



EUROPE



# SESEI

SECONDED EUROPEAN  
STANDARDIZATION EXPERT  
IN INDIA

# Newsletter

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European  
Committee for  
Standardization

CENELEC

European Committee  
for Electro Technical  
Standardization

ETSI

European  
Telecommunications  
Standards Institute



European  
Commission



European  
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## Greeting from SESEI!



Dear Readers,

A very hearty welcome to all the readers of the SESEI Newsletter. It is with pleasure that we bring to you the thirteenth (13th) edition of the SESEI Newsletter – Europe, consisting of information and latest updates around Policy, legislation, market development, introduction of new technologies and standards in India for the period of July to September 2022.

The two round of free trade agreement (FTA) between India and EU were held and we are hopeful that the engagements between the two sides are moving forward constructively and are extremely productive and beneficial for both India as well as EU as they share the common values of sustainable growth, green economy, digitization, smart and intelligent systems for their country and citizens. Similarly, heads of delegation from the EFTA States and India have also commenced discussions on the state of play and open pending issues in the negotiations towards a trade and economic partnership agreement.

Another important update this quarter has been the visit of BIS delegation to the EU to learn about the European Standardisation System (ESS) and the stakeholders involved in the formulation of standards, conformity assessment and accreditation. This study cum training visit was organized by SESEI expert under the ambit of the MoU signed between BIS and CEN-CENELEC promoting the exchange of information, knowledge and sharing of best practices, thereby fostering closer cooperation, and further strengthening their relationship.

During this quarter, Govt. disclosed during the parliamentary proceedings that as of now, 450 products are under the ambit of mandatory certification for ISI compliance to ensure public interest, protection of human, animal or plant health, safety of environment, prevention of unfair trade practices and national security. The Department of Consumer Affairs vide the Legal Metrology (Packaged Commodities) through its Second Amendment Rules 2022 has allowed the

electronic products to declare certain mandatory declarations through the QR Code for a period of one year, if not declared in the package itself.

As part of the Smart city projects in India, Telecom regulator - TRAI has initiated use of street furniture for the rollout of 5G small cells and aerial fibre as pilots. Bhopal, one of the smart cities has become the first city which will have Street furniture such as Traffic signal pole, Street light pole, Smart Pole, Billboard, Direction Board, Road Signage, Foot over bridge and city Bus Shelter being used for testing 5G small cells. Equally exciting is the implementation of a fully digital addressing system in Indore Smart City. An application named as "Pataa" has been developed and is now working with the Indian Space Research Organization (ISRO) to develop a digital addressing system for the nation.

Bureau of Indian Standard (BIS) also published standards for Lithium-ion Traction Battery Packs and Systems (Performance Testing) for Electrically Propelled Road Vehicles. This standard is formulated considering real life scenarios for an electric vehicle such as vehicle in parking, battery system is being shipped (stored), operating battery at low and high temperature etc., accordingly various tests are incorporated in this standard.

To boost the electric mobility, Govt. think tank - Niti Aayog have launched two significant initiatives: E-AMRIT (Accelerated e-Mobility Revolution for India's Transportation) mobile application to raise awareness on electric mobility and a Report on "Advanced Chemistry Cell Battery Reuse and Recycling Market in India". The Ministry of Road Transport and Highways has also approved the Notification to introduce Bharat NCAP (New Car Assessment Program), wherein automobiles in India shall be accorded Star Ratings based upon their performance in Crash Tests.

Ministry of Railways has introduced its innovation policy, opening the doors for the participation of start-ups and other entities, leveraging innovative technologies developed by Indian Startups /MSMEs /Innovators /Entrepreneurs to improve operational efficiency and Safety of Indian Railways.

Prime Minister of India recently inaugurated the 5G services in India. For 5G technology faster uptake and creation of 5G ecosystem in India, the govt. has decided to offer the indigenous 5G test bed to use free of cost to the recognized start-ups and MSMEs for the next six months up to January 2023. For other stakeholders, this service will be available at a very

nominal rate. The Department of Telecommunications (DoT) is also setting up test labs in collaboration with 14 other ministries and departments to explore 5G use cases e.g., Ministry of Mines, Ministry of Power, Ministry of Agriculture, Ministry of Education, Ministry of Urban Development, etc.

Similar efforts are being carried out by the Telecom Regulatory Authority of India (TRAI) to promote emerging technologies and Consultation papers on AI and big data as well as the Embedded SIM for M2M Communications were recently released for comments and feedback. Comments have also been invited by Telecommunication Engineering Centre (TEC) and Telecom Standards Development Society, India (TSDSI) for the adoption of 3GPP Rel. 17 standard as national standards.

India is targeting \$300 billion worth of electronics manufacturing and exports by 2025-26. The production linked scheme (PLI) in various sectors, especially Telecom, electronics, conductors and semiconductors, ACC Battery cells are drawing a very enthusiastic response. The "Make in India" campaign has completed its eight years and it has achieved substantial accomplishments across 27 sectors, including strategic sectors of manufacturing and services as well. To attract foreign investments, Government of India has put in place a liberal and transparent policy wherein most sectors are open to FDI under the automatic route.

Another exciting update is India is consideration for the adoption of a common charger in the country with which once implemented companies will be required to offer USB Type-C ports for devices like phones, laptops, tablets, Bluetooth earphones and other portable devices.

With this, I would like to conclude and invite you to read this newsletter at your leisure and make the most of it. Along with the newsletter you will find annexures on the upcoming events and draft standards under wide circulation. Should you desire more information, please feel free to contact us.

Wishing you all a very happy Diwali.

Warm Regards,

**Dinesh Chand Sharma**

**SESEI** | Seconded European  
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Enabling Europe-India Cooperation on Standards





## Standards/IPR/TBT- Market Access

### Bureau of Indian Standards (BIS) delegation visits Europe (CEN-CENELEC, ETSI, EFTA, EC, AFNOR, BELAC etc.)

On 29 June, EFTA House received a delegation of around 20 persons from BIS, the Bureau of Indian Standards. The BIS delegation visited Europe to learn about the European Standardisation System and the main actors in that system: the three European Standardisation Organisations (ESOs) CEN, CENELEC, and ETSI, the European Commission, EFTA, national standardisation and accreditation bodies, and representation of SMEs and societal stakeholders in standardisation.

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### Over 450 products under the ambit of mandatory certification

As on date, over 450 products are under the ambit of mandatory certification. The key consumer electronic products under compulsory certification include Mobile phones, Laptops, TV, Power adapters, Power banks, Digital camera etc. Consumers must ensure that they purchase these products bearing ISI Mark. For a number of products, compliance to Indian Standards is made compulsory by the Government of India taking into cognizance various considerations viz. public interest, protection of human, animal or plant health, safety of environment, prevention of unfair trade practices and national security. For these products, the Government makes it mandatory for manufacturers to follow Indian Standards and obtain BIS certification.

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### BIS formulates performance standards for Electric Vehicle Batteries

Bureau of Indian Standard, National Standard Body of India, has published standards for Test Specifications for Lithium-ion Traction Battery Packs and Systems (Performance Testing) for Electrically Propelled Road

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.

Vehicles. The standard IS 17855: 2022 for these battery packs and systems is harmonized with ISO 12405-4: 2018. This standard incorporates the test procedure for basic characteristic of performance, reliability and electrical functionality for the battery packs and system for either high power or high energy application. This standard is formulated considering real life scenarios for an electric vehicle such as vehicle is in parking (battery is not used for extended period of time), battery system is being shipped (stored), operating battery at low and high temperature etc., accordingly various tests are incorporated in this standard.

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### Bureau of Indian Standards (BIS) issued Guide for Using National Building Code of India 2016

The National Building Code of India 2016 (NBC 2016), a comprehensive building Code prepared by BIS, is a national instrument providing guidelines for regulating the building construction activities across the country. It serves as a Model Code for adoption by all agencies involved in building construction works, be the Public Works Departments, other government construction departments, local bodies or private construction agencies.

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### TBT Notifications:

- [G/TBT/N/IND/231](#): Amendment to Notification on Mandatory Testing and Certification of Telecommunication Systems (MTCTE) – Phase III & IV [Notified document \(1\)](#), [Notified document \(2\)](#), [Notified document \(3\)](#)





## Smart Cities

### MoHUA Constitutes Committee to Identify and Designate Institutions as Centres of Excellence

The Union Minister of Finance, in the budget 2022-23 speech, has announced that “for developing India specific knowledge in urban planning and design, and to deliver certified training in these areas, up to five existing academic institutions in different regions will be designated as centres of excellence. These centres will be provided endowment funds of Rs. 250 crores (€31.25 million) each.” In order to steer the process of identifying and designating institutions as Centres of Excellence (CoEs), Ministry of Housing and Urban Affairs (MoHUA) has constituted a committee comprising of officials from MoHUA, Department of Higher Education (Ministry of Education), All India Council for Technical Education, NITI Aayog and leading domain experts.

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Ministry of Housing and Urban Affairs (MoHUA) issued Guidelines for Identification of Academic Institutions as Centres of Excellence in Urban Planning and Design.

