

Automatic Solar Operated Lake Cleaning Floating Machine

Mr. Gaikwad S. V.¹, Miss. Mandlik Prachi², Miss. Khemnar Ashwini³, Miss. Shete Dhanashree⁴
Professor, Department of Electronics & Telecommunication Engineering¹
Students, Department of Electronics & Telecommunication Engineering^{2,3,4,5}
Amrutvahini Polytechnic, Sangamner, Maharashtra, India

Abstract: This paper presents theory on "river cleaning Mechanism". The system is successfully able to clean the floating solid waste over the river surface more efficiently. This system works towards its social aim of cleaning the rivers & other water bodies. It simulates the conventionally used mechanisms of using conveyors in its working principles but has an intimidating modification of Air Tube Piping Guide mechanism for improving its efficiency. The conventional & generally used method of cleaning or more precisely collecting the floating waste are manual or by means of boat etc. and are deposited near the shore of river. But these methods are risky, costly, time consuming and require major workforce. By considering all the parameters of river surface cleaning systems and eliminating the drawback of all the methods mentioned earlier, the remote operated river cleaning machine has been designed and constructed which helps in river surface cleaning effectively, efficiently and ecofriendly. The main aim of the project is to reduce the manpower, time consumption and thereby increasing the efficiency of the machine for cleaning the river. In this project, we have remotely controlled the operation of river cleaning with the help of motor, coupling & R/C arrangement.

Keywords: Renewable Energy, Generator, Inverter Circuit, Horizontal Axis Wind Turbine, Wind Energy, Solar Panel

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