



Chapter- 02

Introduction to rules, manuals and specifications

TOPICS TO BE COVERED

Chapter- 02

Introduction to rules, manuals and specifications

- A. Introduction
- B. General and Subsidiary Rules (G&SR)**
- C. Signal Engineering Manual (IRSEM)**
- D. Telecom Manual**
- E. A.C. Traction Manual
- F. Permanent Way Manual
- G. Schedule of Dimensions (SOD)**
- H. Block Manual
- I. Accident Manual
- J. Specifications**
- K. Indian Railway Standard Specifications (IRSEM Ch 8.3.1)
- L. Other Specifications (IRSEM Ch.8.3.1 (b))

A

Introduction

Introduction

Introduction to the signal and telecommunications department:

- **General Rules:** These are the basic guidelines that govern the operations and responsibilities of the all the departments related to train working and common for Indian Railways
- **Subsidiary Rules:** These are additional rules that provide more specific instructions and procedures for Zonal railways for the department related to train working.
- **Manuals:** There are various manuals related to the Signal and Telecommunications department. These manuals provide detailed instructions, procedures, and standards for the department's operations.
- **Schedule of Dimensions:** This is a document that specifies the critical dimensions for railway infrastructure to ensure safe and interoperable railway operations.
- **Specifications:** These are detailed descriptions of the design and materials used in railway infrastructure. They ensure that all elements of the railway infrastructure meet the necessary safety and performance standards.

B

General and Subsidiary Rules(G&SR)



General and Subsidiary Rules(G&SR)

- Framing General Rules for Open Lines of the Railways 1976
- Administering General Rules for Indian Railways (Open Lines) 1976
- Issuing Subsidiary Rules and Special Instructions of the Zonal Railways
- Amending General Rules by the Government of India
- Amending Subsidiary Rules and Special Instructions by the Authorized Officer
- Printing General Rules in bold letters
- Printing Subsidiary Rules in smaller letters below General Rules
- Reading Subsidiary Rules and Special Instructions in conjunction with General Rules
- Ensuring Railway Servants are bound by General Rules, Subsidiary Rules, and Special Instructions

C

Signal Engineering Manual (IRSEM)



Signal Engineering Manual (IRSEM)

- Signal Engineering Manual deals with items of general nature
- Signal Engineering Manual deals with organization of Signal and Telecommunication department
- Signal Engineering Manual deals with duties and responsibilities of Officers and staff at various levels
- Signal Engineering Manual deals with general requirements for installation of signaling equipments
- Annexure –A & B deals with specific instructions regarding installation and maintenance schedules of various signaling systems, sub-systems, and equipments
- This manual is issued by Railway Board

D

Telecom Manual



Telecom Manual

- Providing detailed guidelines for setting up and maintaining telecommunication systems
- Giving an overview of the Organization of the Signal and Telecommunication Department at Headquarters
- Giving an overview of the Organization of the Signal and Telecommunication Department at Division level
- Issuing the manual by Railway Board

E

A.C. Traction Manual



A.C. Traction Manual

- Installation of 25 kV/AC 50 Hz single phase traction installations
- Maintenance of 25 kV/AC 50 Hz single phase traction installations
- Operation of 25 kV/AC 50 Hz single phase traction installations
- Installation of electric locomotives
- Maintenance of electric locomotives
- Operation of electric locomotives
- Installation of electrical multiple units
- Maintenance of electrical multiple units
- Operation of electrical multiple units
- Other connected matters including railway electrification
- Providing essential technical data for operating and maintenance personnel

F

Permanent Way Manual



Permanent Way Manual

- Contain uniform procedures and practices for Indian Railways Engineering department
- Include duties of permanent way officials/men
- Maintenance of permanent way
- Working of motor trollies, lorries, track machines, and material trains
- Include essential technical data for operating and maintenance personnel
- Issued by Railway Board

G

Schedule of Dimensions (SOD)

Schedule of Dimensions (SOD)

- Safeguard the interests of rail users
- Safeguard the interests of railways
- Follow the Schedule of Dimensions
- Maintain parameters for existing works
- Follow parameters for new works
- Refer to IRISSET notes S8 for more details
- Issue the manual by Railway Board



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End of Session



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End of Session