[Download Guidelines](#)

### Indore to become the country's first 'Smart City' with 'Smart Addresses'

Indore will create history by implementing a fully digital addressing system, making it the first city in India to do so. The smart city advanced significantly when a memorandum of understanding was signed with the firm Pataa Navigations. Pataa has developed patented technology and is working with the Indian Space Research Organization (ISRO) to develop a digital addressing system for the nation. Pataa is a brief and distinctive code, comparable to KUMAR100, SINGH221, or other commonly used codes, that will help the user find the specific geotagged location. Users of the Pataa App can upload images of their homes, landmarks, etc., along with their addresses in full text.

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### Bhopal Smart City trials 5G use cases using small cell networks

Vodafone Idea is conducting the trial on the use of street furniture for 5G small cells and aerial fibre with learnings used for deployment in other Indian smart cities, as part of a pilot test hosted by the Telecom Regulatory Authority of India. These pilots are aimed at making cross sectoral infrastructure more accessible for quick roll out of the 5G networks. Street furniture such as Traffic signal pole, Street light pole, Smart Pole, Billboard, Direction Board, Road Signage, Foot over bridge and city Bus Shelter are being used for testing 5G small cells. To test 5G readiness, TRAI has selected Vi to conduct trials at Bhopal Smart City as the main smart city locations in the country.

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## Mobility

### NITI Aayog launches initiatives to boost electric mobility

NITI Aayog launched two significant initiatives – E-AMRIT (Accelerated e-Mobility Revolution for India's Transportation) mobile application to raise awareness on electric mobility and the Report on Advanced Chemistry Cell Battery Reuse and Recycling Market in India. India is among 42 leaders to back and sign up to the UK's Glasgow Breakthroughs, launched at the COP26 climate summit. India is also a co-convenor of the Glasgow Breakthrough on Road Transport, together with the UK and the US. The Breakthrough on Road Transport aims to make ZEVs – including 2&3-wheelers, cars, vans and Heavy-Duty Vehicles – the new normal by making them affordable, accessible and sustainable in all regions by 2030.

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### Minister launches Indian Railway Innovation Policy - "StartUps for Railways"

Indian Railways, the National transporter has taken an important initiative in field of innovation through participation of start-ups and other entities. Hon'ble Minister of Railways, Communications and Electronics & Information Technology, has launched "StartUps for Railways" in Rail Bhavan, New Delhi. This policy will bring scale and efficiency in the field of operation, maintenance and infrastructure creation through participation of very large and untapped startup ecosystem.

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### Minister approves Draft GSR Notification to introduce Bharat NCAP (New Car Assessment Program)

Union minister for Road Transport and Highways has approved the Draft GSR Notification to introduce Bharat NCAP (New Car Assessment Program), wherein automobiles in India shall be accorded Star Ratings based upon their performance in Crash Tests. The



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Minister said Star Rating of Indian Cars based on Crash Tests is extremely crucial not only to ensure structural and passenger safety in cars, but to also increase the export-worthiness of Indian automobiles. He said the testing protocol of Bharat NCAP shall be aligned with Global Crash Test Protocols factoring in the existing Indian regulations, allowing OEMs to get their vehicles tested at India's own in-house testing facilities.

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### Ministry of Heavy Industries launches Automated Online Data Transfer for capturing critical data

Ministry of Heavy Industries has launched Automated Online Data Transfer for capturing critical data related to Domestic Value Addition (DVA) from the PLI applicant's ERP (Enterprise Resource Planning) system to PLI Auto Portal. All approved applicants of the PLI Scheme have their own ERP system. ERP is a type of software that organizations use to manage business activities. The IT enabled system has been devised to enable smooth transfer of data from applicant's existing ERP system to PLI Auto portal of MHI in safe environment. The Application Programming Interface (API) will get embedded with ERP system of the applicant and will enable automaticity and paperless processing in this scheme. In the normal circumstance, the applicants would have been required to file voluminous claims.

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

- [G.S.R. 683 \(E\) regarding Hydrogen fuel for BS-IV Vehicles](#)
- [S.O. 4144\(E\) regarding CSFC test for M and N category](#)
- [S.O. 4143\(E\) regarding Implementation of AIS-038 and AIS-156 from 1st October 2022](#)
- [G.S.R. 680\(E\) regarding Non-Transport Vehicles Visiting India Rules 2022](#)
- [G.S.R. 659\(E\) regarding traction Battery for EV](#)
- [G.S.R. 659\(E\) - Amendment to Sub-rule 4 of Rule 124 of CMVR regarding Type Approval and Conformity of Production requirements for traction battery for electric power train vehicles](#)
- [Amendment in Motor Vehicle Aggregator Guidelines, 2020.](#)
- [G.S.R. 617\(E\) regarding VLT for dangerous hazardous goods vehicle](#)



## ICT including services



### Prime Minister of India makes big announcement on 6G services in India

As the country prepares to roll out 5G services, Prime Minister Narendra Modi said the government is planning to launch 6G network by the end of this decade. PM Modi made the 6G network announcement during his address at the Grand Finale of Smart India Hackathon 2022.

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### Department of Telecommunications invites enterprises to study demand for 5G network

The Department of Telecommunications (DoT) invited enterprises to study the demand for direct assignment of spectrum to set up captive non-public networks (CNP). The enterprises, which have a net worth of more than Rs 100 crore (€12.5 million) and are willing to set up captive non-public networks by obtaining spectrum directly from the Department of Telecommunications (DoT) are invited to participate in the exercise. Captive Non-Public Network can play a key role in developing industries by providing secure, ultra-reliable, low latency and high throughput communication using advanced technologies.

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## Government offers use of 5G test bed free of cost for SMEs, start-ups

To boost the 5G ecosystem in the country, the govt. decided to offer the indigenous 5G test bed to use free of cost to the recognised start-ups and MSMEs for the next six months up to January 2023. For other stakeholders, this service will be available at a very nominal rate. "Department of Telecommunications (DoT) has strongly urged all 5G stakeholders i.e. industry, academia, service providers, R&D institutions, government bodies, equipment manufacturers etc. to utilise the 5G test bed facilities and expertise to test and facilitate the speedy development and deployment of their products.

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## DoT to set up 5G use-case test labs in collaboration with 14 Ministries

The Department of Telecommunications (DoT) is setting up test labs in collaboration with 14 other ministries and departments to explore 5G use cases for the respective government departments. DoT will be conducting focused interactive sessions on digital use cases/applications leveraging communication technologies such as 5G/4G-Adv and IoT (Internet of Things). The 14 ministries slated to take part in the 5G use case test labs are: Ministry of Mines, Ministry of Power, Ministry of Agriculture, Ministry of Education, Ministry of Urban Development, Ministry of Railways, Ministry of Road Transport and Highways, Department of Water, Ministry of Tourism, etc.

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## DoT Issues Guidelines for Rollout of Captive Private 5G Networks

In a first, the Department of Telecommunications (DoT) has released new guidelines for spectrum leasing and practices for development of captive private 5G networks. The idea is to make it easier to utilise 5G airwaves for development of use cases such as machine-to-machine communications, artificial intelligence (AI), internet of things (IoT), etc. According to the requirements for captive non-public networks (CNP), companies that want to buy spectrum directly from the government need to obtain a free 10-year renewable licence.

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## DoT seeks Trai recommendations on E, V bands pricing for auction

The Department of Telecommunications has sought the Telecom Regulatory Authority of India's (Trai) recommendations on pricing and other modalities for auctioning E and V band spectrum. They added that while DoT plans to auction the bands for backhaul and mobile services, it has suggested to Trai that a certain quantum in the V band should be delicensed, or allotted without auctions, for indoor coverage. The DoT has stressed that any delicensed spectrum can be used only for indoor coverage while for outside mobility services and backhaul, companies must buy the spectrum in an auction.

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## DoT/TEC Notifications:

- DoT floats consultation paper on need for new legal framework for sector.

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- DoT invites comments on draft Indian Telecommunication Bill, 2022.

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- Telecommunication Engineering Center (TEC) issued Notification regarding validity enhancement of Testing Certification of MTCTE from 5 Years to 10 Years to reduce the compliance burden on the industry and business.

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- Adoption of TSDSI's 3GPP Rel. 17 standard into national standards by Telecommunications Engineering Centre (TEC) - Inviting the public comments thereupon

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### TRAI Consultation papers/ recommendations:

- Consultation Paper on Leveraging Artificial Intelligence and Big Data in Telecommunication Sector.

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- Consultation Paper on Embedded SIM for M2M Communications.

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- Consultation Paper on Issues related to Community Radio Stations.

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- Consultation Paper on Renewal of Multi-System Operators (MSOs) Registration.

