

# SECTOR SPECIFIC REPORT

(Communication)



## Policies Covered In The Edition

Introduction of International Tracked Packet Service (ITPS) between India Post and Canada to Facilitate E-commerce Export

5G & Beyond Hackathon 2023' by DoT to Focus on Cutting-edge Ideas to Accelerate 5G technology Development

TRAI Directives for Deployment of Artificial Intelligence-based Systems in Customer Interest

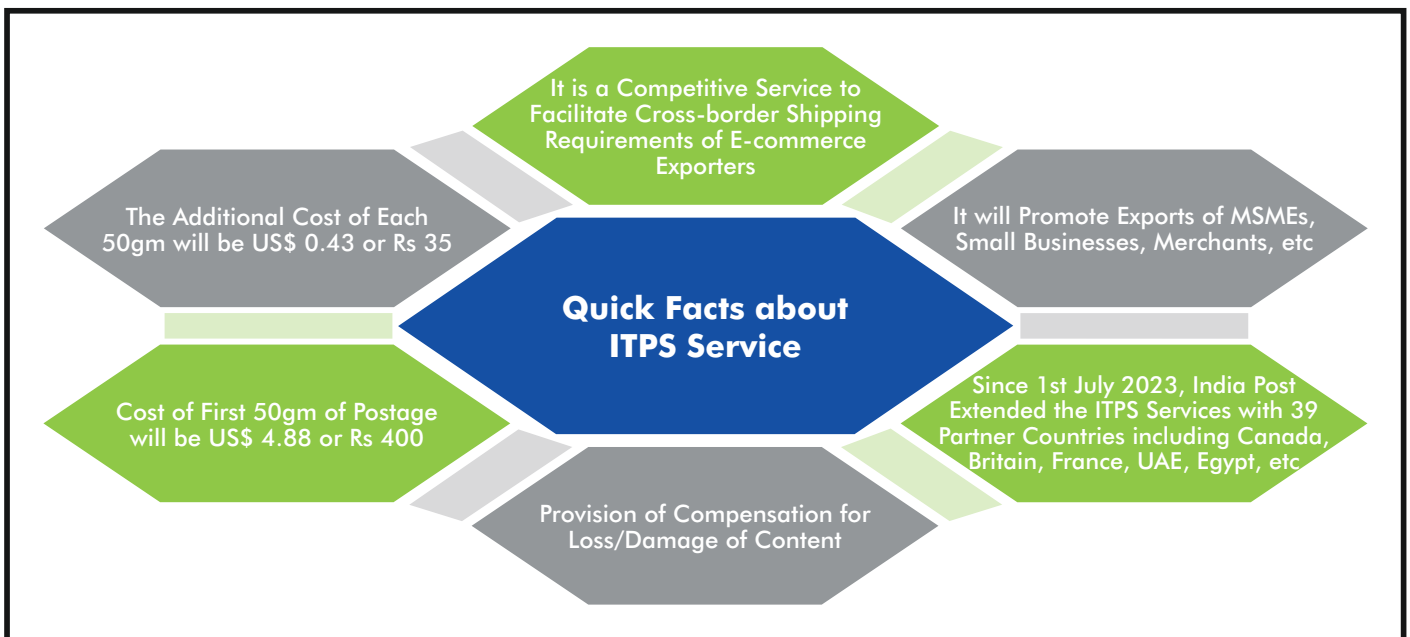
'Sanchar Sathi Portal' to Ensure Safety and Security of Telecom Users

Indian Navy Signed MoU with DST Institute to Develop Secure Maritime Communication Based on Quantum Technology

