

SECTOR SPECIFIC REPORT

COMMUNICATION



India Focussing on Quantum Technology & Communication Created 40 Startups in 2
Years

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been issued by TRAI

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01

India Focussing on Quantum Technology & Communication Created 40 Startups in 2 Years

Keeping an eye on global developments in Quantum Technology, **India gave rise to more than 40 startup projects in the domain in the last two years.** This quest has also helped India to develop a few global potential startups as per the Department of Science and Technology (DST) review meeting.



Source: <https://dst.gov.in/india-has-produced-over-40-quantum-technology-start-ups-2-years-few-them-global-potential-says-dr>

The Government of India is focussing on its National Quantum Mission with a holistic approach. In the current scenario, India is contributing to Quantum Technology development taking shape at the global level. **The National Quantum Mission (NQM) is accelerating India's Quantum Technology-led economic growth.** The vision and mission of this flagship initiative will project India as a global leader in the domain and help towards the development of the prevailing quantum technology and communication to nurture the ecosystem.

Key Insights of NQM

The National Quantum Mission was conceptualized by the Prime Minister Science Technology Advisory Council (PMSTIAC)

It received the approval from Union Cabinet on 19th April 2023.

The total budget Outlay of the mission is Rs 6003.65 Crore for 8 years.

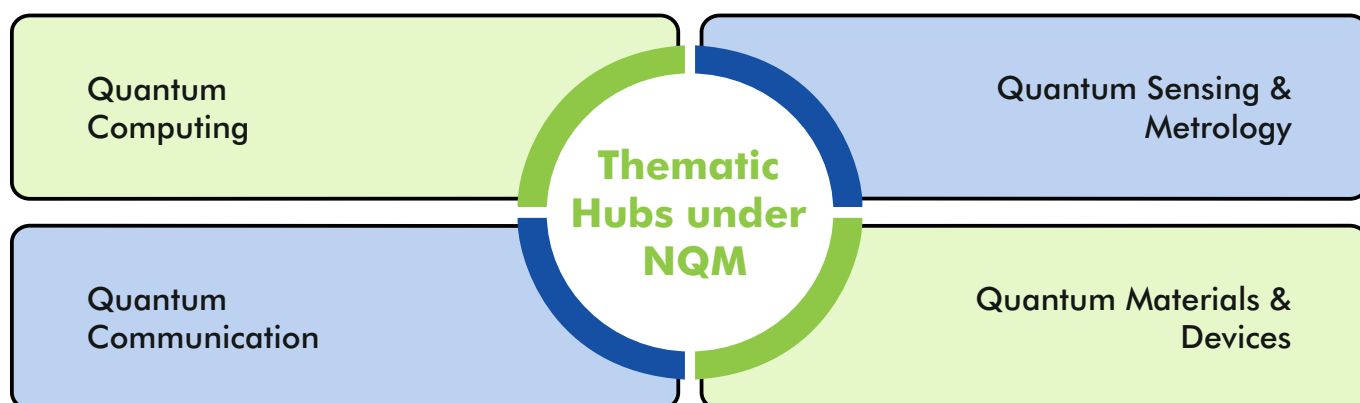
The mission will aim to seed, nurture, and scale up scientific and industrial R&D to create a vibrant and innovative ecosystem in Quantum Technology Domain

The implementation agency for the mission is Department of Science & Technology

It works through a hub-spoke-spike model, involving Centers of Excellence (CoEs), consortia projects, individual scientist-centric projects, etc.

During the review meeting, the Union Minister of State (Independent Charge) for Science and Technology highlighted the significant role of the upcoming and existing startups in this domain along with the equal contribution of the private sector such as **"QuNu Labs"**. It is a **Bangalore-based startup** that is incubated at 'IIT Madras' and has signed a **MoU with the Technology Development Board (TDB)**. It is contributing to **developing security products** driven by the quantum technology for TDB.





