

# “MANUALLY OPERATED PAPER RECYCLING MACHINE”

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## **ABSTRACT**

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Paper is one of the most important products ever invented by man. Widespread use of a written language would not have been possible without some cheap and practical material to write on. The invention of paper means that more people would be educated because more books would be printed and distributed. Industry would grow because all the plans, blueprints, records and formulae it uses would be written down and saved, together with the printing press, paper provided an extremely important way to communicate knowledge.

The primary source of raw material for production of paper is vegetable fibers, obtained mainly from plants. To ensure that the forest is not depleted of these woods, there is need to provide alternative source of raw materials, this therefore leads to the invention of the process of recycling.

Recycling, which is the extraction and recovery of valuable materials from scrap or other discarded materials, is employed to supplement the production of paper. The designing and fabricating of a used paper recycling plant is therefore a welcome development as it will ensure that the source of raw material for paper production is multiplied and also waste paper that could have constituted into wastes are recycled for various productive purposes.

Designing a manually operated paper recycling plant ensures that a cheap and non-complex method of production of paper product is guaranteed. This is the objective of this paper.

### **1B: NEED**

The Recycling Guide website states that "Recycled paper produces 73% less air pollution than if it was made from raw materials. **12.5 million tons** of paper and cardboard are used annually in

the UK. The average person in the UK gets through 38kg of newspapers per year. It takes 24 trees to make **1 ton** of newspaper."

Meanwhile, Recycle Now says:

- "It takes 7 days for a recycled newspaper to come back as a newspaper again.
- 67% of the paper and cardboard used in the UK is recovered for recycling
- 11 million tons of CO2 equivalent emissions were avoided by recycling paper and board in 2008, the equivalent of taking around 3½ million cars off the road."



## Manually Operated Paper Recycling Machine

### Project Group Members:-



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