

SIGNAL & TELECOMMUNICATIONS

Signalling & Telecommunication department is responsible for providing modern, efficient and reliable signalling systems as well as telecommunication systems and has played a decisive and vital role in achieving, ECoR the best operating ratio and high operation efficiency.

Signalling system in ECoR has been transformed from rudimentary semaphore signalling to most microprocessor based signaling system with EI at 91 stations, RRI at 09 stations and PI at 133 stations. This along with 35 nos of IBS and 50 RKms of Auto Section has contributed in increasing section capacity.

Efficient Telecom System and network of FOIS, CMS, COIS and Railway/ Control telephones has been provided for efficient operation of trains. Along with effective system of PRS, UTS, CIB, TIB, PA systems, ATVM, POET etc. has been provided at various locations for enhancing the customer satisfaction.



Operating Visual Display Unit



Data Logger



Electric Lifting Barrier

Achievements/ Highlights for the year 2014-15

- a) **11 RKMs. of Auto Signaling** i.e. at **Retang – Khurda Road Treble line (7.5 RKM)** and **Paradeep – Rail Recieval Station (3.5 RKM)** have been commissioned in Khurda Road Division, which resulted in increased section capacity.
- b) **09 State - of - Art Electronic Interlocking Systems** have been commissioned at **Boddavara, Jagdalpur & Kantakapalli** stations of Waltair Division, **Lapanga & Rengali** stations of Sambalpur Division and **Barang, Delang, Birpurushottampur** and **Sakhigopal** stations of Khurda Road Division for achieving better safety and reliability in train operation.
- c) **02 Panel Interlocking** have been commissioned by replacing mechanical Lever Frame at **Dantewara** station in Waltair Division and at **TLSB (Talcher South Balanda)** in Khurda Road Division.
- d) **08 nos. of Intermediate Block Signaling** have been commissioned to improve Section Capacity.
- e) **26 Data Loggers** have been provided at all newly commissioned Signaling installations.
- f) **16 Sliding Booms** have been provided at **Level Crossing Gates** which will facilitate to reduce down time of busy LC Gates in case of failure of LC Gates or any damage to booms by Road Vehicle.
- g) **20 Electric Lifting Barriers** have been provided at **Level Crossing Gates** for smooth and ease of operation.

- h) **34 Integrated Power Supply Systems** have been commissioned to avoid blanking of signals.
- i) **Safety works such as:**
 - i) 10 LC Gates have been interlocked towards road safety works.
 - ii) 11 Block Proving Axle Counters have been commissioned for Last Vehicle Checking.
 - iii) 11 Track Circuit Locations have been commissioned as measure of Safety enhancement.
- j) **Passenger Amenity Works such as**
 - i) 04 CCTV Surveillance System under Integrated Security Systems have been installed at Bhubaneswar, Cuttack , Puri & Visakhapatnam stations.
 - ii) All India Security Help line "1322" have been commissioned in all 03 Divisions over East Coast Railway.
 - iii) '138' Passenger Help Line No. has been commissioned at Commercial Control of three divisions
 - iv) 16 Unreserved Ticketing Systems have been commissioned for quick availability of tickets for short distance travels.
 - v) 11 Passenger Reservation Systems have been installed.
 - vi) Coach Indication Boards have been provided at 02 stations.
 - vii) Train Indication Board has been provided at 03 stations.
 - viii) 10 Public Announcement Systems have been commissioned at Stations.
 - ix) Computerized Auto Announcement Systems have been commissioned at 3 Stations.
 - x) 08 on Line Booking Facility for Railway Dormitory & Retiring Room have been commissioned.
