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2009-2010

DEPARTMENT OF MECHANICAL ENGINEERING

A Project Report On

“TAMARIND SEED SEPARATOR”

“Approved and sponsored by KSCST, BANGALORE”

PROJECT GUIDES

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ABSTRACT

In India major source of income is agricultural products and agriculture occupation carried out by 70% of Indian community. In this modern era of technology products are required to reach the market/consumer at a faster rate and in less time. Being wholly dependent on agro products, it's high time to use newer techniques and methodology in harvesting of agro products, in order to make process faster, to reduce human labor and good quality of products we have to switch over to newer techniques. Keeping the above factors in mind, it is necessary to develop a simple portable device which can be the answer to the rural unemployment and growing demand for the tamarind and its seed. Here is an attempt made to design and develop the portable tamarind seed separator in which a simple technology is used and any unskilled person (men and women) can operate this device to contribute to the country's economic growth. The concept is taken from the good old traditional practice of home industries. Hence the traditional technology is also given importance in the design of the present device. The device consists of two major parts, one for the rupture of the pulp another for separation of seeds from the pulp. It uses minimum electrical energy to run the motor and some of the process is manual, i.e. for removal of pulp, seed etc.