

DESIGN OF VERTICAL AXIS WIND TURBINE DRIVEN BELT CONVEYOR SYSTEM

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Abstract – Conveyor system is a part of material handling system, which is used for transportation of material, the main application of conveyor system is for transportation. There are many types of conveyor system are there and we have various needs by them like mining, power generation port systems, grain handling etc. Though these conveyors have numerous advantages they also require huge amount of power to drive belts. As the result of increased fuel prices in global markets and scarce of fuel & electricity tariffs are increasing tremendously. By using vertical axis wind turbine to drive these belts we can save huge amounts of electrical energy / money as well as reduce greenhouse gas emission.

Key Words: conveyor, Shaft, gears, bearings, vertical axis wind turbine

1. INTRODUCTION

The device which converts wind's kinetic energy into electric energy is known as wind turbine [1]. These wind turbines are mostly used for generation of electricity [2]. The generated electricity stored in the form of batteries. There are two types of wind turbine namely vertical axis wind turbine and horizontal axis wind turbine [3]. In vertical axis there are two types namely VAWT savonius and VAWT darrieus. With the help of wind turbine we can draw water from underground levels. With the help of wind turbine we can run conveyor systems. Conveyor system it is a part of material handling. It is used for the transportation of materials from one place another place. Though conveyors require electric energy to run, we can make conveyor run by using wind turbine, this can be done using gear mechanism between conveyor and wind turbine. By this we can say that direct energy transformation takes place i.e. from mechanical energy to mechanical energy.

2. Methodology:

2.1 Fabrication of "vertical axis wind turbine"(VAWT) driven belt conveyor

System: First we have to fabricate the vertical axis wind turbine and next conveyor system.

2.2 Preparation of angles:

- To prepare the wind turbine we take the angles.
- Angles are used to support the wind turbine
- The material used is mild steel
- The angles are fabricated using cutting machine
- The length of angles 4*1000mm
- The length of angles 4*1200mm
- The grinding work is done on particular bases.



Fig -1: Angles

2.3 Preparation of flats:

- The material used in preparation of arm is mild steel
- The arms are in flat shape
- The length of arms are 375mm*12nos., width 17mm, thickness 3mm
- This whole operation is done using cutting machine
- Grinding work is done on particular bases.



Fig -2: Flats

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Design Of Vertical Axis Wind Turbine Driven Belt Conveyor:

Fundamentals/Wind-Driven Water J.A.C Kentfield,1996-12-01 This monograph offers a comprehensive reference work for engineers researchers and students involved in the design testing and improvement of wind driven water pumps By providing a thorough treatment of the factors which affect the success of pump performance combined with the fundamentals of machine design this book distinguishes itself from a simple design manual and therefore allows the reader to determine the most efficient wind pump configuration based on their specific needs and resources The latest international developments in wind driven water pumping technologies including a survey of the advantages and disadvantages of the alternative configurations to the more standard designs are discussed In a field where technical information is limited The Fundamentals of Wind Driven Water Pumpers will serve as a valuable resource for the wind engineering community Water pumping windmills are used in crop irrigation and water supply for livestock in various semi arid regions *Energy Research*

Abstracts ,1983 **Machine Design** ,1982 *Scientific and Technical Aerospace Reports* ,1988 **Indexes to ... Publications** American Society of Mechanical Engineers,1975 *Energy* , **Society Records** American Society of Mechanical Engineers,1973 **Energy: a Continuing Bibliography with Indexes** ,1980 **The Energy Index** ,1984

Interference Problems on Wing-fuselage Combinations in Inviscid, Incompressible Flow Aeronautical Research Council (Great Britain),J. Weber,M. Gaynor Joyce,1974 *Bulk Solids Handling* ,1998 *Predicasts F & S Index Europe Annual* ,1988 **Bibliography of Agriculture** ,1985 **Automotive Handbook** Robert Bosch GmbH,2022-05-02 The latest edition of the leading automotive engineering reference In the newly revised Eleventh Edition of the Bosch Automotive Handbook a team of accomplished automotive experts delivers a comprehensive and authoritative resource for automotive engineers designers technicians and students alike Since 1936 the Bosch Automotive Handbook has been providing readers with of the moment coverage of the latest mechanical and research developments in automotive technology from detailed technical analysis to the newest types of vehicles This newest edition is packed with over 2 000 pages of up to date automotive info making it the go to reference for both engineers and technicians It includes detailed and simple explanations of automotive technologies and offers over 1 000 diagrams illustrations sectional drawings and tables Readers will also find 200 pages of new content including the electrification of the powertrain Additional coverage on new driver assistance systems and the automated detection of vehicles surroundings Updates on the on board power supply for commercial vehicles New discussions of autonomous vehicles as well as additional contributions from experts at automotive manufacturers universities and Bosch GmbH Perfect for design engineers mechanics and technicians and other automotive professionals the latest edition of the Bosch Automotive Handbook will also earn a place on the bookshelves of car enthusiasts seeking a quick and up to date guide to all things automotive **Springer Handbook of Power Systems**

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