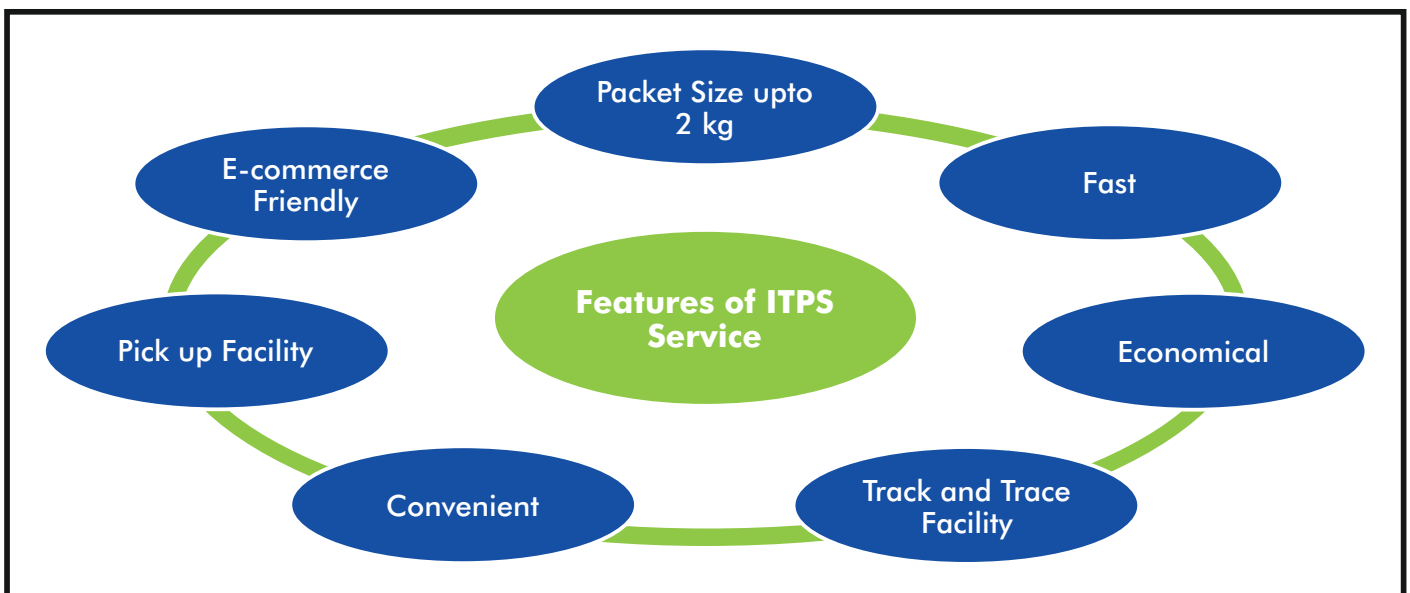
Eminent's Insight

# Introduction of International Tracked Packet Service (ITPS) between India Post and Canada to Facilitate E-commerce Export

To facilitate seamless **transmission and delivery of e-commerce packets upto 2 kg weights** between India and Canada, **India Post has extended ITPS services by entering an agreement with Canada Post w.e.f. 1<sup>st</sup> July 2023**. Earlier the facility has been available in 38 countries including Britain, France, and UAE, among others.



This competitive service will develop cross-border shipping of e-commerce products from online retailers such as MSMEs, Small enterprises, etc to extend India's export performance.



The service has a cost advantage over International EMS and other such facilities. The **volume-based discount feature** for contractual customers or customers availing advance deposit schemes under various categories is an add-on to its attractiveness for retailers.

### Volume Discount Categories

Revenue in a calendar month	Discount
Up to 100000/-	Nil
More than 100000/- and up to 200000/-	5%
More than 200000/-	10%

Source: <https://www.indiapost.gov.in/MBE/Pages/Content/International-Tracked-Packet-.aspx>

The service has eased the process of sending consignments to the Asia Pacific region and other parts of the world to cater to various e-commerce needs of exporters. But due to multiple changeovers and repeated handling of such packets, the parcel's packaging guidelines must have adhered to protect content and reduce loss or damages in transit.



Thus, this affordable as well as low-cost shipping facility with partner countries can **accelerate the e-commerce growth in India and benefit exporters, MSMEs, startups,** and other stakeholders alike. It will also increase the ambit of services provided by local post offices in India while facilitating regional small businesses to grow and take part in cross-border exports to contribute to the growth of the Indian economy.

### Substance List under Special Packing Condition

Precious Metals
Glass or Other Fragile Objects
Liquids or Substance Which can Easily Liquify
Fatty Substances which do not Liquify Easily Such as Ointments, etc and Silkworm Eggs for which conveyance Presents Fewer Difficulties
Dry Coloring Powders Such as Aniline Blue, etc
Dry Non-coloring Powders
Living Animals

# 5G & Beyond Hackathon 2023' by DoT to Focus on Cutting-edge Ideas to Accelerate 5G technology Development

To find innovative cutting-edge ideas for the development of 5G technology-enabled products and solutions, the Department of Telecommunication (DoT) under the Ministry of Communications is conducting the 2023 hackathon with the title '5G and Beyond Hackathon 2023'.



The banner features logos for the Department of Telecommunications, G20 India 2023, 75th Independence Anniversary, and TCOE India. It includes the text 'SUBMISSION OF APPLICATION ONLINE' and the dates '28<sup>th</sup> June - 31<sup>st</sup> July 2023'. A registration link is provided: <https://dcis.dot.gov.in/hackathon/registration>. Prizes include Rs. 1,00,000/- for winners and free space at IMC 2023.

**Registration Link:**  
<https://dcis.dot.gov.in/hackathon/registration>

- Winners will be awarded @Rs. 1,00,000/- each, and
- Free Space at India Mobile Congress(IMC) 2023 to showcase Product/Solution