He revealed the fact that in the last ten years, the participation of women in extramural Research and Development has doubled. The pioneered STEM initiative under the guidance of the Government of India has boosted women's participation and promoted women as researchers and scientists. Furthermore, it all helps India to develop the next brigade of research scholars to tap its quest to develop efficient methods and technologies in quantum communication.



Source: <https://dst.gov.in/india-has-produced-over-40-quantum-technology-start-ups-2-years-few-them-global-potential-says-dr#:~:text=Jitendra%20Singh-,%22India%20has%20produced%20over%2040%20Quantum%20Technology%20start%20Dups%20in,global%20potential%2C%E2%80%9D%20says%20Dr.>

India's growing presence in the global startup landscape especially in the quantum technology domain reveals its dedication to attaining a strong position and attracting opportunities in the coming years. Increasing numbers of quantum technology startups are also ensuring to achieve innovation in India's technology and scientific advancement in the international arena and project it as a leading player in secure cyberspace globally.



02

Recommendation on "Inputs for Formulation of National Broadcast Policy 2024" has been issued by TRAI

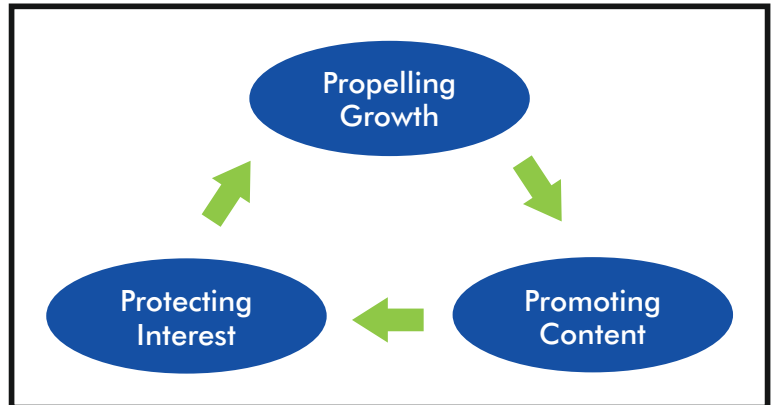
A recent move by the Telecom Regulatory Authority of India (TRAI) revealed several suggestions for shaping the **National Broadcasting Policy 2024**. These proposals recommend an intelligent shift from prevailing technology to the latest and cutting-edge technology. Subsequently, it will not only boost the economy of our country but leverage a seamless consumer experience and conserve the interests of service providers.



Source: <https://government.economictimes.indiatimes.com/news/policy/trai-invites-stakeholders-inputs-for-formulation-of-national-broadcasting-policy-2024/108973797>

The prime agenda of this policy is to give wings to the broadcasting sector so that it can execute major programs by the government of India like 'Brand India' and 'Create in India'. Furthermore, broadcasting in the present time is the prime medium for communication among the masses and thus, safeguarding customer interest alongside the development and growth of the sector is paramount.

