

Quarterly Report No. 5

Standards, Policy and Regulation

('July – Sept' 2020)

October' 2020

SESEI IV– Dinesh Chand Sharma

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1. Executive Summary

This is the Quarterly report No. 5 for the period July 2020 to September 2020, consisting of latest updates and market developments concerning priority areas of the Project SESEI, as well as details of the various activities undertaken by the SESEI expert during the quarter.

Globally, the pandemic has affected all the spheres of human life. Social, financial, health, economy, education, all aspects are reeling under the adverse effects of this pandemic. Researchers and Scientists are working continuously for the vaccine and the trials are going on to save the mankind.

While the COVID-19 pandemic continues to evolve, the lockdown in India is being relaxed to bring normalcy in the businesses, industries, and economic activities. Finance Ministry is assessing impact of pandemic on the economy, and associated severe contractions in the GDP, which it witnessed in the last two quarters. Govt. will be taking appropriate measures to bring the GDP back on track by announcing stimulus to boost the economy, business and investment friendly policies. Concurrently, India is also gearing up to become self-reliant ([Atmanirbhar Bharat Abhiyan](#)) in important infrastructure sectors and is calling for private funding & investments and announcing several policies and announcements to objectify this goal.

I am also very pleased to inform you that OneM2M Specifications (Release 2) has been adopted by the Telecom Engineering Centre as the national standards for IoT/M2M, specifically catering to the need for common M2M service layer that can be readily embedded within various hardware and software and relied upon to connect the myriad of devices in the field with M2M application servers worldwide based on OneM2M Standards. SESEI along with Project partners contributed significantly towards adoption of these OneM2M standards as national standards for India.

In the ICT Sector, India is gearing up for starting 5G trials which were delayed due to the COVID-19 pandemic. DoT is also planning to conduct auction of 5G spectrum shortly. Indian SDO, TSDSI recently applied for recognition of 5G Radio Interface Technology (RIT) to the ITU and the highlight of the TSDSI RIT “as claimed” provides enhanced performance for ITU’s Low Mobility Large Cell (LMLC) rural use case and is also claimed to be fully compatible with the 3GPP RIT.

A centre of excellence (CoE) in Blockchain and an 'Idea Challenge Program in Blockchain' at STP incubation centre, has been launched by the Software Technology Parks of India (STPI) in association with Ministry of Electronics and Information Technology ([MeitY](#)), Government of Haryana, Government Blockchain Association and several blue-chip companies and top tier academic institutions. It aims to accommodate 100 start-ups in the coming five years.

In the automotive sector a program “Decarbonizing Transport in Emerging Economies (DTEE) ‘ has been launched by Indian think tank of Govt. - Niti Aayog in a collaboration with the International Transport Forum (ITF), and the Wuppertal Institute, and is supported by the International Climate Initiative of the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, which will design a framework for assessing transport emissions and help India develop a pathway towards a low-carbon transport system through new modelling tools and policy scenarios.



The Road Transport and Highways Ministry has also prepared a draft hydrogen fuel cell vehicle feasibility roadmap on which the comments are being invited. The primary objective of this report is evaluation of the safety of using H2 powered vehicles. The H2 specifications for fuel cell vehicles will align with ISO 14687 until appropriate notification takes place as per the requirements of the Bureau of Indian Standard Act of 2016.

Niti Aayog is also working on inviting investments for cell manufacturing and is proposing direct incentives for integrating Energy Storage and e-mobility. India being the fourth largest manufacturer of automobiles and the largest in two-wheelers, it should optimize the opportunity to integrate energy storage, batteries, and vehicle manufacturing for a viable commercial market.

For the Smart Cities, Union Housing Ministry has launched a framework that would help cities follow a climate sensitive road map while planning and implementing their actions, including investments. The framework has 28 indicators across five categories covering energy and green buildings, urban planning, green cover and biodiversity, mobility and air quality, water management and waste management.

SESEI expert and its project partners works closely with Bureau of Indian Standards (BIS) in many areas of common interest. Apart from being a national standard making body, the other important aspect of BIS functioning is certification and surveillance to enforce the implementation of standards. SESEI expert recently organized a knowledge sharing webinar for BIS with the help of officials from European Commission and CEN CENELEC on the topic of “Market Surveillance and best practices in Europe”. BIS is currently strengthening its capacity of enforcement by implementation of e-BIS, an integrated portal covering all its functions, enlisting the services of outside agencies for factory and market surveillance etc. Mobile App ‘BIS-Care’ and three portals – the Standardization, Conformity Assessment and Training Portals of e-BIS are available on www.manakonline.in for consumers.

Along with the quarterly report we are also providing list of draft standards released by Indian Standards organizations during this quarter as an **Annexure-1** and the detailed activity tracker of SESEI expert including list of queries, events and meetings addressed during the period as an **“Annexure -2**.

Wishing you and your families and friends good health and safety.

Warm regards,

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 July 2020 till 30th September 2020. It may be noted that the activities, meetings, and events were severely affected due to the ongoing covid-19 pandemic. Most of the events planned during the period were either cancelled or held virtually or alternatively presented as webinars. 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	149	34
2	Internal Meetings	43	06
3	Events/Seminar/Workshop/Roundtable	132	45
	Total	324	85
4	No of Queries	53	09

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

Key Meetings:

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

Meetings with BIS:

ICT:

- **LITD 28/P6 ICT RA Meetings:** Panel 6 of LITD 28 Technical Committee Meeting on deciding the ICT reference Architecture
- **Meeting 11, 12 &13of LITD 28/P9 IoT Systems RA:** Ministry of Housing and Urban Affairs (MOHUA) has quite explicitly mentioned their urgency for IoT reference architectures. in this regard, BIS has constituted a panel on IoT reference architecture (LITD/28 P9). Inputs/comments received from members were discussed during the calls. ISO/IEC 10341 IoT RA to be referred for developing the reference Model and TS 0001 oneM2M to be referred for the reference architecture, that was agreed by the panel. Panel also reviewed the working draft of IoT RA and discussed the IoT entity-based reference model, IoT Domain based reference Model and IoT Architecture

Smart cities:

- **19th meeting of LITD 28 Smart infrastructure Sectional committee:** To finalize Draft Standards, i.e. LITD 28 (13502) UDI LMCPS RA LITD 28 (13, - LITD 28 (13503) UDI LMCPS NAL. LITD 28 (14073). The other issues discussed were Data exchange Reference Architecture, activities of the sectional committee, sub-committee and panel.



Services

- **2nd Meeting of the BIS SSD 10, IT and ITES sectional committee:** Discussion on proposed scope of the sub-committee. SESEI expert have provided input on CEN-CENELEC work around this topic and highlighted the importance of standards developed around e-competence framework and its possible study and adoption by India through this TC.
- **Discussion Meeting of the Panel 2 of SSD10 of BIS:** to discuss - SSD-10 Panel 2 Roadmap and SSD10 Standardization Roadmap, SESEI provided inputs on the documents.

