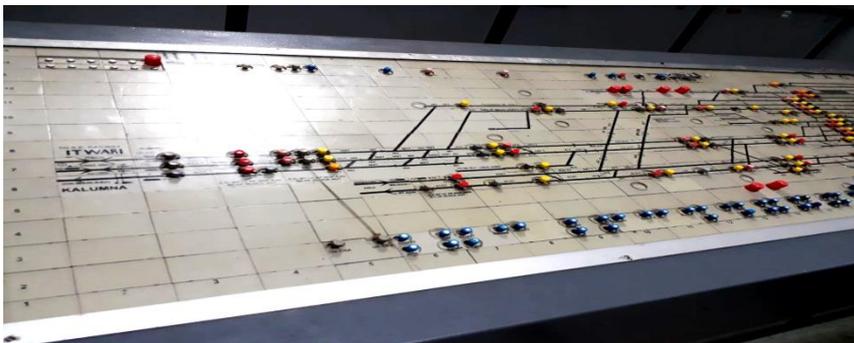


1. Infrastructural improvements:-

1. Overhauled outdated indoor and outdoor signaling gears of Vivekanand Nagar station have been replaced with route setting type panel interlocking on 30.12.2017. This includes yard remodeling work for provision of one additional UP/DN loop line, increasing CSR of lines and more flexibility for receiving and dispatching trains from/to CTPS siding.



2. Replacement of SM's slide and overhauled indoor signaling gears along with provision of push button control panel commissioned at Tinkheda station on 15.06.2017.
3. Doubling of Nagpur–Kalamna Line along with provision of shunting neck at Platform no. 8 was commissioned successfully on 13.10.2017 with major circuit alterations in existing Nagpur RRI without any repercussion of train movement.



4. Phase I work of CONCOR siding at Khapri station commissioned on 29.08.2017.
5. Phase I work of Essar oil siding at **Dahegaon station** commissioned on 30.03.18.

2. Reliability and safety improvement related achievements:-

- ❖ Sliding boom have been provided at interlocked level crossing gates for passing train on proper signal incase of damage of lifting barrier boom or failure of lifting barrier due to certain reasons. 17 Nos of Sliding boom has been provided so far in the current financial year. Thus, sliding boom have been installed at all feasible 90 interlocked level crossing gates provided with electrical lifting barrier.



- ❖ Replacement of Token Block instrument with provision of Universal Fail Safe Block Interface (UFSBI) Instrument along with Block proving Axle counter (BPAC) has been commissioned at Kayar-Linghti and Linghti-Pimpalkutti section.



- ❖ 17 Nos of Starter signals have been shifted for enhancing CSL. Thus, Starter signal shifting work has been completed for all feasible 121 starter signals.
- ❖ 02 nos of mechanically operated Lifting Barrier (MLB) have been replaced with electrically operated Lifting Barriers (ELB).
- ❖ 04 nos. of IPS of 2000 version have been replaced with IPS of latest specification at Bharatwada, Majri khadan , Hinghanghat & Kayar stations.
- ❖ IPS have been commissioned at Dahegaon, Malkhed, LC-11 and LC- 43 for increasing reliability and availability of power supply for smooth functioning of signaling system.
- ❖ Provision of 1488 Nos. of Isolation transformers for LED signal aspect to reduce the effect of surge during lightening.
- ❖ To increase reliability and safety of track circuits, 239 Shelf type relays has been replaced with plug in type relays at various locations of Nagpur Division.
- ❖ 2640 Nos of Overaged batteries of IPS have been replaced at 25 stations, 5 IBHs and 4 LC gates for improving reliability of signaling power supply system
- ❖ 394 Nos of overaged track circuit battery has been replaced for increasing reliability of track circuits.

- ❖ Crank handle alteration work pending at balance 30 stations have been completed as a system improvement work.
- ❖ 2580 Nos of Overaged batteries of IPS have been replaced at 25 stations, 5 IBHs and 4 LC gates for improving reliability of signaling power supply system.
- ❖ 74 nos. of overaged point machine and 40 Nos of ground connections has been replaced.
- ❖ Block clearance circuit alteration work carried out at 11 station.
- ❖ 40 nos. of block instruments replaced which was due for overhauling.
- ❖ Provision of 71 Nos. shunt LED.
- ❖ 75 nos. Overage point machines replaced at various station.

3. System Improvement:-

- ❖ Color coding of E type locks and keys provided on sliding boom post have been painted for proper insertion of keys in the E type lock and its rotation in the correct direction. This has helped gatemen immensely for smooth operation of sliding boom in case of damage/ failure of main electrical lifting booms.



➤ Scrap disposal:-

Ferrous scrap disposal of 526.673 MT have been done in the year 2017-18 till now which is 5 times more than the year 2016-17 and also highest in last three financial years. Further non ferrous scrap of 58.147 MT and battery scrap of 75.99 MT have been disposed off in the current year so far.