



SOLAR POWERED WASTE TRASH COLLECTOR FOR RIVERS AND PONDS



A PROJECT REPORT

Submitted by

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In partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

IN

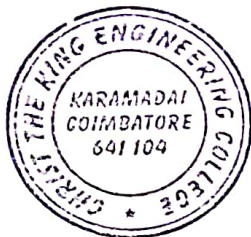
MECHANICAL ENGINEERING

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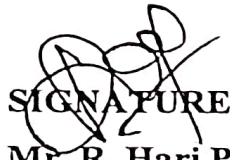
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BONAFIDE CERTIFICATE

Certified that this project report "SOLAR POWERED WASTE TRASH COLLECTOR FOR RIVERS AND PONDS" is the bonafide work of "IYAPPAN G (710419114027), PAUL VINCENT B (710419114045), INDUMATHI K (710419114026), PRAVEEN A (710419114048)" who carried out the project work under my supervision.



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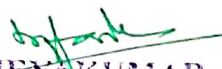
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INTERNAL EXAMINER



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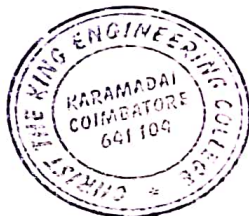



EXTERNAL EXAMINER

ABSTRACT

Rapid economic development, population increase, inadequate city planning, and widespread dishonesty have all contributed to the current global garbage catastrophe. The goal of this write-up is to describe a solar-powered trash collector that can be used to keep waterways clean. The water bodies are cleaned by our mechanical floating system, which is powered by solar energy and runs on batteries. Cleansing the river and removing the solid trash that pollutes the water is an additional objective. This article describes a new method for cleaning rivers that relies on solar energy and a floating waste collection system that is driven by a battery. The primary objective is to lessen the duration and intensity of cleanup efforts required to rid the river of the solid waste that pollutes it on water surface.

KEYWORDS: Population increase, unplanned urbanization, river pollution, solid wastes, solar energy utilization, pollution awareness, cleaning, floating.




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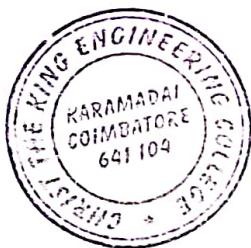
CHAPTER 8

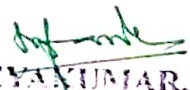
CONCLUSION

The project was designed to be very efficient, straightforward, and helpful for collect wastes from water; it can also be tweaked to boost its cleaning capacity and effectiveness. There were issues with the design criteria's definitions, but those were fixed by consulting sources and being given direction. Because of the raw materials we used, we were able to machine the various parts to exceptionally tight tolerances, which eased the burden of achieving perfect balance. It is a necessary part of modern life.

8.1 Perspective on The Future

- It can be automated with the help of IoT.
- We can use advance conveyor system and conveyor material for increasing the efficiency of collection of garbage.
- This project can be improved to sort more categories of waste by using advanced filtering system.
- The machine's capacity might be increased to clean larger rivers and lakes.
- Deep can be implemented.




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