Electrical & Electronics

- **7th meeting of Electrical Energy Storage Sectional Committee, ETD 52 of BIS:** SESEI was co-opted for the Electrical Energy Storage Sectional Committee, ETD 52 of BIS. The main agenda of the meeting was - Composition of the sectional committee, - Co-opting special members (including SESEI), - Draft Standards under wide circulation, - Preparation of Program of Work , New subjects and future programme of work , - International Activities , - harmonisation of Standards (IEC TC 120)

Meetings with TEC/ DoT and other Govt. Bodies

ICT:

- Virtual meeting **"Security by design Principles in M2M device manufacturing and National Trust Center WG** for certification of M2M devices and applications: to further discuss the reference draft document, inputs and used cases data received from members and the minutes of the last meeting.
- **Virtual meetings of the TEC WG on Future Communication Technologies in IoT domain.** Working Group members are currently in the process of drafting version 2 of the document on the Future technology. The Updated draft document will encapsulate all the new technologies, 5G, AI, ML, Blockchain, etc. the draft document is circulated to all members for their inputs and at each meeting the inputs received are discussed and finalized to be incorporated in the document. SESEI has provided inputs on e-Health, Smart Body Area Networks, and Medical devices and Smart Appliances.
- **Meeting of TEC's Smart Village and Agriculture Working Group:** Technical Report on Smart Village & Agriculture in final stages. Minutes of the previous meeting and the draft report, after incorporating recommendation received from members was discussed in detail. SESEI is a member of this WG and has provided EU work around Smart villages which are well considered in this draft report. "Smart village pilot project: European commission" as part of Smart village initiatives around the world (Chapter 4). - "Saansad Adarsh Gram Yojana (SAGY)" of GoI as part of chapter 5 on Smart village initiatives in India
- **TEC meeting for "Finalizing IoT / ICT standards for Smart cities":** to finalise the national standards for ICT Architecture common layer for applications for Smart Cities. TEC has set an agenda for speedy finalization of the specifications required to support the IoT/ICT Ecosystem enabling the



Smart Cities. SESEI is an important member of this working Group and is contributing regularly for finalisation of the national standards and finalisation of report on the specifications for ICT/ IoT based solutions for Smart Cities

Green passport/ Sustainable ICT:

- **TEC 2nd Sub-DCC & MF meeting on standard on Energy Consumption Rating and Energy Passport:** meeting organized in respect of formulation of new Standard for Energy Consumption Rating and Energy Passport for Telecommunications Products, Equipment and Network/ Services. SESEI is working with TEC on this subject and the draft standards has made reference to ETSI standards.

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

- **Meeting with Art-Fi Officials:** Art-Fi, a French enterprise providing international solutions in telecommunications and IoT, interested in setting up entity in India requested a meeting with SESEI and sought update and clarification on matters related to SAR value and SAR testing in India. Overview of changes brought by ART-Fi on the SAR/OTA eco-system due to the D-phase technology embedded in ART-Fi measurement system & associated impacts for Operators, Makers, Regulators, Labs and also on the EN 62209-3 standard.
- **Meeting with Adelphi on EU REI WEEE Standards:** Adelphi is a leading independent think tank and public policy consultancy on climate, environment and development. Adelphi sought a meeting with SESEI to have discussion and exchange of notes on the EU REI WEEE Standards and the status of Resource Efficiency & Waste Management Policy and its implementation in India. SESEI expert provided input to their list of questions while representing both EU and India.
- **Webex meeting with Eurescom on: Full 5G - 5G PPP Verticals White Paper:** Eurescom is a leading European provider of project management services in the high-tech area. SESEI has a virtual meeting with Eurescom officials to discuss the status of 5G in India and also the white papers and High-Level reports prepared.

Meetings with Industry & Associations:

Electronics/Consumer Electronics:

- **MAIT meeting for extension of Phase IV and notification of products under phase V of CRO:** A web meeting was organized by MAIT under the chairmanship of Shri Saurabh Gaur, Joint Secretary to deliberate on the extension of implementation date of Phase IV CRO and notification of product categories under Phase V of CRO.

ICT:

- **Meeting of the Standards, Legal & Regulatory Working Group of IET- Future Tech Panel on 30th June 2020.** SESEI is the Chairman of the SLR Working Group of IET Future Tech Panel. In the meeting,



scope of the Working Group, objectives, deliverables and approach to attain the deliverables was discussed. All this will form part of the charter of the Working Group.

- **2nd Meeting of Standards Legal and Regulatory Working Group of the IET- Future Tech Panel:**
The main discussion in the meeting was on; 1. Finalisation of the Charter for the SLR WG. 2. Discussion on table of contents for the White Paper 3. Inputs from other working groups of IET- Future Tech Panel
- **IET Future Tech Panel-Joint Meeting:** SESEI is the chairman of the Standards Legal & Regulatory Working Group and presented the Charter of the Working Group. SLR Working Group being horizontal Working Group, members expressed keen interest in the charter and the deliverables of the SLR WG.
- **ASSOCHAM IT Council Meeting on Non-Personal Data Governance Framework:** ASSOCHAM National Council on IT/ITes organised a discussion meeting of its members to seek their inputs/ comments & concerns to be collated and send to the concerned government authorities for their consideration and review.
- **First Meeting of the ASSOCHAM Standardization Council:** ASSOCHAM has recently constituted a council on standardisation. SESEI is invited to participate as member of the ASSOCHAM Standardisation Council. Recommendation and suggestions for creating / establishing actionable plan under Standardization Council was sought.
- **Interaction with Chairman, TRAI and ICT & Digital Economy Committee Meeting of FICCI.** Mr. R.S, Sharma provided is insight on the telecommunications sector post COVID – 19 and TRAI's priorities in the mid to long term period.
- **Project InDiCo conference call meeting with COAI for participation in the IMC 2020:** to have an exchange on the theme of this year edition and about the agenda of the conferences and discuss appropriate contributions from ETSI and European stakeholders to these sessions. IMC 2020 would be held virtually on 8th, 9th, 10th of Dec 2020.
- **Meeting with Mr. Vikas Sharma of Omnitech Automations:** Officials of Omnitech automations sought meeting with SESEI to discuss issues related to VDE certification /compliance of their products used for Hospital Communications.

Automotive:

- **Meeting with Mr. Parag Kulkarni from John Deere:** Officials from John Deere approached SESEI for a meeting on standards development and the strategies. The main points discussed during the meeting were introduction of John Deere and involvement in Standards development, overview of India- EU standards collaboration program. Explore possible collaboration opportunities for standard development. SESEI highlighted work carried out by TEC, BIS and TSDSI on this subject especially in view of oneM2M transposition, and ongoing work at TEC to make them national standards and BIS to include it as part of smart infrastructure.



