



CEN - European Committee for Standardization  
CENELEC - European Committee for Electrotechnical Standardization  
ETSI - European Telecommunications Standards Institute

EC - European Commission  
EFTA - European Free Trade Association

## In this Issue

## Greeting from SESEI!!!

1. [Headlines of the Quarter](#)
2. [Standards, TBTs, IPR & Market Access](#)
3. [Smart Cities](#)
4. [Mobility](#)
5. [ICT including services](#)
6. [Electrical Equipment including Consumer Electronics](#)
7. [Manufacturing/Mak e in India](#)
8. [R&D and Innovation](#)
9. [Energy Efficiency – Environment & Circular Economy](#)
10. [EU-INDIA/Trade-FTA/Investments](#)
11. [Invest India](#)
12. [Events](#)
13. [Annexure 1](#)
14. [Indian rupee](#)
15. [About Project SESEI](#)



Dear Readers,

A very warm welcome to the ninth edition of the “SESEI newsletter - Europe”. The main objective of the SESEI newsletters is to bring select updates on the activities, new initiatives and market development information from India concerning project priority sectors. The EU - India strategic alliance & collaboration is gaining importance and momentum as witnessed in the recently held engagements and it is our endeavour to bring value to our stakeholders by providing them relevant information, updates, and insights from India.

First, I would also like to take this opportunity to express my gratitude and extend sincere thanks to all of you for your kind participation to our SESEI IV Survey and providing valuable insight. The results collected from the survey have helped validated the needs, effectiveness, and support this project SESEI has provided to its stakeholders and to the overall project objectives. The survey data not only substantiates the synergies generated between Indian and European standardisation community but also helped in getting interesting insights and feedback such as how they think the project has benefited them, what more they desire further, appreciation for the contributions made by the project expert and their desire for the collaboration to continue between India and EU.

This newsletter carries updates from the Bureau of Indian Standards (BIS) covering release of guidance document on Quality Control Order (QCO) for products where use of Standard Mark under a Licence or Certificate of Conformity (CoC) is mandatory, and which explains various requirements specified in QCOs for better understanding towards implementation by the stakeholders. Ministry of Consumer Affairs, Food and Public Distribution (Department of Consumer Affairs) have sought public comments/suggestions on draft Consume Protection (Direct selling) Rules, 2021. As per the draft rules, direct selling companies must register themselves under relevant Indian laws and with the Department for Promotion of Industry and Internal Trade (DPIIT) for allotment of a registration number.

Another interesting development is around the [India’s Urban Data Exchange \(IUDX\)](#), an open-source data exchange platform for Indian Smart Cities, which has decided to adopt BIS standards for this Unified Data Exchange. In doing so, IUDX has become the first software platform in the country to fully adhere to the Architecture and API Specifications set by the standards’ body for data exchange platforms. The IUDX standard – IS 18003, is part of a series of 10 indigenous standards developed by BIS Smart Infrastructural Sectional Committee (LITD 28) for Indian Smart Cities to ensure a secure and sustainable digital infrastructure and to facilitate the implementation of various smart city projects. The commerce ministry said it unveiled plans for freight smart cities to improve urban freight efficiency and create an opportunity for reduction in the logistics costs.

For those interested in the Mobility, [EV Charging guidelines and handbook](#) is developed and released jointly by the NITI Aayog, the Power Ministry, the Department of Science and Technology, the Bureau of Energy Efficiency, and the World Resources Institute, India. The handbook provides a systematic and a holistic approach for adoption by implementing authorities and other stakeholders involved in planning, authorisation and execution of electric vehicles charging infrastructure. NITI Aayog have also released reports on [Fundamentals of Electric Vehicle Charging Technology and its Grid Integration](#) and [International Review on Integration of Electric Vehicles charging infrastructure with distribution grid](#). The Automotive Research Association of India (ARAI) has also indigenously developed charger for electric vehicles considering the need to boost up the charging mechanism of electric vehicles in the country. Govt of India have released a Voluntary Vehicle-Fleet Modernization Program (VVMP), also known as the Vehicle Scrapping Policy, and notified Production Linked Incentive (PLI) Scheme for automobile and auto components.

In the ICT sector, India is being touted as one of the four leading markets for 5G devices, even though the spectrum auction for 5G is yet to begin in India. Top trade and technology bodies from the US and UK have told the Indian government to adopt the 5G standards that have been recommended by the 3GPP. Similarly, India has reported the highest increase in the use of Artificial Intelligence (AI) at 45%, as compared to other major economies (the US at 35%, the UK at 23 % and Japan at 28 %). IT services and technology sectors contribute to more than 60% of the AI market, followed by Banking, financial services and insurance (BFSI), engineering and retail. An ambitious incentive scheme worth up to Rs 12,000 crore (€1.4 billion) is in the works to encourage companies to set up data centres in the country. Telecom department's apex body the Digital Communications Commission (DCC) has cleared a provision of using satellite connectivity in telecom networks to provide services in remote areas where it is difficult to lay optical fibre network.

I would also encourage you to download and read the report prepared by the Ministry of Electronics and IT (MeitY) on [making India a \\$1 trillion digital economy over the next few years](#). The report elaborates on the initiative for making India the largest connected nation in the world, bringing coherence into digital governance, simplifying rules and legislations for technology and social media companies, and focusing on building India's high-tech prowess. Govt has also earmarked Rs 22,500 crore (€2.6 billion) for smart pre-paid meters under new discom scheme.

For those interested in the circular economy (CE) and resource efficiency (RE), MEITY has [formulated policy paper on circular economy to deal with E-Waste](#). This policy paper will resonate with many of you actively engaged in the CE/RE related activities. Govt. is also exploring the possibility of Hydrogen Fuel Cells to be used as fuel for the future of the country and made clean energy commitments at UN summit India.

We encourage our stakeholders to make optimal use of this SESEI Newsletter and get required information on sector of your interest. The newsletter also comprises updates around Manufacturing/Make in India, R&D and Innovation, EU-India/Trade-FTA/Investments and of upcoming important events/ seminars, workshops and the detailed annexure covering draft standards as being formulated by the standardization bodies.

Hope you will find this Newsletter informative. Happy Reading!!!!

Warm Regards,

Dinesh Chand Sharma

**(Seconded European Standardization Expert in India)**

[Back to contents](#)

**[The List of Draft Indian Standards as issued by BIS for eliciting technical comment along with Standards as published by ARAI and TSDSI are available as part of Annexure 1 to this newsletter.](#)**

## Headlines of the Quarter

### Standards/IPR/TBT-Market Access

#### Draft Consumer Protection (Direct selling) Rules, 2021

Ministry of Consumer Affairs, Food and Public Distribution (Department of Consumer Affairs) sought public comments/suggestions on draft Consume Protection (Direct selling) Rules, 2021. As per the draft rules, direct selling companies are banned from promoting pyramid schemes or money circulation schemes. Direct selling companies must register themselves under relevant Indian laws and with the Department for Promotion of Industry and Internal Trade (DPIIT) for allotment of a registration number. [Read more>>](#)

#### BIS released guidance document on Quality Control Orders (QCOs)

Bureau of Indian Standards (BIS), in pursuance of its objectives to bring out 'Guidance Documents' on 100 Products under Indian Standards established in the different areas such various Civil Engineering, Electrotechnical, Textiles, Mechanical, Medical Devices, Services etc. The objective of the Guidance Document is to provide information on applicable requirements for products or services to the stakeholders of BIS, especially the industry, and provide necessary practical guidance to ensure that the products or services so produced comply with relevant Indian Standards and related regulatory requirements. The Bureau of Indian Standards (BIS) has published a guide on QCOs in India. This guidance document provides for easy comprehension of QCOs and explains various requirements specified in QCOs for better understanding towards implementation by the stakeholders. [Read more>>](#)

#### MoU between Permanent Mission of India to the WTO, Centre for Trade and Investment Law and Centre for Trade and Economic Integration

The Union Cabinet has approved the signing of a MoU between Permanent Mission of India to the WTO (PMI), Centre for Trade and Investment Law (CTIL) of the Indian Institute of Foreign Trade, and Centre for Trade and Economic Integration (CTEI) within The Graduate Institute of International and Development Studies, Geneva. The MoU will provide valuable academic and research opportunities to the employees of CTIL and the Department of Commerce in the field of international trade and investment law. [Read More>>](#)

#### Start-up Accelerators of MeitY for Product Innovation, Development, and growth

"Start-up Accelerators of MeitY for Product Innovation, Development and growth (SAMRIDH)" programme, was launched by Ministry of Electronics & Information Technology so as to create a conducive platform to Indian Software Product star-ups to enhance their products and securing investments for scaling their business. The programme is being implemented by MeitY Start-up Hub (MSH). [Read More>>](#)

#### Govt to introduce further reforms to push more Indian patents, raise awareness

The Commerce and Industry Ministry is set to introduce further reforms in the patent filing process to expedite the application, examination, and approval of all intellectual property rights, according to sources. The focus remains on patent filings, which has been pushed by the government over the past three years. [Read More>>](#)

[Back to contents](#)

## Smart Cities

### IUDX becomes first software platform to fully adopt BIS Standards for Unified Data Exchange

The India Urban Data Exchange (IUDX), an open-source data exchange platform for Indian Smart Cities, announced adoption of the Indian standards for Unified Data Exchange specified by Bureau of Indian Standards (BIS), the national standards body of India. In doing so, IUDX has become the first software platform in the country to fully adhere to the Architecture and API Specifications set by the standards' body for data exchange platforms. The Unified Data Exchange standard – IS 18003, is part of a series of 10 indigenous standards developed by BIS Smart Infrastructural Sectional Committee (LITD 28) for Indian Smart Cities to ensure a secure and sustainable digital infrastructure and to facilitate the implementation of various smart city projects. The foundational standard for this series is IS18000 Unified Digital Infrastructure – ICT Reference Architecture (UDI-ICTRA) and IoT System Part 1 Reference Architecture (IS 18004 : Part 1 : 2021) which is based on oneM2M CSF and Unified Data Exchange Part 2 API specifications (IS 18003 : Part 2 : 2021) includes NGSI-LD (ETSI CIM) . [Read More>>](#)

### Government unveils plans for freight smart cities to reduce logistics cost

The commerce ministry said it unveiled plans for freight smart cities to improve urban freight efficiency and create an opportunity for reduction in the logistics costs. Under the freight smart cities initiative, city-level logistics committees would be formed, and they will have related government departments and agencies at the local and state levels. These would also include the private sector from the logistics services and users of logistics services, the ministry said in a statement.

“On the freight smart city initiatives, the logistics division is working closely with GIZ (Germany) under Indo-German Development Cooperation, Rocky Mountain Institute (RMI) and RMI India. A challenge is expected to be announced to encourage the participation of cities in this initiative," it said. From the 10 cities to be identified on immediate basis, it is planned to expand the list to 75 cities in the next phase before scaling up throughout the country, including all state capitals and cities that have more than one million population. [Read More>>](#)

[Back to contents](#)

## Mobility

### NITI Aayog launches guide for setting up EV charging points

To enhance the necessary infrastructure to facilitate a rapid transition to electric mobility in the country, the NITI Aayog released a handbook to help state governments and local bodies to frame policies and norms towards setting up charging networks for electric vehicles.

