

Summary of Telecom Assets in DHN Divn. as on 28.10.2020

TELECOMMUNICATIONS

Providing basic telecommunications facilities for the Railways vast transport system is the responsibility of the Signal & Telecom Department. The telecommunications facilities provided in the Railways are broadly categorized into three areas of applications.

Telecommunication for train operation :

Control Communication system gives controller information for efficient train control and monitoring. Omnibus circuits exist for control operation connected with central control at DHANBAD.

Optical Fibre Communication:

Optical Fibre communication system is the backbone of telecommunication network. The short –haul STM-1 equipments of 155 mbps capacity is provided at 94 stations and STM-4 equipments of 622 mbps capacity is provided at 51 stations along with fibre network. The fibre network carries VOICE, DATA, & MULTIMEDIA services for various applications.

PASSENGER AMENITIES:

- Public Address System: This setup is used to provide information regarding train movements, arrival departure and late running of trains if any. There are total **121 stations** in Dhanbad Division where public address system is provided.
- Integrated Passenger Information System (IPIS): System that provide train related information using alphanumeric display units suitably interconnected and controlled from central data controller. There are total 14 stations where IPIS is provided.
- **Wi-Fi:** The Wi-Fi facility is provided at **85 stations** in Dhanbad Division.
- **CCTV:** The CCTV facility is provided at **10 stations** i.e. Dhanbad, Gomoh, Parasnath, Koderma, Barkakana, Daltonganj, Garhwa Road, Renukoot, Chopan and Singrauli.
- Provision of YouTube video streaming for the live telecast of accident site using VSAT internet with Wifi router. This feature is used to independently live stream the video of any remote location without help of any third party and with the help of webcam with computer/Laptop.
- 13 nos. Way bridge has been connected with FOIS network (DGD-1, CNPR-1, BRKA-1, CPU-1, RNQ-1, MHDA-1, SGRL-1, KRLR-1, GMO-2, KQR-1, MQX-1, LTHR-1).
- E1 networking with Data logger has been provided at **85 stations** in GC, CIC and CPU section.

TELEPHONE EXCHANGES:

In Dhanbad division there are 14 Electronic Exchanges provided at different location, connected with 2MB link.

DATA COMMUNICATIONS:

Data communication circuits available for computerized passengers reservation system (PRS), Unreserved Ticketing system (UTS), Freight operation and Information system (FOIS) Crew Management system (CMS).