Meetings with Project Partners:

- **CEN CENELEC Meetings on Railways and India:** SESEI informed all that the Research Designs & Standards Organisation (RDSO) under the ministry of Railways is the only organization which work around standardization of railway equipment. SESEI also shared a report prepared on Railway standards in India.
 - **In the second meeting on the topic** discussion was held on chosen priority topics and pilot topic, RDSO top three priority areas and any further information from the Indian perspective, drafting an objective for the selected pilot and outcome
- **Periodic meetings organised by IndiCo with ETSI, oneM2M, TEC, TSDSI, C-DOT and SESEI:** These meetings are being held to conceptualize, discuss and finalise the proposed Conference on OneM2M/ IoT. This conference is to coincide with the release of the report on national IoT/ ICT standards for Smart Cities in India.
- **Meeting between IndiCo Project (ETSI) - IET Future Tech Panel:** to discuss collaboration for Digital Conversation (Digital platform) for promoting ETSI and future technologies/ new standardisation areas. This collaboration was catalyzed by SESEI, as he is an active member and Chairman of the SLR Working Group of IET - Future Tech Panel.
- **Meeting with CENCENELEC Ms. Christi Jarita:** A meeting was held to discuss issues related to Project India for further identification of gap areas, areas of mutual collaboration and the important issues on Market access.
- **InDiCo-INDIA Security Webinars:** Conference call meetings initiated by Project InDiCo for organisation of the India Security week, which will consist of series of webinars. Project InDiCo, SESEI and EU - India ICT Project discuss, proposed agenda, topics to be taken up in the webinars and the suggested speakers.
- **Project India #8 Meeting was called by CEN CENELEC to discuss the Cooperation with India:** 8th Meeting of the Project India was held on 17th September 2020, to discuss in detail the progress made on the CEN CENELEC Cooperation with India. SESEI as a member of the committee participated in the meeting and shared updated status on the action items. This meeting was convened by Wim De Kesel.

Key Event Participations:

Generic:

- **Webinar on Market Surveillance for BIS by European Commission:** On the request of BIS, SESEI arranged webinar on issues related to Market Surveillance and the best practices followed in Europe. Mr. Ewout Deurwaarder, European Commission, Directorate-General for Internal Market,



Industry, Entrepreneurship and SMEs. Free movement of goods was the main speaker at the webinar. The webinar started with welcome and brief Introduction by BIS IRD & CMD officials, European Commission officials and Project SESEI. Overview of Project SESEI, brief presentation by CEN CENELEC and the presentation on best practices in Europe on Market Surveillance by EC Officers.

- **CUTS Webinar on Atmanirbhar Bharat and Cross Border Data Flows**
- **Webinar on SEPs and IPRs in the Tech Driven Society - Opportunities for SME's.** jointly organized by TSDSI, Jindal School of Banking & Finance and DoT
- **TSDSI online workshop on “Standards-driven Research and Innovation in India”:** Workshop focused on the need to channelize research and innovation activities for incorporating into global standards to benefit from the innovations and also offer a global platform for commercializing the same.
- **Webinar Back to Basics Part 2: The World of SSOs, IPR Policies and Patent Pools:** FSA organised a webinar series on IPR Policies exploring the world of standard setting organizations and patent pools.
- **CUTS Webinar Link - 'SDG-12: Will the Pandemic Slowdown the Progress of Meeting the Target':** Experts in the seminar talked on how to reverse the trends and production patterns for achieving SDG.
- **37th Annual General Meeting of MAIT:** along with Fireside Chat with Shri Saurabh Gaur, Jt. Secretary, MeitY.

ICT:

- **Request for a Presentation on ETSI and its standardization activities for ITS probationers:** Department of Telecom (DoT) organized a virtual training session for recently recruited Indian Telecom Service (ITS) probationers on the various International and national standardization bodies and their standardization activities. SESEI was requested by DoT to deliver a virtual presentation to these officers on ETSI related topics like organization, structure, standardization process, emerging technology standards etc.
- **Webinar by IET- Future Tech Panel on "Clearing the 5G obstacle course in India:** ETSI collaborated through Project IndiCo to promote 5G Technologies work being done at ETSI. Mr. Adrian Scrase, COO ETSI participated as one of the key speakers at the webinar.
- **IET India Digital Conversations “Leading India’s Digital Revolution” with Shri N R Narayana Murthy, Founder and Chairman Emeritus, Infosys**
- **BIF Digital Dialogue webinar series on "ICT Accessibility for Persons with Disabilities":** BIF released a White Paper titled 'Priorities for a COVID-19 World: ICT Accessibility for Persons with Disabilities



in India' during the webinar. SESEI expert is Vice Chair of WG on ICT Accessibility at BIF and contributed to this paper for inclusion of EN 301 549.

- **TEC webinar on "Internet of Things (IoT) Security"**: Ensuring end to end security for connected IoT devices is the key to the success for this market. This webinar provided a good opportunity for learning, exchange of ideas and enriching experience for the participants.
- **TSDSI Roadmap [Online] Workshop**: TSDSI is in the process of preparing its Roadmap 2.0 for the next 3 Years by incorporating inputs from a variety of stakeholders.
- **COAI-IMC Studio Panel Discussion on "Digital Networks: The Health and Wealth of the Nation"**: On the occasion of Annual General Meeting of COAI, a panel discussion was held with the luminaries of the telecom industry on the role of telecom sector during the covid pandemic.
- **CUTS-CIRC Webinar: Myths and Realities of 5G in India.**
- **Release of the Report 'Implications of AI on the Indian Economy'**. The Indian Council for Research on International Economic Relations (ICRIER) in collaboration with Google and NASSCOM organized the web launch of its report titled 'Implications of AI on the Indian Economy'.
- **TSDSI Expert Talks#2 on Fronthaul and Backhaul for 5G**: inaugural talk by Prof. Arogyaswami Paulraj, Professor Emeritus Department of Electrical Engineering, Stanford University.
- **Live Panel Discussion on "Shifting Telecom Gears from Evolution to Revolution: The Economic Times in association with Nokia organised Live Panel Discussion on "Shifting Telecom Gears from Evolution to Revolution: The Journey Towards 5G"**
- **Webinar on "IEEE 802.11™ Enabling 5G Applications"**: IEEE organised a webinar on 802.11 as 5G Technology, convergence of heterogenous radio access for enterprise networks.
- **Virtual event on 'Connecting Bharat' to celebrate the incredible milestone of 25 years of the Internet in India** by Broadband India Forum in collaboration with Bharat Exhibitions.
- **Joint Webinar organised by COAI, 5G India Forum and 5G- ACIA on Towards 5G for Industry**
- **COAI e-Workshop on 5G Technology and Related Issues**: COAI and Nokia along with 5G India Forum are organizing an e-Workshop on 5G Technology
- **Keysight technologies & IIT Madras organised a virtual conclave on Atmanirbhar Bharat for 5G in association with CNBC TV18**: Virtual Conclave on how 5G Technologies will help India to become self - reliant and attain economic growth.
- **The Digital Dialogues on "Digital Highway to 2025 - Suggested Milestones" on the occasion of BIF AGM and 5th Anniversary Celebration**



- **Virtual Conference on "Satellite Communications- Road Ahead":** In order to consolidate the views of the Satcom stake holders, on the opening of the Indian Satcom to the private sector, ITU -APT Foundation of India organised a virtual conference.
- **FICCI organized INDIA Conclave "Leveraging Artificial Intelligence for Future of Excellence":** on how the Government policy and strategy can steer country and benefit from AI.