Jointly developed by the NITI Aayog, the Power Ministry, the Department of Science and Technology, the Bureau of Energy Efficiency, and the World Resources Institute, India, the handbook provides a systematic and a holistic approach for adoption by implementing authorities and other stakeholders involved in planning, authorisation and execution of electric vehicles charging infrastructure. It presents an overview of the technological and regulatory frameworks and governance structures needed to facilitate electric vehicles charging and focuses on the present needs of charging infrastructure development while considering the evolving nature of the sector. [Read More>>](#)

### ARAI Successfully Develops Indigenous Chargers for Electric Vehicles

The Automotive Research Association of India (ARAI) has indigenously developed charger for electric vehicles considering the need to boost up the charging mechanism of electric vehicles in the country announced, Director, ARAI during a press conference. He said that to promote EV, infrastructure for charging is important and since the

mobility chargers are imported, the focus of ARAI is to develop chargers indigenously, which will be cost-effective and boost the local economy. The Bureau of Indian Standards (BIS) has already set a common standard specification for EV chargers. The charging points will be set up by Bharat Electronics and parts for EV charger systems will be manufactured locally. [Read More>>](#)

### **PM launches Vehicle Scrappage Policy**

Prime Minister launched the Voluntary Vehicle-Fleet Modernization Program (VVMP), also known as the Vehicle Scrapping Policy. The vehicle scrappage policy will bring in investments of around INR 10,000 crore (€1.2 billion) to set up 450-500 Automated Testing Stations (ATS) and 60-70 Registered Vehicle Scrapping Facilities (RVSF) across the country. A single window clearance portal is being developed where the applications for ATS and RVSF will be catered through a single portal within 60 days. A vehicle will be declared as End-of-Life or unfit if it fails the automated fitness test, the allowed retest and reinspection test if ordered by the appellate authorities. [Read More>>](#)

### **Government notifies PLI scheme for auto sector**

The government has notified Production Linked Incentive (PLI) Scheme for automobile and auto components after approving it on September 15. The PLI Scheme aims to overcome the cost of disabilities and encourage the industry to make fresh investments to make advanced auto products. It is estimated that in five years, this PLI Scheme will lead to fresh investments of over Rs 42,500 crore (€8.5 billion), and incremental production of over Rs 2.3 lakh crore (€27 billion). It will create additional jobs of over 7.5 lakh jobs and enhance India's share in the global automotive trade. [Read More>>](#)

### **Government Plans Institution to Fund Businesses Focused on Electric Vehicles**

According to a recent report, India's electric vehicle financing industry is projected to be worth Rs 3.7 lakh crore (€43.5 billion) in 2030, which would be about 80% of the current retail vehicle finance industry. The government is planning to set up an institution to fund businesses with a focus on electric vehicles as well as facilitate new financial instruments for lending to the public transportation and commercial vehicle segment, Union minister Nitin Gadkari said. Gadkari also said the government is planning to bring incentives for construction equipment vehicles to encourage them to become electric ones. [Read More>>](#)

### **Indian EV industry records INR 25,045 crore (€2.9 billion) investments in last seven months**

The Covid-19 pandemic and its damage to the Indian economy did not deter the discerning investors from lapping up opportunities in the electric vehicle and e-mobility sector. Many financial deals and the funds involved vindicate this fact. Collective investment done by e2W, e4W, EV component makers, electric commercial vehicles, and last-mile delivery companies was recorded at INR 25,045.31 crores (€2.9 billion) during January-July 2021. Electric commercial vehicles led the investments with a 32% share. Electric 4W saw an investment of 28% where M&M invested INR 3000 crore (€0.35 billion) making its contribution at 12%. It has already invested INR 1,700 crore (€0.2 billion) in India's EV business, with another INR 500 crore earmarked for a new research and development (R&D) centre. [Read More>>](#)

### **NITI Aayog released following reports**

- Report 1 - Fundamentals of Electric Vehicle Charging Technology and its Grid Integration [Read more/Download>>](#)
- Report 2 - International Review on Integration of Electric Vehicles charging infrastructure with distribution grid [Read more/Download>>](#)

### **MoRTH/Railway ministry Notifications**

### Ministry of Road, Transport and Highways issued following notifications:

- Exempting Battery Operated Vehicles from paying fees for the issuance or renewal of registration certificates, as well as the assignment of new registration marks. [Read more>>](#)
- Order specifying types of Motor Vehicle on the basis of its usage [Read more>>](#)
- Regarding Electronic Monitoring and Enforcement for Road Safety [Read more>>](#)
- Procedure for Accreditation of Testing Agencies [Read more>>](#)

### Railway Ministry issued following notifications:

- Implementation of Public Procurement (Preference to Make in India) Order, 2017. [Read more>>](#)
- Ensuring full compliance of Public Procurement product (Preference to 'Make in India' Order), 2017 [Read more>>](#)
- Misclassification of Goods as Works in procurement [Read more>>](#)

[Back to contents](#)

## ICT including services

### Global trade bodies push for 3GPP compliant 5G in India

Top trade and technology bodies from the US and UK have told the Indian government to adopt the 5G standards that have been recommended by the 3GPP. India is currently in confusion about which 5G standard it should go with - 5Gi developed by Telecommunications Standards Development Society, India (TSDSI) or the 3GPP developed 5G standard. The top international trade bodies have urged the Indian government to go ahead with 3GPP standards which will give a much-needed push to electronic manufacturing in India as companies will be encouraged to set up their operations in India. "By using globally harmonized standards such as those from 3GPP, companies can set up manufacturing operations in India with the confidence that they can easily serve both the Indian market and export to global markets," the bodies said in a joint submission letter to the Department of Telecommunications (DoT) and the Telecommunications Engineering Centre (TEC). [Read More>>](#)

### AI Adoption Can Add USD 90 Billion To Indian Economy By 2025: Report

During the pandemic, India has reported the highest increase in the use of AI at 45%, as compared to other major economies (the US at 35%, the UK at 23 % and Japan at 28 %). In fact, AI startups in India attracted total funding of \$836.3 million in 2020. Also, despite the total number of high-value funding shrunk, the companies that received funding almost doubled in 2020 compared to 2019," according to homegrown independent Transaction Advisory firm, RBSA Advisors. According to the study titled 'Artificial Intelligence & Its role in Delivering Economic Value to Indian Enterprise, investment in AI has accelerated in India during the pandemic and the country has a potential to be a global epicentre of AI. IT services and technology sectors contribute to more than 60% of the AI market, followed by BFSI, engineering and retail. [Read More>>](#)

### Government wants to make India a data centre hub, plans Rs 12,000 crore sops

An ambitious incentive scheme worth up to Rs 12,000 crore (€1.4 billion) is in the works to encourage companies to set up data centres in the country. The govt. is targeting an investment of Rs 3 lakh crore in the next five years as part of the hyperscale data centre scheme and is planning to provide between 3% and 4% of capital investment as incentive to companies, along with real estate support and faster clearances. Vision is to "make India a global data centre hub" and termed the scheme's target as the largest so far in terms of expected investment in the country over a period of just five years. [Read More>>](#)

### **India among top 4 markets for 5G devices sans network support; 40 mn shipments likely in 2021**

India is nowhere close to launching 5G services but has already become the 4<sup>th</sup> largest market for smartphones supporting the next gen technology in terms of shipments, say market research firms. As per IDC, India trailed China, USA, and Japan in terms of 5G smartphone shipments at the lowest average selling price at \$410. IDC expects India to reach around 40 million 5G smartphone shipments, which is around 24% of the total, by end of 2021, up from around 3.5 million in 2020. Research expects around 32 million 5G smartphones. [Read More>>](#)

### **DCC clears satellite connectivity for telecom networks: DoT Secretary**

Telecom department's apex body the Digital Communications Commission (DCC) has cleared a provision of using satellite connectivity in telecom networks to provide services in remote areas where it is difficult to lay optical fibre network. Telecom Secretary said that the DCC (formerly the Telecom Commission) has also cleared the Request for Proposal for the rollout of BharatNet project for broadband services in villages in 16 states in public private partnership mode with viability gap funding of Rs 19,041 crore (€2.2 billion). "With a view of ease of doing business, the DCC has approved provision of cellular backhaul connectivity via satellite through VSAT for telecom services as per Trai recommendation. "This will help telecom companies in providing service in far flung areas where it is difficult to lay optical fibre," Prakash said. [Read More>>](#)

### **Notifications and Publications Released by Telecom Engineering Centre**

- Annual Action Plan - TEC (2021-22) [Read more>>](#)
- Green Passport Lab - TEC sets up Green Passport Lab which is conceptualised as a test bed for testing of Telecom devices for Energy efficiency. [Read more>>](#)
- Inviting public comments on Adoption of TSDSI transposed OneM2M release-3 standard into national standards by TEC [Read more>>](#)
- Inviting comments on Adoption of TSDSI standard for Radio Interface Technology (5Gi) into national standards by TEC [Read more>>](#)
- Technology Approval certificate for CDoT's developed XGS-PON system [Read more>>](#)
- Energy Consumption Rating and Test Facility in TEC [Read more>>](#)
- Adoption of TSDSI transposed standards for 3GPP Release-15 into national standards by TEC – Inviting the public comments by 28th August 2021. [Read more>>](#)
- Release of Code of Practice for securing Consumer Internet of Things (IoT). [Read more/Download>>](#)

[Back to contents](#)

### **Electrical Equipment including Consumer Electronics**

#### **Govt earmarks Rs 22,500 crore (€2.6 billion) for smart pre-paid meters under new discom scheme**

States which can install smart prepaid meters before December 2023 will also be eligible for an additional incentive of Rs 450 per meter. According to an office memorandum released by the Union power ministry on the contours of the discom scheme, the new meters are to be installed first in the 500 cities covered under the Atal Mission for Rejuvenation and Urban Transformation (Amrut) programme where aggregate technical and commercial (AT&C) losses — an indicator of pilferage — are greater than 15%. [Read More>>](#)

### **Tata Power Ties Up with AutoGrid for AI Based Energy Management**

Tata Power-DDL and AutoGrid are jointly launching a behavioural demand response program for company's residential customers to reduce peak demand and network capital costs. This pilot project aims to empower customers, by helping them understand their consumption patterns and evaluate the effectiveness of demand

response (DR) programs. AutoGrid is a global leader in AI-based energy management solutions, to undertake joint project around demand response (DR), distributed energy resource management (DERMS), electric vehicles (EVs), virtual power plants (VPPs), energy storage optimization, flexibility management, forecasting, and renewable integration. Tata Power-DDL and AutoGrid both will strive to develop and deploy cutting-edge energy management technologies to optimize usage for the larger benefit of Tata Power-DDL customers. [Read More>>](#)

### **MeitY has a 1,000-day plan for a \$1-trillion digital economy**

The Ministry of Electronics and IT (MeitY) has chalked out a 1,000-day agenda, aiming to make India a \$1 trillion digital economy over the next few years. Key to the initiative will be making India the largest connected nation in the world, bringing coherence into digital governance, simplifying rules and legislations for technology and social media companies, and focusing on building India's high-tech prowess. [Read More>>](#)

### **Ministry of Power (MoP) has released following notifications**

- Electricity (Rights of Consumers) Amendment Rules, 2021. [Read more/download>>](#)
- Order on Testing power system equipment for use in the Supply System & Network in the country for Cyber Security. [Read more>>](#)
- Seeking comments Draft Electricity (Promoting renewable energy through Green Energy Open Access) Rules, 2021. [Read more>>](#)
- Guidelines for Encouraging Competition in Development of Transmission Projects and TBCB Guidelines. [Read more>>](#)

### **Ministry of New and Renewable Energy (MNRE) issued following notifications/guidelines**

- Public Procurement (Preference to Make in India) to provide for Purchase Preference (linked with local content) in respect of Renewable Energy (RE) Sector [Read more/Download>>](#)
- Financial Support Scheme to Promote Innovative Industrial Organic Waste-to-Energy (IOWtE) Biomethanation Technologies and Business Models in India & GIS Waste Mapping Tool under GEF-MNRE-UNIDO Project [Read more>>](#)
- Invitation for Expression of Interest (EOI) for conducting evaluation of the programme/scheme for "Development of Solar Parks and Ultra Mega Solar Power Projects" [Read more>>](#)

[Back to contents](#)

## **Manufacturing/Make in India**

### **Government takes Series of Measures to Incentivize the Manufacturing Sector**

- **Production Linked Incentive scheme:** For enhancing India's Manufacturing capabilities and exports, an outlay of Rs 1.97 lakh crore (€23.2 billion) has been announced in Union Budget 2021-22 for production linked incentive scheme for 13 key sectors for 5 years starting from fiscal year 2021-22.
- **Ease of doing business and compliance burden:** Initiatives taken for compliance reduction are focused on simplifying and digitizing various processes, reduction in documents in documents to be submitted along with applications, reduction in frequency of inspections, etc.
- **Foreign Direct Investment (FDI):** 100% FDI is permitted in manufacturing sector under automatic route.
- **Public Procurement:** To promote domestic investment and usage of made in India products by the government, the public procurement (Preference to Make in India) order has been revised on 16.09.2020
- **Industrial Corridor:** The National Corridor Program (NICP) has been conceived to promote world class manufacturing facilities and develop futuristic industrial cities in India.

