelines for 48 V ELVDC Distribution Systems and Challenges & Opportunities in Implementation.

- **Webinar on "Smart Grid Case Studies Using Communication Systems- Based on IEEE 1901 High-Speed Powerline Communication**" was organized by IEEE Standards Association

Mobility:

- **Awareness session on changes in 2020 Edition of EN 15085-2:**
  EQC India organised an online awareness session covering major changes in the 2020 edition and key features of the EN 15085-2 standard Mode. The EN 15085 standard series applies to the design, manufacturing, testing and conformity assessment of welded railway vehicles, components, and assemblies. It sets requirements for the quality system, welding process approvals, as well as performance qualifications for welders and welding operators.

- **7th Webinar on the subject "Intelligent Transport System (ITS) for Road Safety"**

- **Webinar on Private Capital Mobilisation in Road Safety jointly organized by FICCI & THE WORLD BANK**

- **IET India Digital Conversations -Intelligent Transportation Systems & Internet of Roads**:
  New technologies need to be tailored to fit the dynamism of roads specific to the Indian scenario. More used cases are required.

- **Webinar on the occasion of World Energy Storage Day (WESD)**
  Focused on energy storage, electric mobility, and green hydrogen.

Energy Efficiency incl. Circular Economy:

- **Webinar by Brightalk on the Sustainable IoT – Low Code, Low Maintenance and Ultra Low-Power Approaches.**

- **Webinar on Large Scale Green Hydrogen Production organised by Indo-German Chambers of Commerce, Energy Forum and VDMA**

- **The 2nd edition of the Virtual Conference on `E-Waste Management in India: Circular Economy Organised by the Confederation of Indian Industry (CII).**
  The conference focused on enhancing awareness about the impact on environment due to E-Waste and explore new business opportunities for Indian industry.

Services:

- **BIS Webinar on "Standardization in Transportation Services - Challenges and Solutions":**
  Webinar to create awareness and share importance about the Transport & Logistic Services, Share and discuss the new draft Indian standard on "Transportation of Over Dimensional Consignment (ODC)" and invite comments for further improvement. Apprising about National and International laws, permissions and approvals, challenges, and future technological advancements relevant to ODC.

- **BIS webinar on "IT and IT Enabled Services - Opportunities and Standardization.**
  As the National Standards Body of India, Bureau of Indian Standards took the initiative to create awareness about the importance of IT & ITeS and started standardization activities under IT and IT enabled Services sectional committee, SSD 10. SESEI was invited by Bureau of Indian Standards (BIS) as

a key speaker to share his knowledge and expertise on "Global perspective of standardization in IT and IT enabled Services" and provided updates from CEN-CENELEC-ISO/IEC/JTC1 etc. and EC on Generic Services.

Smart Manufacturing 4.0

- **Webinar on "Exoskeleton Robots and Standards" hosted by BIS:**
  The Production and General Engineering Department (PGD) Division of BIS organised a Webinar on "Exoskeleton Robots and Standards" to create awareness about the standardization work being done in the field of Exoskeleton Robots amongst various stakeholders engaged in the manufacturing, regulating, testing, using & scholars from R&D etc.

- **IET Webinar on Embracing Industrial Automation and Robotics – Guidance for MSMEs:**
  In this 40th episode of the IET India Digital Conversation, curated by the manufacturing working group of the IET Future Tech Panel, and in partnership with Siemens with expert panel of speakers explained and provided practical insights for a wider deployment and application of industrial automation and robotics in Indian manufacturing.

- **TSDSI webinar on "Private Wireless Networks for Smart Factory and its Used Cases":**
  The objective of this session was to raise awareness about benefits that can be accrued to Industry 4.0 with the power of connectivity/technology (4G advanced/5G and 6G in future).