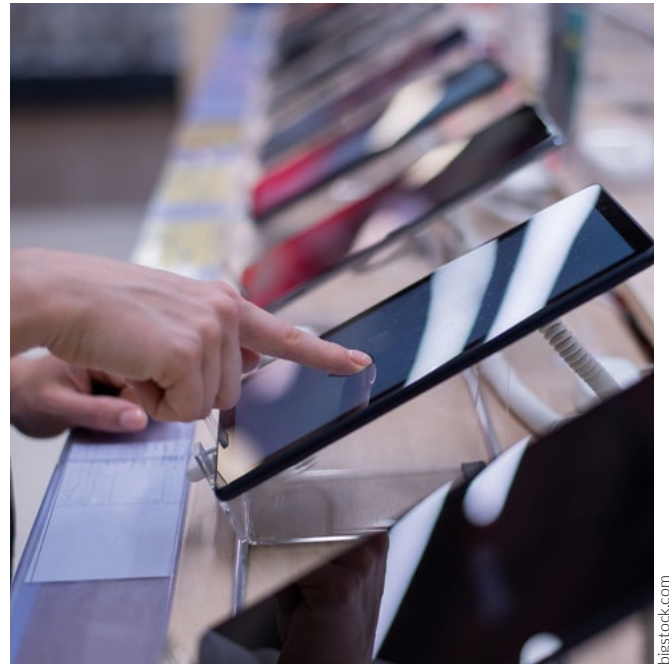
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- Consultation Paper on Draft Telecommunication (Broadcasting and Cable) Services Interconnection (Addressable Systems) (Fourth Amendment) Regulations, 2022.

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## Electrical Equipment including Consumer Electronics



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### Centre amends the Legal Metrology (Packaged Commodities) Rules 2011 for ease of doing business and reducing the compliance burden for the electronic industries

The Department of Consumer Affairs vide the Legal Metrology (Packaged Commodities), (Second Amendment) Rules 2022 has allowed the electronic products to declare certain mandatory declarations through the QR Code for a period of one year, if not declared in the package itself. This amendment will allow the industry to declare the elaborated information in the digital form through the QR Code. It will allow important declarations to be declared effectively on the label in the package while the other descriptive information can be conveyed to the Consumer through the QR Code.

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## After EU, India wants companies to offer a common charger for all devices

The Indian government is reportedly working on guidelines for adoption of a common charger in the country. Companies will be required to offer USB Type-C ports for devices like phones, laptops, tablets, Bluetooth earphones and other portable devices. The EU had passed similar rules earlier this year, mandating all companies to offer a USB Type-C port in their devices.

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## Minister releases handbook on Safety in Electrical Installations and Guide for Using National Building Code of India 2016

Union Minister for Commerce & Industry, Consumer Affairs, Food & Public Distribution and Textiles during the fourth Governing Council Meeting of Bureau of Indian Standards (BIS), released handbook on the subject "Safety in Electrical Installations - A way forward to Safety by National Electrical Code of India" and Guide for Using National Building Code of India 2016. The handbook on Safety in Electrical Installations is jointly developed by BIS and International Cooper Association (ICA) India. This handbook will create awareness about Electrical Safety and provides technical guidance for wiring installations in buildings. The design, installation and other features provided in the handbook will help in understanding the purpose and application in a simplistic way. This will help electrical engineers and technicians to understand the basic need and procedure for safe and reliable electrical Low Voltage installations.

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## Cabinet approves Strategic Partnership Agreement between the Ministry of New and Renewable Energy (MNRE), India and the International Renewable Energy Agency (IRENA)

Strategic Partnership Agreement signed between the Ministry of New and Renewable Energy (MNRE), Government of India and the International Renewable Energy Agency (IRENA). The aim of the Agreement

is to drive ambition, leadership and knowledge on green energy transitions based on renewable energy in India. The Agreement will help India's energy transition efforts and will also help the world in combating climate change. The areas of cooperation as envisaged in the Strategic Partnership Agreement will support India in achieving its ambitious target of 500 GW of installed non-fossil fuel electricity capacity by 2030. This in-turn will promote Atmanirbhar Bharat.

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## Ministry of New and Renewable Energy (MNRE) has issued following notifications/Office Memorandum (OM):

- Call for Renewable Energy Research & Technology Development Programme (RE-RTD-2022).

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- Strategy Paper for Establishment of Offshore Wind Energy Projects.

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## Ministry of Power (MoP) has issued following notifications/Office Memorandum (OM):

- The Ministry of Power issued notification of Power System Operation Corporation Limited as the Central Nodal Agency to set up and operate a single window Green Energy Open Access System for RE under Green Energy Open Access Rules, 2022.

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## Manufacturing/Make in India

### Design-led Incentive scheme gets enthusiastic response from Telecom Equipment manufacturers

Production Linked Incentive scheme in telecom sector was launched in 2021. A total of 31 companies are existing beneficiary for manufacturing of various telecom equipment under the PLI scheme. To promote the entire value-chain in telecom manufacturing, Design-led PLI was launched in June 2022. It provided additional incentive of 1% over and above the existing incentives for products that are designed in India. A total of 32 companies (22 MSMEs, 5 Non-MSME Domestic and 5 Global) have submitted applications. 17 of these 32 companies have applied as Design-led manufacturers and remaining as Production linked manufacturers. It is heartening that 18 new companies have submitted applications.

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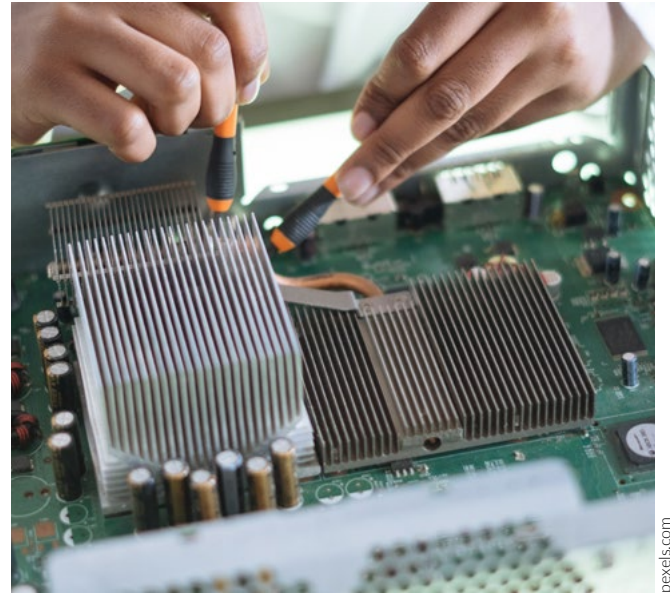
### India committed to reach \$300 bn worth of electronics manufacturing and exports by 2025-26

Emphasizing that India can achieve the target of \$300 billion worth of electronics manufacturing and exports by 2025-26, the Minister of State for Electronics and Information Technology, said that the Government is committed to work in partnership with all states to support startups and entrepreneurs keen on investing in this sector - to reach this mark. He inaugurated India's first lithium cell manufacturing facility of Munoth Industries at the Electronics Manufacturing Cluster at Tirupati.

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### Make in India' completes 8 years, annual FDI doubles to USD 83 billion

Make in India, the flagship program of the Government of India that aspires to facilitate investment, foster innovation, enhance skill development, and build best-in-class manufacturing infrastructure, completes 8 years of path-breaking reforms. The initiative



is an open invitation to potential investors and partners across the globe to participate in the growth story of 'New India'. Make In India has substantial accomplishments across 27 sectors, including strategic sectors of manufacturing and services as well. To attract foreign investments, Government of India has put in place a liberal and transparent policy wherein most sectors are open to FDI under the automatic route. FDI inflows in India stood at US \$ 45.15 billion in 2014-2015 and have since consecutively reached record FDI inflows for eight years.

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### Cabinet approves modifications in scheme for development of semiconductors and display manufacturing ecosystem

The Union Cabinet approved modifications in the scheme for development of the semiconductor and display manufacturing ecosystem, with a uniform fiscal support of 50% project cost for all technology nodes for setting up of semiconductor fabrication units. As per the government, the work on setting up of the first semiconductor facility is expected to commence soon.

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## R&D and Innovation



## Energy Efficiency & Environment including Circular Economy



### Centre unveils platform for better industry, R&D collaboration

Government unveiled a platform to drive collaboration between the industry and research institutes to implement technology-based social impact innovations and solutions in the country. Powered by NSEIT, the Manthan platform will help scale up interactions among stakeholders, facilitate research and innovation, and share challenges in various emerging technologies and scientific interventions, including those that make a social impact.

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### India ranks globally 3rd in Start-Up ecosystem and also in terms of number of Unicorns

India ranks globally 3rd in Start-Up ecosystem and also in terms of number of Unicorns. As per the latest data, there are currently 105 unicorns, out of which 44 were born in 2021 and 19 in 2022.

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### Lawmakers in India Pass Energy Conservation Bill

India took another step toward meeting its climate goals when lawmakers in parliament's lower house approved legislation that would require greater use of renewable energy and force industrial polluters to pay a price for the carbon they emit. The bill sets out a minimum requirement for renewable energy use for corporations and residential buildings. It also grants clean energy users carbon-saving certificates that can be sold or traded and lays out a new energy efficiency standard in homes, which account for 24% of India's electricity use.