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### **Make in India initiative focuses on 27 sectors under 2.0**

Minister of State in the Ministry of Commerce and Industry said that Make in India initiative has made significant achievements and presently focuses on 27 sectors under Make in India 2.0. Department for Promotion of Industry and Internal Trade is coordinating action plans for manufacturing sectors, while Department of Commerce is coordinating service sectors. Accordingly, the Govt. is making continuous efforts under Investment Facilitation for implementation of Make in India action plans to identify potential investors. Investment Outreach activities are being carried out for enhancing international co-operation for promoting FDI and improve Ease of Doing Business in the country. [Read More>>](#)

[Back to contents](#)

## **R&D and Innovation**

### **Investment in R&D increased over the years and during the last 10 years, it has increased by 3 times**

Investment in R&D in terms of Gross Expenditure on R&D (GERD) has been consistently increasing over the years and during the last 10 years, the GERD of India in gross terms has increased by 3 times. Govt. has been making concerted efforts to encourage private sector to invest into R&D. Corporates can invest in technology business incubators or contribute in research efforts carried out by institutions and national research laboratories as a part of their CSR. Several steps have been taken to incentivize the private sector's R&D participation by improving the ease of doing business in the STI activities; introducing flexible tools for public procurement; creating avenues for collaborative STI funding through portfolio-based funding mechanisms such as Public-Private-Partnerships and other innovative hybrid funding mechanisms. [Read More>>](#)

### **India can be among top 25 in Global Innovation Index**

A collaborative model from industry to map best innovation practices will take India to the league of top 25 countries in the Global Innovation Index from the 48th rank in 2020 and make it the innovation powerhouse of the world, Commerce & Industry Minister said. Minister announced 80% reduction on fee for filing of IPRs for all recognised educational institution in India and abroad. The key achievements highlighted by Goyal include granting of 28,391 patents in 2020-21 as compared to 4,227 grants during 2013-14 (572% growth), reduction in time of patent examination from 72 months in December 2016 to 12-24 months in Dec 2020 and 1.42 million trademark registrations in last four years in comparison to 1.1 million during the previous 75 years (1940-2015). [Read More>>](#)

[Back to contents](#)

## **Energy Efficiency & Environment including Circular Economy**

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

Centre has formed 11 committees, each led by a ministry, to prepare action plans for transitioning from a linear to a circular economy in their respective focus areas. Aiming to deal with e-waste as part of the larger plan of the govt. to encourage circular economy or ensuring zero to minimal wastage in the use of electronics and electrical sector, the Ministry of Electronics & Information Technology has formulated a policy paper that deals with these issues. The paper, "Circular Economy in Electronics and Electrical Sector," focuses on the life cycle of electronics including stages of raw material acquisition, design, manufacturing /production stage, consumption to end of life (e-waste) management, and secondary raw materials utilisation. [Read More>>](#)

[Download Policy Paper on CE>>](#)

### **Govt. is exploring the possibility of Hydrogen Fuel Cells to be used as fuel for the future of the country**

Government of India has announced the National Hydrogen Mission for making hydrogen roadmap for the country. Department of Science & Technology (DST) has launched Hydrogen and Fuel Cell Program to support research on Hydrogen and Fuel Cell that aims to develop transformational technologies to reduce the cost of hydrogen production, distribution & storage, diversify feedstock available for economic hydrogen production, enhance flexibility of power grid, and reduce emissions through novel uses of low-cost hydrogen. DST has supported twenty-nine projects and two Energy Storage Platforms on Hydrogen under this program. [Read More>>](#)

### **India makes clean energy commitments at UN Summit**

India makes clean energy commitments at UN summit India at the first leader-level meeting on energy under the UN General Assembly in 40 years has made commitments to increase renewable energy installed capacity to 450 GW by 2030 and develop and implement a National Hydrogen Energy Mission to scale up annual green hydrogen production to 1 MT by 2030. Also, it announced to begin a Production Linked Incentive Scheme to add 10 GW solar PV manufacturing capacity by 2025. India's announcements were among new multi-billion-dollar commitments made to countries to increase renewables and access to electricity and clean cooking technologies. [Read More>>](#)

### **India, UK to promote industrial energy efficiency**

India and the UK have launched a new workstream to promote industrial energy efficiency, under the Clean Energy Ministerial's (CEM) Industrial Deep Decarbonization Initiative (IDDI), the power ministry said in a statement. This year, India, along with the Government of the United Kingdom, launched a new workstream to promote industrial energy efficiency under the CEM's IDDI coordinated by the United Nations Industrial Development Organization (UNIDO). The IDDI initiative has been supported by Germany and Canada, with more countries expected to join soon. The objective is to infuse green technologies and stimulate demand for low-carbon industrial material. The commitment hinges on effective deployment of low carbon technologies in energy-intensive sectors like iron and steel, cement, petrochemicals. [Read More>>](#)

### **India to Become Global Hub for Green Hydrogen**

On the 75th Independence Day, Prime Minister formally announced the launch of National Hydrogen Mission to push plans to generate carbon-free fuel from renewable. He also has set a target of 2047 for India to achieve self-reliance in energy. India can achieve self-reliance in energy through a mix of a gas-based economy, blending 20 % ethanol in petrol and moving towards electric mobility. India has achieved the target of 100 gigawatts of renewable energy capacity ahead of the set target. Indian Oil Corporation (IOC) is working on technology to develop hydrogen-spiked compressed natural gas or H-CNG. [Read More>>](#)

### **Ministry of Environment, forest and Climate Change released following notifications:**

Ministry of Environment, Forest and Climate Change released Plastic Waste Management Rules, 2021, prohibiting identified single use plastic items by 2022. [Read more>>](#)

[Back to contents](#)

## EU-India/Trade-FTA/Investments

### India and EU set to resume free trade agreement talks after 8 years

The parties have agreed to launch negotiations on key issues such as market access, investment protection and geographical indications. Talks with the EU on a free trade agreement are set to begin later this month after eight years with the commerce ministry scheduling a meeting among the stakeholders. Sources said the dates for the first few sessions with the EU representative have been set before the end of this month. The parties have agreed to launch negotiations on key issues such as market access, investment protection and geographical indications. The preliminary talks on the Broad-based Trade and Investment Agreement (BTIA) will be based on the initial recommendations of industry groups. [Read More>>](#)

### India &UK aim for launching the negotiations on FTA by 1st November 2021

India and UK are aiming to launching the negotiations on FTA by November 2021. Proposed FTA between India & UK is expected to unlock extraordinary business opportunity and generate jobs. Both sides have renewed their commitment to boosting trade in a manner which benefits all. Since the 'Declaration' on launch of Enhanced Trade Partnership, announced by Prime Ministers on 4th May 2021, both countries have made substantial progress on various aspects of partnership. [Read More>>](#)

### Cabinet approves the MoU between the ICMR and the Foundation for Innovative New Diagnostics, Switzerland

The Union Cabinet, chaired by Prime Minister, was apprised of a MoU signed between the Indian Council of Medical Research (ICMR) and Foundation for Innovative New Diagnostics (FIND), Switzerland to strengthen the relation within the framework of the international scientific and technological collaboration and to promote cooperation in fields of mutual interest. The MoU has been signed in February'2021 by India. This MoU will further strengthen relations between India and the Switzerland within the framework of inter-national scientific and technological co-operation in fields of mutual-interest. [Read More>>](#)

[Back to contents](#)

## Invest India

### Single-window portal for investors launched

A one-stop-shop for investors to obtain approvals, promote ease of doing business' Commerce and Industry Minister, launched the single-window portal for investors and businesses. The portal will serve as a one-stop-shop for investors for approvals and clearances. The National Single Window System (NSWS) will usher in a change from the legacy of running to government offices and will promote the ease of doing business, said the Minister at the launch. The portal, hosts approvals across 18 Central Departments and nine States, and another 14 Central Departments and five States will be added by December 2021," according to an official statement. [Read More>>](#)

[Back to contents](#)

## Event calendar 2021

### Smart Mobility Expo

**When: 26-28 Oct 2021**

**Where: Pragati Maidan, New Delhi, India**

With the emergence of the new mobility eco system, Smart Mobility Expo held along with Trafficinfratech Expo and Parking Infratech Expo will focus on Future Mobility providing a platform for Electric Vehicles, Connected and Autonomous vehicles, Highspeed travel modes, Sustainable rapid transport, Common payment modes and emerging technologies including. IoT, data flow and cloud services. For more information please [click here](#)

### India Mobile Congress

**When: 11 - 13 Nov 2021**

**Where: New Delhi, India**

India Mobile Congress is envisaged to be a massive global event. It aims at building ideas, forging lasting Industry relationships, showcasing leading-edge digital technology & product trends, manufacturing services, sectoral insights and impactful solutions. For more information, please [click here>>](#)

### India Smart Utility Week

**When: 02 - 05 Mar 2022**

**Where: New Delhi, India**

Electricity Utilities, Policy Makers, Regulators, Investors and world's top-notch Smart Grid and Smart City Experts and Researchers to discuss trends, share best practices and showcase next generation technologies and products. For more information, please [click here>>](#)

### Smart Cities India Expo

**When: 23 - 25 Mar 2022**

**Where: Pragati Maidan, New Delhi, India**

The Smart Cities India Expo is design to bring together the city leaders and representatives from international organizations, academic institutions, and private companies, aiming at establishing a knowledge hub for Smart Cities. For more information please [click here>>](#)

### Distribution Utility Week (DUM) 2021

**When: 17-19 Nov 2021**

**Where: New Delhi, Delhi**

As India embarks on its smart grid journey, it is imperative that we do not make the same mistakes but learn from each other's experiences. Given the nebulous nature of smart grids, which have been described as a journey more than a destination, as well as the fact that there is no single architecture, standard, etc., there is immense value to utilities in sharing best practices, lessons learned, challenges faced, etc., in addition to collectively stating needs which will be relevant for solution providers as well as policymakers and regulators. For more information please [click here](#)

### EV India Expo

**When: 24 - 26 Dec 2021**

**Where: India Exposition Mart, Greater Noida, India**

Electric Vehicle (EV) India offers comprehensive market information, great business opportunities, and a platform for networking of Electric Vehicles manufacturers. For more information, please [click here>>](#)

### PowerGen India 2021

**When: 27-29 Oct, 2021**

**Where: IECC, PRAGATI MAIDAN, NEW DELHI, INDIA**

PowerGen India 2021 has served as India's premier forum for the power generation industry - from conventional to renewable energy and other low-carbon options. For more information, please [click here](#)

#### **NuGen Mobility Summit**

**When: 27 - 29 Oct 2021**

**Where: ICAT Centre 2, Gurgaon, India**

The NuGen Mobility Summit will bring together experts from the automotive industry, system and technology companies, experts in technology domains, researchers, policymakers, test houses/agencies, associations, academia, etc. For more information, please [click here>>](#)

#### **POWERGEN India**

**When: 27 - 29 Oct 2021**

**Where: Pragati Maidan, New Delhi, India**

As the nation's flagship energy conference & exhibition, POWERGEN India continues to recognise the vital role flexible generation is playing in the energy transition and the trends towards distributed generation. For more information, please [click here>>](#)

#### **International Conference on Cyber Law, Cyber Crime & Cybersecurity**

**When: 24 - 26 Nov 2021**

**Where: New Delhi, India**

The International Conference on Cyberlaw, Cybercrime & Cybersecurity aim is to examine and analyze the emerging Cyberlaw, Cybercrime and Cybersecurity trends of today's times. For more information, please [click here>>](#)

[Back to contents](#)

## Annexure 1

### Electrical Equipment including Consumer Electronics (ETD)

The following Draft Indian Standards were issued by Electro-Technical division council at BIS during the last quarter for eliciting technical comment:

At Bureau of Indian Standards (BIS)				
Electrotechnical (ETD)				
SI No	Document No	Title of the Doc	IEC/ISO	Give comments
1	<a href="#">ETD 40(17931)</a>	Performance of high - Voltage direct current (Hvdc) systems with line - Commutated converters: Part 2 faults and switching (First Revision) Amendment - 1	IEC TC- 22F SC- 22F (P)	<a href="#">Comment</a>
2	<a href="#">ETD 40(17933)</a>	High - Voltage direct current (HVDC) power transmission using voltage sourced converters (Vsc) Amendment - 1	IEC TC- 22F SC- 22F (P)	<a href="#">Comment</a>
3	<a href="#">ETD 1(18035)</a>	Basic and safety principles for man-machine interface marking and identification - Identification of equipment terminals conductor terminations and conductors	IEC TC-1 (O); IEC TC-3 (P) IEC TC- SC-3C (O); IEC TC-8 (P) IEC TC-25 (O) IEC TC-70 (O)	<a href="#">Comment</a>
4	<a href="#">ETD 6(17554)</a>	Insulators for overhead lines with a nominal voltage above 1 000 V - Ceramic insulators for ac systems - Characteristics of insulator units of the long rod type	IEC TC- (P); IEC TC- 36A SC- 36A (O)	<a href="#">Comment</a>
5	<a href="#">ETD 6(17555)</a>	Insulated bushings - Guide for the interpretation of dissolved gas analysis (DGA) in bushings where oil is the impregating medium of the main insulation (generally paper)	IEC TC- (P); IEC TC- 36A SC- 36A (O)	<a href="#">Comment</a>
6	<a href="#">ETD 6(17556)</a>	Characteristics of line post insulators	IEC TC- (P); IEC TC- 36A SC- 36A (O)	<a href="#">Comment</a>
7	<a href="#">ETD 6(17557)</a>	Insulators of ceramic material or glass for overhead lines with a nominal voltage greater than 1 000 V - Impulse puncture testing in air	IEC TC- (P); IEC TC- 36A SC- 36A (O)	<a href="#">Comment</a>
8	<a href="#">ETD 6(17558)</a>	Insulators for overhead lines with a nominal voltage above 1000 V - Ceramic or glass insulator units for dc systems - Definitions test methods and acceptance criteria	IEC TC- (P); IEC TC- 36A SC- 36A (O)	<a href="#">Comment</a>