Smart city:

- **Virtual Conference on 100 Smart Cities India 2020, organised by Bharat Exhibitions:** SESEI was invited to participate in the plenary session as one of the speakers. SESEI delivered Vote of thanks, summarised the session and highlighted the challenges which lie ahead for realisation of Smart Cities in India including importance of oneM2M adoption and implementation in India as a National Standard.
- **Virtual Workshop: Smart Cities 5.0 - Digital Transformation through Disruptive Technologies & Standards.** IEC SyC Smart Cities hosted its first virtual workshop to discuss the sustainable digital transformation of cities
- **IET India Digital Conversations - Digital Twins for Secure, Green and Healthy Future Cities.** impact of digital twin on four core systems of the future city namely - healthcare system, water management system, safety & security system and environment system.
- **IEC SyC Smart Cities - Virtual workshop on "Ontology for Smart City and Smart City Systems & Standards"**

Electrical & Electronics:

- **Webinar on "Successful PLC technology use cases in India and Europe" by IEEE Standards Association (IEEE SA)**
- **Assocham Webinar on "Battery Storage Technology".** Batteries Technology as a key technology for the transformation of electricity systems and the reduction of carbon emissions.
- **Webinar on Electricity distribution – creating the change Confirmation by ISGF and RTI**
- **Webinar on GSGF Report "Electromobility in Smart Grid: State of the Art and Challenging Issues Worldwide"** was organised by ISGF. The GSGF (Global Smart Grid Forum) report was also released during the webinar.
- **Virtual panel session on "Cyber Security for Power and Energy Infrastructure" organised by IEEE:** Speakers deliberated on the opportunities, challenges and case studies of Cyber Security.

Automotive/ E Vehicles



- **GoToWebinar - CharIN Tuesday Asia - virtual conference.** CharIN's efforts to adopt e-mobility, and to further push the development of the required eco-system based on the Combined Charging System (CCS) and ISO/IEC 15118.
- **Kick-off event of the Nationally Determined Contributions (NDC) - Transport Initiative for Asia (TIA) – India Component.** NDC-TIA programme is being implemented by NITI Aayog in collaboration with the German Federal Ministry for the Environment, Nature Conservation, and Nuclear Safety (BMU) under its International Climate Initiative (IKI)
- **Webinar on Shifting Gears: Post Pandemic Automotive Market in India organised by** Indo-French Chamber of Commerce & Industry (IFCCI) in association with Udyen Jain and Associates (UJA)
- **Webinar by Pmanifold on - Emerging e-mobility use cases for Rural transportation in India and Africa:** focused on: Existing transportation landscape in rural regions, driving factors and economics, need and suitability (use cases) etc.

Resource Efficiency

- **Webinar on Standards for fostering Resource Efficiency and Circular Economy in India:** organized by The Energy and Resources Institute (TERI) under the EU-REI project.
- **Renewable Energy India Expo 2020, organised by Informa Markets:** As part of the 7th Indo-German Energy Day, Indo-German Chamber of Commerce in collaboration with the Indo-German Energy Forum (IGEF) Support Office organized a virtual German Pavilion at the REI E-Expo 2020. IGEF also hosted a session with discussion on "PV Rooftop and Storage".

Key Queries addressed:

Generic

- Drafted and shared a report on "Market Surveillance in Europe": Bureau of India Standards (BIS)
- Provided responses to the questionnaire on adaptation of CENELEC standards to the Indian context: adelphi research gemeinnützige GmbH

Electrical Equipment and Consumer Electronics

- Provided list of standards published by CENELEC on Flow batteries, BMS and repurposed batteries: Bureau of Indian Standards (BIS)
- Provided list of standards developed by CLC/SR 120 on Electrical Energy Storage (EES) Systems: BIS

ICT

- Inputs on CEN/CENELEC standardization work in IT and IT Enabled Services Sector to the draft strategy paper being prepared by the Sectional Committee on IT & ITeS, SSD 10 of BIS: BIS
- Provided inputs to the final document on Internet of Things (IoT): Ministry of Electronics & Information Technology (MEITY)

Automotive



- Addressed a query on regulations set by the Indian government to manufacture and sell a commercial vehicle: ED Motors

Energy Efficiency and Environment

- Forwarded a query on EN 102 706-2 and EN 202 706-1 to ETSI as TEC wants clarification about EN TS 102 706-2 validity and acceptance within EU for energy efficiency testing: Ericsson

3. Generic Update

3.1 BIS & IIT-Roorkee Join Hands to Promote National Standardisation

The Bureau of Indian Standards (BIS) and the Indian Institute of Technology (IIT) Roorkee, signed a Memorandum of Understanding (MoU) to collaborate in the fields of civil, electrical, mechanical, chemical, earthquake engineering, development and management of water resources and renewable energy projects, infrastructure development, medical biotechnology and nanotechnology, biomaterials. Under the MoU, both institutes will collaborate in standardisation activity through technical committees, undertake R&D projects, organize seminars, conferences, workshops, and exchange publications and other literature of common interest related to Standardisation and Conformity Assessment among others. BIS will also extend financial support to establish a Chair in the field of Standardisation and Conformity Assessment at IIT-Roorkee.

As per the MoU, both institutes are entitled to ownership on any property which is developed under the partnership. The ownership of intellectual property such as confidential information, know-how, patents, will be vested with the institute responsible for its development. Both parties will be entitled to joint ownership in case the property is developed jointly.

[Read More>>](#)

3.2 Consumer Protection Act, 2019 comes into force, covers e-commerce too

The Consumer Protection Act, 2019 has come into force on 20 July 2020, with its salient features including the establishment of the Central Consumer Protection Authority (CCPA) to promote, protect and enforce the rights of consumers.

This new Act will empower consumers and help them in protecting their rights through its various notified rules and provisions like Consumer Protection Councils, Consumer Disputes Redressal Commissions, Mediation, Product Liability and punishment for manufacture or sale of products containing adulterant / spurious goods.

CCPA will be empowered to conduct investigations into violations of consumer rights and institute complaints / prosecution, order recall of unsafe goods and services, order discontinuance of unfair trade practices and misleading advertisements, impose penalties on manufacturers /endorsers /publishers of misleading advertisements. Rules for prevention of unfair trade practice by e-commerce platforms will



also be covered under this Act. The gazette notification for establishment of the Central Consumer Protection Authority and rules for prevention of unfair trade practice in e-commerce are under publication.