Implementing Agency-TCOE India

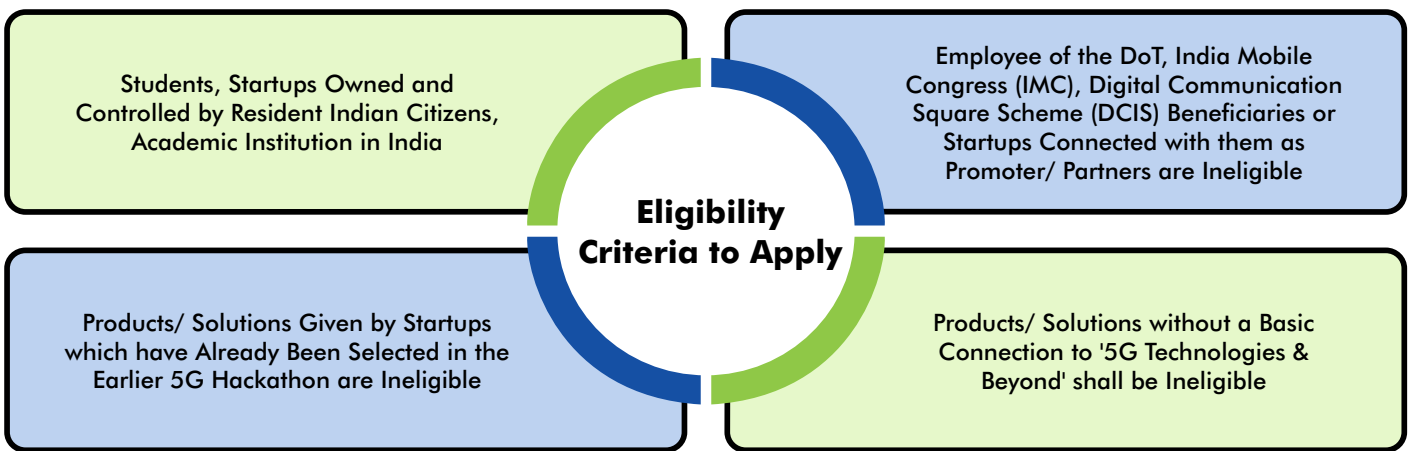
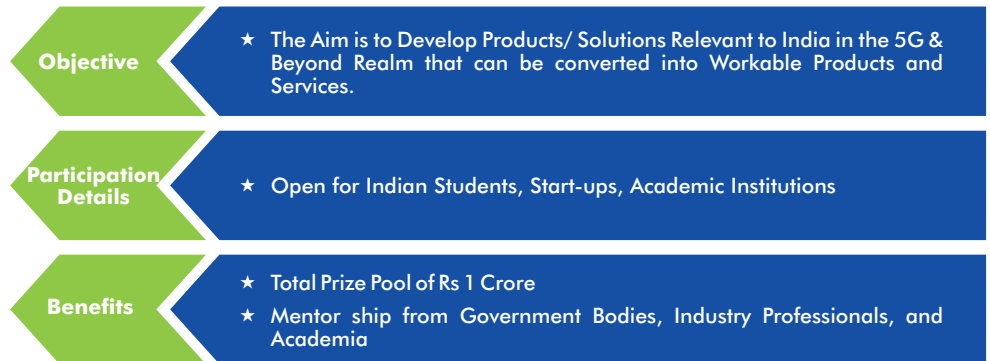
Source: <https://dcis.dot.gov.in/hackathon>

The ideas will be short-list on the possibilities of converting them into workable models and making them market ready for commercialization in various technological vertical with the support of mentors from government, industry as well as academia.



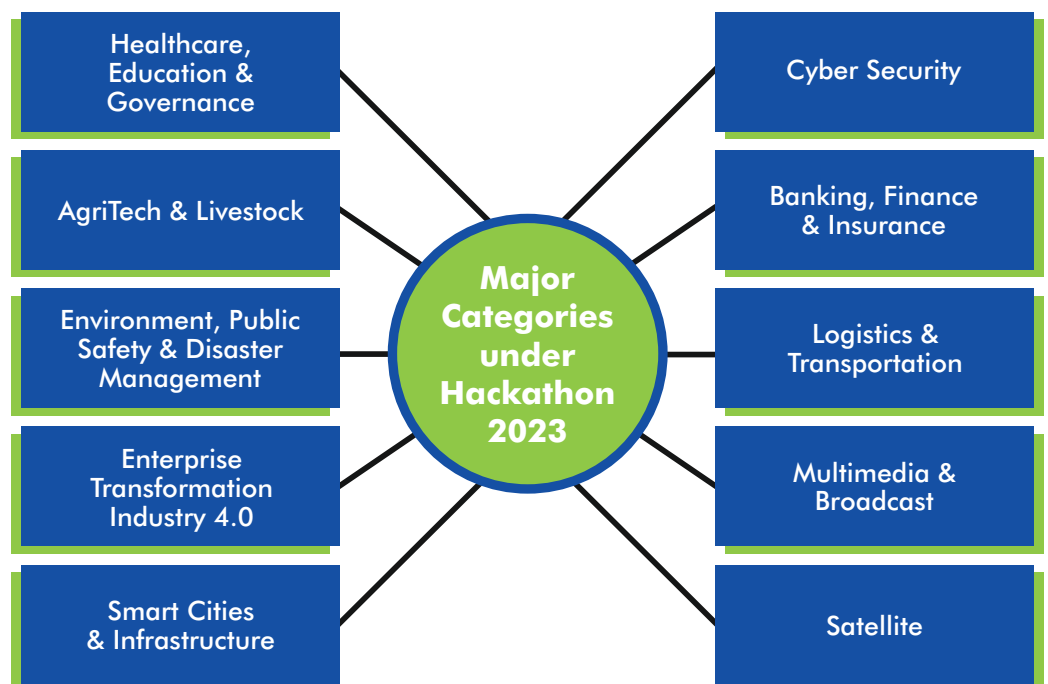
To support a quantum leap in India's 5G technology development vision individuals, teams, or startups across the country are **eligible to submit their applications along with the solutions at the proof-of-concept level.**

**Major Highlights of Hackathon 2023**



The 2023 hackathon invites applications in various verticals to cover a broad spectrum of network elements and application streams including IoT applications.