9	<a href="#">ETD 6(17559)</a>	Composite hollow insulators - Pressurized and unpressurized insulators for use in electrical equipment with rated voltage greater than 1 000 V - Definitions test methods acceptance criteria and design recommendations	IEC TC- (P); IEC TC- 36A SC-36A (O)	<a href="#">Comment</a>
10	<a href="#">ETD 6(18026)</a>	Thermal-mechanical performance test and mechanical performance test on string insulator units	IEC TC- (P); IEC TC- 36A SC-36A (O)	<a href="#">Comment</a>
11	<a href="#">ETD 6(18031)</a>	Bushings - Seismic qualification	IEC TC- (P); IEC TC- 36A SC-36A (O)	<a href="#">Comment</a>
12	<a href="#">ETD 6(18032)</a>	Hybrid insulators for ac and dc for high-voltage applications - Definitions test methods and acceptance criteria	IEC TC- (P); IEC TC- 36A SC-36A (O)	<a href="#">Comment</a>
13	<a href="#">ETD 6(18042)</a>	Characteristics of hollow pressurised and unpressurised ceramic and glass insulators for use in electrical equipment with rated voltages greater than 1000 V	IEC TC- (P); IEC TC- 36A SC-36A (O)	<a href="#">Comment</a>
14	<a href="#">ETD 6(18043)</a>	Selection and dimensioning of high-voltage insulators intended for use in polluted conditions - Part 4: Insulators for dc systems	IEC TC- (P); IEC TC- 36A SC-36A (O)	<a href="#">Comment</a>
15	<a href="#">ETD 19(17963)</a>	Instruments And Software Used For Measurements In High-Voltage And High-Current Tests Part 1: Requirements For Instruments For Impulse Tests First Revision	IEC TC-28 (P); IEC TC-42 (P); IEC TC-109 (O)	<a href="#">Comment</a>
16	<a href="#">ETD 21(12691)</a>	Arc welding equipment: Part 12 Coupling devices for welding cables	ISO TC-44 (O); IEC TC-26 (O)	<a href="#">Comment</a>
17	<a href="#">ETD 23(17898)</a>	Double-Capped LED Linear Lamps Part 2 Performance Specification		<a href="#">Comment</a>
18	<a href="#">ETD 25(16905)</a>	Lifts Elevators Escalators and Moving Walks Programmable Electronic Systems in Safety Related Applications Part 3 Life Cycle Guideline for Programmable Electronic Systems related to PESSRAL and PESSRAE	ISO TC- 178 (P)	<a href="#">Comment</a>
19	<a href="#">ETD 25(16911)</a>	Electrical Requirements for Lifts Escalators and Moving Walks Part 1 Electromagnetic Compatibility With Regard To Emission	ISO TC- 178 (P)	<a href="#">Comment</a>
20	<a href="#">ETD 25(16924)</a>	Passenger lifts and service lifts Guide rails for lift cars and counterweights T-type	ISO TC- 178 (P)	<a href="#">Comment</a>
21	<a href="#">ETD 25(18075)</a>	Electrical requirements for lifts escalators and moving walks Part 2 Electromagnetic compatibility with regard to immunity	ISO TC- 178 (P)	<a href="#">Comment</a>
22	<a href="#">ETD 28(17951)</a>	Photovoltaic Devices Part 2 : Requirements for Reference Solar Devices Second Revision	IEC TC-82 (P)	<a href="#">Comment</a>

23	<a href="#">ETD 28(17952)</a>	Photovoltaic Devices Part 7: Computation of the Spectral Mismatch Correction For Measurements of Photovoltaic Devices First Revision	IEC TC-82 (P)	<a href="#">Comment</a>
24	<a href="#">ETD 28(17953)</a>	Photovoltaic Devices Part 9: Solar Simulator Performance Requirements First Revision	IEC TC-82 (P)	<a href="#">Comment</a>
25	<a href="#">ETD 28(17954)</a>	Photovoltaic Devices Part 10: Methods of Linear Dependence and Linearity Measurements Second Revision	IEC TC-82 (P)	<a href="#">Comment</a>
26	<a href="#">ETD 28(17955)</a>	Solar Photovoltaic Energy Systems Terms Definitions and Symbols Second Revision	IEC TC-82 (P)	<a href="#">Comment</a>
27	<a href="#">ETD 28(17957)</a>	Utility-Interconnected Photovoltaic Inverters Test Procedure for Under Voltage Ride-Through Measurements First Revision	IEC TC-82 (P)	<a href="#">Comment</a>
28	<a href="#">ETD 32(17858)</a>	Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 4 Spin Extractors	IEC TC- 61B, 61H, 61J SC- 61B, 61H, 61J (P); IEC TC- 59A, 59C, 59D, 59F, 59L SC- 59A, 59C, 59D, 59F, 59L (P)	<a href="#">Comment</a>
29	<a href="#">ETD 32(17877)</a>	Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 2 Vacuum Cleaners And Water-Suction Cleaning Appliances	IEC TC- 61B, 61H, 61J SC- 61B, 61H, 61J (P); IEC TC- 59A, 59C, 59D, 59F, 59L SC- 59A, 59C, 59D, 59F, 59L (P)	<a href="#">Comment</a>
30	<a href="#">ETD 32(17878)</a>	Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 6 Cooking Ranges Hobs Ovens and Similar Appliances	IEC TC- 61B, 61H, 61J SC- 61B, 61H, 61J (P); IEC TC- 59A, 59C, 59D, 59F, 59L SC- 59A, 59C, 59D, 59F, 59L (P)	<a href="#">Comment</a>
31	<a href="#">ETD 32(17880)</a>	Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 7: Domestic Electric Clothes Washing Machines	IEC TC- 61B, 61H, 61J SC- 61B, 61H, 61J (P); IEC TC- 59A, 59C, 59D, 59F, 59L SC- 59A, 59C, 59D, 59F, 59L (P)	<a href="#">Comment</a>



32	<a href="#">ETD 32(17882)</a>	SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES PART 2 PARTICULAR REQUIREMENTS SECTION 9 PARTICULAR REQUIREMENTS FOR GRILLS TOASTERS AND SIMILAR PORTABLE COOKING APPLIANCES	IEC TC- 61B, 61H, 61J SC- 61B, 61H, 61J (P); IEC TC- 59A, 59C, 59D, 59F, 59L SC- 59A, 59C, 59D, 59F, 59L (P)	<a href="#">Comment</a>
33	<a href="#">ETD 32(17884)</a>	Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 15 Appliances for Heating Liquids	IEC TC- 61B, 61H, 61J SC- 61B, 61H, 61J (P); IEC TC- 59A, 59C, 59D, 59F, 59L SC- 59A, 59C, 59D, 59F, 59L (P)	<a href="#">Comment</a>
34	<a href="#">ETD 37(14357)</a>	Code of Practice for Design Installation and Maintenance for Overhead Power Lines - Part 3 : 400 kV and 765 kV Lines - Section 1 : Design	IEC TC-7 (P); IEC TC-11 (P)	<a href="#">Comment</a>
35	<a href="#">ETD 37(14358)</a>	Code of Practice for Design Installation and Maintenance of Overhead Power Lines - Part 3 : 400 kV and 765 kV Lines - Section 2 : Installation and Maintenance	IEC TC-7 (P); IEC TC-11 (P)	<a href="#">Comment</a>
36	<a href="#">ETD 44(18095)</a>	Safety of machinery Electro-sensitive protective equipment Part 1 General requirements and tests	IEC TC- 44 (O)	<a href="#">Comment</a>
37	<a href="#">ETD 44(18097)</a>	Safety of machinery Electro-sensitive protective equipment Part 2 Particular requirements for equipment using active opto-electronic protective devices AOPDs first revision	IEC TC- 44 (O)	<a href="#">Comment</a>
38	<a href="#">ETD 44(18099)</a>	Safety of machinery Functional safety of safety-related control systems	IEC TC- 44 (O)	<a href="#">Comment</a>
39	<a href="#">ETD 21(12691)</a>	Arc welding equipment: Part 12 Coupling devices for welding cables	ISO TC-44 SC- (O); IEC TC-26 SC- (O)	<a href="#">Comment</a>
40	<a href="#">ETD 15(15753)</a>	Single phase ac induction motors for general purpose Third Revision	IEC TC- (P); IEC TC- (P); IEC TC- (P); ISO TC-43 SC- 1 (O)	<a href="#">Comment</a>
41	<a href="#">ETD 6(17551)</a>	Ball and socket couplings of string insulator units – Dimensions	IEC TC- (P); IEC TC- 36A SC- 36A (O)	<a href="#">Comment</a>
42	<a href="#">ETD 6(17552)</a>	Characteristic of indoor and outdoor post insulators for systems with nominal voltages greater than 1000 V	IEC TC- (P); IEC TC- 36A SC- 36A (O)	<a href="#">Comment</a>

43	<a href="#">ETD 6(17553)</a>	Insulators for overhead lines with a nominal voltage above 1000 V - Ceramic or glass insulator units for ac systems - Characteristics of insulator units of the cap and pin type	IEC TC- (P); IEC TC- 36A SC- 36A (O)	<a href="#">Comment</a>
44	<a href="#">ETD 40(17594)</a>	Performance of Unified Power Flow Controller UPFC in Electric Power Systems	IEC TC- 22F SC- 22F (P)	<a href="#">Comment</a>
45	<a href="#">ETD 32(16992)</a>	HOUSEHOLD ELECTRIC COOKING APPLIANCES PERFORMANCE REQUIREMENTS OF ELECTRIC HOBS	IEC TC- 61B, 61H, 61J SC- 61B, 61H, 61J (P); IEC TC- 59A, 59C, 59D, 59F, 59L SC- 59A, 59C, 59D, 59F, 59L (P)	<a href="#">Comment</a>
46	<a href="#">ETD 32(17858)</a>	Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 4 Spin Extractors	IEC TC- 61B, 61H, 61J SC- 61B, 61H, 61J (P); IEC TC- 59A, 59C, 59D, 59F, 59L SC- 59A, 59C, 59D, 59F, 59L (P)	<a href="#">Comment</a>
47	<a href="#">ETD 32(17877)</a>	Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 2 Vacuum Cleaners And Water-Suction Cleaning Appliances	IEC TC- 61B, 61H, 61J SC- 61B, 61H, 61J (P); IEC TC- 59A, 59C, 59D, 59F, 59L SC- 59A, 59C, 59D, 59F, 59L (P)	<a href="#">Comment</a>
48	<a href="#">ETD 32(17878)</a>	Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 6 Cooking Ranges Hobs Ovens and Similar Appliances	IEC TC- 61B, 61H, 61J SC- 61B, 61H, 61J (P); IEC TC- 59A, 59C, 59D, 59F, 59L SC- 59A, 59C, 59D, 59F, 59L (P)	<a href="#">Comment</a>
49	<a href="#">ETD 32(17880)</a>	Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 7: Domestic Electric Clothes Washing Machines	IEC TC- 61B, 61H, 61J SC- 61B, 61H, 61J (P); IEC TC- 59A, 59C, 59D, 59F, 59L SC- 59A, 59C, 59D, 59F, 59L (P)	<a href="#">Comment</a>

50	<a href="#">ETD 32(17882)</a>	SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES PART 2 PARTICULAR REQUIREMENTS SECTION 9 PARTICULAR REQUIREMENTS FOR GRILLS TOASTERS AND SIMILAR PORTABLE COOKING APPLIANCES	IEC TC- 61B, 61H, 61J SC- 61B, 61H, 61J (P); IEC TC- 59A, 59C, 59D, 59F, 59L SC- 59A, 59C, 59D, 59F, 59L (P)	<a href="#">Comment</a>
51	<a href="#">ETD 32(17884)</a>	Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 15 Appliances for Heating Liquids	IEC TC- 61B, 61H, 61J SC- 61B, 61H, 61J (P); IEC TC- 59A, 59C, 59D, 59F, 59L SC- 59A, 59C, 59D, 59F, 59L (P)	<a href="#">Comment</a>
52	<a href="#">ETD 23(17898)</a>	Double-Capped LED Linear Lamps Part 2 Performance Specification	-	<a href="#">Comment</a>
53	<a href="#">ETD 32(16992)</a>	HOUSEHOLD ELECTRIC COOKING APPLIANCES PERFORMANCE REQUIREMENTS OF ELECTRIC HOBS	IEC TC- 61B, 61H, 61J SC- 61B, 61H, 61J (P); IEC TC- 59A, 59C, 59D, 59F, 59L SC- 59A, 59C, 59D, 59F, 59L (P)	<a href="#">Comment</a>
54	<a href="#">ETD 20(17173)</a>	GUIDE FOR IMPLEMENTATION OF ELECTRICAL INSTALLATION STANDARDS IN BUILDING	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC- 18A (O)	<a href="#">Comment</a>
55	<a href="#">ETD 19(17389)</a>	Insulation Coordination for Equipment Within Low-Voltage Systems Part 1 Principles Requirements and Tests	IEC TC-28 (P); IEC TC-42 (P); IEC TC-109 (O)	<a href="#">Comment</a>
56	<a href="#">ETD 19(17390)</a>	INSTRUMENTS AND SOFTWARE USED FOR MEASUREMENT IN HIGH-VOLTAGE AND HIGH-CURRENT TESTS Part 3: Requirements for Hardware For Tests With Alternating And Direct Voltages and Currents	IEC TC-28 (P); IEC TC-42 (P); IEC TC-109 (O)	<a href="#">Comment</a>
57	<a href="#">ETD 12(17433)</a>	ELECTRICAL SAFETY IN LOW VOLTAGE DISTRIBUTION SYSTEMS UP TO 1000 V AC AND 1500 V DC - EQUIPMENT FOR TESTING MEASURING OR MONITORING OF PROTECTIVE MEASURES: PART 1 GENERAL REQUIREMENTS	IEC TC-85 (O)	<a href="#">Comment</a>

