

I. ACTIVITY

- In Diesel loco shed Bondamunda all type of minor and major sch. of HHP locos such as WDG4 & WDG4D and ALCO locos such as WDG-3A WDM-3A, WDM-3D & WDS-6 is being carried out.
- Major schedule up to M-72 for ALCO locomotive and Y-6 for HHP locomotives.
- Diesel Loco shed, Bondamunda is having a Effluent Treatment Plant which is in operation to release drain waste mixed with oil and water after treatment in form of pure water.
- CNC Pit wheel lathe for turning of wheels of diesel locomotives. In addition to this coaches and wagons wheels gets turned from DLS/BNDM.

II. ACHIVEMENTS:

- a) Majority of the HHP locomotives are equipped with REMMLOT.
- b) All locomotives air drier is in functional state.
- c) In addition to main line locomotives all WDS6 locomotives are provided with VCD.
- d) **Tree Plantation:** Around more than 1000 various type of leaf tree plantation done in shed premises to promote greeneries and environment.

III. INNOVATIONS :

a) Brake valve test stand (for CCB – 1.5) :

Population of HHP locos at DLS/BNDM is 91. Out of which 25 locos are fitted with CCB – 1.5 brake system. During 6th Yly schedule attention all pneumatic valves of CCB system are required to be overhauled and after overhauling, testing of individual valves is required before fitment in locomotive to ensure the reliability.

Due to non – availability of test stand (CCB – 1.5), it is not possible to test the individual valves after overhauling.

To overcome such problem, a test bench for CCB – 1.5 had been developed with available resources.



b) Engine protective device test stand developed by DLS/BNDM. This test stand is developed indigenously by the team of DLS/BNDM. The objective of this test stand is to test the function of EPD simulating to conditions as the locomotive is in running. This test stand is operated by

- i) Lube oil pressure
- ii) Water pressure
- iii) Booster air pressure
- iv) Vacuum pressure

c) Multi Test Unit for Wood Ward Governor solenoid coils in HHP loco (WDG4): This test stand is developed indigenously by the team of DLS/BNDM. The objective of this test unit is as follows.

- i) To measure resistance of individual solenoid coils by easy operation through rotary selector switch.
- ii) To check individual solenoid coil operation through rotary selector switch.
- iii) Low resistance or short circuit Fault detection of individual solenoid coils with audio visual indication.
- iv) Compact and portable test unit and can be used in locomotive itself with operating voltage 72V DC.
- v) All 05 no of solenoids can be tested individually at one go with accuracy and even without aid of circuit diagrams and can save both manpower and time

d) Diesel blower burner stand :

Presently melting of Blue Coat - 3 at DLS/BNDM by using local arrangement like unserviceable filter, wood and waste oil etc. due to which heavy black smoke and ash are generated which contributes in creating air pollution. It is also more time taking and may cause severe fire hazard.

DLS/BNDM has developed a Diesel blower burner stand consisting an Electrical blower which is operated in 230 volt and a diesel burner for melting of Blue Coat - 3.

Advantage of Diesel blower burner stand are :

- a) It melts quickly Blue Coat - 3.
- b) Pollution free.
- c) It can be safely and easily operated by staff.
- d) Burner run with waste diesel oil.