

VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
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KARNATAKA



A PROJECT REPORT ON
“UTILIZATION OF PONGAMIA POD SHELLS AND GLYCERIN
WASTE FOR PRODUCTION OF FUEL BRIQUETTES”

(Approved by KSCST and KSBDB)

Submitted for the fulfillment of the requirements for the project work of
VIII semester

BACHELOR OF ENGINEERING IN

Mechanical Engineering

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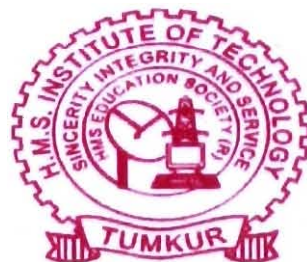
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ABSTRACT

Now a days as there is a large shortage of energy source like wood, coal, natural gases, kerosene, diesel, petrol etc. And day by day the prices of these fuels are going hike, leading to demand of energy source, which in turn lead to the production of biomass fuel briquettes.

Biomass briquettes are ecofriendly renewable energy and can be produced in bulk quantity to fulfil the alternative source of fuel. Biomass briquettes are made off the agriculture waste, forestry waste and industrial waste. Briquettes are easy use, ecofriendly and in India it's a fast growing product. The major residues are castor seed shell, ground nut shell, saw dust, coffee husk, tea waste, mustard stalk and shell, palm husk, sunflower stalk etc.

The bio-waste was efficiently for production of fuels in the present work. Fuels briquettes were produced using pongamia pod shells and waste glycerine. The low density waste is converted into high density biomass fuels. This highest calorific value of 4855 Kcal/Kg was obtained,

They are widely used as biomass fuel for domestic purposes (cooking, heating, barbequing) and industrial purposes (agro-industries, food processing unit, milk processing unit, steam generation boilers) and other heating purposes.