



A
PROJECT REPORT
ON

“**Design and Development of Automatic Raking and food feeding machine for Poultry farming using solar energy**”

Submitted in partial fulfillment of the requirements for the award of the degree of

**BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**

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CERTIFICATE

to certify that the Project Work entitled "Fabrication of Automatic raking and food feeding machine for Poultry farming using solar energy" is carried out by Mr Abhishek Kumbhar (ISV17ME001), Mr Kallesh H D (ISV17ME004) and Mr Srikanth K S (ISV18ME408), bonafide students of the Department of Mechanical Engineering in partial fulfillment of the requirements for the award of the degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2021 - 22. It is also certified that all recommendations/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in accordance with the Project work prescribed for the said Degree.

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ABSTRACT

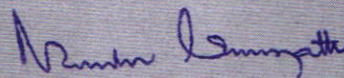
Poultry farming provides human with companionship, food and fiber in the form of eggs, meat and feathers. And it plays a major role in the national GDP growth. Poultry contributes 4.4 % of national GDP out of 27% by livestock sector in 2021.

The problem facing in poultry farming are the labour cost and lack of new technology and modern equipment. To mechanize poultry farming few Equipments has been developed. The raking machine is one among them and it is done by traditional way of raking by using the rake which requires lots of human effort or by using electric raking machine and to improve the poultry raking system and to reduce the human effort and problem associated with the existing electric raking machine, a new equipment is fabricated, which also be used for feeding, and it can be used to remove weed.

The equipment utilizes renewable energy source (solar energy) which is Eco friendly to function the solar panel gives out electric supply to the system. Our contribution on our project is by using Eco friendly reliable available solar energy has a main source of energy.

It can be operated in small poultry farming land with standard spacing decreasing the labour cost, human effort and reducing the time by 75% compared to traditional method.

Key Words: Solar Energy, Poultry, raking



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