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### India's Nationally Determined Contribution to be communicated to the UN Framework Convention on Climate Change

The Union Cabinet chaired by the Prime Minister Shri Narendra Modi, has approved India's updated Nationally Determined Contribution (NDC) to be

communicated to the United Nations Framework Convention on Climate Change (UNFCCC). The updated NDC seeks to enhance India's contributions towards achievement of the strengthening of global response to the threat of climate change, as agreed under the Paris Agreement. Such action will also help India usher in low emissions growth pathways. It would protect the interests of the country and safeguard its future development needs based on the principles and provisions of the UNFCCC.

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### NITI Aayog released a report “Need for Advanced Chemistry Cell (ACC) Energy Storage in India (Part III)

The Government of India (GoI) announced the successful bids for the ambitious Production Linked Incentive (PLI) Scheme, worth \$2.5 billion earlier this year, which aims to kick-start domestic manufacturing of advanced chemistry cell (ACC) batteries. Developing a localised advanced cell supply-chain ecosystem will help India create a competitive advantage in the mobility, grid energy storage, and consumer electronics spaces. The development of a domestic battery manufacturing ecosystem is crucial to achieving India's ambitious goal of electric mobilisation and 500 gigawatts (GW) of installed non-fossil fuel energy by 2030.

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### Government has a Rs 80,000 crore (€10 billion) plan to decarbonise public transport and cut emissions

State-controlled company Convergence Energy Services Ltd. plans to launch a €10 billion tender for 50,000 electric buses, which will help advance India's plans to decarbonize public transport and help achieve its zero-emissions targets. CESL Managing Director said such tenders are starting to look like infrastructure projects and local production of electric buses is expected to grow along with demand.

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

- Plastic Waste Management Second Amendment Rules 2022.

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- Seeking Comments on the Proposed Amendment of Environment (Protection) Act, 1986.

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- Notice for Public Consultation for Amendment in the Water (Prevention & Control of Pollution) Act, 1974.

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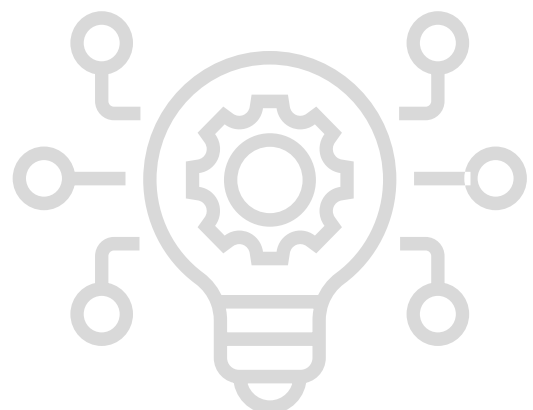
- Notice for Public Consultation for Amendment in the Air (Prevention & Control of Pollution) Act, 1981.

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- G.S.R 593(E) Date 21st July, 2022- Hazardous and Other Wastes (Management and Transboundary Movement) Amendment Rules, 2022

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- Battery Waste Management Rules Notification, 2022

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## EU-India/Trade-FTA/Investments

### India-EU conclude 1st round of negotiations for India-EU Trade and Investment Agreements

India and the European Union concluded the first round of negotiations for India-EU Trade and Investment Agreements, including the Geographical Indicators (GI), in New Delhi last evening. India's FTA negotiations were led by Chief Negotiator Ms. Nidhi Mani Tripathi, Joint Secretary, Department of Commerce and EU was represented by its Chief Negotiator, Mr. Christophe Kiener. The week-long negotiations were held in a hybrid fashion - with some of the teams meeting in Delhi and the majority of officials joining virtually hybrid fashion. During this Round 52 technical Sessions covering 18 policy areas of FTA and 7 Sessions on Investment Protection and GIs were held.

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### EU for govt procurement, IP, digital trade under India-EU FTA

EU says all govt and sub-govt procurement and all services other than construction services should be brought within the ambit of the India-EU FTA. Even as the second round of negotiations between India and the European Union (EU) for a free trade agreement (FTA) is scheduled to begin in Brussels in September, the proposal made by the EU in the initial stage indicates that it could cover a wide range of areas including topics like government procurement, digital trade, state-owned enterprises and intellectual property (IP) that have remained sensitive for India in the past.

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### India, EU to step up cooperation on clean energy and climate action

The European Union and India will strengthen their partnership and deepen bilateral cooperation with a focus on clean energy and climate action, with an emphasis on solar energy and green hydrogen. The

EU and India have been working closely together to speed up the deployment of renewable energy, promote energy efficiency, collaborate on smart grid and storage technology, and modernise the electricity market under the framework of the Clean Energy and Climate Partnership, as per a European Commission press release.

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### European Union seeks green standards, sustainable food systems

The European Union has proposed separate chapters on sustainable food systems, energy and raw materials in its free trade agreement (FTA) with India. Part of the proposal has sought profitable food systems, inclusion of environmental performance, methane emissions measurement standards and facilitating trade and investment in energy and raw materials.

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### India and UK conclude fifth round of talks for India-UK Free Trade Agreement

India and the United Kingdom concluded the fifth round of talks for an India-UK Free Trade Agreement (FTA). For this round of negotiations, technical experts from both sides came together for detailed draft treaty text discussions in 85 separate sessions covering 15 policy areas. Indian and UK officials will continue to work intensively throughout the summer towards our target to conclude the majority of talks on a comprehensive and balanced Free Trade Agreement by the end of October 2022.

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## Invest India



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### FDI equity inflow in R&D sector in India rises to \$343.64 million in 2021

India attracted \$343.64 million foreign direct investment (FDI) equity inflow in the research and development (R&D) sector during the calendar year 2021, which is 516% higher when compared to the previous year, as per the government data. Karnataka is the top FDI Equity recipient state in R&D during 2021 followed by Telangana and Haryana. The states like Telangana, Karnataka, Haryana, Andhra Pradesh and Tamil Nadu registered more than 250% growth in FDI in R&D in 2021 when compared with the previous year, according to data released by the Ministry of Commerce & Industry. Singapore is the top investing country in R&D during 2021 with 40% share of total FDI Equity in R&D followed by Germany (35%) and USA (11%).

[Read More](#)

### FDI Equity inflow in Manufacturing Sectors have increased by 76% in FY 2021-22 (USD 21.34 billion) compared to previous FY 2020-21 (USD 12.09 billion)

India is rapidly emerging as a preferred country for foreign investments in the manufacturing sector.

FDI Equity inflow in Manufacturing Sectors have increased by 76% in FY 2021-22 (USD 21.34 billion) compared to previous FY 2020-21 (USD 12.09 billion). The Government has implemented several transformative reforms under the FDI policy regime across sectors such as insurance, defence, telecom, financial services, pharmaceuticals, retail trading, e-commerce, construction & development, civil aviation, manufacturing etc.

[Read More](#)

### India attracted record \$14.5 bn investment in renewable energy last financial year

Investment in renewable energy in India reached a record \$14.5 billion last financial year 2021-22, an increase of 125% compared to 2020-21 and 72 per cent over pre-pandemic 2019-20, according to a new report by Institute for Energy Economics and Financial Analysis (IEEFA).

[Read More](#)




## Upcoming Events

### Metering India

*When: 03 - 04 Nov 2022*

*Where: Taj Palace, New Delhi, New Delhi, India*

The Metering India event has not only offered a platform to express diverse perspectives of new technologies and challenges but also served to help power sector utilities by addressing the challenges and issues associated with the absorption of new technologies. [Read more](#)

### Auto EV India

*When: 09 - 11 Nov 2022*

*Where: KTPO Convention Centre, Whitefeild, Bengaluru, India*

Auto EV India is slated to be as one of the world's premier EV Auto and technology shows. A path breaking event, that harness the best minds presenting on a single platform to showcase that is the best available in the realm of automotive world, in terms of products, technologies, concepts and trends. [Read more](#)

### Plastic EPR Conference

*When: 22 Nov 2022*

*Where: Holiday Inn Mumbai International Airport, Mumbai, India*

Plastic EPR Conference will focus on the brand owners perspectives on plastic recycling, sustainability & ground-level applications of various methods used by brand owners and solution providers. The conference will cover beyond EPR strategies, EPR compliance, Govt. interventions, regulations by the Govt, and many more thrilling topics. [Read more](#)

### Data Centre India

*When: 09 Nov 2022*

*Where: Shangri-Las Eros Hotel New Delhi, New Delhi, India*

Data Centre India will focus on the DC of Tomorrow: Hyper-converged & Virtualized Network Functions" this forum will trace the importance of various aspects of Next-generation data centers and Virtual Cloud-based Data centers. [Read more](#)

### Smart Mobility Expo

*When: 16 - 18 Nov 2022*

*Where: Bombay Exhibition Centre (BEC), Mumbai, India*

The Smart Mobility Expo is Asia's largest integrated show on smart and safe mobility and it intends to serve as a platform for exhibiting the latest traffic and transport technology and systems. This event creates the ideal meeting place for the Governments departments, infrastructure developers, enforcement authorities, and technology providers. [Read more](#)

### IOTshow

*When: 23 - 25 Nov 2022*

*Where: KTPO Convention Centre, Whitefeild, Bengaluru, India*

IOTshow is an event where the Enablers, the Creators, the Integrators, and the Customers of IoT come together. The unique feature of the show is that while most IoT events focus only on connecting the Creators of IoT solutions with Enterprise Customers, IoTshow started by connecting the Enablers with the Creators of IoT solutions. [Read more](#)