The hackathon will aim to develop a use case for innovative ideas to develop tangible products that can give a boost to the adaption of 5G technology in the country. It will accelerate the technological innovation efforts in the telecom sector by encouraging knowledge sharing and collaboration among stakeholders in the domain.



# TRAI Directives for Deployment Artificial Intelligence-based Systems in Customer Interest

Recently, to protect Indian telecom customers from Unsolicited Commercial Communication (UCC), the Telecom Regulatory Authority of India (TRAI) has issued **directives to all Access Providers for the formulation of a code of practice and deploying Artificial and Machine Learning based UCC\_Detect system**. This will help in detecting, identifying, and taking action against the fraudulent and Unregistered Telemarketers (UTMs) who are not adhering to the provisions of Telecom Commercial Communication Customer Preference regulations, 2018 i.e., TCCCPR-2018 after several reminders.

## Details of Formulation of Code of Practice for Access Providers

Implementation Details for Detecting Unsolicited Commercial Communications related to Suspicious Unregistered Telemarketing Activities using Signature Solution, Deploying Honeypots and Other Technical Measures

Minimum Standards of Technical Measures to Share Intelligence Information, Rules, Criteria to Detect Suspected Sources of Spam

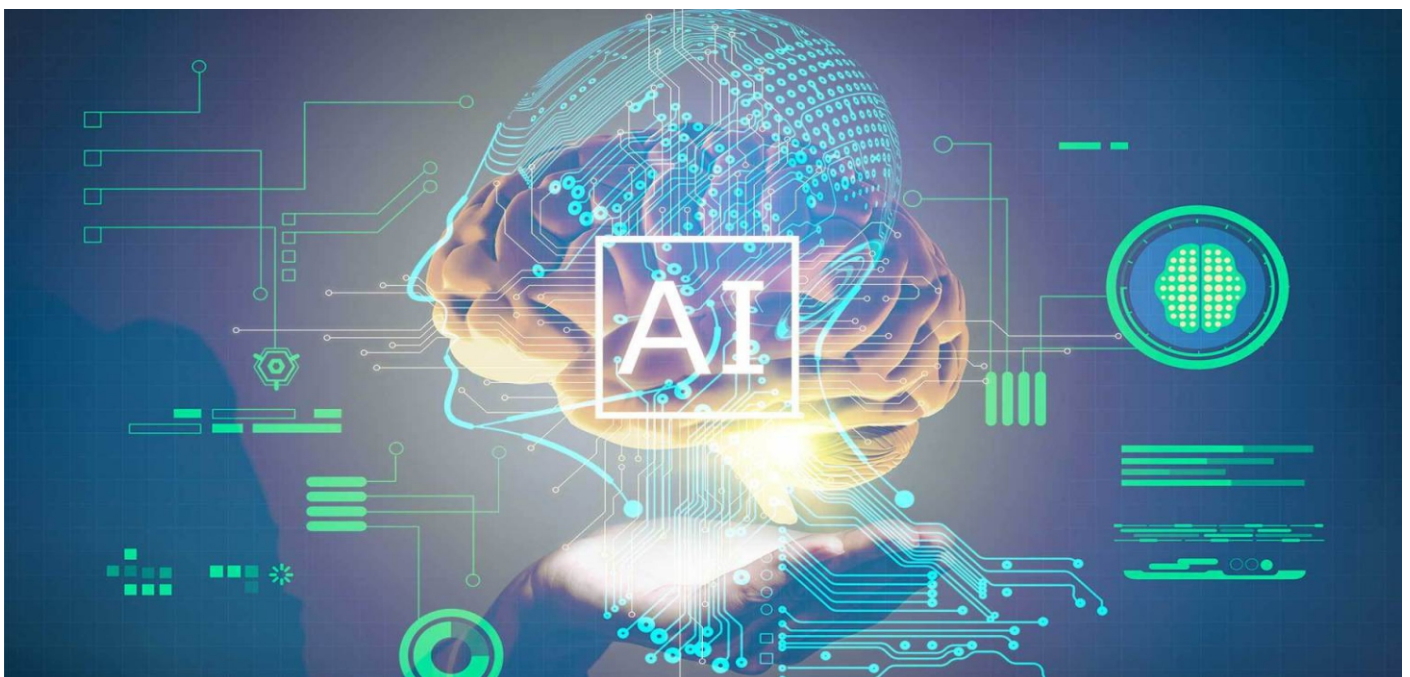
Approaches to Detect and Identify Unregistered Unsolicited Commercial Communications Senders who Masks themselves by fragmenting their activities across Multiple Phone Numbers

Approaches for Deployment of Honeypots to Capture Unsolicited Commercial Communications Voice Calls

Approaches to Detect and Identify Sources of Dictionary Attacks

Timeline for Implementation of Functionality as per Code of Practice and Operationalizing

Other Matters as the Authority may Deem to Fit from Time to Time



The Access Providers are expected to comply with TRAI directives instantly and **need to submit the updated status report within 30 days**. The changing techniques and patterns of phishing attacks on vulnerable customers by UTMspose a major inconvenience to the public. This is sometimes resulting in major financial losses due to sharing of critical information in unsolicited communications.