Under this act every e-commerce entity is required to provide information relating to return, refund, exchange, warranty and guarantee, delivery and shipment, modes of payment, grievance redressal mechanism, payment methods, security of payment methods, charge-back options, etc. including country of origin which are necessary for enabling the consumer to make an informed decision at the pre-purchase stage on its platform. He said that e-commerce platforms have to acknowledge the receipt of any consumer complaint within forty-eight hours and redress the complaint within one month from the date of receipt under this Act. He further added that the New Act introduces the concept of product liability and brings within its scope, the product manufacturer, product service provider and product seller, for any claim for compensation.

[Read more>>](#)

3.3 Mobile App 'BIS-Care' Standardization, Conformity Assessment and Training Portals of e-BIS

Union Minister for Consumer Affairs, Food & Public Distribution launched the Bureau of Indian Standard's Mobile App 'BIS-Care' and three portals – the Standardization, Conformity Assessment and Training Portals of e-BIS on www.manakonline.in for consumers. The mobile app BIS-Care can be operated on any Android phone. This app is operational in Hindi and English language and can be downloaded free from Google play store. Consumers can check the authenticity of the ISI-marked and hallmarked products and lodge complaints using this app. The Minister said that the government has taken several steps to protect the interests of consumers.

Minister said that another important aspect of BIS functioning is certification and surveillance to enforce the implementation of standards. The Minister informed that the BIS is strengthening its capacity of enforcement by implementation of e-BIS, an integrated portal covering all its functions, enlisting the services of outside agencies for factory and market surveillance and development of mobile app-based and AI-enabled surveillance methods. He said it is important to ensure that consumers are aware of the standards and quality products and become a part of our efforts to eliminate the supply of sub-standard products. In the briefing, the Minister also informed that BIS is developing a portal on Consumer Engagement, which will facilitate the online registration of Consumer Groups, submission of proposals and approval thereof, and complaint management.

The Minister also spoke about the plan to implement One Nation, One Standard, and said that BIS has formulated a scheme for the recognition of other Standard Development Organizations in the country with the objective of harmonization of standard formulation. It is under examination and will be launched soon. The Minister touched upon the Government's thrust on the use of non-tariff barriers to regulate export and import and highlighted the role BIS was playing in the formulation of Quality Control Orders (QCOs) to make the standards mandatory. He said that BIS has actively collaborated with various Ministries and Departments to help them issue QCOs for 368 products and work on the formulating QCOs for 239 products is in progress. After standards becoming mandatory, manufacturers, both



domestic and foreign, have to comply with them. He said that the number of licenses, which is about 37000 at present, issued by BIS is likely to see a sharp jump because of QCOs.

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3.4 India makes testing of imported telecom equipment mandatory

India has notified the World Trade Organization (WTO) its intention to make it mandatory for telecom products sold, imported or used in the country, including feedback device, transmission terminal equipment and broadband equipment, to be tested and certified by the Telecom Engineering Centre (TEC) under the Department of Telecommunications.

“While the mandatory tests and certification of imported telecom equipment are primarily targeted at Chinese companies because of security concerns, they will apply to all imports. That’s why as per WTO rules India has to inform members prior to its implementation and seek comments,” an official stated. In three separate submissions made to the WTO Committee on Technical Barrier to Trade on the three identified items this week, India sought comments from WTO members on the mandatory certification regime within 30 days.

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3.5 Centre asks BIS to prescribe standards for imported goods to curb non-essential Chinese imports

The central government has asked the Bureau of Indian Standards (BIS) for prescribing the mandatory standards for imported goods, in line with the international norms for quality. The move is expected to impact the import of non-essential Chinese goods. As per the senior official at BIS, which is India’s National standards body under the Consumer Affairs department, the commerce ministry has given the list of imports and has asked to frame the standards in accordance with the international norms to filter quality imports.

BIS which deals with the certification and marking of goods will be examining the existing norms. The body is also revamping its website, incorporating quality standards, and the information about the international norms that must be followed while importing goods.

Key Highlights:

- The new-look website which will be launched soon will help the manufacturers and importers to know the norms and procedures that must be followed to market any product in India.
- BIS has more than 25,000 quality standards for different services and products but under mandatory certification, there are only around 150 products.
- Most products have been under voluntary registration only, allowing the imports of products not conforming with the quality standards.
- Every year, India imports around 11,500 types of goods such as gold, crude oil, electronic goods, machine tools, fertilisers, metal, toys, plastic goods, and pharmaceutical products which tops the chart.



New standards for imported goods:

Under the new standards, more products may come under mandatory certification to discourage the import of non-essential goods. It will also promote the mission of 'Atmanirbhar Bharat' by relying more on domestic production.

As per the official from BIS, the government body has been formulating technical regulations for at least half of the imported products for the quality imports and around 400 are already on the priority list. Under the new standards, China will be the most affected country under the stricter norms as most of the cheaper imports are from China.

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4 SMART CITIES

4.1 Centre launches Climate Smart Cities Assessment Framework 2.0 for climate-sensitive cities

Union Housing Minister launched a framework that would help cities follow a climate-sensitive approach in urban planning and development. The objective of the Climate Smart Cities Assessment Framework (CSCAF) 2.0 is to provide a roadmap for cities for combating climate change while planning and implementing their actions, including investments. The framework has 28 indicators across five categories -- energy and green buildings, urban planning, green cover and biodiversity, mobility and air quality, water management and waste management. The Climate Centre for Cities under the National Institute of Urban Affairs (NIUA) is supporting the Ministry of Housing and Urban Affairs in the implementation of the CSCAF 2.0.

The Minister also launched 'Streets for People Challenge', which aims to inspire cities to create walking-friendly and vibrant streets through quick, innovative, and low-cost measures in response to Covid-19 in collaboration with their citizens and assistance from experts.

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5 Electrical Equipment including Consumer Electronics

5.1 Electronics manufacturing in India to grow 30% annually for next 5 years: IT Secretary

The government is expecting electronics manufacturing in the country to register an annual growth rate of 30 % over the next five years and clock Rs 11.5 lakh crore (€135 billion) additional production during this period, electronics and IT secretary Ajay Prakash Sawhney. Also, the exports of electronic products will grow in the range of 40-50 % annually over the next five years, he added. "Electronics manufacturing in India has been growing quite significantly. We have registered 23 % cumulative annual rate of growth



over past five years. Now in this journey the growth is expected to be 30% year on year for next five years," official said at the Invest India Exclusive Investment Forum - Japan Edition.

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5.2 One Sun, One World, One Grid (OSOWOG) initiative

The Ministry of New & Renewable Energy (MNRE) has started the process to engage a consulting firm for developing a long-term vision, implementation plan, road map and institutional framework for implementing the ambitious 'One Sun One World One Grid' plan. Under the One Sun One World One Grid (OSOWOG) programme, India envisages to have an inter-connected power transmission grid across nations for the supply of clean energy, according to the request for proposal floated by the MNRE.

