

Sri Lanka Telecommunications Equipment Room Construction Standards



Article Overview

Telecommunications equipment rooms in Sri Lanka must comply with TRCSL technical standards, SLSI regulations, and best practices for infrastructure, safety, and operational efficiency.

Regulatory Framework

Telecommunications equipment room construction in Sri Lanka is governed primarily by the Telecommunications Regulatory Commission of Sri Lanka (TRCSL), which sets technical standards for fixed and mobile service infrastructure, including high-rise buildings . Compliance with these standards ensures proper connectivity, safety, and service quality. Additionally, the Sri Lanka Standards Institution (SLSI) provides national standards for construction materials, electrical systems, and structural integrity, which must be adhered to during equipment room construction .

Design and Infrastructure Requirements

- **Space and Layout:** Equipment rooms should provide sufficient space for telecom racks, servers, and fiber distribution panels. Layouts must allow for easy access, maintenance, and future expansion .
- **Power Supply:** Redundant power systems, including UPS and backup generators, are required to ensure uninterrupted operation. Electrical installations must comply with SLSI and TRCSL safety standards .
- **Cooling and Ventilation:** Proper HVAC systems are essential to maintain optimal temperature and humidity levels for sensitive telecom equipment

Article Content

Aug 08, 2025

Technical Standards Guide for Provision of Communication Services

The common telecom equipment room should maintain a temperature between 18-27°C (64-80°F) with a humidity level between

Apr 04, 2026

Telecommunications Design Standards

UCF Computer Services & Telecommunications (UCF CS& T) Design Guidelines: These Guidelines are for assisting the Architect /

Jul 28, 2026

Department of Buildings

Welcome to Department of Buildings Buildings Department has existed for more than 5 decades as a pioneer

Oct 06, 2025

Microsoft Word

National Policy on Antenna Structures Preamble With the rapid rollout of the telecommunication networks in the recent past the

Mar 26, 2026

Telecommunications Room Requirements

The document outlines requirements for telecommunications spaces including their location, size, doors, floors, walls, ceiling,

Jul 30, 2025

TELECOMMUNICATIONS

Sri Lanka Telecom. His distinctive services to the development of the telecommunication industry in Sri Lanka as the Assistant

Mar 16, 2026

Telecommunications Design Guidelines and Performance Standards

All telecommunications shall comply with all Connecticut building codes and follow the Telecommunication's Industry standards and

Feb 28, 2026

PI & Development Regulations_Final.

(b) Where underground constructions are involved in the development, 100% of the area shall be provided with Mechanical

Jun 01, 2026

PART I: GENERAL REGULATION

45. Every room in a building shall be provided with natural light and ventilation by means of windows, doors or any other approved

Apr 30, 2026

Infrastructure Standard for Telecommunications Spaces

-Removed operational information not required for building planning and design for publishing of the Standard on the TIL. Information

Apr 08, 2026

Telecom Infrastructure Guidelines V.5 | PDF | Electrical ...

Specific guidelines are provided for the main telecom room, temperature and humidity controls, and clustered building configurations.

Nov 18, 2025

Guidelines on Antenna Structures

Telecommunications Regulatory Commission of Sri Lanka (TRCSL) shall coordinate and regulate the erection of antenna structures

Mar 02, 2026

Engineer: Journal of the Institution of Engineers, Sri Lanka

This study focuses on the issues of policy and procedures related to Cellular Towers and Antenna structures and their

Sep 03, 2025

Tower Policy

RELATED LINKS Ministry of Defence Ministry of Digital Economy Presidential Secretariat of Sri Lanka Lanka

Feb 09, 2026

Telecommunications Room Design Guidelines

A TE is a case or housing for telecommunications equipment, cable terminations, and cross connect cabling. At least one TR or ER

Oct 06, 2025

Building Code

Registration of Construction Skilled Workforce. Registration of Construction Machinery & Equipment. Monitoring . Construction

Mar 01, 2026

Annex B Telecom Service Requirements for Buildings (CST-GUIDE

What is stated in the Saudi General Building Code shall be applied mandatorily, and in the event of a discrepancy/conflict between

Oct 12, 2025

Telecommunications Infrastructure Specifications

Room Use - The Construction Professionals will design and construct the Telecommunications Rooms to house only

Dec 17, 2025

Telecommunications Design Guidelines And Performance Standards

Identify and label each Equipment Room and Telecommunication Room with a unique identifier derived from the University's Design

Feb 12, 2026

TELECOMMUNICATION DESIGN GUIDELINES

Depending upon the termination and Patch panel requirement, and to accommodate other active and passive equipments, a Cabinet

May 07, 2026

Type Approval

Radio and Telecommunications Terminal Equipment (RTTE) which is to be used in Sri Lanka should comply with a set

Jun 20, 2026

Technical Standards Guide for Provision of Communication Services

RELATED LINKS Ministry of Defence Ministry of Digital Economy Presidential Secretariat of Sri Lanka Lanka

May 09, 2026

Telecommunication Room (TR) Requirements & Standards v3.2

A typical telecommunication room (TR) will have one 4-post rack for electronic equipment, one 2-post rack for the cabling, and a

Jan 04, 2026

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Purpose the purpose of the radio and telecommunications terminal equipment (rtte) type Approval rules is to ensure a rtte which is to

Jan 31, 2026

PI & Development Regulations_Final.

(2) The height of Ground Floor rooms in a shop shall be not less than 3.0m and the height of upper floor rooms shall be not less than

Jul 01, 2026

Technical Standards Guide for Provision of Communication Services

High Rise Building Developers should reserve a separate and exclusive space for a Common Operator Equipment Room (COER) for

Sep 03, 2025

Section 271100

A. The telecommunication spaces include the Entrance Telecommunication Room (ETR) and the Telecommunication Room (TR).

Sep 13, 2025

SECTION 27 11 00 -

A. This Section defines the general design requirements for a uniform Communications Room Infrastructure that shall be followed for

Feb 16, 2026

Sri Lanka Standards Catalogue

Describes the underlying principles and the processes of the preparation of Sri Lanka Standards and other normative documents by

Sep 20, 2025

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MasterLibrary March 28, 2024 2 Checklists: TR Design

Feb 12, 2026

Telecommunications Regulatory Commission

RELATED LINKS Ministry of Defence Ministry of Digital Economy Presidential
Secretariat of Sri Lanka Lanka

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://khanimamboguesthouse.co.za>

Email: sales@khanimamboguesthouse.co.za

Phone: +27 64 852 1973

Address: Unit 7, Greenway Business Park, 8 Innovation Drive, Centurion, 0157,
South Africa

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