### Reasons for Deploying AI-based UCC\_Detect System

To Identify and Act Against Senders of Commercial Communication who are not Registered in accordance with the Regulatory Provisions

Increased Calls and SMS from UTMs using Ten Digit Mobile Numbers

UTMs Using Fraudulent Links, Misusing Phone Numbers to Trap the Customers and Trap them to Share Critical Information through Spamming and Phishing Activities that may Cause Financial Loss to Customers

Continuously Evolving Phishing Patterns and Changing Techniques

To counter these frequent changing techniques involving dynamic Call to Action (CTAs) are challenging the continuous efforts to curb the possible threats. Thus, the continuously evolving AI/ML-based UCC\_Detect system has been introduced which will be capable of capturing the dynamically changing signatures, patterns, and techniques of UTMs effectively and protect customer interest across the country.

OPEN HOUSE DISCUSSION ON  
**Unsolicited Commercial Communications**  
15<sup>th</sup> December, 2017, New Delhi | 9:45 AM onwards  
[CLICK TO REGISTER](#)

How do I stop telemarketing calls ?

Stop silent calls

Stop unwanted calls/SMS

Stop Robo calls

## How AG Group Resources Can Help You

To safeguard your business communication and troubleshoot problems with your intelligence analytics [Click Here](#)

# 'Sanchar Sathi Portal' to Ensure Safety and Security of Telecom Users

In May 2023, to ensure the safety and security of rising telecom users in the country, the Department of Telecom, Ministry of Communications launched the 'Sanchar Sathi portal'. This will give wings to the vision of Digital India and ensure mobile cyber safety in the country.



Source: <https://pib.gov.in/PressReleasePage.aspx?PRID=1924552>

The portal will help in creating awareness about important dos and don'ts to ensure safe and secure mobile communication for 117 crore subscribers, which is the second largest telecom subscriber base in the world.

**MOBILE CYBER SURAKSHA**

**DOS**

1. Keep record of IMEI Number to help in registration of complaints and tracing of handset in case of loss or theft.
2. Always lock phone or enable keypad passcode to restrict access to your phone.
3. Turn off applications [camera, audio/video players] and connections [Bluetooth, infrared, Wi-Fi] when not in use to reduce security threats and save battery.
4. Update the mobile operating system regularly.
5. Always install applications from trusted sources.

**DONT'S**

1. Never leave your mobile device unattended.
2. Never put Bluetooth in always discoverable always-on mode. Attackers may take advantage of default settings to launch attacks.
3. Never connect to unknown or untrusted networks.
4. Never keep sensitive information like user names/passwords on mobile phones.
5. Never forward virus affected data to other mobiles.

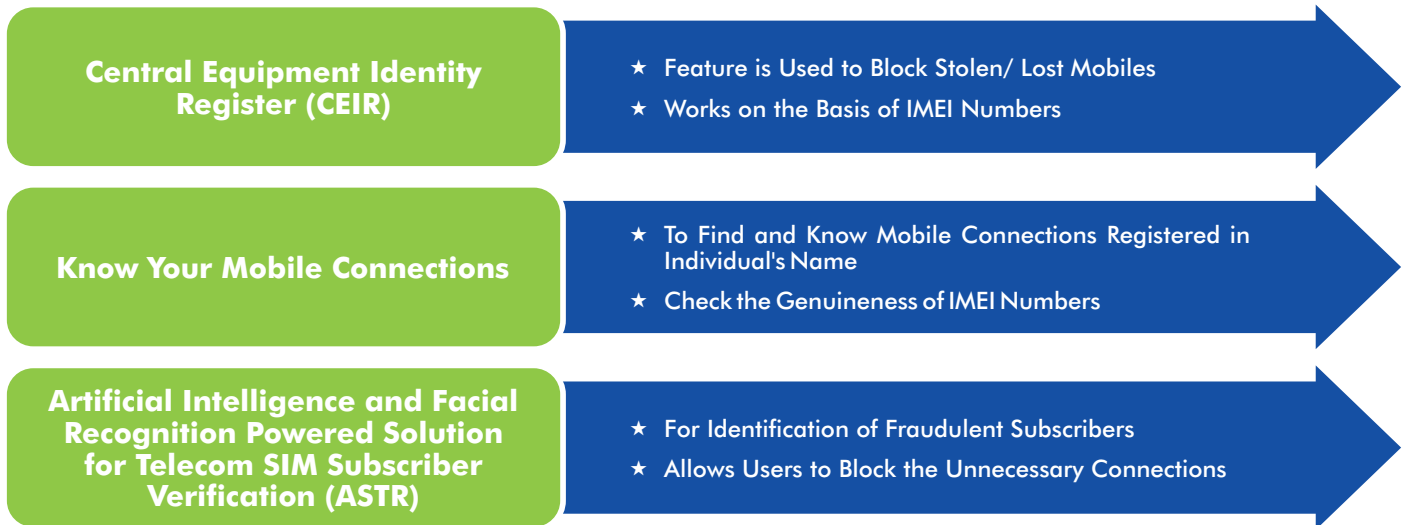
**ACCESS NOW** >>> [www.csk.gov.in/security-best-practices.html](http://www.csk.gov.in/security-best-practices.html)

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

This citizen-centric portal will ensure crucial services on mobiles for banking, financial, e-learning, and other government services among many others. The various features available on the portal will provide online assistance and protection to mobile users to identify theft, fraudulent KYCs, tracking of stolen mobiles, and other banking frauds.

