IJARSCT
International Journal of Advanced Research in Science, Communication and Technology
International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal
ISSN: 2581-9429
Volume 5, Issue 2, April 2025
Impact Factor: 7.67

Green Straight Light is Quantitative Solutions to Control Air Pollution

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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

I. INTRODUCTION

Due to rapid urbanization, industrialization and motorization, a large number of cities are affected by heavy air pollution. In order to explore progress, remaining challenges, and sustainability of air pollution control in the city a mixed method analysis was undertaken to control air pollutions. The quantitative analysis comprised an overview of air quality management in the such region. However, improvements vary across the region and for different pollutants control. Although implementation has been decisive and was at least in parts effectively enforced, significant challenges remained with regard to industrial and traffic emission control, and national air quality limits continued to be significantly exceeded and competing development interests remained mainly unsolved. There were also concerns about the sustainability of the current air pollution control measures especially for industries due to the top-down enforcement, and the associated large burden of social cost including unemployment and social inequity resulting industrial restructuring. Better mechanisms for ensuring cross-sectoral coordination and for improved central-local government communication were suggested. Further suggestions were provided to improve the conceptual design and effective implementation of respective air pollution control strategies in Green straight light is qualitative solutions to control air pollution. Our study highlights some of the major hurdles that need to be addressed to succeed with a comprehensive air pollution control management for the urban areas.

II. LITERATURE REVIEW

Dr. Akshey Bhargava, done the work on, Design of Cyclone by Stairmand method for the Control of Particulate Matter, according to his work, Air pollution is assuming significant and even alarming dimensions particularly in Urban and Industrial areas and as such need to be controlled at the source of air pollution. Industrial air pollution is generally controlled by installing Electrostatic Precipitators, Bag filters, Multi cones and Cyclones, etc for particulate matters control and wet Scrubbers of different types, adsorption, Oxidation and reduction techniques and so on so forth for the control of gaseous air pollution. Pollution due to Suspended Particulate Matter (SPM) is very common and caused

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particularly on account of Vehicular and Industrial emissions. These Particulate Matters are classified as settleable, suspended and respirable in nature. An effort has been made in the present research paper to explain and design the cyclone and Multi cone to control dust emissions particularly of coarser nature from a typical cement grinding unit by using Stairmand design model. The design of Cyclone/ Multi cone has resulted into quick outputs in respect of variable inputs. It thus has advantages of optimizing various inputs parameters to achieve desired efficiencies and other parameters related thereto. In case of desired power requirements, cyclone can be designed to optimized the outputs through this design, similarly the diameter of cyclone can be optimized to give desired efficiency with the availabilities of other input parameters, thus provides ready to use mechanism through which cyclone can be design in a more compatible manner.

III.METHODOLOGY OF PROPOSED SURVEY

We have proposed a methodology to solve the problems. Our methodology is divided in different parts, under different titles.

Sequence of proposed methodology is as follows –

- Proposed Methodology 1 – Problem Definitions
- Proposed Methodology 2 – Basic Information & literature survey
- Proposed Methodology 3 – Design of Components
- Proposed Methodology 4 –Selection of material & standard parts.
- Proposed Methodology 5 – Manufacturing process & testing.
- Proposed Methodology 6 – Cost Estimation & Report writing.

IV. CONCLUSION AND FUTURE WORK

One of the rewards in doing this project report such that it provides an opportunity for discussing and testing ideas with both colleagues and teachers. We express a deep sense of gratitude toward the members of our staff who helped us to make this project successfully. We welcome this opportunity to express deep gratitude and sincere. Thanks to Project guide Prof. T.C. Jagtap from our department for their inspiration, invaluable suggestions and encouragement in all phases of project. We are thankful to HOD of Mechanical Engineering Prof. J. R. Wadile and also, we would like to thank you our principal Prof. Prof. P. M. Dharmadhikari for his valuable guidance. Last but not least we would like to thank all those directly or indirectly involved in making project successfully. Every work is an outcome of full proof planning, continuous and organized efforts. This work is combination of all to put together sincerely.

ACKNOWLEDGEMENT

We would like to express our sincere gratitude to Prof. P. M. Dharmadhikari, Principal of Sandip Polytechnic, Nashik, for their support, which made this research possible. We are also thankful to Prof. V. S. Patil, H.O.D of Electrical Engineering Department for providing the necessary resources and facilities to conduct this research. Special thank you to Prof. P. S. Kulkarni and staff members, technical staff members of Electrical Engineering Department for their valuable and technical support and insightful discussions, which greatly enhanced the quality of this work, and the green house gases without which this study would not have been feasible. Finally, we would like to thank our colleagues in the Electrical Department for their continuous encouragement and constructive feedback throughout the research process. At last but not least thanks to all my friends and the people who are directly or indirectly related to our paperwork planning References:

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