Mission of the Recommended Policy

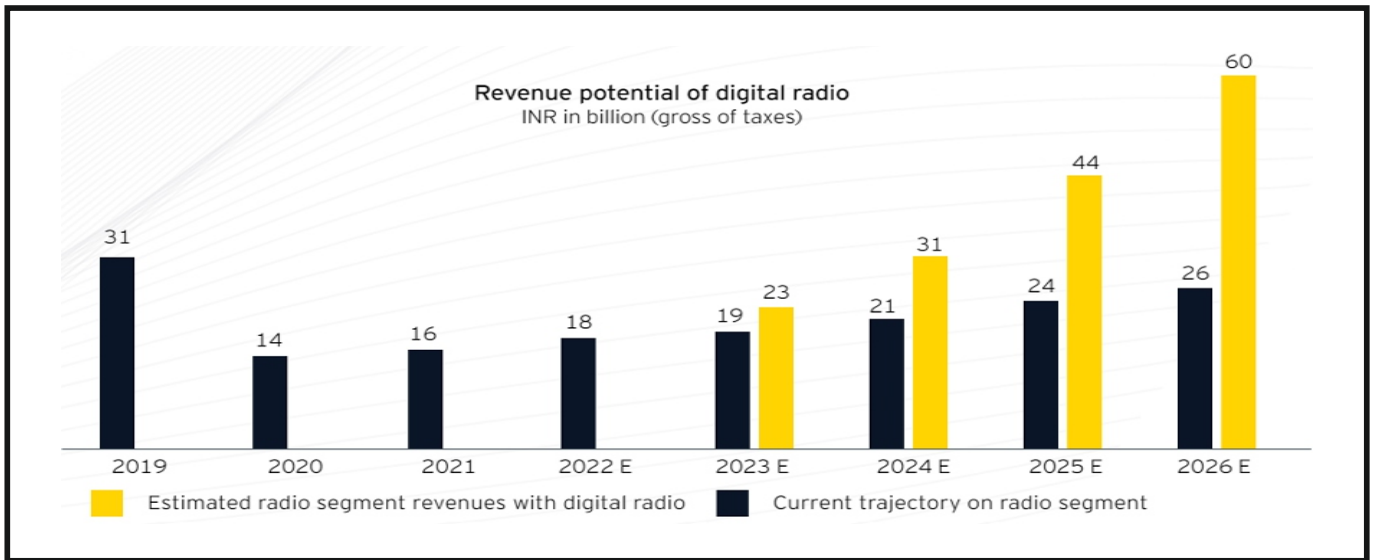


Statistics reveal that the revenue generated from the entertainment and media sector in 2023 was INR 2.32 trillion. With promising demand over the year is expected to increase this revenue to INR 3.1 trillion by 2026. To enable this growth, the creation of data-driven policies and regulations and tech-agile broadcasting infrastructure will be important.

Policy Recommendation Highlights	Facilitate the expansion of television broadcasting services to households currently without coverage.
	Enhance job creation through training and upgrading skills for contemporary abilities.
	Promote startups driven by innovation and support small and medium-sized enterprises (SMEs) to thrive.
	Encourage research and development (R&D) and safeguard Intellectual Property Rights (IPR) within the broadcasting industry.
	Position India as a central hub for up-linking television channels.
	Employ digital terrestrial broadcasting as an alternative method for broadcasting.
	Promote favorable policies and regulatory practices to stimulate economic growth.
	Assess the sector's performance using different critical economic indicators.
	Establish an effective audience measurement and rating system.
	Encouraging content development in the broadcasting industry by Positioning India as a center for content creation.

However, the sector is sidelined by the challenges of data gaps and a shortage of skilled professionals, the policy is expected to address these challenges and develop a level playing field for the stakeholders. The recommendation includes clear and broad guidelines for **Digital Radio Broadcasting which was expected to generate revenue of Rs 60 billion by 2026.**

Revenue Estimates of Digital Radio in India



Source: https://www.trai.gov.in/sites/default/files/Recommendations_20062024_0.pdf

These policy recommendations highlight the core aspects of the broadcasting domain and create provisions for fostering innovation and R&D. These recommendations will work as a torchbearer for TRAI to develop an agile, resilient, and adaptive broadcasting ecosystem in India that will be capable of generating multiple opportunities of skill development and employment in the sector and attract investments to boost its growth over the time.