The vision behind the OSOWOG mantra is 'The Sun Never Sets' and is a constant at some geographical location, globally, at any given point of time. With India at the fulcrum, the solar spectrum can easily be divided into two broad zones viz. far East which would include countries like Myanmar, Vietnam, Thailand, Lao, Cambodia etc. and far West which would cover the Middle East and the Africa Region, it stated. The Ministry of New and Renewable Energy (MNRE) has a critical role to play in synergizing over 140 countries, across the far east and the far west regions, to build consensus, launch energy policy imperatives and set up a framework for such a global cooperation, it added. India, through the OSOWOG initiative, plans to take another leap towards building a global ecosystem of interconnected renewable energy resources that are seamlessly shared for mutual benefits and global sustainability, it stated.

The OSOWOG would have three phases. In first phase Phase I, Middle East, South Asia and South East Asia would be interconnected. In the second phase, solar and other renewable energy resources rich regions would be interconnected. In the third phase would vie for global interconnection of the power transmission grid to achieve the One Sun One World One Grid vision.

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5.3 State joint venture to support smart meter rollout in India

A joint venture company is being established to provide the infrastructure to enable India's distribution companies to accelerate their smart meter rollout. Press reports indicate that the joint venture under the ministry of power will provide a 'common backend infrastructure facility' with a standardised and scalable architecture that the discoms can 'plug and play'. Such an architecture should simplify the rollout of smart meters by avoiding duplication and enabling the meter data management to be scaled as required.

The JV will be comprised of the four state energy organizations NTPC Ltd, the country's largest power generation company, the Power Grid Corporation responsible mainly for transmission, the Power Finance Corporation and REC Ltd (formerly the Rural Electrification Corporation).

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5.4 Power minister launches pan-India real-time market in Electricity

Power and renewable energy minister launched the pan-India real-time market (RTM) in electricity, placing India amongst a few electricity markets in the world having it. RTM is an organized market platform to enable the buyers and sellers pan-India to meet their energy requirement closer to real time of operation.

Minister said that RTM would bring required flexibility in the market to provide real-time balance while ensuring optimal utilisation of the available surplus capacity in the system and would also help manage demand pattern diversity in the country with an organized market.

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5.5 Department of Heavy Industry, Ministry of Heavy Industry and Public Enterprises (MHI&PE) Office issued Electrical Equipment (Quality Order) 2020: Low - Voltage switchgear and control gear [Read more/Download](#)

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

- Draft Electricity (Rights of Consumers) Rules, 2020 for stakeholder comments till September 30, 2020. [Read more/Download](#)
- Public Procurement (Preference to Make in India) to provide Purchase Preference (linked with local content) in respect of Power Sector [Read more/Download](#)
- Measures for contributing towards 'Atmanirbhar Bharat/Self Reliant' and 'Make in India' through phased indigenization in Power Sector. [Read more/Download](#)
- Power Sector as Strategic and Critical Sector-Testing of imported equipment, components, and parts. [Read more/Download](#)
- Modifications in Scheme for "Development of solar parks and Ultra Mega solar power projects" – [Read more](#)
- RFP for Developing a Long-Term Vision, Implementation Plan, Road Map and Institutional Framework for implementing One Sun One World One Grid (OSOWOG). [Read more/Download](#)
- Request for comments on draft specifications for technology neutral Lithium batteries for solar off-grid applications. [Read more/Download](#)
- Order for formation of Project Development Cell (PDC) for "Attracting Investments in India". [Read more](#)



6 Automotive

6.1 NITI Aayog Introduces New Program to Decarbonize India's Transport System

The five-year project will design a tailor-made transport emissions assessment framework for India. The National Institute of Transforming India (NITI) Aayog and the International Transport Forum (ITF) of Organization for Economic Co-operation and Development (OECD), have jointly launched a project aimed at decarbonizing India's transport sector. The program, Decarbonizing Transport in Emerging Economies (DTEE), is a collaboration between the ITF and the Wuppertal Institute, supported by the International Climate Initiative of the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety.

The launch took place through a webinar and was inaugurated by ITF Secretary-General Young Tae Kim and Amitabh Kant, the CEO at NITI Aayog. According to a press statement issued by the Press Information Bureau, the 'Decarbonizing Transport in India,' a five-year project, will help India develop a pathway towards a low-carbon transport system through new modeling tools and policy scenarios. The project will design a tailor-made transport emissions assessment framework for India.

"It will provide the government with a detailed understanding of current and future transport activity and the related carbon emissions as a basis for their decision-making," the release noted. Speaking on the occasion, Kim said, "This is a very important and promising undertaking that will provide practical support for the Indian government for making the right choices on the way to a low-CO2 transport system. Our collaboration on the 'Decarbonizing Transport in India' project is also an opportunity to further strengthen the relationship between India and the ITF."

The transport sector in India is the third most greenhouse gas (GHG) emitting sector, where the major contribution comes from road transport.

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6.2 India driving electric mobility, energy storage sector growth: Experts

The Government of India is encouraging investments in the manufacturing of batteries and Niti Ayog is exploring to incentivise the production per kW. India will be moving fast with various favourable policies and schemes to implement efficient energy storage and electric mobility in the country, point out experts.

Niti Aayog is working on inviting investments for cell manufacturing and is proposing direct incentives. Indian industry needs to be sure that the shift will provide them with tremendous growth opportunities, said Anil Srivastava, mission director, Mobility, Niti Aayog, at the E-Business Summit on Integration of Energy Storage and Mobility organised by Indian Chamber of Commerce (ICC).

India is the fourth largest manufacturer of automobiles and the largest in two-wheelers. The critical opportunity is to integrate energy storage, batteries and vehicle manufacturing for a viable commercial market. The price of lithium ion batteries has come down significantly and there is further reduction expected in the coming years.

The Government of India is encouraging investments in the manufacturing of batteries and Niti Ayog is exploring to incentivise the production per kW.

On the push given to electric mobility, Mayank Jalan, president, ICC, said, "Over the past few years the Government of India has created a momentum through several policies that encourage the adoption of electric mobility. The government has launched the National Electric Mobility Mission Plan 2020 with a vision and road map of faster adoption of electric vehicles and manufacturing in the country." Also, several States and union territories have come out with draft and final electric policies that provide fiscal and non-fiscal incentives to accelerate the value chain of electric mobility activities. Manufacturers have started working on e-buses, cars, bikes and three-wheelers.

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6.3 Government mulls installing EV charging kiosks at around 69,000 petrol pumps in Country

The government is mulling setting up at least one electric vehicle (EV) charging kiosk each at nearly 69,000 petrol pumps across the country to induce people to go for electric mobility. Besides, the government is also thinking of making it compulsory to install EV charging kiosks at all Company-Owned, Company-Operated (COCO) petrol pumps of state refiners.

