

# CHAPTER I

## ORGANISATION OF THE SIGNAL AND TELECOMMUNICATION DEPARTMENT

### SECTION 'A'- GENERAL

#### 1.1 TELECOM ORGANISATION IN THE HEADQUARTER

(a) **The Principal Chief Signal & Telecommunication Engineer-** The Principal Chief Signal & Telecommunication Engineer is the administrative and professional head of the Signal & Telecommunication Department and is responsible to the General Manager for its *professional, efficient and economical working.*

b) **The Chief Communication Engineer** - The Chief Communication Engineer is responsible for systematic and professional working of the telecommunication system. He assists the Principal Chief Signal & Telecommunication Engineer in the administrative and professional work for all telecommunication matters.

c) **The Deputy Chief Signal & Telecommunication Engineer (Tele)** - The Deputy Chief Signal & Telecommunication Engineer (Tele) assists the Principal Chief Signal & Telecommunication Engineer and Chief Communication Engineer in the administrative and professional work as per assigned job/work/power (authority) distribution.

d) **Senior Scale Officer (Tele)** - Senior Scale Officers designated as **Senior Signal & Telecommunication Engineer (Tele)** are employed in the Headquarters Office of the Zonal Railway assists the Principal Chief Signal & Telecommunication Engineer and Chief Communication Engineer or the Deputy Chief Signal & Telecommunication Engineer (Tele) as per assigned job/work/power (authority) distribution.

e) **Assistant Signal & Telecommunication Engineer (Tele)** - They assist higher level officers as per assigned job/work/power (authority) distribution.

f) The Telecom organization is professionally managed with the assistance of SSE/JE/Telecom(s) and Ministerial staff employed at the Zonal HeadQuarter for the purpose.

**Note: For the signal organization of S&T, please refer to Signal Engineering Manual, Part I.**

#### 1.2 ORGANISATION ON A DIVISION

(a) Sr. DSTE is incharge of all the signal and telecommunication systems in the division. He works under the administrative control of the Divisional Railway Manager and Technical control of PCSTE. If there is more than one SG/JAG officer, the senior one among them is normally designated as **Sr. DSTE/Co-Ordination** and is overall incharge of the S&T organisation of the Division. He is assisted by other S&T officers in SG/JAG/SS/JS and all officers discharge their duties as per preassigned job/work/power (authority) distribution.

##### 1.2.1 TELECOMMUNICATION:

(a) The telecommunication system on each division shall be divided into sections and each section is maintained by Sr. Section Engineer(Telecom)/Junior Engineer(Telecom).

(b) On a division, each SSE/JE shall be responsible to the Sr. Divisional Signal & Telecom Engineer through DSTE/ADSTE, for efficient maintenance and correct installation of all telecommunication equipment under his charge.

### **1.2.2 DUTIES OF Sr. SECTION ENGINEER/JE (Tele):**

The essential duties of SSE/JE (Tele) are:-

(a) Regular Inspection and efficient maintenance of all telecommunication equipments and systems such as, IP/MPLS networks , Telephone Exchanges including its line plants, Optical Fibre & systems , all telecom Quad cables & systems, wireless communication systems, Various Train/Coach Indicator, Public address System, data communication system, Train Radio Communication, Wi-Fi, Video Surveillance Systems , power supply system and earthing of all telecom equipment etc.

(b) Execution of all works involving alterations to the existing installations, and installations of new equipment, its adjustment and connections.

(c) Carrying out periodical tests/measurements of Telecom systems independently and/or jointly with the officials of the BSNL/RailTel/Other Telecom Service Providers as the case may be.

(d) Efficient maintenance of stores and establishment matters by SSE(Tele)

### **1.2.3 STAFF UNDER SSE(Tele):**

(a) Each SSE shall be assisted by one or more JE, and Technicians for maintenance. The strength of JE and Technicians shall be fixed in accordance with the density of work and other local conditions.

(b) Where railway's underground telecommunication cables including Optical Fibre exist, a cable break-down transport such as a pick up van shall be provided. An emergency gang with full complement of cable jointing materials, tools and testing equipment should be available with the break-down vehicle.