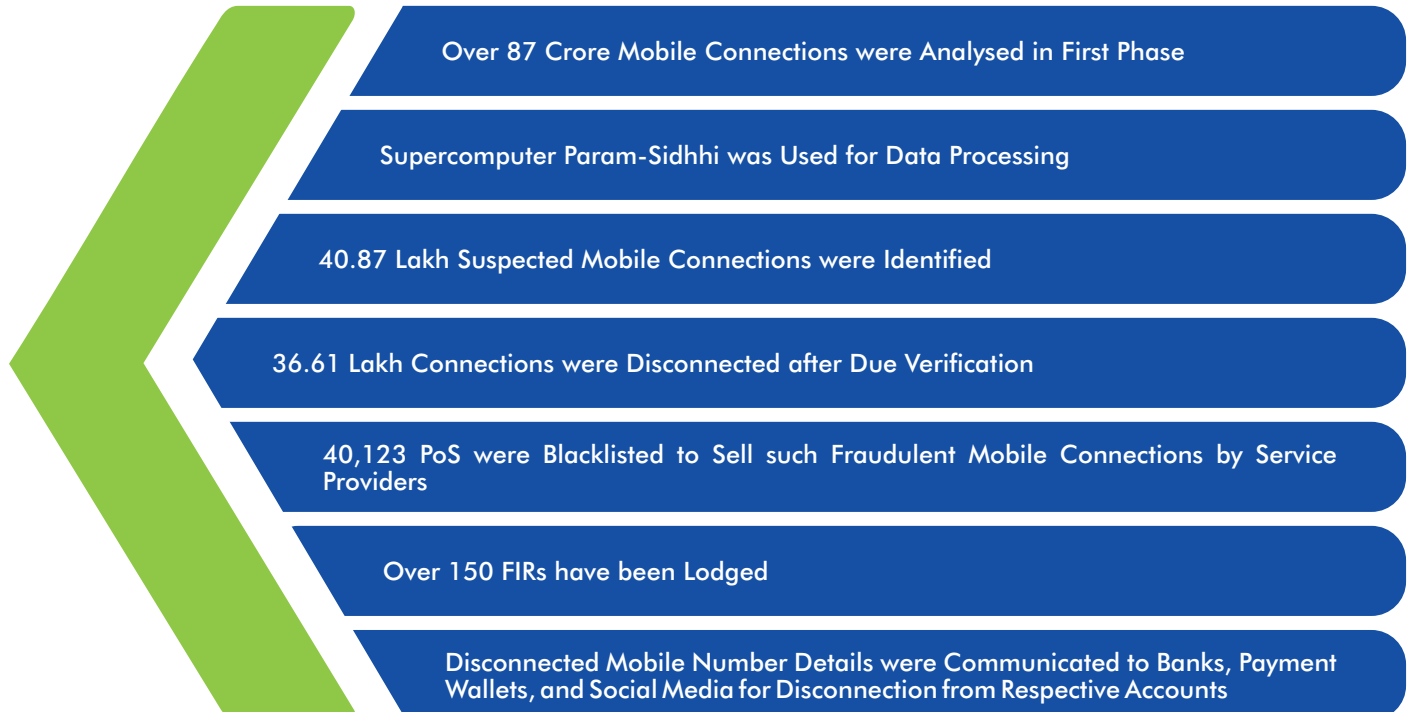


### Citizen-centric Portal Features



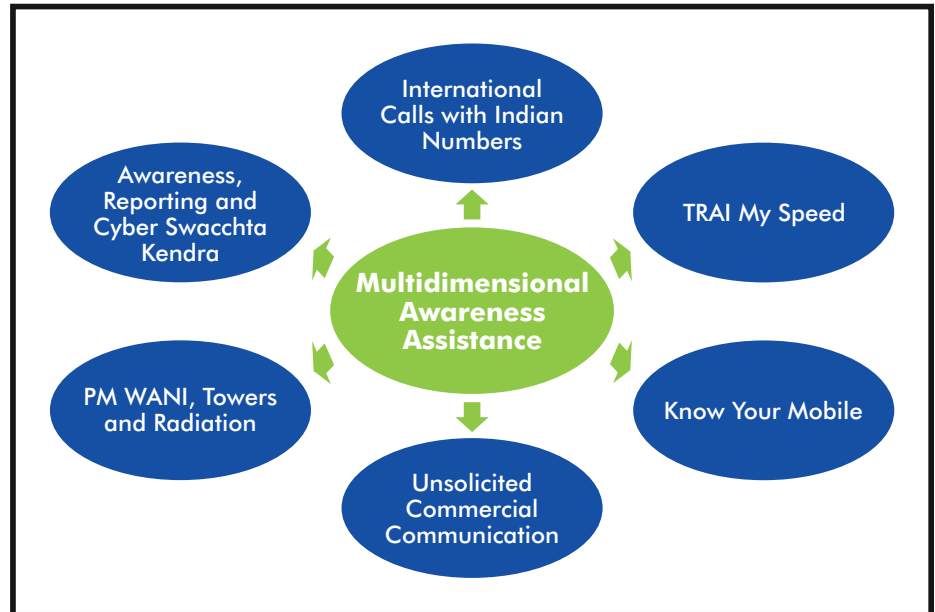
Through the ASTR feature on the portal, various suspected mobile connections have been identified in the first phase of analysis which proved the efficacy of the portal in protecting the safety of mobile connections in the increasing landscape of mobile communication in India.