In a review meeting on EV charging infrastructure, Power Minister suggested oil ministry top officials that "they may issue an order for their oil marketing companies (OMCs) under their administrative control for setting up charging kiosks at all COCO petrol pumps", a source said. Other franchisee petrol pump operators may also be advised to have at least one charging kiosk at their fuel stations, the source said adding this will help achieve "EV charging facility at all petrol pumps in the country".

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6.4 Automotive technology e-portal from International Centre of Automotive Technology (ICAT)

Department of Heavy Industry (DHI), Govt of India, has embarked on a mission to promote innovation, R&D and product development in India for various sectors. A step towards this mission is the creation of technology platform e-portals where such technology development, information exchange and innovation can be facilitated. There are five portals being developed for specific sectors by different organizations viz, BHEL for power sector equipment, HMT for machine tools, CMFTI for manufacturing technology, ICAT and ARAI for automotive sector.

The objective of these portals is to create an ecosystem which will bring solution seekers and problem solvers together. These include, industry, academia, research institutes, start-ups, professionals and experts. ICAT is developing technology platform for automotive industry called ASPIRE - Automotive Solutions Portal for Industry, Research and Education.

The key objective of this portal is to facilitate the Indian Automotive Industry to become self-reliant by assisting in innovation and adoption of global technological advancements by bringing together the



stakeholders from various associated avenues. The activities would include Research and Development, Product Technology Development, Technological Innovations, Technical and Quality Problem Resolution for the industry, Manufacturing and Process Technology Development, hosting Challenges for Technology Development and also conducting Market Research and Technology Surveys for identifying the trends in the Indian auto industry.

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6.5 MoRTH notifies regulations for tyres, safety glass, external projections, etc. under CMVR

The Ministry of Road Transport and Highways (MoRTH) vide GSR 457 (E) dated 20th July 2020, has made following amendments in CMVR 1989. The specification for the Tyre pressure monitoring system (TPMS) for vehicles up to maximum mass of 3.5 Tonnes which monitors the inflation pressure of the tyre or its variation, while the vehicle is running and transmits the information to the driver, thereby providing advance information to the driver and enhancing road safety has been provided if fitted in the Vehicle.

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6.6 MoRTH allows Sale and Registration of Electric Vehicles without batteries

MoRTH has allowed registration of electric vehicles without pre-fitted batteries. In a letter to Transport Secretaries of all the States and UTs, the ministry has clarified that vehicles without batteries can be sold and registered based on the type approval certificate issued by the Test Agency. Further, that there is no need to specify the Make/Type or any other details of the Battery for the purpose of Registration. However, the prototype of the electrical vehicle, and the battery (regular battery or the swappable battery) is required to be type approved by the test Agencies specified under Rule 126 of the Central Motor Vehicles Rules, 1989.

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7. ICT

7.1 Adoption of TSDSI transposed 3GPP standards National Standards by TEC

TSDSI, as an organizational partner of 3GPP has transposed 3GPP standards (same as Recommendations ITU-R M.2012-4) totaling 402 in numbers and had provided to TEC for adoption as national standards by TEC. These radio interface standards detail the features and parameters of IMT-Advanced like compatibility, international roaming, and access to high-speed data services. These standards have been processed for adoption as per the "Standardization Guide – A policy document for adoption of the domestic/international standards into national standards". Now, these standards [TSDSI transposed 3GPP standards (402 Nos.)] have been approved for adoption into national standards.

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7.2 Adoption of TSDSI transposed OneM2M (Release 2) specifications as National Standards by TEC

TSDSI, as a partner type 1 of oneM2M has transposed oneM2M (release2) specifications totaling 27 documents in numbers and had provided to TEC for adoption as national standards by TEC. These specifications address the need for common M2M service layer that can be readily embedded within various hardware and software and relied upon to connect the myriad of devices in the field with M2M application servers worldwide. These transposed documents cover oneM2M functional architecture, requirements, Service layer control protocols, Management enablement etc. These specifications have been processed for adoption as per the "Standardization Guide – A policy document for adoption of the domestic/international standards into national standards. Now, these standards [TSDSI transposed oneM2M (release2) specifications] have been approved for adoption into national standards.

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7.3 STPI launches Apiary, centre of excellence in Blockchain at its incubation centre

Software Technology Parks of India (STPI) has launched Apiary, a centre of excellence (CoE) in Blockchain and also an 'Idea Challenge Program in Blockchain' at STP incubation centre, Gurugram in association with Ministry of Electronics and Information Technology ([MeitY](#)), Government of Haryana, Government Blockchain Association and several blue-chip companies and top tier academic institutions.

Dr. Omkar Rai, Director General, STPI has digitally launched Apiary and Idea Challenge programme in the presence of Saurabh Gaur, Joint Secretary, MeitY, Ajay Singh Tomar, Additional Secretary, Department of IT, Electronics & Communication, Govt. of Haryana, Pankaj Thakar, CoE & Founder Padup, Devesh Tyagi, Senior Director, STPI, Rajneesh Agrawal, Director STPI Noida and Subodh Sachan, Director STPI HQ.

The 7,000 sqft. Apiary-CoE, at STPI-Gurugram targets to accommodate 100 start-ups in the coming five years. The centre aims to provide blockchain as a service and allow all stakeholders to benefit from shared learning, experiences, and resources. The start-ups will be mentored by a group of accomplished industry and academic pioneers, led by the chief mentor Pankaj Thakar, CoE & Founder Padup and aided by a strong governing council (GC) and project management group (PMG) consisting of top technology industrialists, investors and academicians.

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7.4 DoT notifies additional telecom equipment for mandatory testing, certification

The Telecom Department has notified mandatory testing and certification for additional range of products, used in telecom and data networks, from October 1, 2020. Transmission Terminal Equipment



(including multiplexing equipment), PON (passive optical network) family of broadband equipment, and feedback device are the products which have been notified under the second phase of Mandatory Testing and Certification of Telecom Equipment (MTCTE) regime.

"...it is, hereby, notified that testing and certification for following telecom equipment under Phase-II of Mandatory Testing and Certification of Telecommunications Equipment (MTCTE) regime as provisioned in Indian Telegraph (Amendment) Rules 2017, shall be mandatory with effect from October 1, 2020," a recent DoT notification said.

Applications for testing and certification of these telecom products will be accepted on MTCTE portal from June 25, 2020. "However, for sale, import or use of these telecom equipment in India, such certification shall become mandatory with effect from October 1, 2020," the Department of Telecommunications (DoT) said in a circular dated June 23. It said the schedule for mandatory testing and certification of remaining equipment will be notified subsequently.

In another circular dated June 24, the department's engineering wing also provided for certain relaxation for test results and reports on some norms other than safety requirements and EMI/EMC (electromagnetic interference and electromagnetic compatibility) requirements.