Key Queries addressed:

Generic:
- Information regarding purchasing of individual CEN standards: Équipe Qualité Consultants

ICT:
- Article on ICT – Emerging technologies such as 5G, AI and Blockchain and standardization: Communications Today (https://www.communicationstoday.co.in/ict-emerging-technologies-and-standardization/)
- Query on oneM2M Security Specification: Infineon Technologies

Services:
- ETSI and ISO standards around Cloud Computing: Services Sector Department II, BIS
- List of ISO/IEC/ETSI/CEN-CENELEC standards on Digital Signature: Services Sector Department II, BIS

7. Planned Activities for Next Quarters

- Closure of MoU between CEN-CENELEC & BIS and address comments on ETSI MoU
- Submission of CEN-CENELEC License Agreement to BIS for processing post closure of MoU

- Promotion and possible adoption of Standards on the topics of Services, Digital Signature, Cloud Computing, Artificial Intelligence, Accessibility Part 2 based on EN 301 649 etc.
- Copyright agreement closure to share the 21 Services standards & EN-81series
- Webinar with EU-REI on topics around Circular Economy
- Web Meeting and Webinar with RDSO on topics of mutual interest
- To work with TEC on
  - adoption of oneM2M Release 3 as National Standards
  - adoption of TS 103 701
  - DCMS & Indico Webinar on Code of Practice: Consumer IoT implementation
- Release of One Industry Sector Profile Report: ICT
- White paper on M2M/IoT and emerging technologies: IET SLR WG

8. Glossary

Sr. No.	Acronym	Expansion
1	3GPP	3rd Generation Partnership Project
2	5G	Fifth Generation
3	5GIF IEG	5G India Forum Independent Evaluation Group
4	AAL	Active Assisted Living
5	AI	Artificial Intelligence
6	ARAI	Automotive Research Association of India
7	BIF	Broadband India Forum
8	BIS	Bureau of Indian Standards
9	CDoT	Centre for Development of Telematics
10	CEA	Central Electricity Authority
11	CEN	European Committee for Standardization
12	CENELEC	European Committee for Electro-technical Standardization
13	COAI	Cellular Operators Association of India
14	DCC	Digital Communications Commission
15	DGFT	Directorate General of Foreign Trade
16	DoT	Department of Telecommunications
17	EEG	European Economic Group
18	EESL	Energy Efficiency Services Limited
19	EoI	Expression of Interest
20	ETA	Equipment Type Approval
21	ETD	Electro-Technical Department
22	ETSI	European Telecommunications Standards Institute
23	EU	European Union
24	EV	Electric Vehicle

25	FAME	Faster Adoption and Manufacturing of (Hybrid) and Electric Vehicles
26	FTAs	Free Trade Agreements
27	FTP	Foreign Trade Policy
28	GST	Goods and Services Tax
29	HSN	Harmonized System of Nomenclature
30	ICT	Information and Communication Technology
31	IEA	International Energy Agency
32	IEC	International Electrotechnical Commission
33	IISc	Indian Institute of Science
34	IoT	Internet of Things
35	IPR	Intellectual Property Rights
36	IRD	International Relations Department
37	ISUW	India Smart Utility Week
38	ITU	International Telecommunication Union
39	IUDX	India Urban Data Exchange
40	LCD	Liquid Crystal Display
41	LED	Light Emitting Diodes
42	LITDC	Electronics and Information Technology Division Council
43	LPWAN	Low-Power Wide-Area Networks
44	M2M	Machine to Machine Communication
45	MAIT	Manufacturers' Association for Information Technology
46	MEITY	Ministry of Electronics and Information Technology
47	MNRE	Ministry of new and renewable energy
48	MoHUA	Ministry of Housing and Urban Affairs
49	MoP	Ministry of Power
50	MoP	Ministry of Power
51	MoU	Memorandum of Understanding
52	MSME	Micro, Small and Medium Enterprises
53	NDAP	National Data and Analytics Platform
54	PV	Photovoltaics
55	PWDs	Persons With Disabilities
56	QCO	Quality Control Orders
57	R&D	Research and Development
58	SAR	Specific Absorption Rate
59	SESEI	Seconded European Standardization Expert for India
60	SMNP	Smart Meter National Programme
61	TAG	Technical Advisory Group
62	TBT	Technical Barriers to Trade
63	TEC	Telecom Engineering Centre

64	TRAI	Telecom Regulatory Authority of India
65	TSDSI	Telecommunications Standards Development Society India
66	USB	Universal Serial Bus
67	WG	Working Group
68	WTO	World Trade Organization
69	WWRF	Wireless World Research Forum