58	<a href="#">ETD 12(17434)</a>	ELECTRICAL SAFETY IN LOW VOLTAGE DISTRIBUTION SYSTEMS UP TO 1000 V AC AND 1500 V DC - EQUIPMENT FOR TESTING MEASURING OR MONITORING OF PROTECTIVE MEASURES: PART 2 INSULATION RESISTANCE	IEC TC-85 (O)	<a href="#">Comment</a>
59	<a href="#">ETD 12(17460)</a>	POWER QUALITY MEASUREMENT IN POWER SUPPLY SYSTEMS Part 1: POWER QUALITY INSTRUMENTS PQI	IEC TC-85 (O)	<a href="#">Comment</a>
60	<a href="#">ETD 12(17461)</a>	POWER QUALITY MEASUREMENT IN POWER SUPPLY SYSTEMS PART 2: FUNCTIONAL TESTS AND UNCERTAINTY REQUIREMENTS	IEC TC-85 (O)	<a href="#">Comment</a>
61	<a href="#">ETD 40(17462)</a>	Design of earth electrode stations for high-voltage direct current HVDC links General guidelines	IEC TC- 22F SC-22F (P)	<a href="#">Comment</a>
62	<a href="#">ETD 40(17463)</a>	Thyristor Valves For High Voltage Direct Current HVDC Power Transmission Part 2: Terminology	IEC TC- 22F SC-22F (P)	<a href="#">Comment</a>
63	<a href="#">ETD 40(17464)</a>	Terminology For Voltage-Sourced Converters VSC for High-Voltage Direct Current HVDC Systems	IEC TC- 22F SC-22F (P)	<a href="#">Comment</a>
64	<a href="#">ETD 40(17465)</a>	Power Losses in Voltage Sourced Converter VSC Valves for High-Voltage Direct Current HVDC Systems Part 1: General Requirements	IEC TC- 22F SC-22F (P)	<a href="#">Comment</a>
65	<a href="#">ETD 40(17466)</a>	Power losses in voltage sourced converter VSC valves for high-voltage direct current HVDC systems Part 2: Modular multilevel converters	IEC TC- 22F SC-22F (P)	<a href="#">Comment</a>
66	<a href="#">ETD 40(17594)</a>	Performance of Unified Power Flow Controller UPFC in Electric Power Systems	IEC TC- 22F SC-22F (P)	<a href="#">Comment</a>
67	<a href="#">ETD 40(17467)</a>	Fire prevention measures on converters for high-voltage direct current HVDC systems static var compensators SVC and flexible ac transmission systems FACTS and their valve halls	IEC TC- 22F SC-22F (P)	<a href="#">Comment</a>
68	<a href="#">ETD 40(17470)</a>	Thyristor valves for thyristor-controlled series capacitors TCSC Electrical testing	IEC TC- 22F SC-22F (P)	<a href="#">Comment</a>
69	<a href="#">ETD 40(17471)</a>	Voltage sourced converter VSC valves for static synchronous compensator STATCOM Electrical testing	IEC TC- 22F SC-22F (P)	<a href="#">Comment</a>
70	<a href="#">ETD 6(17473)</a>	Specification for indoor post insulators of organic material for systems with nominal voltages greater than 1000 v up to and including 300 kV	IEC TC- (P); IEC TC- 36A SC-36A (O)	<a href="#">Comment</a>
71	<a href="#">ETD 6(17474)</a>	Insulated Bushings for Alternating Voltages above 1 000 V Amendment - 1	IEC TC- (P); IEC TC- 36A SC-36A (O)	<a href="#">Comment</a>
72	<a href="#">ETD 6(17475)</a>	Locking devices for ball and socket couplings of string insulators units - Dimensions and tests	IEC TC- (P); IEC TC- 36A SC-36A (O)	<a href="#">Comment</a>

73	<a href="#">ETD 6(17477)</a>	Dimensions of Clevis and Tongue Couplings of String Insulator Units	IEC TC- (P); IEC TC- 36A SC- 36A (O)	<a href="#">Comment</a>
74	<a href="#">ETD 6(17478)</a>	Artificial pollution tests on high - Voltage ceramic and glass insulators to be used on d.c. systems Amendment – 1	IEC TC- (P); IEC TC- 36A SC- 36A (O)	<a href="#">Comment</a>
75	<a href="#">ETD 6(17551)</a>	Ball and socket couplings of string insulator units – Dimensions	IEC TC- (P); IEC TC- 36A SC- 36A (O)	<a href="#">Comment</a>
76	<a href="#">ETD 6(17552)</a>	Characteristic of indoor and outdoor post insulators for systems with nominal voltages greater than 1000 V	IEC TC- (P); IEC TC- 36A SC- 36A (O)	<a href="#">Comment</a>
77	<a href="#">ETD 6(17553)</a>	Insulators for overhead lines with a nominal voltage above 1000 V - Ceramic or glass insulator units for ac systems - Characteristics of insulator units of the cap and pin type	IEC TC- (P); IEC TC- 36A SC- 36A (O)	<a href="#">Comment</a>
78	<a href="#">ETD 1(17699)</a>	Electrotechnical Vocabulary: Part 60 Equipment for Explosive Atmospheres Second Revision	IEC TC-13 (P)	<a href="#">Comment</a>
79	<a href="#">ETD 15(17738)</a>	Steam Turbine Part 1 Specifications first revision	IEC TC- (P); IEC TC- (P); IEC TC- (P); ISO TC-43 SC- 1 (O)	<a href="#">Comment</a>
80	<a href="#">ETD 15(17739)</a>	ROTATING ELECTRICAL MACHINES Part 3: Specific requirements for synchronous generators driven by steam turbines or combustion gas turbines and for synchronous compensators first revision	IEC TC- (P); IEC TC- (P); IEC TC- (P); ISO TC-43 SC- 1 (O)	<a href="#">Comment</a>
81	<a href="#">ETD 15(17752)</a>	ROTATING ELECTRICAL MACHINES Part 4 Electrically excited synchronous machine quantities Section 1 Test methods first revision	IEC TC- (P); IEC TC- (P); IEC TC- (P); ISO TC-43 SC- 1 (O)	<a href="#">Comment</a>
82	<a href="#">ETD 15(17753)</a>	ROTATING ELECTRICAL MACHINES Part 7: Classification of types of construction mounting arrangements and terminal box position IM Code Second revision	IEC TC- (P); IEC TC- (P); IEC TC- (P); ISO TC-43 SC- 1 (O)	<a href="#">Comment</a>
83	<a href="#">ETD 15(17754)</a>	Gas turbines Acceptance tests first revision	IEC TC- (P); IEC TC- (P); IEC TC- (P); ISO TC-43 SC- 1 (O)	<a href="#">Comment</a>

**ICT/LITD**

The following Draft Indian Standards were issued by Electronics and Information Technology division council (LTD) of BIS for eliciting technical comments:

**Electronics and Information Technology Department (LITD)**

SI No	Document No	Title of the Doc	IEC/ISO	Give comments
1	<a href="#">LITD 6(17921)</a>	Hollow Metallic Waveguides Part 2 Relevant specifications for ordinary rectangular waveguides First Revision	IEC TC-SC 46A SC-(O); IEC TC-SC 46C SC-(O); IEC TC-SC 46F SC-(O)	<a href="#">Comment</a>
2	<a href="#">LITD 6(17923)</a>	Hollow Metallic Waveguides Part 7 Relevant specifications for flanges for circular waveguides First Revision	IEC TC-SC 46A SC-(O); IEC TC-SC 46C SC-(O); IEC TC-SC 46F SC-(O)	<a href="#">Comment</a>
3	<a href="#">LITD 6(17924)</a>	Flanges for waveguides Part 2 Relevant specifications for flanges for ordinary rectangular waveguides	IEC TC-SC 46A SC-(O); IEC TC-SC 46C SC-(O); IEC TC-SC 46F SC-(O)	<a href="#">Comment</a>
4	<a href="#">LITD 6(17925)</a>	Flanges for waveguides Part 4 Relevant specifications for flanges for circular waveguides	IEC TC-SC 46A SC-(O); IEC TC-SC 46C SC-(O); IEC TC-SC 46F SC-(O)	<a href="#">Comment</a>
5	<a href="#">LITD 1(17874)</a>	Environmental testing - Part 2-10: Tests - Test J and guidance: Mould growth	IEC TC- 89 SC-(O); IEC TC-104 (P)	<a href="#">Comment</a>
6	<a href="#">LITD 1(17887)</a>	Environmental Testing Part 2 Tests Section 5 Test S: Simulated solar radiation at ground level and guidance for solar radiation testing and weathering	IEC TC- 89 SC-(O); IEC TC-104 (P)	<a href="#">Comment</a>
7	<a href="#">LITD 1(17948)</a>	Fire Hazard Testing Part 1 Guidance for assessing the fire hazard of electrotechnical products Section 10 General Guidelines	IEC TC- 89 SC-(O); IEC TC-104 (P)	<a href="#">Comment</a>
8	<a href="#">LITD 1(17949)</a>	Fire Hazard Testing Part 1 Guidance for assessing the fire hazard of electrotechnical products Section 11 Fire Hazard Assessment	IEC TC- 89 SC-(O); IEC TC-104 (P)	<a href="#">Comment</a>

9	<a href="#">LITD 1(17950)</a>	Fire Hazard Testing Part 1 Guidance for assessing the fire hazard of electrotechnical products Section 30 Preselection testing process General guidelines	IEC TC- 89 SC- (O); IEC TC-104 (P)	<a href="#">Comment</a>
10	<a href="#">LITD 1(17984)</a>	Environmental Testing Part 2 Tests Section 1 Test A: Cold	IEC TC- 89 SC- (O); IEC TC-104 (P)	<a href="#">Comment</a>
11	<a href="#">LITD 3(17870)</a>	Modular order for the development of mechanical structures for electrical and electronic equipment practices Part 1: Generic standard	IEC TC- 48B SC- 48B (O); IEC TC- 48D SC- 48D (O); IEC TC-48 (O)	<a href="#">Comment</a>
12	<a href="#">LITD 10(17999)</a>	Code Of Practice For Installation And MAINTENANCE OF OUTDOOR POWER LINE CARRIER EQUIPMENT Part 1 LINE TRAPS	EC TC- 57 (P); IEC TC- SC-PC 118 (P)	<a href="#">Comment</a>
13	<a href="#">LITD 10(18006)</a>	CODE OF PRACTICE FOR INSTALLATION AND MAINTENANCE OF OUTDOOR POWER LINE CARRIER EQUIPMENT PART 3 COUPLING CAPACITORS CAPACITOR VOLTAGE TRANSFORMERS	EC TC- 57 (P); IEC TC- SC-PC 118 (P)	<a href="#">Comment</a>
14	<a href="#">LITD 13(17392)</a>	Information technology Generic cabling for customer premises Part 1: General requirements	ISO TC- 25 SC- 25 (P); ISO TC-6 SC-6 (P):	<a href="#">Comment</a>
15	<a href="#">LITD 13(17566)</a>	Information technology Generic cabling for customer premises Part 2: Office premises	ISO TC- 25 SC- 25 (P); ISO TC-6 SC-6 (P):	<a href="#">Comment</a>
16	<a href="#">LITD 30(17926)</a>	Information technology Big data reference architecture Part 1: Framework and application process	ISO/IEC TC-JTC 1 SC-SC 42 (P)	<a href="#">Comment</a>
17	<a href="#">LITD 30(17927)</a>	Information technology Artificial intelligence AI Use cases	ISO/IEC TC-JTC 1 SC-SC 42 (P)	<a href="#">Comment</a>
18	<a href="#">LITD 30(17928)</a>	Information technology Artificial intelligence Overview of trustworthiness in artificial intelligence	ISO/IEC TC-JTC 1 SC-SC 42 (P)	<a href="#">Comment</a>
19	<a href="#">LITD 30(17929)</a>	Artificial Intelligence AI Assessment of the robustness of neural networks Part 1: Overview	ISO/IEC TC-JTC 1 SC-SC 42 (P)	<a href="#">Comment</a>
20	<a href="#">LITD 35(17118)</a>	Electrotechnical vocabulary Part 871: Active assisted living AAL	IEC TC-IEC SyC AAL (P)	<a href="#">Comment</a>
21	<a href="#">LITD 35(17123)</a>	Active assisted living AAL use cases	IEC TC-IEC SyC AAL (P)	<a href="#">Comment</a>
22	<a href="#">LITD 36(16698)</a>	Information technology Office equipment Accessibility guidelines for older persons and persons with disabilities	ISO/IEC/JTC1 TC- SC-23 ISO/IEC/JTC1 TC- SC-28 (P); ISO/IEC/JTC1 TC- SC-35 (P)	<a href="#">Comment</a>