How AG Group Resources Can Help You

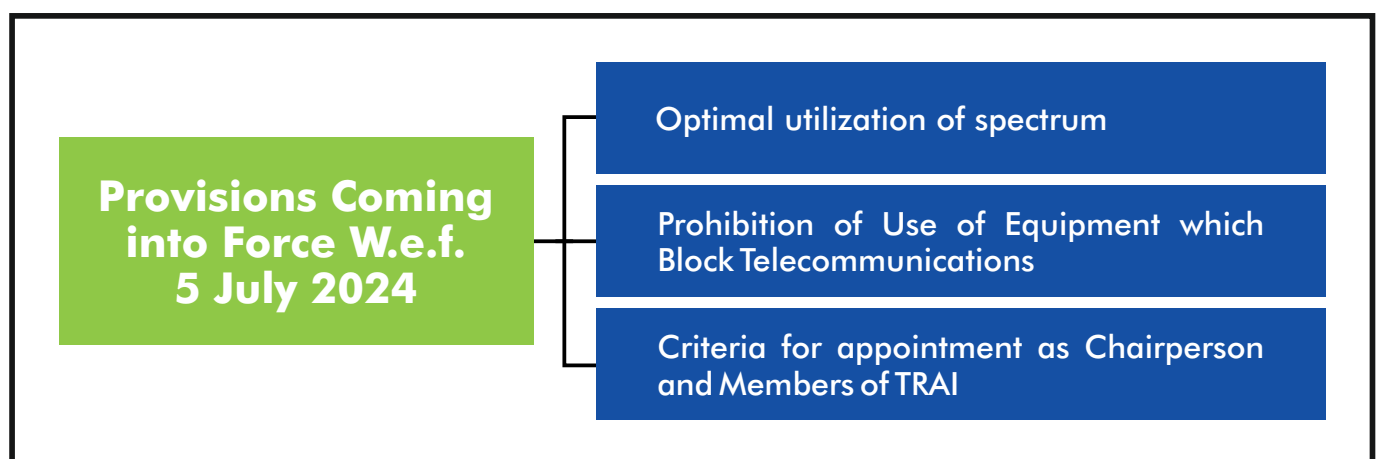
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03

The Telecommunication Act, 2023 is Assisting a New Era of Connectivity to Achieve the Vision of Viksit Bharat

Recently, in the latest Gazette notification of **the Telecommunications Act, 2023 on 5th July 2024, the Government of India has notified provision of sections 6-8, 48, and 59(b)**. It will focus on achieving increased efficiency in the utilization of spectrum along with its sharing and trading, etc.



In June 2024, the Union Government issued a Gazette notification to partially implement the **Telecommunications Act of 2023**. Sections 1, 2, 10 to 30, 42 to 44, 46, 47, 50 to 58, 61, and 62 of this act have been set to start implementation from **26 June 2024**.

Highlights from the Act Coming into Force w.e.f. 26 June 2024

The act offers precise definitions, thereby minimizing ambiguities and bolstering investor assurance.

This initiative aims to streamline business operations, establishing a strong framework for telecommunications services and networks.

Right of Way (RoW) rules encompass public and private property, with public entities (including local bodies, government agencies and PPP projects) required to grant RoW, except in specific cases. Telecom infrastructure is separate from its installation sites, minimizing property transaction disputes.

Aligned with the PM Gati Shakti vision, the Act grants authority to the Central Government to create shared ducts and cable pathways.

The Act enables setting standards for services, networks, and security to safeguard national security and support Indian technology developers. Assessing conformity improves quality and reliability.

Robust provisions empower essential actions for national security and the safety of the public.

The Act broadens the Universal Service Obligation Fund to aid rural, remote, and urban areas lacking services, promoting research and development in telecom services and technologies.

The present-day Telecommunication Act is a notable transition from the existing, old, outdated laws to be replaced by the new ones. In a broad spectrum, the goal behind announcing the new act is to achieve the long-sighted vision of Viksit Bharat that will be driven by **the main pillars of Inclusion (Samavesh), Growth (Vridhhi), Security (Suraksha) and Responsiveness (Tvarit).**



Source: <https://viksitbharaatsankalp.gov.in/>

To achieve these objectives and promote fair competition in the industry, the implementation of this act has been finalized in various phases. The law is ready to reduce uncertainties in the telecommunication sector and enhance the ease of doing business to boost investor's confidence.



