"LOW COST WIND MILL FOR AC GENERATION"

A project report submitted in partial fulfillment of the requirements for the award of the degree of Bachelor of Engineering in Electronics & Communication Engineering of Visvesvaraya Technological University, Belgaum

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ABSTRACT

Wind mill power is created from the changeover of wind energy into another functional form of energy using wind mills. For power to be created, the blades of a wind mill must first catch wind and be moved by it. Wind is infinite that it is the cheapest and most useful power source. Since the 12th Century, wind mills have become useful to break up corn and push water to the field. At present wind mills have become a means to generate electrical energy. There are a considerable number of individuals who are now relying on the electricity-generating wind mill since it is safe to the environment and it lessens their electric charges.

Wind mill electricity is raised counting on how much energy the blades of the rotor shafts make. Primary rotor shafts on each types of turbines are incorporated in various ways. The main rotor shaft of the horizontal axis wind turbine directs into the wind while main rotor shaft of the vertical axis wind turbine is exposed perpendicularly. In horizontal wind turbines, the generator is put at the summit of the column while the vertical axis wind turbines generator can be located about the footing where it is more ready to hand. The rotor shaft and the generator won't operate as it should without a tower. As a whole, there are three standard elements of a wind mill: the rotor shaft, the generator and the tower.

Wind turbines are usually positioned in distinct fields but now there are mini-wind turbines that can be located in residential houses. Smaller wind mills can provide adequate amount of electrical energy to energize home appliances like computers, electric fan, electric irons and more.

Wind mills for certain have a number of valuable contributions but it won't get away from critics who stated a few problems on wind mills. People complained about the brattle coming from wind turbines. Fowls were killed by these wind turbines. Also wind speed varies in various areas—some times it is powerful and there are times it is excessively down that the blades of a wind mill won't even propel. Aside from these problems, wind mill power has been an efficient supplier of energy to most people.