23	<a href="#">LITD 10(17093)</a>	Guidelines for SCADA system displays	IEC TC- 57 (P); IEC TC- SC-PC 118 (P); IEC TC-SyC	<a href="#">Comment</a>
24	<a href="#">LITD 11(17658)</a>	Optical Fibres Part 1 Measurement Methods and Test Procedures Section 31 Tensile strength (First Revision)	IEC TC- 86 (P); IEC TC- 86A SC- 86A (P); IEC TC- 86C SC- 86C (P); IEC TC- 86 B SC- 86 B (O)	<a href="#">Comment</a>
25	<a href="#">LITD 11(17659)</a>	Guidelines for SCADA system displays	IEC TC- 86 (P); IEC TC- 86A SC- 86A (P); IEC TC- 86C SC- 86C (P); IEC TC- 86 B SC- 86 B (O)	<a href="#">Comment</a>
26	<a href="#">LITD 11(17660)</a>	Optical Fibres Part 1 Measurement Methods and Test Procedures Section 40 Attenuation measurement methods First Revision	IEC TC- 86 (P); IEC TC- 86A SC- 86A (P); IEC TC- 86C SC- 86C (P); IEC TC- 86 B SC- 86 B (O)	<a href="#">Comment</a>
27	<a href="#">LITD 11(17661)</a>	Optical Fibres Part 1 Measurement Methods and Test Procedures Section 49 Differential mode delay First Revision	IEC TC- 86 (P); IEC TC- 86A SC- 86A (P); IEC TC- 86C SC- 86C (P); IEC TC- 86 B SC- 86 B (O)	<a href="#">Comment</a>
28	<a href="#">LITD 11(17662)</a>	Calibration of fibre-optic power meters Superseding IS 14976: 2012	IEC TC- 86 (P); IEC TC- 86A SC- 86A (P); IEC TC- 86C SC- 86C (P); IEC TC- 86 B SC- 86 B (O)	<a href="#">Comment</a>



29	<a href="#">LITD 11(17663)</a>	Optical Fibre Cables Part 1 Generic specification Section 31 Optical cable elements Optical fibre ribbon	IEC TC- 86 (P); IEC TC- 86A SC- 86A (P); IEC TC- 86C SC- 86C (P); IEC TC- 86 B SC- 86 B (O)	<a href="#">Comment</a>
30	<a href="#">LITD 12(17678)</a>	Methods of measurement for radio transmitters Part 5: Bandwidth out-of-band power and power of non-essential oscillations along with Amendments 1 :1974 Supplement 2A:1969 2AAMD 1:1973 2B:1969	IEC TC- 103 (O)	<a href="#">Comment</a>
31	<a href="#">LITD 12(17679)</a>	Methods of measurement for radio transmitters Part 6 : Wanted and unwanted modulation along with Supplement 3A:1971 3B:1972	IEC TC- 103 (O)	<a href="#">Comment</a>
32	<a href="#">LITD 12(17682)</a>	Methods of measurement for radio transmitters Part 7: Amplitudefrequency characteristics and non-linearity distortion in transmitters for radiotelephony and sound broadcasting along with Supplement4A : 1973	IEC TC- 103 (O)	<a href="#">Comment</a>
33	<a href="#">LITD 12(17683)</a>	Methods of measurement for radio transmitters Part 8: Performance characteristics of television transmitters	IEC TC- 103 (O)	<a href="#">Comment</a>
34	<a href="#">LITD 12(17684)</a>	Methods of measurement for radio transmitters Part 9: Cabinet radiation at frequencies between 130 kHz and 1 GHz	IEC TC- 103 (O)	<a href="#">Comment</a>
35	<a href="#">LITD 12(17685)</a>	Methods of measurement for radio transmitters Part 10: Cabinet radiation at frequencies above 1 GHz along with Supplement 7A :1980	IEC TC- 103 (O)	<a href="#">Comment</a>
36	<a href="#">LITD 12(17686)</a>	Methods of measurement for radio transmitters Part 11: Performance characteristics of vestigial-sideband demodulators used for testing television transmitters and transposers	IEC TC- 103 (O)	<a href="#">Comment</a>
37	<a href="#">LITD 12(17687)</a>	Methods of measurement of radio transmitters Part 12: Performance characteristics for television transposers	IEC TC- 103 (O)	<a href="#">Comment</a>
38	<a href="#">LITD 12(17688)</a>	Methods of measurement for radio transmitters Part 13: Methods of measurement for television transmitters and transposers employing insertion test signals	IEC TC- 103 (O)	<a href="#">Comment</a>

39	<a href="#">LITD 12(17690)</a>	Methods of measurement for radio transmitters Part 14: Transposers for FM sound broadcasting	IEC TC- 103 (O)	<a href="#">Comment</a>
40	<a href="#">LITD 12(17691)</a>	Methods of measurement for radio transmitters Part 17: External intermodulation products caused by two or more transmitters using the same or adjacent antennas	IEC TC- 103 (O)	<a href="#">Comment</a>
41	<a href="#">LITD 12(17692)</a>	Methods of measurement for radio transmitters Part 18: Amplitude-modulated transmitters for sound broadcasting	IEC TC- 103 (O)	<a href="#">Comment</a>
42	<a href="#">LITD 1(17700)</a>	Environmental Testing Part 1 General and Guidance	ISO TC- 25 SC- 25 (P); ISO TC- 35 SC- 35 (P); ISO TC- 6 SC- 6 (O); ISO/IEC/JTC1 TC-6 SC-6 (P); ISO TC-6 SC-6 (P)	<a href="#">Comment</a>
43	<a href="#">LITD 1(17874)</a>	Environmental testing - Part 2-10: Tests - Test J and guidance: Mould growth	ISO TC- 25 SC- 25 (P); ISO TC- 35 SC- 35 (P); ISO TC- 6 SC- 6 (O); ISO/IEC/JTC1 TC-6 SC-6 (P); ISO TC-6 SC-6 (P)	<a href="#">Comment</a>
44	<a href="#">LITD 23(16472)</a>	INFORMATION TECHNOLOGY CODING OF AUDIO-VISUAL OBJECTS PART 15 CARRIAGE OF NETWORK ABSTRACTION LAYER NAL UNIT STRUCTURED VIDEO IN THE ISO BASE MEDIA FILE FORMAT first revision	ISO/IEC/JTC1 TC- 24 SC- 24 (O) ISO/IEC/JTC1 TC- SC 29 SC- (P)	<a href="#">Comment</a>
45	<a href="#">LITD 29(16818)</a>	Blockchain and distributed ledger technologies Overview of and interactions between smart contracts in blockchain and distributed ledger technology systems		<a href="#">Comment</a>
46	<a href="#">LITD 10(17093)</a>	Guidelines for SCADA system displays	IEC TC- 57 (P); IEC TC- SC-PC 118 (P); IEC TC-SyC	<a href="#">Comment</a>
47	<a href="#">LITD 10(17494)</a>	Systems Interface between customer energy management and the power management system - Part 10-1: Open Automated Demand Response	IEC TC- 57 (P); IEC TC- SC-PC 118 (P); IEC TC-SyC	<a href="#">Comment</a>

48	<a href="#">LITD 11(17658)</a>	Optical Fibres Part 1 Measurement Methods and Test Procedures Section 31 Tensile strength(First Revision)	IEC TC- 86 (P); IEC TC- 86A SC- 86A (P); IEC TC- 86C SC- 86C (P); IEC TC- 86 B SC- 86 B (O)	<a href="#">Comment</a>
49	<a href="#">LITD 11(17659)</a>	Optical Fibres Part 1 Measurement Methods and Test Procedures Section 32 Coating strippability First Revision	IEC TC- 86 (P); IEC TC- 86A SC- 86A (P); IEC TC- 86C SC- 86C (P); IEC TC- 86 B SC- 86 B (O)	<a href="#">Comment</a>
50	<a href="#">LITD 11(17660)</a>	Optical Fibres Part 1 Measurement Methods and Test Procedures Section 40 Attenuation measurement methods First Revision	IEC TC- 86 (P); IEC TC- 86A SC- 86A (P); IEC TC- 86C SC- 86C (P); IEC TC- 86 B SC- 86 B (O)	<a href="#">Comment</a>
51	<a href="#">LITD 11(17661)</a>	Optical Fibres Part 1 Measurement Methods and Test Procedures Section 49 Differential mode delay First Revision	IEC TC- 86 (P); IEC TC- 86A SC- 86A (P); IEC TC- 86C SC- 86C (P); IEC TC- 86 B SC- 86 B (O)	<a href="#">Comment</a>
52	<a href="#">LITD 11(17662)</a>	Calibration of fibre-optic power meters Superseding IS 14976: 2012	IEC TC- 86 (P); IEC TC- 86A SC- 86A (P); IEC TC- 86C SC- 86C (P); IEC TC- 86 B SC- 86 B (O)	<a href="#">Comment</a>
53	<a href="#">LITD 11(17663)</a>	Optical Fibre Cables Part 1 Generic specification Section 31 Optical cable elements Optical fibre ribbon	IEC TC- 86 (P); IEC TC- 86A SC- 86A (P); IEC TC- 86C SC- 86C (P); IEC TC- 86 B SC- 86 B (O)	<a href="#">Comment</a>
54	<a href="#">LITD 12(17683)</a>	Methods of measurement for radio transmitters Part 8: Performance characteristics of television transmitters	IEC TC- 103 (O)	<a href="#">Comment</a>

55	<a href="#">LITD 12(17684)</a>	Methods of measurement for radio transmitters Part 9: Cabinet radiation at frequencies between 130 kHz and 1 GHz	IEC TC- 103 (O)	<a href="#">Comment</a>
56	<a href="#">LITD 12(17685)</a>	Methods of measurement for radio transmitters Part 10: Cabinet radiation at frequencies above 1 GHz along with Supplement 7A :1980	IEC TC- 103 (O)	<a href="#">Comment</a>
57	<a href="#">LITD 12(17686)</a>	Methods of measurement for radio transmitters Part 11: Performance characteristics of vestigial-sideband demodulators used for testing television transmitters and transposers	IEC TC- 103 (O)	<a href="#">Comment</a>
58	<a href="#">LITD 12(17687)</a>	Methods of measurement of radio transmitters Part 12: Performance characteristics for television transposers	IEC TC- 103 (O)	<a href="#">Comment</a>
59	<a href="#">LITD 12(17688)</a>	Methods of measurement for radio transmitters Part 13: Methods of measurement for television transmitters and transposers employing insertion test signals	IEC TC- 103 (O)	<a href="#">Comment</a>
60	<a href="#">LITD 12(17690)</a>	Methods of measurement for radio transmitters Part 14: Transposers for FM sound broadcasting	IEC TC- 103 (O)	<a href="#">Comment</a>
61	<a href="#">LITD 12(17691)</a>	Methods of measurement for radio transmitters Part 17: External intermodulation products caused by two or more transmitters using the same or adjacent antennas	IEC TC- 103 (O)	<a href="#">Comment</a>
62	<a href="#">LITD 12(17692)</a>	Methods of measurement for radio transmitters Part 18: Amplitude-modulated transmitters for sound broadcasting	IEC TC- 103 (O)	<a href="#">Comment</a>
63	<a href="#">LITD 1(17700)</a>	Environmental Testing Part 1 General and Guidance	ISO TC- 25 SC- 25 (P); ISO TC- 35 SC- 35 (P); ISO TC- 6 SC- 6 (O); ISO/IEC/JTC1 TC-6 SC-6 (P); ISO TC-6 SC-6 (P)	<a href="#">Comment</a>
<a href="https://www.services.bis.gov.in:8071/php/BIS_2.0/dgdashboard/draft/darftdetail/66/3/LITD">https://www.services.bis.gov.in:8071/php/BIS_2.0/dgdashboard/draft/darftdetail/66/3/LITD</a>				

### Transport (TED)

The following Draft Indian Standards were issued by Transport engineering division council at BIS during the last quarter for eliciting technical comment:

**Transport Engineering Department (TED)**

S.No.	Document No	Title of the Doc	IEC/ISO	Give comments
1	<a href="#">TED 7(17981)</a>	Automotive vehicles - Valves and valve accessories for pneumatic tyres - Specification (Fifth Revision) Amendment - 1	ISO TC- 22 (P); ISO TC- 19 SC- 19 (O); ISO TC- 31 (P); ISO TC- 3 SC- 3 (P); ISO TC- 34 SC- 34 (P); ISO TC- 5 SC- 5 (O); ISO TC- 6 SC- 6 (O); ISO TC- 7 SC- 7 (O); ISO TC- 9 SC- 9 (P); ISO TC- 10 SC- 10 (P);	<a href="#">Comment</a>
2	<a href="#">TED 11(16959)</a>	Road vehicles Fuse-links Part 3: Fuse-links with tabs Blade type Type C Medium Type E High current Type F miniature Type N and Type P Sub-miniature	ISO TC-22 (P); ISO TC-22 SC-31 (P); ISO TC-22 SC-32 (P); ISO TC-22 SC-35 (P)	<a href="#">Comment</a>
3	<a href="#">TED 18(17788)</a>	Inflatable boats Part 3: Boats with a hull length less than 8 m with a motor rating of 15 kW and greater	ISO TC- 8 (P); ISO TC- 7 SC- 7 (P); ISO TC- 11 SC- 11 (P); ISO TC- 188 (O)	<a href="#">Comment</a>
4	<a href="#">TED 18(18027)</a>	Small craft - Stability and buoyancy assessment and categorization - Part 1: Non-sailing boats of hull length greater than or equal to 6 m	ISO TC- 8 (P); ISO TC- 7 SC- 7 (P); ISO TC- 11 SC- 11 (P); ISO TC- 188 (O)	<a href="#">Comment</a>
5	<a href="#">TED 18(18029)</a>	Small craft - Stability and buoyancy assessment and categorization - Part 2: Sailing boats of hull length greater than or equal to 6 m	ISO TC- 8 (P); ISO TC- 7 SC- 7 (P); ISO TC- 11 SC- 11 (P); ISO TC- 188 (O)	<a href="#">Comment</a>

