

# INDUSTRIAL VISIT

**Senior section engineering office**



# INDUSTRIAL VISIT REPORT

**DATE:10/12/2022**

**COMPANY: Senior section engineering office , lalaguda**

## **INTRODUCTION:**

### **DIESEL LOCOMOTIVE**

A diesel locomotive is a type of railway locomotive in which the prime mover is a diesel engine. Several types of diesel locomotive have been developed ,differing mainly in the means by which mechanical power is conveyed to the driving wheels.



### ➤ Battery boxes:

Battery box is made of stainless with Rollon telescopic rails. This will facilitate easy top-up of batteries. It will also facilitate easy top-up of batteries and other routine inspection .This improved deign battery boxes are introduced on locomotive ,EMUs, MEMUs, DEMUs.



### ➤ Air Compressor:

A locomotive air compressor is required to provide a constant supply of compressed air for the air braking system and air control devices .It is one important component of locomotive braking system.

### ➤ Diesel Engine:.



The diesel engine has the highest thermal efficiency of any practical internal (or) external combustion engine due to its very high expansion ratio and inherent lean burn which enables heat dissipation by the excess air. A small efficiency loss is also avoided compared with non-direct injection gasoline engines and since unburned fuel is not present during valve overlap and therefore no fuel goes directly from the intake/injection to exhaust.

## **Conclusion:**

With a visit to the senior section engineering office. We got a new experience of the industry. The industry better understand the diesel locomotive design, the knowledge acquired in college to the work world industry. Observations were carried out over a real and direct development of the task performed by a us who ultimately diligently in preparation for plunge in the community.