## Upcoming Events

### India Electronics Week

*When: 23 - 25 Nov 2022*

*Where: KTPO Convention Centre, Whitefeild, Bengaluru, India*

India Electronics Week aims to promote and enable the development of smarter products in India. To achieve this goal, IEW has grown to become a technology-centric show that showcases the latest products, solutions and industry best practices, "involving design and manufacturing electronics, "to make products smarter. [Read more](#)

### International Conference on Cloud Computing, Data Science & Engineering

*When: 19 - 20 Jan 2023*

*Where: Amity University, Noida, India*

International Conference on Cloud Computing, Data Science & Engineering intends to bring together Professionals, Academicians, Industry Experts, Researchers, and Enthusiasts to discuss various emerging trends and innovations, and share research results and new directions in the field of next generation technologies. [Read more](#)

### Mobile India Expo

*When: 27 - 29 Mar 2023*

*Where: Pragati Maidan, New Delhi, India*

Mobile India Expo will bring together Mobile devices & accessories ecosystem including manufacturers, OEMs, importers, wholesalers, resellers, distributors, stockists, traders, retailers, tech gurus/ analysts, end-users, solution providers & solution seekers under one roof. [Read more](#)

### CyberX India Summit

*When: 08 Dec 2022*

*Where: Mumbai, India*

CyberX India summit will bring cybersecurity experts together to discuss latest trends in India, current initiatives, latest opportunities and challenges in cyber technologies. [Read more](#)

### IOT India Expo

*When: 27 - 29 Mar 2023*

*Where: Pragati Maidan, New Delhi, India*

IOT India Expo will explore the impact of the Internet of Things (IoT) on industries, such as manufacturing, transport, supply chain, insurance, logistics, government, energy, and automotive. [Read more](#)

### Smart Cities India Expo

*When: 27 - 29 Mar 2023*

*Where: Pragati Maidan, New Delhi, India*

The Smart Cities India Expo focuses on key areas including IoT, Integrated Command Control Centres (ICCCs), e-Governance, Communication systems, Data storage and Management, Innovative urban planning practices, Green buildings, Solar energy, Logistics, Clean Environment, and Water, and many more. [Read more](#)





# 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:

Electrotechnical (ETD)				
S. No.	Document No	Title of the Doc	IEC/ISO	Last Date for Comments
1	<a href="#">ETD 3(20475)</a>	Insulating liquids - Determination of the breakdown voltage at power frequency - Test method	IEC TC-10 (P)	07-10-2022
2	<a href="#">ETD 3(20476)</a>	Method of sampling insulating liquids	IEC TC-10 (P)	07-10-2022
3	<a href="#">ETD 3(20478)</a>	Mineral oil-filled electrical equipment in service - Guidance on the interpretation of dissolved and free gases analysis	IEC TC-10 (P)	07-10-2022
4	<a href="#">ETD 3(20479)</a>	Insulating liquids - Test methods for oxidation stability - Test method for evaluating the oxidation stability of insulating liquids in the delivered state	IEC TC-10 (P)	07-10-2022
5	<a href="#">ETD 3(20480)</a>	Mineral oil-filled electrical equipment - Application of dissolved gas analysis DGA to factory tests on electrical equipment	IEC TC-10 (P)	07-10-2022
6	<a href="#">ETD 3(20481)</a>	Specifications for the re-use of sulphur hexafluoride SF <sub>6</sub> and its mixtures in electrical equipment	IEC TC-10 (P)	07-10-2022
7	<a href="#">ETD 3(20483)</a>	Natural esters - Guidelines for maintenance and use in electrical equipment	IEC TC-10 (P)	07-10-2022
8	<a href="#">ETD 10(20513)</a>	Primary Batteries Part 5 Safety of Batteries with Aqueous Electrolyte	IEC TC- 35 (P)	14-10-2022
9	<a href="#">ETD 10(20528)</a>	Safety of Primary and Secondary Lithium Cells and Batteries during Transport	IEC TC- 35 (P)	14-10-2022
10	<a href="#">ETD 10(20529)</a>	Primary batteries: Part 4 safety of lithium batteries Third Revision	IEC TC- 35 (P)	14-10-2022
11	<a href="#">ETD 25(20490)</a>	Lifts for the Transport of Persons and Goods: Part 3 Specifications for Planning and Selection Section 1 Passenger Service Hospital Bed Stretcher Lifts	ISO TC- 178 (P)	08-10-2022

12	<a href="#">ETD 28(20605)</a>	Terrestrial Photovoltaic PV Modules Design Qualification and Type Approval Part 1: Test Requirements Third Revision	IEC TC-82 (P)	23-10-2022
13	<a href="#">ETD 28(20606)</a>	Terrestrial photovoltaic PV modules Design qualification and type approval Part 1-1: Special requirements for testing of crystalline silicon photovoltaic PV modules Third Revision	IEC TC-82 (P)	23-10-2022
14	<a href="#">ETD 28(20607)</a>	Terrestrial photovoltaic PV modules Design qualification and type approval Part 1-2: Special requirements for testing of thin-film Cadmium Telluride CdTe based photovoltaic PV modules Third Revision	IEC TC-82 (P)	23-10-2022
15	<a href="#">ETD 28(20608)</a>	Terrestrial photovoltaic PV modules Design qualification and type approval Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic PV modules Third Revision	IEC TC-82 (P)	23-10-2022
16	<a href="#">ETD 28(20609)</a>	Terrestrial photovoltaic PV modules Design qualification and type approval Part 1-4: Special requirements for testing of thin-film CuInGASse2 based photovoltaic PV modules Third Revision	IEC TC-82 (P)	23-10-2022
17	<a href="#">ETD 28(20610)</a>	Terrestrial Photovoltaic PV Modules Design Qualification and Type Approval Part 2: Test Procedures Third Revision	IEC TC-82 (P)	23-10-2022
18	<a href="#">ETD 42(20383)</a>	Wind Energy Generation Systems Part 21-1: Measurement and Assessment of Electrical Characteristics Wind Turbines	IEC TC- 88 (P)	25-10-2022
19	<a href="#">ETD 42(20384)</a>	Wind Energy Generation Systems Part 26-1: Availability for Wind Energy Generation Systems	IEC TC- 88 (P)	25-10-2022
20	<a href="#">ETD 20(20303)</a>	Thunderstorm warning systems Protection against lightning	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC-18A (O)	21-09-2022
21	<a href="#">ETD 20(20304)</a>	Lightning density based on lightning location systems General principles	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC-18A (O)	21-09-2022

22	<a href="#">ETD 20(20305)</a>	Safety procedures for reduction of risk outside a structure	IEC TC- 18 (O); IEC TC- 64 (P); IEC TC- 73 (O); IEC TC- 81 (O); IEC TC- 18A SC-18A (O)	21-09-2022
23	<a href="#">ETD 48(19990)</a>	UHV AC Transmission Systems Part 102 General System Design	IEC TC-122 SC- (P)	27-08-2022
24	<a href="#">ETD 48(19991)</a>	UHV AC Transmission Systems Part 202 UHV AC Transmission Line Design	IEC TC-122 SC- (P)	27-08-2022
25	<a href="#">ETD 48(19992)</a>	UHV AC Transmission Systems Part 302 Commissioning	IEC TC-122 SC- (P)	27-08-2022
26	<a href="#">ETD 48(19993)</a>	UHV AC Transmission Systems Part 303 Guideline for the Measurement of UHV AC Transmission Line Power Frequency Parameters	IEC TC-122 SC- (P)	28-08-2022
27	<a href="#">ETD 51(17180)</a>	Electric vehicle battery swap system – part 4 light electric vehicles – section 3 communication protocol	IEC TC-69 (P)	22-09-2022
28	<a href="#">ETD 51(19366)</a>	Electric vehicle battery swap system part 4 light electric vehicles section 1 guidelines and pack dimensions	IEC TC-69 (P)	22-09-2022
29	<a href="#">ETD 51(19367)</a>	Electric vehicle battery swap system part 4 light electric vehicles section 2 connection systems	IEC TC-69 (P)	22-09-2022
30	<a href="#">ETD 51(20356)</a>	Electric vehicle battery swap system part 3 central management system	IEC TC-69 (P)	22-09-2022
<a href="https://www.services.bis.gov.in/php/BIS_2.0/dgdashboard/draft/darftdetail/65/3/ETD">https://www.services.bis.gov.in/php/BIS_2.0/dgdashboard/draft/darftdetail/65/3/ETD</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)				
S. No	Document No	Title of the Doc	IEC/ISO	Last Date for Comments
1	<a href="#">LITD 7(20180)</a>	Electroacoustics - Audiometric equipment - Part 6: Instruments for the measurement of otoacoustic emissions	ISO TC-43 SC-1 (O); IEC TC-29 (P); IEC TC-108 (P); IEC TC-100 (P)	29-09-2022
2	<a href="#">LITD 7(20499)</a>	Universal serial bus interfaces for data and power part 1-2: common components USB power delivery specification	ISO TC-43 SC-1 (O); IEC TC-29 (P); IEC TC-108 (P); IEC TC-100 (P)	08-11-2022

