

# Green Straight Light is Quantitative Solutions to Control Air Pollution

**Aniket R. Dogra, Akshay R. Dogra, Tanmay Pandey, Sahil Chauhan**

Department of Mechanical Engineering

Sandip Foundation's Sandip Polytechnic, Nashik, India

**Abstract:** *The aim of this project is to develop a bending machine which is useful to bend a grill in workshop or in Fabrication shop. This project is to design and construct a portable bending machine. This machine is used to bend grill or rod into curve and the other curvature shapes. The size of machine is very convenient for portable work. It is fully made by Mild steel. Moreover, it is easy to be carry and use at any time and any place. It reduces human effort and also required low less skill to operate this machine. We are designing manually operated bending machine with the use of bearings, sprockets, chain and support (frame). The bending machine is manually operated. Therefore, our objective is to increase accuracy at low prize without affecting the bending productivity. This machine works on simple kinematic system instead of complicated design. This machine can bend up-to 8 mm thickness of grill or 2 mm of rod. Due to its portability it can be used by small workshop or fabrication shop. Bending machine is a common tool in machine shop that is used to bend a metal. It is widely used in various industrial operations such as bending a pipe in required shape & size. In this project, designing of bending machine is specifically for portable bending machine. There is no proper small- scale bending machine for bending a pipe.*

**Keywords:** bending machine