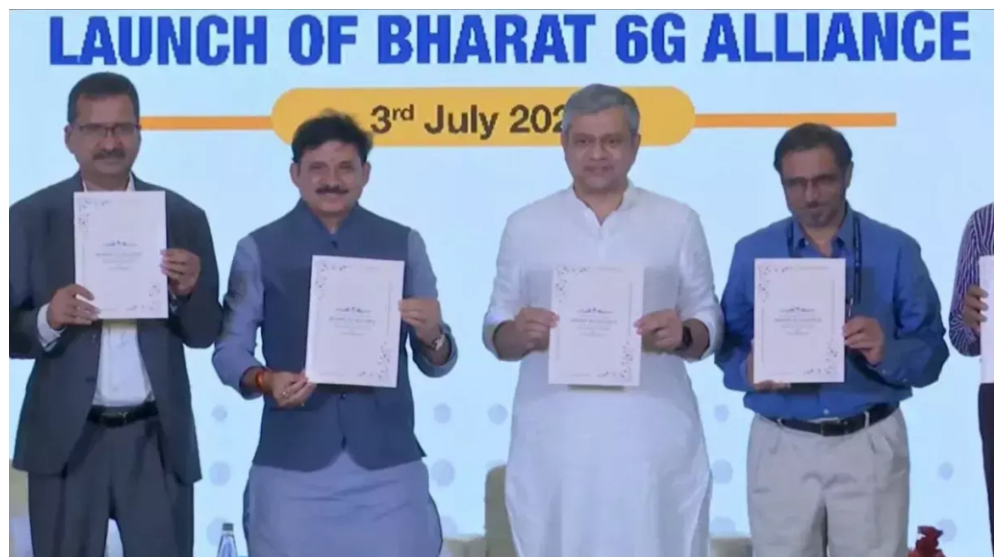
The stepwise implementation of this act is going to navigate various communication technologies such as AI, quantum computing, etc. It will foster innovation in the telecommunication domain and promote competitive growth to ensure efficient transition while protecting the socio-environmental interests of the society at large.



04

Bharat 6G Alliance Forming Global Strategic Partnership to Derive 6G Innovations

Recently, the **Bharat 6G Alliance (B6GA)** has signed a **MoU** with the **6G Smart Networks and Services Industry Association (6G IA)**, **Europe and 6G Flagship- Oulu University**. The motive of this strategic global partnership is to place India as the top player in the 6G technology and lead digital innovation and infrastructure development. In 2023, the alliance was launched by the **Department of Telecommunications (DoT)** which is continuously exploring new opportunities in the 6G domain.



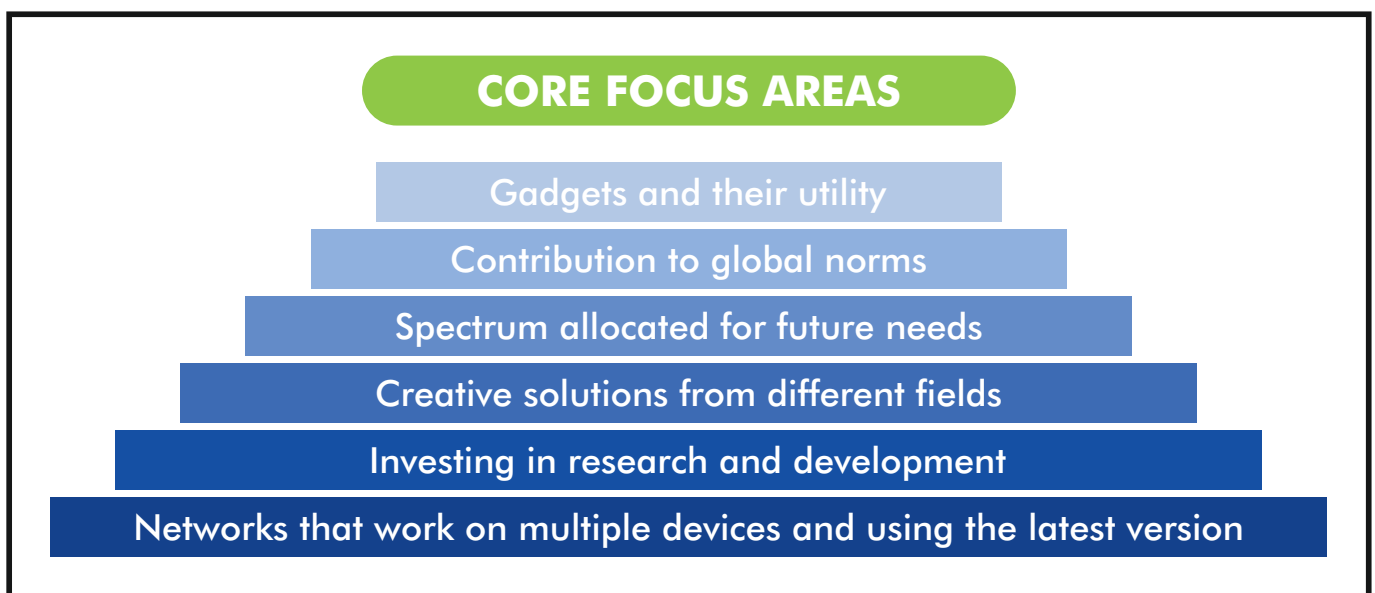
Source: <https://economictimes.indiatimes.com/industry/telecom/bharat-6g-alliance-launched-to-collaborate-next-gen-wireless-technology/articleshow/101477792.cms?from=mdr>