### Highlights of ASTR Performance



The innovative features on the portal will also help in raising awareness of Indian mobile users to counter possible fraud and empower them to effectively monitor and manage their mobile connections on their own. This can be achieved through **two user-friendly distinct modules in the portal named CEIR and Telecom Analytics for Fraud Management and Consumer Protection (TAF COP)**.

As the mobile user's safety is paramount for the success of the Digital India initiative, the portal will effectively implement the required actions in this regard. The portal facility will get more strength through the draft Telecom Bill and help in higher penetration of various mobile services for various purposes such as finance, learning, healthcare, and government benefits to Indian citizens securely at their fingertips.



**TAF COP**  
Telecom Analytics for  
Fraud management & Consumer Protection

The Telecom Analytics for Fraud management and CONsumer Protection  
- Empowering Consumers Strengthening Security

Enter your Mobile Number

Request OTP

## How AG Group Can be a Help

To experience our extensive expertise in Project Management Consultancy [Click Here](#)

# Indian Navy Signed MoU with DST Institute to Develop Secure Maritime Communication Based on Quantum Technology

Recently, the Research & Development wing of the Indian Navy, the **Weapons and Electronics Systems Engineering Establishment (WESEE)** has signed MoU with the autonomous Institute of the **Department of Science & Technology, Raman Research Institute (RRI)** to develop quantum key distribution techniques with collaborative research efforts to achieve secure free space communication to strengthen national efforts in the domain.

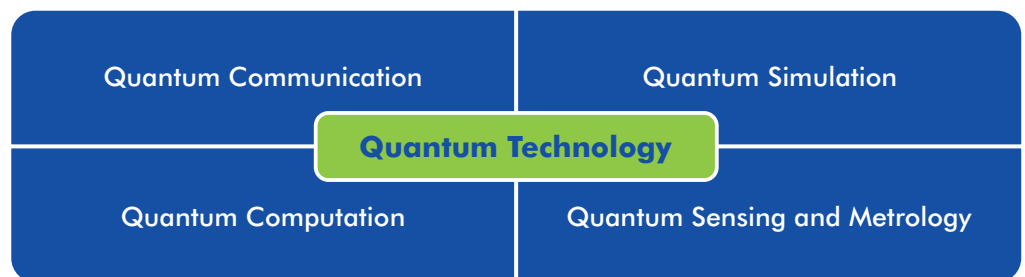
The Quantum Information and Computing (QUIC) Lab of RRI will be leading this research to contribute to secure quantum communication in a nationally important strategic area. Quantum technology (QT) broadly works on four domains, out of which this **MoU will facilitate fostering cutting-edge technology in the areas of secure maritime communication.**



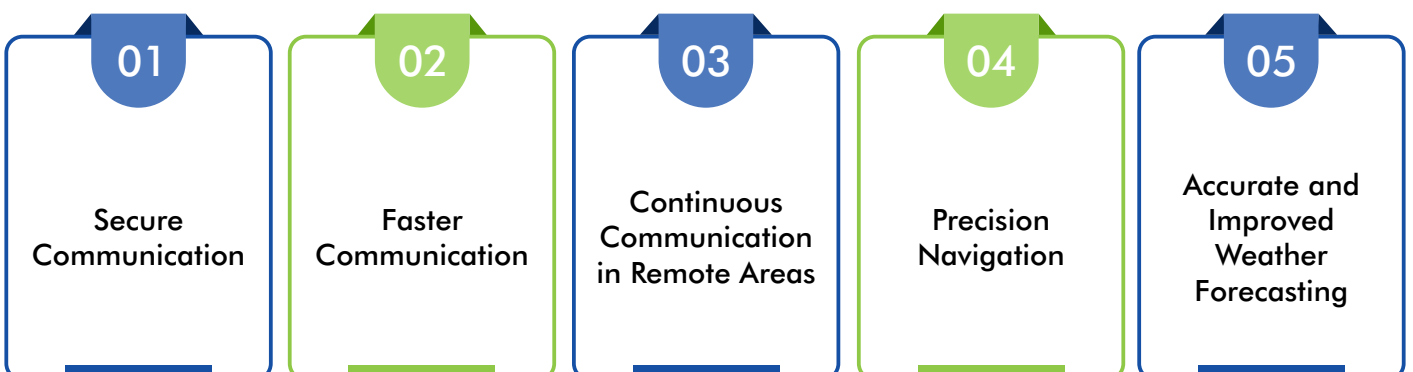
Source: <https://pib.gov.in/PressReleaseSelfframePage.aspx?PRID=1915786>

This strategically important association in the area of science and technology will develop solutions by identifying potential maritime use cases to serve the national interest.