6	<a href="#">TED 18(18030)</a>	Small craft - Stability and buoyancy assessment and categorization - Part 3: Boats of hull length less than 6 m	ISO TC- 8 (P); ISO TC- 7 SC- 7 (P); ISO TC- 11 SC- 11 (P); ISO TC- 188 (O)	<a href="#">Comment</a>
7	<a href="#">TED 29(18041)</a>	Automotive vehicles - Locking systems and door retention components - General requirements (First Revision) Amendment - 1	ISO TC- 22 (P); ISO TC-22 SC-36 (P); ISO TC-22 SC-12 (P); ISO TC-22 SC-10 (O):	<a href="#">Comment</a>
8	<a href="#">TED 2(17750)</a>	Method of test for full-flow lubricating oil filters for internal combustion engines - Part 5: Test for hydraulic pulse durability	ISO TC-22 (P); ISO TC-22 SC- 34 (P); ISO TC-70 (P); ISO TC-70 SC- 7 (P); ISO TC-70 SC- 8 (P)	<a href="#">Comment</a>
9	<a href="#">TED 2(17755)</a>	Internal combustion engines - Piston rings - Part 2: Inspection measuring principles	ISO TC-22 (P); ISO TC-22 SC- 34 (P); ISO TC-70 (P); ISO TC-70 SC- 7 (P); ISO TC-70 SC- 8 (P)	<a href="#">Comment</a>
10	<a href="#">TED 2(17757)</a>	Reciprocating internal combustion engines Exhaust emission measurement Part 1: Test bed measurement systems of gaseous and particulate emissions	ISO TC-22 (P); ISO TC-22 SC- 34 (P); ISO TC-70 (P); ISO TC-70 SC- 7 (P); ISO TC-70 SC- 8 (P)	<a href="#">Comment</a>
11	<a href="#">TED 2(17758)</a>	Reciprocating internal combustion engines Exhaust emission measurement Part 4: Steady-state and transient test cycles for different engine applications	ISO TC-22 (P); ISO TC-22 SC- 34 (P); ISO TC-70 (P); ISO TC-70 SC- 7 (P); ISO TC-70 SC- 8 (P)	<a href="#">Comment</a>
12	<a href="#">TED 2(17759)</a>	Reciprocating internal combustion engine driven alternating current generating sets Part 3: Alternating current generators for generating sets	ISO TC-22 (P); ISO TC-22 SC- 34 (P); ISO TC-70 (P); ISO TC-70 SC-	<a href="#">Comment</a>

			7 (P); ISO TC-70 SC-8 (P)	
13	<a href="#">TED 18(17786)</a>	Inflatable boats - Part 1: Boats with a maximum motor power rating of 4.5 kW	ISO TC- 8 (P); ISO TC- 7 SC-7 (P); ISO TC- 11 SC-11 (P); ISO TC- 188 (O)	<a href="#">Comment</a>
14	<a href="#">TED 18(17787)</a>	Inflatable boats Part 2: Boats with a maximum motor power rating of 4.5 kW to 15 kW inclusive	ISO TC- 8 (P); ISO TC- 7 SC-7 (P); ISO TC- 11 SC-11 (P); ISO TC- 188 (O)	<a href="#">Comment</a>
15	<a href="#">TED 6(14012)</a>	Requirements of Temporary Cabin for Drive-Away-Chassis Configuration Vehicles	ISO TC- 22 (P); ISO TC- 11 SC-11 (P); ISO TC- 15 SC-15 (O); ISO TC- 35 SC-35 (P); ISO TC- 40 SC-40 (O); ISO TC- 227 (P)	<a href="#">Comment</a>
16	<a href="#">TED 6(17822)</a>	Amendment No.1 To IS 16712:2018 AUTOMOTIVE VEHICLES — SPRAY SUPPRESSION SYSTEMS FOR TWO WHEELED MOTOR VEHICLES	ISO TC- 22 (P); ISO TC- 11 SC-11 (P); ISO TC- 15 SC-15 (O); ISO TC- 35 SC-35 (P); ISO TC- 40 SC-40 (O); ISO TC- 227 (P)	<a href="#">Comment</a>
17	<a href="#">TED 6(17824)</a>	Amendment No.1 To IS 13942 (Part 1):2020 Automotive Vehicles – External Projections Part 1- Performance Requirements for vehicles of categories M1	ISO TC- 22 (P); ISO TC- 11 SC-11 (P); ISO TC- 15 SC-15 (O); ISO TC- 35 SC-35 (P); ISO TC- 40 SC-40 (O); ISO TC- 227 (P)	<a href="#">Comment</a>

18	<a href="#">TED 6(17825)</a>	Amendment No.1 To IS 15943:2012 AUTOMOTIVE VEHICLES — HAND-HOLDS FOR THREE, FOUR AND MORE THAN FOUR WHEELED MOTOR VEHICLES — SPECIFICATION	ISO TC- 22 (P); ISO TC- 11 SC- 11 (P); ISO TC- 15 SC- 15 (O); ISO TC- 35 SC- 35 (P); ISO TC- 40 SC- 40 (O); ISO TC- 227 (P)	<a href="#">Comment</a>
19	<a href="#">TED 6(17826)</a>	Amendment No.1 To IS 13942 (Part 2):2020 Automotive Vehicles – External Projections Part 2- Performance Requirements for vehicles of categories other than M1	ISO TC- 22 (P); ISO TC- 11 SC- 11 (P); ISO TC- 15 SC- 15 (O); ISO TC- 35 SC- 35 (P); ISO TC- 40 SC- 40 (O); ISO TC- 227 (P)	<a href="#">Comment</a>
20	<a href="#">TED 29(17481)</a>	Road vehicles Airbag components Part 1: Vocabulary	ISO TC- 36 SC- 36 (P); ISO TC- 12 SC- 12 (P); ISO TC- 10 SC- 10 (O); ISO TC- 22 (P); ISO TC-22 SC- 36 (P); ISO TC-22 SC- 12 (P) ISO TC-22 SC- 10 (O):	<a href="#">Comment</a>
21	<a href="#">TED 29(17484)</a>	ROAD VEHICLES AIRBAG COMPONENTS PART 2: TESTING OF AIRBAG MODULES	ISO TC- 36 SC- 36 (P); ISO TC- 12 SC- 12 (P); ISO TC- 10 SC- 10 (O); ISO TC- 22 (P); ISO TC-22 SC- 36 (P); ISO TC-22 SC- 12 (P) ISO TC-22 SC- 10 (O):	<a href="#">Comment</a>



22	<a href="#">TED 29(17485)</a>	ROAD VEHICLES AIRBAG COMPONENTS PART 3: TESTING OF INFLATOR ASSEMBLIES	ISO TC- 36 SC-36 (P); ISO TC- 12 SC-12 (P); ISO TC- 10 SC-10 (O); ISO TC- 22 (P); ISO TC-22 SC-36 (P); ISO TC-22 SC-12 (P) ISO TC-22 SC-10 (O):	<a href="#">Comment</a>
23	<a href="#">TED 16(17585)</a>	Cycles - Safety requirements for bicycles for young children (First Revision) Amendment – 1	ISO TC-31 SC-10 (P); ISO TC-149 (P); ISO TC-149 SC-1 (P)	<a href="#">Comment</a>
24	<a href="#">TED 16(17674)</a>	CYCLES SAFETY AND PERFORMANCE REQUIREMENTS FOR BICYCLES	ISO TC-31 SC-10 (P); ISO TC-149 (P); ISO TC-149 SC-1 (P)	<a href="#">Comment</a>
25	<a href="#">TED 14(16884)</a>	Unmanned Aerial Vehicles (UAV) - General Requirements	ISO TC- 1 SC-1 (P); ISO TC- 4 SC-4 (P); ISO TC- 6 SC-6 (O); ISO TC- 8 SC-8 (P); ISO TC- 9 SC-9 (O); ISO TC- 10 SC-10 (P); ISO TC- 13 SC-13 (P); ISO TC- 14 SC-14 (P); ISO TC- 8 SC-8 (O); ISO TC- 20 (O); ISO TC- 31 (P); ISO TC- 192 (P); ISO TC-20 SC-1 (P); ISO TC-20 SC-4 (P); ISO TC-20 SC-6 (O);	<a href="#">Comment</a>

			<p>ISO TC-20 SC-8 (O);  ISO TC-20 SC-8 (P);  ISO TC-20 SC-9 (O);  ISO TC-20 SC-10 (P);  ISO TC-20 SC-13 (P);  ISO TC-20 SC-14 (P);  ISO TC-31 SC-8 (O)</p>	
26	<a href="#">TED 14(17604)</a>	Unmanned Aerial Vehicles UAV - Drones for Agricultural Purposes	<p>ISO TC- 1 SC-1 (P);  ISO TC- 4 SC-4 (P);  ISO TC- 6 SC-6 (O);  ISO TC- 8 SC-8 (P);  ISO TC- 9 SC-9 (O);  ISO TC- 10 SC-10 (P);  ISO TC- 13 SC-13 (P);  ISO TC- 14 SC-14 (P);  ISO TC- 8 SC-8 (O);  ISO TC- 20 (O);  ISO TC- 31 (P);  ISO TC- 192 (P);  ISO TC-20 SC-1 (P);  ISO TC-20 SC-4 (P);  ISO TC-20 SC-</p>	<a href="#">Comment</a>

			6 (O); ISO TC-20 SC-8 (O); ISO TC-20 SC-8 (P); ISO TC-20 SC-9 (O); ISO TC-20 SC-10 (P); ISO TC-20 SC-13 (P); ISO TC-20 SC-14 (P); ISO TC-31 SC-8 (O)	
27	<a href="#">TED 2(17750)</a>	Method of test for full-flow lubricating oil filters for internal combustion engines - Part 5: Test for hydraulic pulse durability	ISO TC-22 (P); ISO TC-22 SC-34 (P); ISO TC-70 (P); ISO TC-70 SC-7 (P); ISO TC-70 SC-8 (P)	<a href="#">Comment</a>
28	<a href="#">TED 2(17755)</a>	Internal combustion engines - Piston rings - Part 2: Inspection measuring principles	ISO TC-22 (P); ISO TC-22 SC-34 (P); ISO TC-70 (P); ISO TC-70 SC-7 (P); ISO TC-70 SC-8 (P)	<a href="#">Comment</a>
29	<a href="#">TED 2(17757)</a>	Reciprocating internal combustion engines Exhaust emission measurement Part 1: Test bed measurement systems of gaseous and particulate emissions	ISO TC-22 (P); ISO TC-22 SC-34 (P); ISO TC-70 (P); ISO TC-70 SC-7 (P); ISO TC-70 SC-8 (P)	<a href="#">Comment</a>
30	<a href="#">TED 2(17758)</a>	Reciprocating internal combustion engines Exhaust emission measurement Part 4: Steady-state and transient test cycles for different engine applications	ISO TC-22 (P); ISO TC-22 SC-34 (P); ISO TC-70 (P); ISO TC-70 SC-7 (P); ISO TC-70 SC-8 (P)	<a href="#">Comment</a>

31	<a href="#">TED 2(17759)</a>	Reciprocating internal combustion engine driven alternating current generating sets Part 3: Alternating current generators for generating sets	ISO TC-22 (P); ISO TC-22 SC-34 (P); ISO TC-70 (P); ISO TC-70 SC-7 (P); ISO TC-70 SC-8 (P)	<a href="#">Comment</a>
<a href="https://www.services.bis.gov.in:8071/php/BIS_2.0/dgdashboard/draft/darftdetail/67/3/TED">https://www.services.bis.gov.in:8071/php/BIS_2.0/dgdashboard/draft/darftdetail/67/3/TED</a>				

### Smart City/Civil Department (CED)

The following Draft Indian Standards were issued by CED 59-Smart Cities Sectional Committee of Civil engineering division council at BIS during the last quarter for eliciting technical comment:

