VISVESVARAYA TECHNOLOGICAL UNIVERSITY,BELAGAVI– 590 018

A MINI PROJECT REPORT ON

" Mini Windmill Power Generation "

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DEPARTMENT OF MECHANICAL ENGINEERING

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CERTIFICATE

This is to certify that the Mini-Project entitled " **Mini Windmill Power Generation** " has been Successfully Completed

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The bonafide students of **Department Mechanical Engineering, Alva's Institute of Engineering and Technology,** affiliated to VISVESVARAYA **TECHNOLOGICAL UNIVERSITY, BELAGAVI,** during the academic year 2020–2021. It is certified that all corrections/suggestions indicated for Internal Assessment have been in corporated in the report. The report has been approved as it satisfies the academic requirements in respect of Micro-Project work prescribed for Bachelor of Engineering.

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ABSTRACT

Small wind turbines are typically used for the remote or rural areas of the world including: a village in Chile; a cabin dweller in the U.S.; a farmer who wants to water his crop; or a utility company that wants to use distributed generation to help defer building new transmission lines and distribution facilities. Small wind turbines can be used for powering communities, businesses, homes, and miscellaneous equipment to support unattended operation. This paper covers the U.S. Department of Energy/National Renewable Energy Laboratory Small Wind Turbine project, its specifications, its applications, the subcontractors and their small wind turbine concepts. Small wind turbines are used throughout the developed and developing world and are primarily used in rural or remote settings in the domestic and international markets. Small wind turbines can be used to power communities, businesses, schools, clinics, single households, farms and a variety of equipment. Small wind turbines can be developed to meet the specifications suitable for the domestic and international (developed and developing) markets.