Its objective is to align with other 6G alliances and boost its international presence through the exchange of research information and understanding core requirements of 6G technology. India's 6G vision is focussed on designing, developing, and deploying the latest 6G network to witness a premium experience for the global masses. For this, **it will offer highly secure connectivity, universal access, and intelligent systems that are aligned with the Prime Minister's vision of Atmanirbhar Bharat.**



Source: <https://bharat6galliance.com/bharat6G/>

Through this India will not only drive its set technological agenda but at the same time synchronize its efforts with the telecom technology advancement worldwide. The B6GA is working hard to develop a superior roadmap for achieving innovation in the 6G technology. **It will concentrate on crucial areas like standardization at par with global standards, smart and intelligent management of spectrum, and devices forming a group, etc.**



The alliance is committed to showcasing innovation driven on the pillars of startups, manufacturing hubs, research institutions, private and public organizations, as well as academia to follow result-oriented initiatives and collaborative programs. It will help to excel in 6G requirements, vision, use cases, and architecture that can empower India to achieve sustainable advanced telecommunication infrastructure.



Source: <https://bharat6galliance.com/bharat6G/>

The B6GA initiative is a remarkable milestone in leveraging the global ecosystem opportunities for the 6G network. It will enable the growth of quantum technology and artificial intelligence to drive a larger impact on the economy, society, and environment.

How AG Group Can Be a Help

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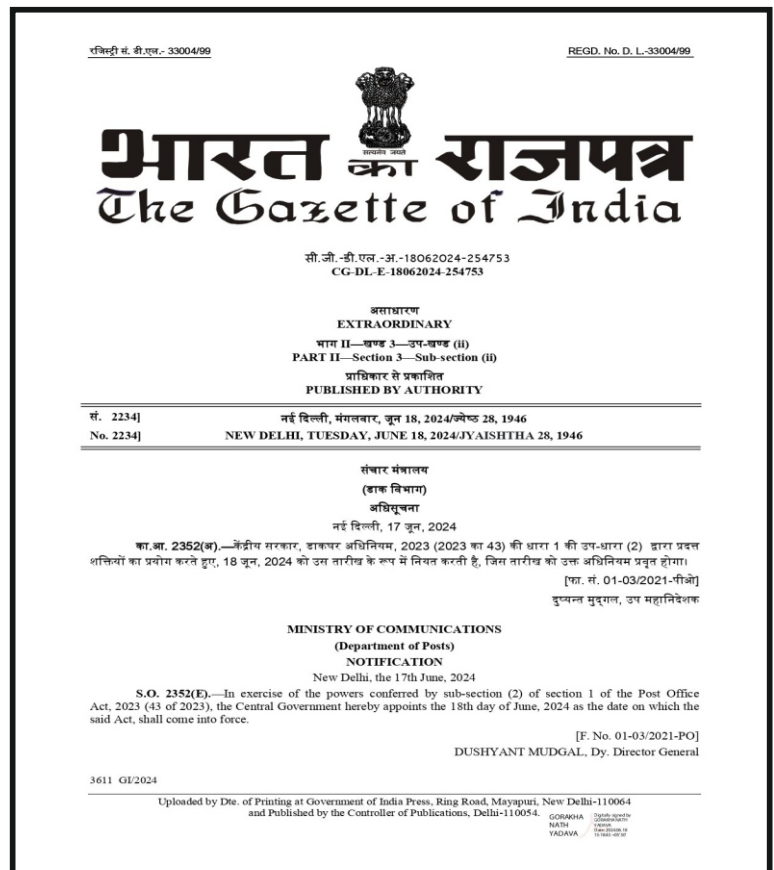


