



## Mandatory Testing and Certification of Telecom Equipment (MTCTE)

Largest comprehensive test facilities covering Safety, EMC, Wireless, Environmental & SAR.

Manufacturer/ OEM/ Importer/ dealer must undergo prior mandatory testing and certification if they intend to sell, import, or use notified telecom equipment in India. They have to obtain a Certificate from Telecommunication Engineering Centre (TEC) and mark or affix the equipment with an appropriate certification label. TÜV Rheinland is one of the few independent technical service providers to fulfill majority of the technical requirements for testing and provide certification as per TEC.

### Introduction to MTCTE:

The Indian Telegraph (Amendment) Rules, 2017 directs telecom equipment to undergo mandatory testing and certification prior to sale or import for use in India. MTCTE is designed to cover 46 types of telecom products along with other variants under each of these product types, addressed by 9 divisions under TEC.

Testing is carried out to check conformance with essential requirements of the equipment, by labs designated by TEC. Certificates are issued by TEC based on the test reports. The application for certification under MTCTE is to be submitted online on the MTCTE portal through which further procedures are carried out.

### MTCTE is applicable for:

- All Original Equipment Manufacturers (OEM), Importers or Dealer who sell or import any telecom equipment in India
- OEMs/ Importers/ Applicants are required to obtain a certificate from the Telecommunication Engineering Centre (TEC) and mark or affix the equipment with an appropriate certification label

### MTCTE compliance requirement:

- The applicant shall be required to submit test wise compliance along with test reports, with respect to parameters included in Essential Requirements (ERs), from any designated CAB or recognized CAB of MRA partner country
- The test results shall be evaluated for compliance against applicable Essential Requirements (ERs)

The technical regulations prescribed under this framework are in the form of Essential Requirements (ERs) that include:

- EMI/ EMC: As prescribed by TEC
- Wireless/ IoT: As prescribed by TEC
- Safety: As prescribed by TEC
- Interface requirements: As prescribed by TEC
- Other requirements: As notified by DoT
- Security requirements: As per the notification issued by DoT ( Department Of Telecommunications)

### TEC Objectives:

- No telecom equipment should degrade the performance of an existing network to which it is connected
- Safety of end-users
- Protection of users and the general public by ensuring that radio frequency emissions from equipment do not exceed prescribed standards
- Compliance of telecom equipment with relevant National and International regulatory standards and requirements

### Our Accreditations:

- NABL (National Accreditation Board for Testing and Calibration Laboratories)
- ISO/IEC 17025 Accredited Laboratories
- BIS (Bureau of Indian Standards)
- Designated CAB by TEC
- A2LA (American Association for Laboratory Accreditation) for FCC/ISED Canada
- IECEE CB scheme - CBTL (Certification Body Test Laboratory)

[www.tuv.com](http://www.tuv.com)

 **TÜVRheinland**<sup>®</sup>  
Precisely Right.



## Products Listed Under MTCTE:

Division	Products
Future Network	2-Wire Telephone Equipment* Conferencing Equipment G3 FAX Machine* Modem* POS Terminal Cordless Phone
Fixed Access	GPON Equipment* DSL Equipment
IoT/ M2M	IoT Gateway* Tracking Device Smart Electricity Meter* Smartwatch* Smart Security Camera* Feedback Device* End Point Device for Environmental Monitoring* Switch, Router, Server
Information Technology	Synchronization Equipment Network Security Systems
Mobile Technology	BSC/ RNC Compact Cellular Network* Mobile Devices* Repeater and BTS*
Radio	Microwave Links in Fixed Radio Systems VHF/ UHF Radio Systems Mobile Radio Trunking System Equipment Equipment operating in 2.4 GHz and 5 GHz frequency bands* Satellite System
Switching	IP Terminal, Media Gateway, Signaling Gateway, SBC, Soft Switch, ISDN CPE*, PABX*, Application Server, Media Server

Division	Products
Transmission	Multiplexing Equipment* SDH Equipment* DWDM Equipment DXC

Note: (\*) asterisk marked ERs represent Telecom Products which are covered under Phase-I, Phase-II, Phase III and Phase IV roll out.

## TUV Rheinland's TEC Designated CABs:

Laboratory	Address
Wireless IoT EMI/ EMC Electrical Safety Reliability	27/B, 2nd Cross Road, Electronic City Phase I, Bangalore, Karnataka 560100, India
EMI/ EMC Wireless / IoT	108, Electronics City Phase 1, Bengaluru, Karnataka 560100, India
Electrical Safety & Reliability	Plot no. 417, Udyog Vihar, Phase IV Gurgaon, Haryana 122015, India
EMI/ EMC Electrical Safety Reliability	J-462, MCCIA, Telco Road, Near Quality Circle, MIDC Bhosari, Pune 411026, Maharashtra, India

SCAN THE QR CODE TO  
KNOW MORE ABOUT OUR  
SERVICES.