3	<a href="#">LITD 7(20500)</a>	Universal serial bus interfaces for data and power part 1-3: common components USB type-c cable and connector specification	ISO TC-43 SC-1 (O); IEC TC-29 (P); IEC TC-108 (P); IEC TC-100 (P)	11-11-2022
4	<a href="#">LITD 36(20538)</a>	Electrotechnical vocabulary: part 59 educational or training equipment and systems first revision	ISO/IEC/JTC1 TC-SC-23 (P); ISO/IEC/JTC1 TC-SC-28 (P); ISO/IEC/JTC1 TC-SC-35 (P)	19-11-2022
5	<a href="#">LITD 17(20436)</a>	Information security cybersecurity and privacy protection Information security management systems Requirements	ISO/IEC TC-JTC 1 SC-27 (P)	04-11-2022
6	<a href="#">LITD 1(20102)</a>	Fire hazard testing Part 2: Glowing hot-wire based test methods Section 10: Glow-wire apparatus and common test procedure	IEC TC- 89 SC-(O); IEC TC-104 (P)	16-09-2022
7	<a href="#">LITD 1(20103)</a>	Fire Hazard Testing Part 2: Glowing hot-wire based test methods Section 11: Glow-wire flammability test method for end products GWEPT	IEC TC- 89 SC-(O); IEC TC-104 (P)	16-09-2022
8	<a href="#">LITD 1(20104)</a>	Fire Hazard Testing Part 2: Glowing hot-wire based test methods Section 12: Glow-wire flammability index GWFI Test method for materials	IEC TC- 89 SC-(O); IEC TC-104 (P)	16-09-2022
9	<a href="#">LITD 3(19804)</a>	Mechanical structures for electronic equipment Part 3 Dimensions of mechanical structures of the 482 6 mm 19 in series Section 105: Dimensions and design aspects for 1U high chassis	IEC TC- 48B SC-48B (O); IEC TC- 48D SC-48D (O); IEC TC-48 (O)	12-09-2022
10	<a href="#">LITD 14(18453)</a>	Systems and software engineering Life cycle processes Risk management	ISO/IEC TC-JTC 1 SC-7 (P); ISO/IEC TC-JTC 1 SC-40 (P)	23-09-2022
11	<a href="#">LITD 14(19278)</a>	Information technology Remote Operations: Concepts model and notation	ISO/IEC TC-JTC 1 SC-7 (P); ISO/IEC TC-JTC 1 SC-40 (P)	23-09-2022
12	<a href="#">LITD 14(19319)</a>	Information technology - Remote Operations: OSI realizations - Remote Operations Service Element ROSE Service definition	ISO/IEC TC-JTC 1 SC-7 (P); ISO/IEC TC-JTC 1 SC-40 (P)	23-09-2022

13	<a href="#">LITD 14(19320)</a>	Information technology - Remote Operations: OSI realizations - Remote Operations Service Element ROSE protocol specification	ISO/IEC TC-JTC 1 SC-7 (P); ISO/IEC TC-JTC 1 SC-40 (P)	23-09-2022
14	<a href="#">LITD 14(19321)</a>	Information technology Measurement and rating of performance of computer-based software systems	ISO/IEC TC-JTC 1 SC-7 (P); ISO/IEC TC-JTC 1 SC-40 (P)	23-09-2022
15	<a href="#">LITD 14(19322)</a>	Software and systems engineering Software testing Part 1: General concepts	ISO/IEC TC-JTC 1 SC-7 (P); ISO/IEC TC-JTC 1 SC-40 (P)	23-09-2022
16	<a href="#">LITD 14(19323)</a>	Software and systems engineering Software testing Part 2: Test processes	ISO/IEC TC-JTC 1 SC-7 (P); ISO/IEC TC-JTC 1 SC-40 (P)	02-10-2022
17	<a href="#">LITD 14(19324)</a>	Software and systems engineering Software testing Part 3: Test documentation	ISO/IEC TC-JTC 1 SC-7 (P); ISO/IEC TC-JTC 1 SC-40 (P)	02-10-2022
18	<a href="#">LITD 14(19325)</a>	Software and systems engineering Software testing Part 4: Test techniques	ISO/IEC TC-JTC 1 SC-7 (P); ISO/IEC TC-JTC 1 SC-40 (P)	23-09-2022

[https://www.services.bis.gov.in/php/BIS\\_2.0/dgdashboard/draft/darftdetail/66/3/LITD](https://www.services.bis.gov.in/php/BIS_2.0/dgdashboard/draft/darftdetail/66/3/LITD)

## 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				

[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)

## 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	Last date for Comments
1	<a href="#">SSD-II 6(19914)</a>	Requirements for structural design and proof checking consultancy services for structures	--	17-09-2022
<a href="https://www.services.bis.gov.in/php/BIS_2.0/dgdashboard/draft/darftdetail/108/3/SSD-II">https://www.services.bis.gov.in/php/BIS_2.0/dgdashboard/draft/darftdetail/108/3/SSD-II</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>				

## Mobility/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	Last date for Comments
1	<a href="#">TED 4(17272)</a>	Guideline Specifications for Replacement Brake Lining Assemblies and Drum Brake Linings for Power-Driven Vehicles and Their Trailers Amendment - 2	ISO TC- 22 SC- 22 (P); ISO TC- 22 (P); ISO TC-22 SC-2 (O); ISO TC-22 SC-9 (O); ISO TC-22 SC-13 (O); ISO TC-22 SC-33 (O); ISO TC-22 SC-38 (P); ISO TC-22 SC-39 (O)	28-09-2022
2	<a href="#">TED 11(15885)</a>	Headlight Switches for Automobiles - Specification	ISO TC-22 (P); ISO TC-22 SC-31 (P); ISO TC-22 SC-32 (P); ISO TC-22 SC-35 (P)	23-10-2022
3	<a href="#">TED 14(19835)</a>	Specification for Aircraft Fuel Nozzle Grounding Plugs and Sockets	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); 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)	19-11-2022

4	<a href="#">TED 14(19890)</a>	Specification for aircraft sealing wire	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); 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)	19-11-2022
5	<a href="#">TED 14(19950)</a>	Directions of Operation of Toggle Switches on Aircraft	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); 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)	19-11-2022
6	<a href="#">TED 14(19955)</a>	Dimensions for aircraft pressure refuelling connection	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); 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)	19-11-2022
7	<a href="#">TED 14(20470)</a>	Aerospace Nuts hexagonal plain normal height normal across flats with MJ threads classifications: 600 MPa at ambient temperature 120 degrees C 600 MPa at ambient temperature 235 degrees C 900 MPa at ambient temperature 425 degrees C 1 100 MPa at ambient temperature 235 degrees C 1 100 MPa at ambient temperature 315 degrees C 1 100 MPa at ambient temperature 650 degrees C 1 210 MPa at ambient temperature 730 degrees C 1 250 MPa at ambient temperature 235 degrees C and 1 550 MPa at ambient temperature 600 degrees C	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); 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)	19-11-2022

8	<a href="#">TED 14(20489)</a>	Aerospace Nuts hexagonal self-locking with MJ threads classifications: 1 100 MPa at ambient temperature 235 C 1 100 MPa at ambient temperature 315 C and 1 100 MPa at ambient temperature 425 C Dimensions	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); 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)	19-11-2022
9	<a href="#">TED 16(18837)</a>	BMX bicycles - safety requirements and test methods	ISO TC-31 SC-10 (P); ISO TC-149 (P); ISO TC-149 SC-1 (P)	24-10-2022
10	<a href="#">TED 19(16834)</a>	Horizontal Centrifugal Pumps for Marine Use - Specification	ISO TC- 8 (P); ISO TC-8 SC-1 (P); ISO TC-8 SC-4 (O); ISO TC-8 SC-6 (O)	24-10-2022
11	<a href="#">TED 22(18937)</a>	Glossary of terms relating to safety aspects concerning operating areas of industrial trucks	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)	19-11-2022
12	<a href="#">TED 22(18938)</a>	Specification for towing hook for use between trailers of up to 16 tonnes gross mass and transport tractor	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)	19-11-2022
13	<a href="#">TED 22(18939)</a>	Specification for towing hook for use between trailers of up to 35 tonnes gross mass and transport tractor	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)	19-11-2022
14	<a href="#">TED 22(18940)</a>	Dimensions for coupling arrangements between towing vehicle and trailer	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)	19-11-2022