05

The Post Office Act 2023

The Govt notified 'The Post Office Act, 2023' on 17th June 2024 to create a simple legislative framework for delivering citizen-centric services. It will repeal the existing Indian Post Office Act, of 1898 and develop a seamless delivery system for various government services and scheme benefits such as banking at the last mile

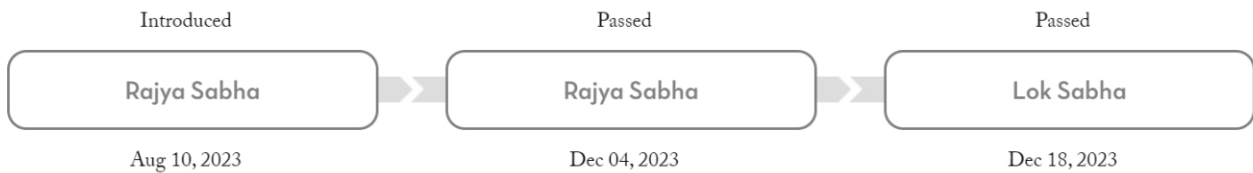
This act brings evolution to our postal services and rebuilds the overall infrastructure on the pillars of modernization and effective operation. It will introduce digital postal stamps and **prescribe standards for addressing various information on posts such as items, address identifiers, and postal code.** The prime intention is to create a significant ecosystem of postal services that will dedicatedly work for citizens.



Source: <https://www.newsonair.gov.in/post-office-act-2023-officially-comes-into-effect/>

The Post Office Bill, 2023

Ministry: Information and Broadcasting



Source: <https://prsindia.org/billtrack/the-post-office-bill-2023>

This act will not have any penal provisions and thus it will enhance the ease of doing business . **It will also get away with the provisions of exclusive privileges in terms of collection, processing, and delivery of letters.**

The new Act overcomes the shortcomings of the earlier provisions and changes the fervour of the Indian post to support the ease of living of citizens and strengthen communication across the length and breadth of the country.

The Act has provisions for devising standards for addressing different key economics involved as under this, **the post office has the right to redeem its cost to avail the seamless postal services.** It is designed to meet the latest standards to reshape the postal services in India under the newly developed framework while retaining the old legacy of postal services as a crucial element.



Source: <https://economictimes.indiatimes.com/wealth/save/new-post-office-act2023comesintoeffectfromjune18checkdetails/articleshow/111103940.cms?from=mdr>



Source: <https://www.manoramayearbook.in/currentaffairs/india/2023/12/05/post-office-bill-upsc-explained.html>



Eminent's Insight

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For the telecom industry in India, the year 2023 brought in innovation and resilience, thanks to the concerted efforts and ground-breaking advancements witnessed across infrastructure, technology, and regulatory domains. The 6 GHz spectrum band emerges as a valuable asset for enhancing mobile networks' quality and coverage. Allotting this spectrum to 5G communications becomes crucial to meet the escalating demand for data services.

Shri S. P. Kochhar
Director-General
Cellular Operators Association of India (COAI)

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RESOURCES

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