

Solar and Wind Operated Electrical Tiller Machine

K.Rajeshwarma¹, D. Suvarna Lakshmi², Y. Hemalatha³, E. Vani Bai⁴, P.Kalpana⁵, N.Pavankumar⁶, S. Mohammad Rafi⁷.

^{1,2,3,4,5,6}Sanskriti School Of Engineering

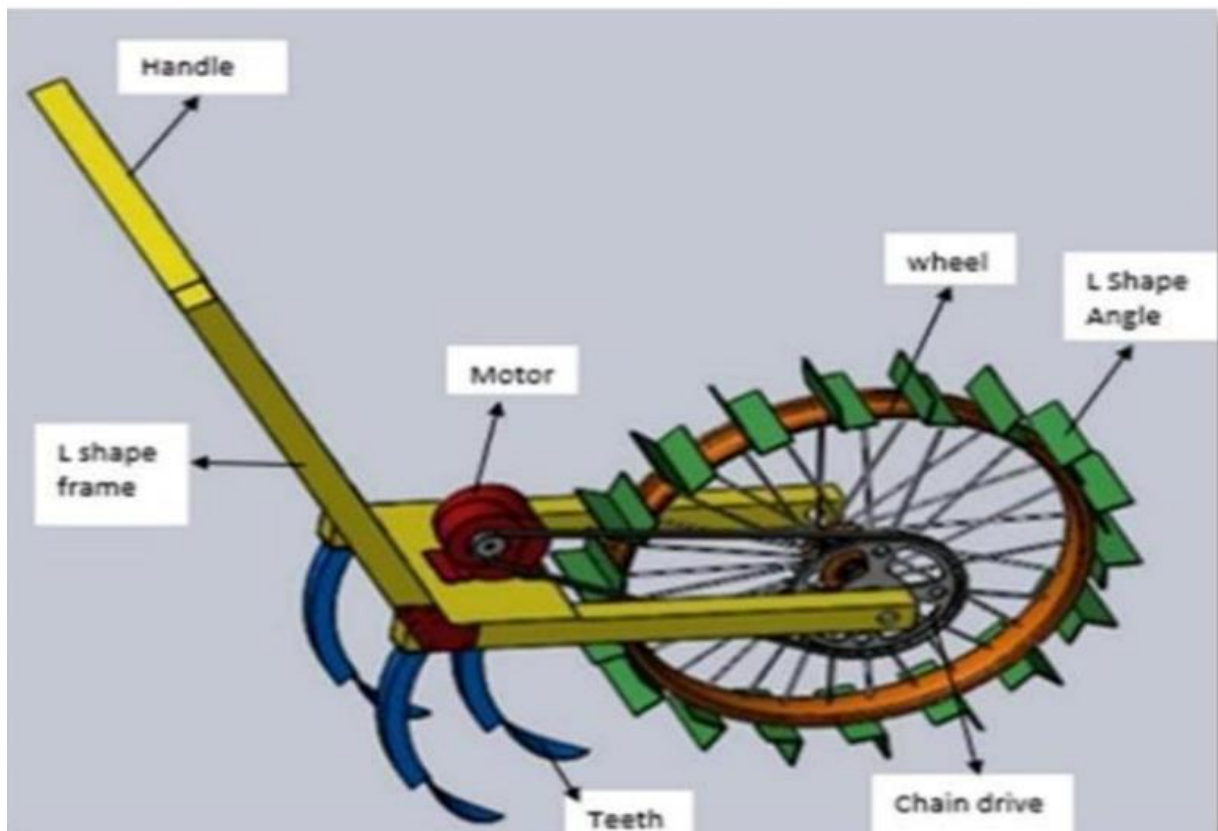
Abstract- The project aims to develop a solar and wind-operated electrical tiller machine, harnessing renewable energy sources for agricultural operations. Integrating solar panels and wind turbines, the machine will autonomously power its electrical components, reducing reliance on fossil fuels. By utilizing clean energy, the tiller machine aims to promote sustainable farming practices while minimizing environmental impact.

agricultural practices amidst environmental concerns and energy constraints. This project seeks to address these challenges by developing a tiller machine powered by renewable energy sources such as solar and wind power. By harnessing these clean energy technologies, the machine aims to reduce greenhouse gas emissions and dependency on non-renewable resources while enhancing the efficiency and productivity of agricultural operations. The introduction sets the stage for exploring the technical and environmental benefits of integrating renewable energy into farming equipment.