15	<a href="#">TED 22(19022)</a>	Performance testing of powered industrial trucks working in hazardous areas: Part 2 electric battery powered industrial trucks	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)	19-11-2022
16	<a href="#">TED 22(19030)</a>	General requirements of powered industrial trucks working in hazardous areas: Part 1 internal combustion engine powered trucks	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)	19-11-2022
17	<a href="#">TED 22(19037)</a>	Specification for electrical connector for tractor - Trailer jumper cable	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)	19-11-2022
18	<a href="#">TED 22(19041)</a>	Glossary of terms relating to fork arms and attachments of forklift trucks	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)	19-11-2022
19	<a href="#">TED 22(19073)</a>	Specification for drawbar eyes and fore carriage pins for connection between trailers of gross mass above 5 tonnes and up to 35 tonnes and transport tractor	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)	19-11-2022
20	<a href="#">TED 22(19074)</a>	Specification for towing jaw for use between trailers of up to 16 tonnes gross mass and transport tractor	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)	19-11-2022
21	<a href="#">TED 22(19075)</a>	Specification for towing jaw for use between trailers of up to 35 tonnes gross mass and transport tractor	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)	19-11-2022
22	<a href="#">TED 22(19076)</a>	Specification for towing jaw for use between trailers of up to 5 tonnes gross mass and transport tractor	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)	19-11-2022

23	<a href="#">TED 22(19077)</a>	Specification for towing hook for use between trailers of up to 5 tonnes gross mass and transport tractor	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)	19-11-2022
24	<a href="#">TED 22(19078)</a>	Specification for drawbars for trailers of up to 5 tonnes gross mass	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)	19-11-2022
25	<a href="#">TED 22(20205)</a>	Road vehicles mechanical couplings between tractors and semi-trailers Part 2: interchangeability between low-coupling tractors and high-volume semi-trailers	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)	01-10-2022
26	<a href="#">TED 22(20354)</a>	Industrial trucks safety requirements and verification part 1: self -propelled industrial trucks other than driverless trucks variable -reach trucks and burden-carrier trucks	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)	22-10-2022
27	<a href="#">TED 22(12921)</a>	Testing and Acceptance Criteria of Pneumatic Coupling between Tractors and Trailers	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)	22-09-2022
28	<a href="#">TED 22(15462)</a>	Automotive Vehicles - Mechanical Coupling Components of Combinations of Vehicles other than Agricultural Tractors - Requirements	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)	01-09-2022
29	<a href="#">TED 22(19380)</a>	INDUSTRIAL TRUCKS VERIFICATION OF STABILITY PART 16: PEDESTRIAN-PROPELLED TRUCKS	ISO TC- (P); ISO TC- (P); ISO TC-22 SC-40 (O); ISO TC-22 SC-1 (P); ISO TC-22 SC-2 (P); ISO TC-22 SC-3 (P)	16-09-2022
30	<a href="#">TED 27(18122)</a>	Electric Rickshaw E-Kart Construction and Functional Safety Requirements Specification	ISO TC-22 (P); ISO TC-22 SC-37 (O); IEC TC-69 (O)	20-09-2022
31	<a href="#">TED 29(20324)</a>	Automotive vehicles - Safety belt and restraint systems - Specification (First Revision) Amendment - 2	ISO TC- 22 (P); ISO TC-22 SC-36 (P); ISO TC-22 SC-12 (P); ISO TC-22 SC-10 (O)	23-09-2022

32	<a href="#">TED 29(19145)</a>	Automotive vehicles - Locking systems and door retention components - General requirements (First Revision) Amendment - 2	ISO TC- 22 (P); ISO TC-22 SC-36 (P); ISO TC-22 SC-12 (P); ISO TC-22 SC-10 (O)	16-10-2022
33	<a href="#">TED 6(14013)</a>	Field of Vision of Motor Vehicle Drivers for M 1 Category	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)	16-09-2022
34	<a href="#">TED 6(19956)</a>	Safety glass - Specification: Part 2 for road transport (First Revision) Amendment - 4	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)	16-09-2022
35	<a href="#">TED 26(19855)</a>	Road vehicles liquefied natural gas LNG fuel system components Part 4: Manual valve	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)	16-09-2022
36	<a href="#">TED 26(19856)</a>	Road vehicles liquefied natural gas LNG fuel system components Part 5: Tank pressure gauge	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)	16-09-2022
37	<a href="#">TED 26(19857)</a>	Road vehicles liquefied natural gas LNG fuel system components Part 7: Pressure relief valve (PRV)	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)	16-09-2022
38	<a href="#">TED 26(19858)</a>	Road vehicles liquefied natural gas LNG fuel system components Part 8: Excess flow valve	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)	16-09-2022
39	<a href="#">TED 26(19859)</a>	Road vehicles liquefied natural gas LNG fuel system components Part 9: Gas-tight housing and ventilation hose	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)	16-09-2022
40	<a href="#">TED 26(19860)</a>	Road vehicles liquefied natural gas LNG fuel system components Part 10: Rigid fuel line in stainless steel	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)	16-09-2022
41	<a href="#">TED 26(19861)</a>	Road vehicles liquefied natural gas LNG fuel system components Part 11: fittings	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)	16-09-2022
42	<a href="#">TED 26(19862)</a>	Road vehicles liquefied natural gas LNG fuel system components Part 12: rigid fuel line in copper and its alloys	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)	16-09-2022
43	<a href="#">TED 26(19863)</a>	Road vehicles liquefied natural gas LNG fuel system components Part 13: tank pressure control regulator	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)	16-09-2022
44	<a href="#">TED 26(19864)</a>	Road vehicles liquefied natural gas LNG fuel system components Part 14: differential pressure fuel content gauge	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)	16-09-2022

45	<a href="#">TED 26(19865)</a>	Road vehicles liquefied natural gas LNG fuel system components Part 15: capacitance fuel content gauge	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)	16-09-2022
46	<a href="#">TED 26(19866)</a>	Road vehicles liquefied natural gas LNG fuel system components Part 16: heat exchanger-vaporizer	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)	16-09-2022
47	<a href="#">TED 26(19867)</a>	Road vehicles liquefied natural gas LNG fuel system components Part 17: natural gas detector	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)	16-09-2022
48	<a href="#">TED 26(19868)</a>	Road vehicles liquefied natural gas LNG fuel system components Part 18: gas temperature sensor	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)	16-09-2022
49	<a href="#">TED 26(19869)</a>	Road vehicles liquefied natural gas LNG fuel system components Part 19: automatic valve	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)	16-09-2022
50	<a href="#">TED 26(19851)</a>	Road vehicles liquefied natural gas LNG fuel system components Part 1: general requirements and definitions	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)	01-10-2022
51	<a href="#">TED 26(19853)</a>	Road vehicles liquefied natural gas LNG fuel system components Part 2: performance and general test methods	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)	01-10-2022
52	<a href="#">TED 26(19854)</a>	Road vehicles liquefied natural gas LNG fuel system components Part 3: check valve	ISO TC- 22 (P); ISO TC- 41 SC- 41 (P)	01-10-2022

## 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:

Mobility at Automotive Research Association of India (ARAI)			
S. No.	Code	Title	Last Date for Comments
1	<a href="#">Draft Amendment No. 6 to AIS-145</a>	Additional Safety features for Category M & N Vehicles	05-10-2022
2	<a href="#">Draft AIS 189/ D2</a>	Approval of vehicles with regards to Cyber Security and Cyber Security management system	--
3	<a href="#">Draft AIS-178/D2</a>	Provisions for Adapted Vehicles of categories L1, L2, L5M and E-rickshaw	25-08-2022
4	<a href="#">Draft AIS-180/D3</a>	Specific Requirements for Motor Vehicles intended for the carriage of Dangerous and Hazardous Goods with regard to their Constructional Features	09-09-2022

<https://www.araiindia.com/downloads>

## At Research Designs & Standards Organization (RDSO)

The following Draft Indian Specifications/Drawings were issued by Research Designs & Standards Organization (RDSO) during the last quarter for eliciting technical comment:

Specifications/Drawings: RDSO			
S. No.	Specification/STR No.	Description	Last Date of Receipt of Comments
1	<a href="#">RDSO/.....Rev'0'</a>	Draft Functional Requirement Specification (FRS) (soft copy enclosed) for Energy Optimizer for Electric Locomotives (EOEL)	07-10-2022
2	<a href="#">RDSO/2022/EL/STR/00xx (Rev '0')</a>	STR of Cylindrical roller bearing used on TM of 3 -phase Electric locomotive, Conventional electric locomotive and MSU of WAG9/WAP7	04-10-2022
3	<a href="#">Provisional Draft Standard No. IS/RDSO -TI/0002:2022</a>	Indian Railway Standard for Power Quality Restorer (PQR) for 25kV and 2x25 kV Traction Substation in Indian Railways	20-10-2022
4	<a href="#">Provisional draft Standard No. IS/RDSO-TI/0001:2022</a>	Indian Railway Standard for Overhead Line Inspection with Video Recording System for Current Collection Test	07-10-2022
5	<a href="#">GENERAL GUIDELINES ON BATTERY SECTION</a>	GENERAL GUIDELINES ON BATTERY SECTION	20-10-2022
6	<a href="#">IS/RDSO-M&amp;C/2201: 2022</a>	Specification for Pneumatic Tool Oil	01-10-2022
7	<a href="#">IS/RDSO-M&amp;C/2202: 2022</a>	Specification for Machine Tool Way Oils	01-10-2022
8	<a href="#">IS/RDSO-M&amp;C/2203: 2022</a>	Specification for high performance anti-corrosion epoxy paint (two pack)	01-01-2022
9	<a href="#">RDSO/SPN/211/2022 Ver. 1.0 (d10)</a>	Final Draft Specification for Fail-safe Network Multiplexer (FNmux)	04-10-2022
10	<a href="#">RDSO/TM/16/22</a>	Wear plates of BCM-715/713 (Part no.64.08.1623-H5, RM08.25.2150.02 & 64.08.10188)	14-10-2022
11	<a href="#">RDSO/TM/14/22</a>	Round unit for tamping unit lifting/lowering cylinder of CSM, DUO,09-3X & Unimat (Part no. UD66.3273-l)	14-10-2022
12	<a href="#">RDSO/TM/10/22</a>	Hydraulic distributor block of Unimat-4S (Part no. DL90.53)	14-10-2022
13	<a href="#">TM/SM/4 dated 24.04.1991 (Revision 02, August 2022)</a>	RAIL CUTTING MACHINE (Saw type)	06-10-2022
14	<a href="#">TM/SM/TC dated 09.01.2014(Rev 02 of 2022)</a>	Broad Functional Requirement for Self-Propelled Hydraulic Common Power Pack cum Transporting Cart	22-10-2022

