

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi – 590 018



Project Report on

“DESIGN AND FABRICATION OF TAMARIND PULP SEPARATOR MACHINE”

Submitted to

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ABSTRACT

Tamarind is a very useful kitchen product and available in abundant quantity in rural areas. It also finds its role in medicinal field as well as in daily needs throughout India. All these needs are fulfilled by tamarind pulp which is available after separation of seed and cover of tamarind. As we know, India is country where agriculture is widely spread and is a major source of livelihood for many. But the farmers face many problems due to lack of exposure to technology and modern development and also small farmers can't afford expensive machines due to their financial conditions. The traditional method of preparation of this pulp is a Hand process that becomes tedious and lengthy task to separate out pulp and seeds. It is one of the joint household works in most of the villages. The traditional method consumes lot of time and man force.

As we know that tamarind cultivation is one among the commercial cultivation. There are however some problems faced by tamarind growers. One among them is difficulty in getting man labour needed for separation of pulp and seed. This can be partly solved and hence time and effort are substantially reduced, if mechanization can replace manual labour. In order to achieve this objective it is proposed to design and fabricate tamarind pulp separator machine.

A single phase induction motor is used as prime mover with speed of 1440 rpm. Speed reduction is achieved by intermediate pulley arrangement.