Smart Cities				
S. No.	Document No	Title of the Doc	IEC/ISO	Give comments
No records found				
<a href="https://www.services.bis.gov.in:8071/php/BIS_2.0/dgdashboard/draft/darftdetail/63/3/CED">https://www.services.bis.gov.in:8071/php/BIS_2.0/dgdashboard/draft/darftdetail/63/3/CED</a>				

### Service Sector Department

The following Draft Indian Standards were issued by SSD of BIS during the last quarter for eliciting technical comment:

Services				
S.No.	Document No	Title of the Doc	IEC/ISO	Give comments
1	<a href="#">SSD-II 1(17712)</a>	Indirect temperature-controlled refrigerated delivery services Land transport of parcels with intermediate transfer	ISO TC-315 (P)	<a href="#">Comment</a>
2	SSD-I 2(17743)	Tourism services Hotels and other types of tourism accommodation Vocabulary	ISO TC-228 (P)	<a href="#">Comment</a>
3	SSD-II 5(17747)	Healthcare organization management Requirements for patient-centred staffing	-	<a href="#">Comment</a>
4	<a href="#">SSD-I 2(17141)</a>	Adventure tourism Leaders Personnel competence	ISO TC-228 (P)	<a href="#">Comment</a>
5	<a href="#">SSD-I 2(17743)</a>	Tourism services Hotels and other types of tourism accommodation Vocabulary	ISO TC-228 (P)	<a href="#">Comment</a>

6	<a href="#">SSD-I 3(17289)</a>	Financial services International securities identification number ISIN	ISO TC-68 (P); ISO TC-222 (O):	<a href="#">Comment</a>
7	<a href="#">SSD-I 3(17290)</a>	Financial services Legal entity identifier LEI Part 1: Assignment	ISO TC-68 (P); ISO TC-222 (O):	<a href="#">Comment</a>
8	<a href="#">SSD-I 3(17291)</a>	Financial services Legal entity identifier LEI Part 2: Application in digital certificates	ISO TC-68 (P); ISO TC-222 (O):	<a href="#">Comment</a>
9	<a href="#">SSD-II 1(17288)</a>	Transportation of Over Dimensional Consignment by Road Guidelines		<a href="#">Comment</a>
10	<a href="#">SSD-II 5(17747)</a>	Healthcare organization management Requirements for patient-centred staffing		<a href="#">Comment</a>
<a href="https://www.services.bis.gov.in:8071/php/BIS_2.0/dgdashboard/draft/darftdetail/107/3/SSD-I">https://www.services.bis.gov.in:8071/php/BIS_2.0/dgdashboard/draft/darftdetail/107/3/SSD-I</a>				
<a href="https://www.services.bis.gov.in:8071/php/BIS_2.0/dgdashboard/draft/darftdetailcomm/402/3/SSD-II-1">https://www.services.bis.gov.in:8071/php/BIS_2.0/dgdashboard/draft/darftdetailcomm/402/3/SSD-II-1</a>				

### At Automotive Research Association of India (ARAI)

The following Draft Indian Standards were issued by Automotive Research Association of India during the last quarter for eliciting technical comment:

At Automotive Research Association of India (ARAI)			
S.No.	Department	Code	Title
1	Automotive	<a href="#">Draft Amd 1 to AIS-163</a>	Procedure for Type Approval of Special Purpose Vehicles (SPV's) for Compliance to Central Motor Vehicles Rules
2	Automotive	<a href="#">AIS-034 (Part 1) (Rev.2):2021/D2</a>	Provisions concerning the Approval of Filament Light Sources for use in Approved Lamp of Power-driven Vehicles and their Trailers
3	Automotive	<a href="#">AIS-034 (Part 2) (Rev. 2): 2021/D2</a>	Provisions concerning the Approval of Gas-discharge Light Sources for use in Approved Lamps of Power-driven Vehicles
4	Automotive	<a href="#">AIS-057 (Rev.2): 2021/D3</a>	Provisions concerning the Approval of Retro-Reflecting Devices for Power Driven Vehicles and their Trailers
5	Automotive	<a href="#">Draft AIS-009 (Rev 2): 2021/D3</a>	Automotive Vehicles - Installation Requirements of Lighting and Light-signalling Devices for Two and Three Wheeled L Category Motor Vehicles, and E-Rickshaw/E-Cart vehicles, their Trailers and Semi-Trailers
6	Automotive	<a href="#">Draft AIS-010 (Part 3) (Rev.2):2021/D3</a>	Provisions concerning the Approval of Front Position Lamps, Rear Position Lamps, Stop Lamps, Direction Indicators, Rear-Registration Plate Illuminating Devices and Reversing Lamp for Two and Three Wheeled Vehicles of Category L and E-Rickshaw/E-Cart and their Trailers and Semi-trailers
7	Automotive	<a href="#">Draft Amd 1 to AIS-135</a>	Fire Detection and Alarm System (FDAS) & Fire Detection and Suppression Systems (FDSS) for Buses – Requirements
8	Automotive	<a href="#">Draft AIS-166/DF/July 2021</a>	Automotive Vehicles – Protective Devices for Two Wheeled Motor Vehicles – Requirements

<https://araiindia.com/downloads>**ICT at TSDSI****"List of New Item for Proposal at TSDSI"**

S. No.	New Item Proposal	Name	Version	Status
1	<a href="#">NIP 272</a>	Feasibility of Open-Source for 5G- Applications: RAN Intelligent Controller	TSDSI-SGSS-NIP272-V1.0.0-20210901	Accepted
2	<a href="#">NIP 268</a>	Feasibility of Open Source for IP Transport in 5G	TSDSI-SGN-NIP268-V1.0.0-20210810	Accepted
3	<a href="#">NIP 271</a>	Open Radio initiative: Towards a Open, Disaggregated RAN	TSDSI-SGN-NIP271-V1.0.0-20210805	Accepted
4	<a href="#">NIP 270</a>	Functional Split and Fronthaul Interface in FBS Driven C-RAN for 5G and Beyond	TSDSI-SGN-NIP270-V1.0.0-20210805	Accepted
5	<a href="#">NIP 269</a>	Bandwidth aggregation for 5G TV Broadcast from the co-located UEs	TSDSI-SGN-NIP269-V1.0.0-20210805	Accepted
6	<a href="#">NIP 267</a>	Inter-domain service automation (IDSA) (motivation microfinance)	TSDSI-SGSS-NIP267-V1.0.0-20210730	Accepted
7	<a href="#">NIP 264</a>	Study of existing ITU/IEEE standards on VLC/LiFi and gap analysis. Identification of Use cases from International and Indian Context	TSDSI-SGN-NIP264-V1.2.0-20210716	Accepted
8	<a href="#">NIP 260</a>	Use Cases and Trials – 5Gi for Automotive	TSDSI-SGSS-NIP260-V2.1.0-20210629	Accepted
9	<a href="#">NIP 261</a>	Technical Report for User Device Data Protection	TSDSI-SGSS-NIP261-V5.1.0-20210623	Accepted
10	<a href="#">NIP 266</a>	NIP for creation of Edge Intelligence standards for latency and privacy management	TSDSI-SGSS-NIP266-V1.1.0-20210617	Accepted

[For complete details of the NIP please click here](#)**"List of Study Item status update"**

S. No.	Study Item	Name	Version	Status
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1	<a href="#">SI91</a>	Service Delivery using 5G Broadcast for TV, Radio, IPTV and File-casting	TSDSI-SGSS-SI91-V1.0.0-20210623	Initiated
2	<a href="#">SI90</a>	Creation of Edge Intelligence standards for latency and privacy management	TSDSI-SGSS-SI90-V1.0.0-20210623	Initiated

[For complete details of the Study Items please click here](#)

**“List of SWIP Status Update”**

S. No.	SWIP	Name	Version	Status
1	<a href="#">SWIC745</a>	Reference Model Clause 6	TSDSI-SGSS-SWIC745-V1.0.0-20210904	Accepted
2	<a href="#">SWIC746</a>	Architecture for a Pan-India PPDR network based on PS-LTE	TSDSI-SGSS-SWIC746-V1.0.0-20210904	Accepted
3	<a href="#">SWIC747</a>	User Data and Privacy Protection – Final TR submission for Approval	TSDSI-SGSS-SWIC747-V1.0.0-20210906	Accepted
4	<a href="#">SWIC748</a>	Study on Edge Intelligence standards for IIoT use cases	TSDSI-SGSS-SWIC748-V1.0.0-20210906	Accepted
5	<a href="#">SWIC749</a>	ILFTA	TSDSI-SGSS-SWIC749-V1.0.0-20210906	Accepted
6	<a href="#">SWIC750</a>	Text proposal for Draft Technical report on Service Delivery using 5G Broadcast for TV, Radio, IPTV and File-casting	TSDSI-SGSS-SWIC750-V1.0.0-20210906	Accepted
7	<a href="#">SWIC748</a>	Study on Edge Intelligence standards for IIoT use cases	TSDSI-SGSS-SWIC748-V1.0.1-20210906	Accepted
8	<a href="#">SWIC751</a>	Digital Process For Know Your Machine Custodian	TSDSI-SGSS-SWIC751-V1.0.0-20210907	Accepted
9	<a href="#">SWIC752</a>	Rural Broadband Services & Architecture	TSDSI-SGSS-SWIC752-V1.0.0-20210907	Accepted
10	<a href="#">SWIC746</a>	Architecture for a Pan-India PPDR network based on PS-LTE	TSDSI-SGSS-SWIC746-V1.1.0-20210908	Accepted
11	<a href="#">SWIC735</a>	ToC – SI 90 Creation of Edge Intelligence standards for latency and privacy management	TSDSI-SGSS-SWIC735-V1.0.0-20210730	Accepted

12	<a href="#">SWIC736</a>	Smartphone User Data & Privacy Protection	TSDSI-SGSS-SWIC736-V1.0.0-20210802	Accepted
13	<a href="#">SWIC737</a>	Open Disaggregated RAN	TSDSI-SGN-SWIC737-V1.0.0-20210802	Accepted
14	<a href="#">SWIC738</a>	SI73 Status report	TSDSI-SGN-SWIC738-V1.0.0-20210803	Accepted
15	<a href="#">SWIC739</a>	SI74 Status report	TSDSI-SGN-SWIC739-V1.0.0-20210803	Accepted
16	<a href="#">SWIC740</a>	6G KPIs	TSDSI-SGN-SWIC740-V1.0.0-20210803	Accepted
17	<a href="#">SWIC741</a>	Cloud Interoperability & Portability Standards Normative Standards	TSDSI-SGSS-SWIC741-V1.0.0-20210804	Accepted
18	<a href="#">SWIC742</a>	Baseline Requirements and High Level Architecture for NIP226 (5G Extensions for Broadcast Offload)	TSDSI-SGN-SWIC742-V1.0.0-20210809	Accepted
19	<a href="#">SWIC743</a>	ToC of the Study Report	TSDSI-SGN-SWIC743-V1.0.0-20210809	Accepted
<a href="#">For complete details of the SWIP please click here and select SWIP</a>				

[Back to contents](#)



## Indian rupee

The Indian numeral system is based on the decimal system, with two notable differences from Western systems using long and short scales. The system is ingrained in everyday monetary transactions in the Indian subcontinent.

Indian semantic	International semantic	Indian comma placement	International comma placement
1 hazar	1 thousand	1,000	1,000
10 hazar	10 thousand	10,000	10,000
1 lakh	100 thousand	1,00,000	100,000
10 lakhs	1 million	10,00,000	1,000,000
1 crore	10 million	1,00,00,000	10,000,000
10 crores	100 million	10,00,00,000	100,000,000
100 crores	1 billion	100,00,00,000	1,000,000,000

Conversion applied above at 1 Euro = 80 INR and for more information please [click here](#)

## About Project SESEI

*The SESEI project (Seconded European Standardization Expert in India) is a project co-funded by five European partners, operating from New Delhi, India, with the objective to increase the visibility of European standardization in India and to promote EU/EFTA-India cooperation on standards and related activities. The SESEI Project (<http://sesei.eu/>) is managed by the European Telecommunications Standards Institute (ETSI - <http://www.etsi.org/> - EU recognized Standards Organization for Telecommunication sectors) and is further supported by two other EU recognized Standards Organization, namely the European Committee for Standardization (CEN) and the European Committee for Electrotechnical Standardization (CENELEC) – <http://www.cenelec.eu/> - which develop and adopt European standards in a wide range of products, services and processes, as well as by the European Commission ([www.ec.europa.eu](http://www.ec.europa.eu/)) and the European Free Trade Association (<http://www.efta.int/>). It is a Standardization focused project, with a priority emphasis on the sectors of ICT, Automotive, Electronic Appliances including Consumer Electronics and Smart Cities etc.*

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CEN - European Committee for Standardization [www.cen.eu](http://www.cen.eu)

CENELEC - European Committee for Electrotechnical Standardization  
[www.cenelec.eu](http://www.cenelec.eu)

ETSI - European Telecommunications Standards Institute [www.etsi.eu](http://www.etsi.eu)

EC - European Commission [www.ec.europa.eu](http://www.ec.europa.eu)

EFTA - European Free Trade Association [www.efta.int](http://www.efta.int)