15	<a href="#">RDSO/2008/EL/SPEC/0063(Rev 4 proposed)</a>	Technical specification for Zr-Cu rotor bars for Traction motors type 6FRA6068 for WAG9/WAP7 locos.	26.08.2022
16	<a href="#">Final draft revised MP.STR.VL.03.07.11 (Rev 02), August'2022</a>	Schedule for Technical Requirement of Hot Coiled Helical Springs for Locomotives	24.08.2022
17	Specification no. MP-0.01.00.24, Rev-05, August 2022	Specification for Compact Modular Microprocessor Controlled Air Brake System with Advanced features For Diesel-Electric Locomotives.	24.08.2022
18	<a href="#">Specification no. MP- 0.01.00.20, Rev-07, August 2022</a>	Specification for Microprocessor Controlled Air Brake System for WDG4 / WDP4 Locomotives	24.08.2022
19	<a href="#">Draft revised Instruction Bulletin No. MP.IB.VL.05.33.08 (Rev 02), August' 2022</a>	Instructions regarding material, tests and inspection of Rubber Spring Assembly used on HHP Diesel locomotive bogies	23.08.2022
20	<a href="#">Spec. No. MP.0.01.0 0.31, Rev.04, August 2022</a>	Specification of Locomotive Brake Interface Unit (BIU) for KAVACH (The Indian Railway ATP) and Distributed Power	23.08.2022
21	<a href="#">Specification no. MP.0.01.00.15, Rev. 02, July 2022</a>	Specification for Brake Valves (N-1 Reducing Valve, A-9 Auto Brake Valve, C-2W Relay Valve With 5mm / 6mm hoke, 24A-Double Check Valve & C3W Distributor Valve with Control Reservoirs) For Its Use in Brake System Fitted on Diesel and Electric Locomotives	29.07.2022
22	Draft Specification no. RDSO-SPN-RE-MVIS-2018 (Rev.2)	Machine Vision Based Inspection System (MVIS) for Rolling Stock	26.08.2022
23	<a href="#">Draft "Indian Railway Standard Specification for Spheroidal Graphite Cast Irons"</a>	Draft "Indian Railway Standard Specification for Spheroidal Graphite Cast Irons"	15.09.2022
24	<a href="#">Document no. TDG 0045 Ver. '0'</a>	Item Specific guidelines & Schedule of Technical Requirements for manufacture and supply for Spring Steel Rounds	02.09.2022
25	<a href="#">RDSO/2013/EM/SPEC/0016 (Rev. 1) -2019</a>	Technical Specification for Passenger elevator for Indian Railways	19.09.2020
26	<a href="#">RDSO/PE/SPEC/TL/0095 (Rev. 3) -2019</a>	Technical Specification for Passenger escalators to be installed over Indian Railways	19.09.2020
27	RDSO/2017/EM/STR/0001 (Rev. 1) -2019	STR for Passenger elevator	19.09.2020
28	<a href="#">RDSO/2017/EM/STR/0002 (Rev. 1) -2019</a>	STR for Passenger escalators	19.09.2020
29	<a href="#">TM/HM/RBMV/422 Rev.02 of 2022</a>	The revised draft technical specification for RAIL BORNE MAINTENANCE VEHICLE (RBMV)	03.09.2020
30	<a href="#">TM/SM/420 (Second Revision, July 2022)</a>	GPS Based Oscillation Monitoring System (GPS-OMS)	03.09.2020
<a href="https://rdso.indianrailways.gov.in/view_section.jsp?lang=0&amp;id=0,4">https://rdso.indianrailways.gov.in/view_section.jsp?lang=0&amp;id=0,4</a>			

## ICT at TSDSI

"List of New Item for Proposal at TSDSI"				
S. No.	New Item Proposal	Name	Version	Status
1	<a href="#">NIP 283</a>	Use Cases and Deployment Options (5G and beyond) for BFS Vertical	TSDSI-SGSS-NIP283-V2.0.0-20220907	Accepted
2	<a href="#">NIP 296</a>	Study on system requirements related to Metaverse use cases in mobile network	TSDSI-SGSS-NIP296-V1.0.0-20220905	Accepted
3	<a href="#">NIP 283</a>	Use Cases and Deployment Options (5G and beyond) for BFS Vertical	TSDSI-SGSS-NIP283-V1.1.0-20220902	Accepted
4	<a href="#">NIP 288</a>	Study of New waveforms for 6G communication systems	TSDSI-SGN-NIP288-V1.1.0-20220902	Accepted
5	<a href="#">NIP 281</a>	NIP for futuristic architecture of 5G Backbone and Slicing	TSDSI-SGN-NIP281-V2.0.0-20220902	Accepted
6	<a href="#">NIP 295</a>	Study Item for defining qualitative metrics for 6G KPI definitions	TSDSI-SGN-NIP295-V1.0.0-20220901	Accepted
7	<a href="#">NIP 294</a>	A Case Study for Sub-THz Channel Modelling	TSDSI-SGN-NIP294-V1.0.0-20220901	Accepted
8	<a href="#">NIP 293</a>	Open APIs to use Smart-Ambulance Services.	TSDSI-SGSS-NIP293-V1.0.0-20220830	Accepted
9	<a href="#">NIP 292</a>	Enablement of common edge connectivity for public utility purposes	TSDSI-SGSS-NIP291-V1.0.0-20220830	Accepted
10	<a href="#">NIP 290</a>	New Architecture for 6G communication systems	TSDSI-SGN-NIP290-V1.0.0_20220829	Accepted
<a href="#">For complete details of the NIP please click here</a>				
"List of Study Item status update"				
S. No.	Study Item	Name	Version	Status
1	<a href="#">SI97</a>	NIP 295 on Study Item for defining qualitative metrics for 6G KPI definitions	TSDSI-SGN-SI97-V1.0.0-20220901	Initiated
2	<a href="#">SI96</a>	NIP 288 on Study of waveforms for B5G communication systems	TSDSI-SGN-SI96-V1.1.0-20220902	Initiated
3	<a href="#">SI95</a>	NIP 281 (Revised) on Futuristic architecture of 5G Backbone and Slicing	TSDSI-SGN-SI95-V2.0.0-20220902	Initiated
<a href="#">For complete details of the Study Items please click here</a>				

## "List of SWIP Status Update"

S. No.	SWIP	Name	Version	Status
1	<a href="#">SWIC805</a>	Sharing and Coexistence studies between IMT and FSS APP30B allocation for India in 6425 - 7025/7 125MHz band	TSDSI-SGN-SWIC805-V1.0.0-20220830	Accepted
2	<a href="#">SWIC806</a>	Functional Split and Fronthaul Interface in FBS Driven C-RAN for 5G and beyond	TSDSI-SGN-SWIC806-V1.0.0-20220901	Accepted
3	<a href="#">SWIC808</a>	Table of Contents for NIP 282	TSDSI-SGSS-SWIC808-V1.0.0-20220902	Accepted
4	<a href="#">SWIC809</a>	Rural Broadband Services & Architecture	TSDSI-SGSS-SWIC809-V1.0.0-20220907	Accepted

<https://tsdsi.in/study-work-items-proposals/16/>

## ICT at TEC

S. No	Standard/ER No	Name of standard /ER	Standard type	Date of Issue
1	<a href="#">TEC 57030:2022</a>	Bandpass Filter for C-Band Satellite Earth Receivers in 3700-4200 MHz with 30 MHz Guard Band	GR	04-08-2022
2	<a href="#">TEC 49189:2022</a>	National Plan for Distribution of Indian Standard Time to Licensed Service Providers of Department of Telecommunications	GL	01-08-2022
3	<a href="#">TEC 74046:2022</a>	Standard for Energy Consumption Rating and Energy Passport for Telecommunications Products, Equipment and Network/ Services	SD	01-08-2022

<https://www.tec.gov.in/essential-requirements>

<https://www.tec.gov.in/standards-specifications>







## 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** | Seconded European  
Standardisation  
Expert in India  
Enabling Europe-India Cooperation on Standards

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.cencenelec.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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