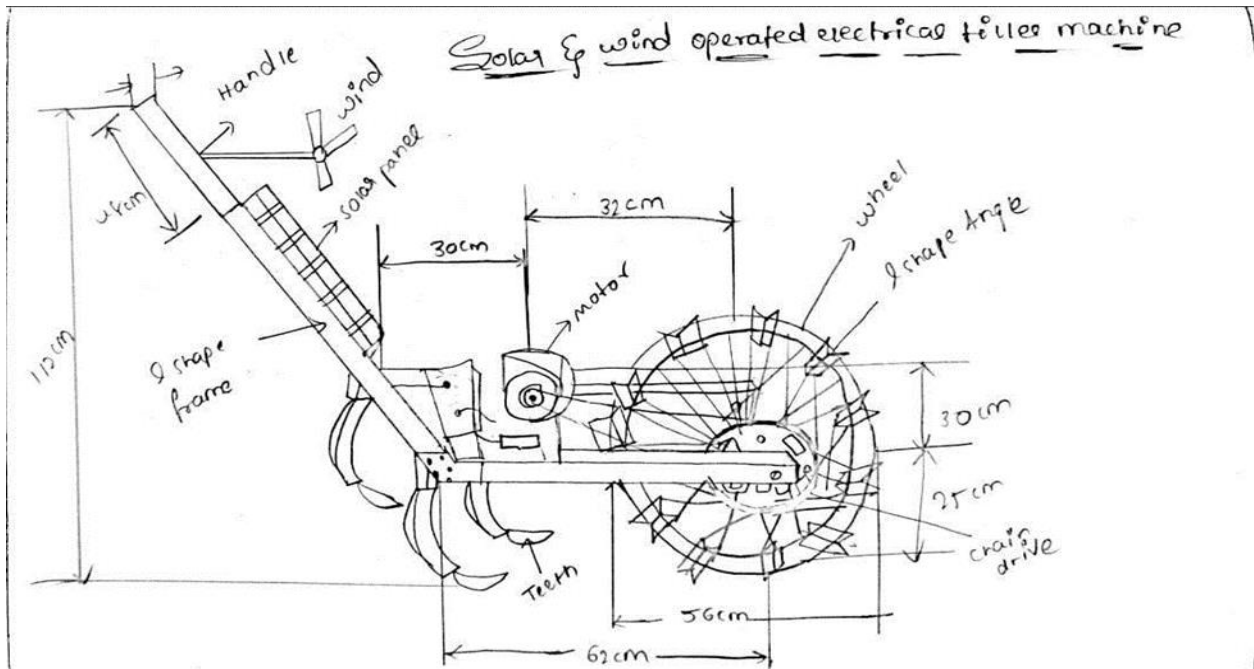
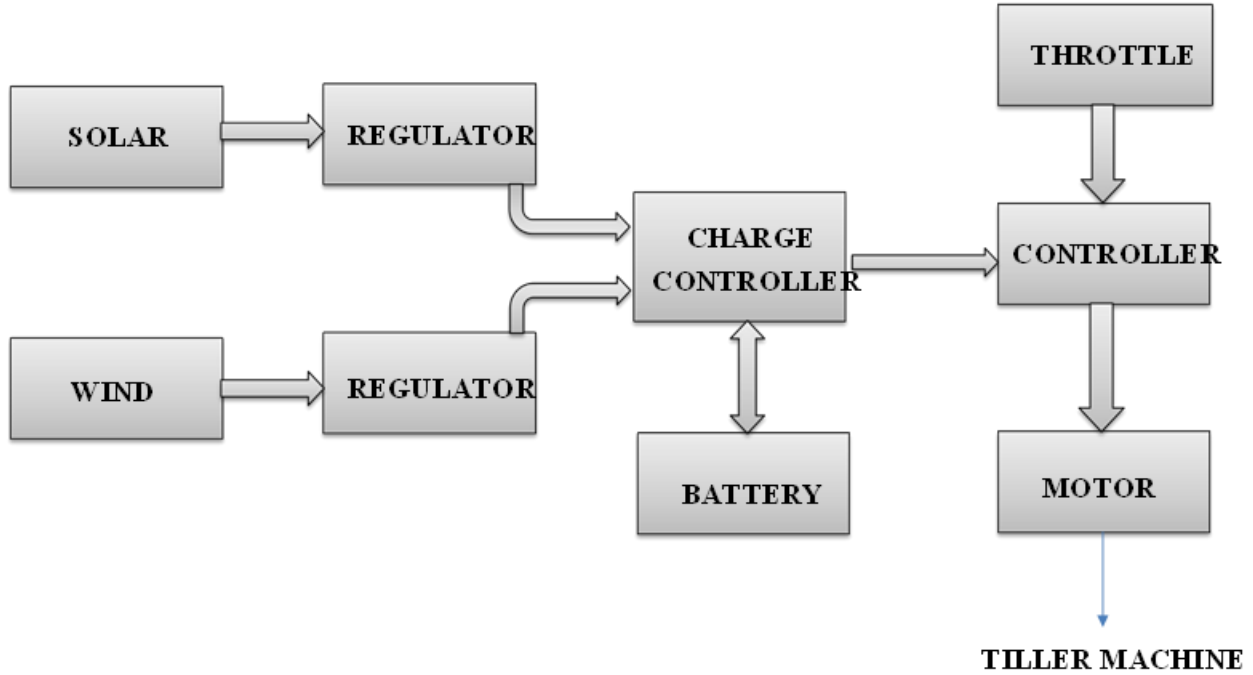
INTRODUCTION

Solar and wind-operated electrical tiller machine project outlines the growing need for sustainable

PORTABLE MODEL



BLOCK DIAGRAM



EXPLANATION

In order to efficiently power the electrical components of the tiller, the algorithm plans the block diagram for the solar and wind operated electrical tiller machines by coordinating the input from solar panels and wind

turbines. In order to ensure smooth integration and maximum use of clean energy for agricultural activities, the flow of energy from renewable sources to batteries, motors, and control systems is mapped out in the discussion.

