Introduction

Data Center is a centralized dedicated place that provides the information-processing infrastructure specifically the IT and Telecommunications equipment such as servers, storage equipment and the core network infrastructure.

Considering the above critical functions of this equipment as it requires operating 24x7 with operational requirements such as cooling, ambient temperature; exceptional attention needs to be taken to ensure that the optimum environment exists for it operations.

Several factors need to be considered in setting up the Data Centre. This guideline provides the factors that need to be considered in setting up and managing a data center.

Scope

These guidelines provide best practices and implementation methods that complement TIA, CENELEC, ISO/IEC and other published data center standards and documents. It is primarily a design standard, with installation requirements and guidelines related to implementing a design. The standard includes other installation Requirements and guidelines for data centers where appropriate.

References

Below standards and best practices have been referred to prepare this datacenter directive document

- ANSI-TIA 942 – Telecommunications Infrastructure standards for Datacenters
- BICSI - Data Center Design and Implementation Best Practices
- ASHRAE Thermal Guidelines or GR-3028-CORE

Acronym

EMI - Electromagnetic Interference
ITE - Information Technology Equipment
CRAC - computer room air conditioners
HVAC - Heating, ventilation, and air conditioning
SPD - Surge Protection Device
NFPA - Standard for Fire Protection of Information Technology Equipment
IBC - International Building Code

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