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A Project Report

On

“Design and Fabrication of Rice Husk Gas Stove”

In partial fulfillment for the award of

BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING

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ABSTRACT

Rice Husk is a by-product obtained during separation of rice from paddy. The average calorific value of Rice Husk is around 3000 kcal, hence utilizing this bio waste effectively can help in solving the energy problem. Generally rice husk is burned in open, hence only 2-3% of its energy can be utilized due the losses to the surroundings. But using RH gas stove, around 16-17% of its energy can be utilized. This is approximately seven times more efficient than direct burning. Also the design of rice husk gas stove is simple and it operates in normal atmospheric pressure hence reducing the chances of explosion.

This dissertation report deals with the detailed procedure of designing and fabrication of rice husk gas stove, material used for manufacturing, dimension of each parts and assembly process. It also gives the details of the survey conducted in rural areas for this purpose. The future scope of work is also mentioned in this report.