## Various Domains of QT



## Benefits of QT on Maritime Communication



Quic Lab of RRI, Bengaluru is the first lab in India working on diverse applications of QT for the establishment of secure communication in strategic areas such as defence, banking, cyber security, etc.

**Broad Themes of Research in QuIC Lab**

The image displays four research themes in QuIC Lab, each with a representative icon and a label below it:

- Quantum Communication:** Represented by a blue padlock icon.
- Quantum Computation:** Represented by a quantum circuit diagram with blue light beams.
- Quantum Optics:** Represented by a graph showing a dip in a function  $C(\tau)$  versus  $\tau$ .
- Quantum Fundamentals & QIP:** Represented by a network of nodes and connections in green and purple.

Source: <https://www.rri.res.in/quic/>

Thus, this strategically important association will **test and implement quantum communication technologies like 'QKD' in real-time settings** to develop cost-effective solutions for fast and secure maritime communication in India in the coming years.

# Top 10 Quantum Technology Trends in 2023

**Quantum Technology**

**1040**  
Startups & emerging companies analyzed

The infographic details the following trends and associated companies:

- Quantum Sensors:** QDI systems, Quantum Technologies
- Hybrid Quantum Applications:** QUANTUM MASS, seeqc
- Quantum Communication:** Xairos, Aliro
- Novel Qubits:** QC82, parityqc
- Advanced Materials:** C12, QustomDot
- Post-Quantum Cryptography:** AMERICAN BINARY, Ferro Quantum
- Quantum Simulations:** KUANO, QUANSCIENT
- Quantum Machine Learning:** QUANTUM ARTIFICIAL INTELLIGENCE, QuantrolOx
- Cloud Computing:** QπCLOUD, H&S
- Fault-Tolerance Computing:** ALICE & BOB, Nord Quantique

# Eminent's Insight

India has witnessed the fastest growing Telecom Network and the fastest 5G rollout covering over 680 districts with 5G in the country. The spectrum allocation has been done in a transparent manner and in record time. Along with the above, the development of indigenous 4G/5G stack have led to India emerging as a Global Telecom Power.

**Shri Devusinh Chauhan**  
**Union Minister of State for Communications**  
**Government of India**

# Resources

1. <https://pib.gov.in/PressReleaseframePage.aspx?PRID=1936517>
2. <https://www.indiapost.gov.in/MBE/Pages/Content/International-Tracked-Packet-.aspx>
3. <https://www.ibef.org/news/india-post-and-canada-post-have-joined-hands-to-facilitate-e-commerce>
4. <https://www.aninews.in/news/business/business/india-post-canada-post-join-hands-to-facilitate-e-commerce20230703105439/>
5. <https://dcis.dot.gov.in/hackathon>
6. <https://pib.gov.in/PressReleaseframePage.aspx?PRID=1936008>
7. <https://www.cdor.in/cdorweb/web/news.php?lang=en>
8. [https://www.business-standard.com/technology/tech-news/centre-announces-5g-beyond-hackathon-2023-applications-process-starts-123062800814\\_1.html](https://www.business-standard.com/technology/tech-news/centre-announces-5g-beyond-hackathon-2023-applications-process-starts-123062800814_1.html)
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16. <https://pib.gov.in/PressReleasePage.aspx?PRID=1924962>
17. <https://pib.gov.in/PressReleaseframePage.aspx?PRID=1915786>
18. <https://wwws.rri.res.in/quic/>
19. <https://www.indianweb2.com/2023/04/indian-navy-and-rri-to-jointly-develop.html>
20. <https://www.thehindu.com/news/cities/bangalore/rri-signs-mou-with-indian-navy-for-developing-secure-maritime-communications-using-quantum-technologies/article66724129.ece>

# AG GROUP

We expand your Horizon



AG was established in the year 1998. In the due course of time AG has become multi-functional, multi-disciplinary organization offering a wide range of consultancy services to multiple sectors for implementation of projects under one roof from "Concept to Commissioning" AG shareholders has track record in the development of mega projects in country & overseas in field of sports, hospitality, tourism, flood management, turf farms, F&B, real estate, fashion & clothing, import & exports, chemical & fertilizers.

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Transaction Advisory	Financial Advisory	Business Acceleration & Growth

## OUR SECTORS

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Aviation	IT & Telecom	Irrigation	Tourism	SDG
Ropeway	Power & Renewable Energy	Agriculture	Education	Carbon Credit
Electric Vehicle	Infrastructure: Highway/Tunnels	Animal Husbandry	Healthcare	Climate Change
Traffic Management		Horticulture & Forestry		

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