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7.5 Meity to seek Cabinet approval for policy on AI-based programmes

The IT ministry (MeitY) is looking to use artificial intelligence for addressing problems such as language barrier that are faced by Indians in communication and expects to get Cabinet approval in a month to launch programmes based on the next generation technology, senior government officials said. Niti Aayog CEO said that India is organising a conference on AI, RAISE 2020, which will be inaugurated by Prime Minister Narendra Modi.

National e-Governance Division (NeGD) and MyGov CEO said that the Meity will soon approach the Cabinet for a policy to launch AI-based programmes. Kant said that details of the proposal cannot be discussed now but he expects the policy to be in place within sixty days.

Meity Secretary said that the AI will bring tremendous opportunity for India if the talent pool that the country has is used to solve various problems by using the technology. He said that there are 22 regional languages and people who know only a particular language are unable to communicate with others. "This is one of the many other problems that artificial intelligence can address," Sawhney said. Singh said that AI will be used for natural language processing which can end the problem of communication by ending the language barrier.

AI has the potential to raise India's annual growth rate by 1.3 percentage points and add USD 957 billion to India's economy by 2035, as per the studies done by Accenture. According to official data, more than 38,700 stakeholders from academia, the research industry and government representatives from 125 countries have registered to participate in RAISE 2020.

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7.6 How indigenously developed 5G tech can reach remote Indian Villages

A technical working group of the International Telecommunication Union (ITU) approved an application for recognition of the 5G Radio Interface Technology (RIT) submitted by Telecom Standards Development Society, India (TSDSI) as a candidate 5G standard, along with the RIT submitted by 3GPP. TSDSI is an autonomous Indian standards setting body, comprising industry and academia recognised by the DoT.

The highlight of the TSDSI RIT is that it improves upon the 3GPP RIT to bridge the digital divide, by providing enhanced performance for ITU's Low Mobility Large Cell (LMLC) rural use case. This enhanced RIT incorporating patented innovations of Indian researchers is otherwise fully compatible with the 3GPP RIT in every respect. India's relatively late but vital contribution towards under-served populations has cleared hurdles to acceptance as a global 5G standard.

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7.7 Reports/White Papers/Recommendations and Consultation Papers issued by TRAI

- Telecom Regulatory (TRAI) has released recommendations on 'Provision of Cellular Backhaul Connectivity via Satellite through VSAT under Commercial VSAT CUG Service Authorization'. [Read more/Download](#)
- Consultation Paper on Roadmap to Promote Broadband Connectivity and Enhanced Broadband Speed. [Read more/Download](#)
- Recommendations on Methodology of applying Spectrum Usage Charges (SUC) under the weighted average method of SUC assessment, in cases of Spectrum Sharing. [Read more/Download](#)
- Consultation Paper on Regulation of International Mobile Roaming Services. [Read more/Download](#)
- Recommendations on Traffic Management Practices (TMPs) and Multi-Stakeholder Body for Net Neutrality. [Read more/Download](#)
- Recommendations on Cloud Services. [Read more/Download](#)
- Recommendations on Regulatory Framework for Over-The-Top (OTT) Communication Services. [Read more/Download](#)
- Telecom Consumers Protection (Eleventh Amendment) Regulations, 2020. [Read more/Download](#)

8. Planned Activities for Next Quarters

- End of Year financial closure & Regulatory Compliances
- Steering Committee #4 Meeting
- Virtual Workshop on IoT/M2M with TEC, CDOT through Indico
- Preparation and Participation in IMC 2020
- Security Week in India planning Virtual/Physical through Indico
- Follow-up & work on the India Taskforce/Priority workshop action points



- Participation in the important conferences and events
- Policy & NEWS Updates

9. Glossary

Sr. No.	Acronym	Expansion
1	3GPP	3rd Generation Partnership Project
2	5G	Fifth Generation
3	5G-ACIA	5G Alliance for Connected Industries and Automation
4	5GIF IEG	5G India Forum Independent Evaluation Group
5	AAL	Active Assisted Living
6	AI	Artificial Intelligence
7	BIF	Broadband India Forum
8	BIS	Bureau of Indian Standards
9	CCPA	Central Consumer Protection Authority
10	CDoT	Centre for Development of Telematics
11	CEA	Central Electricity Authority
12	CEN	European Committee for Standardization
13	CENELEC	European Committee for Electro-technical Standardization
14	CMVR	Central Motor Vehicles Rules
15	COAI	Cellular Operators Association of India
16	CRO	Compulsory Registration Order
17	DoT	Department of Telecommunications
18	EEG	European Economic Group
19	EESL	Energy Efficiency Services Limited
20	EoI	Expression of Interest
21	ETA	Equipment Type Approval
22	ETD	Electro-Technical Department
23	ETSI	European Telecommunications Standards Institute
24	EU	European Union
25	EU REI	European Union's Resource Efficiency Initiative
26	EV	Electric Vehicle
27	FAME	Faster Adoption and Manufacturing of (Hybrid) and Electric Vehicles
28	FTAs	Free Trade Agreements
29	GST	Goods and Services Tax
30	ICAT	International Centre of Automotive Technology



31	ICT RA	Information and Communication Technology Reference Architectures
32	IEA	International Energy Agency
33	IEC	International Electrotechnical Commission
34	IEEE	Institute of Electrical and Electronics Engineers
35	IET	Institution of Engineering and Technology
36	IISc	Indian Institute of Science
37	IoT	Internet of Things
38	IPR	Intellectual Property Rights
39	IRD	International Relations Department
40	ISUW	India Smart Utility Week
41	ITS	Indian Telecom Service
42	ITU	International Telecommunication Union
43	LITDC	Electronics and Information Technology Division Council
44	LPWAN	Low-Power Wide-Area Networks
45	M2M	Machine to Machine Communication
46	MAIT	Manufacturers' Association for Information Technology
47	MEITY	Ministry of Electronics and Information Technology
48	MNRE	Ministry of new and renewable energy
49	MoHUA	Ministry of Housing and Urban Affairs
50	MoP	Ministry of Power
51	MoRTH	Ministry of Road Transport and Highways
52	MoU	Memorandum of Understanding
53	MSME	Micro, Small and Medium Enterprises
54	PV	Photovoltaics
55	PWDs	Persons With Disabilities
56	QCOs	Quality Control Orders
57	R&D	Research and Development
58	SAR	Specific Absorption Rate
59	SEP	Standard Essential Patent (SEP)
60	SESEI	Seconded European Standardization Expert for India
61	SLR WG	Standards Legal & Regulatory Working Group
62	SSD	Services Sector Department
63	STPI	Software Technology Parks of India
64	SyC	Systems Committee
65	TBT	Technical Barriers to Trade
66	TEC	Telecom Engineering Centre
67	TRAI	Telecom Regulatory Authority of India
68	TSDSI	Telecommunications Standards Development Society India
69	WEEE	Waste Electrical & Electronic Equipment

70	WG	Working Group
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