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SUB

**SOME STUDIES ON THE ENVIRONMENTAL IMPACT
AND WASTE TREATMENT METHODS PRACTISED BY
RICE MILLS IN VAVUNIYA DISTRICT**

A PROJECT REPORT PRESENTED BY
Miss. GNANASUNDARI SUBRAMANIAM
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to the Board of study in Environmental Science of the
POST GRADUATE INSTITUTE OF SCIENCE

*In partial fulfillment of the requirement
for the award of the degree of*

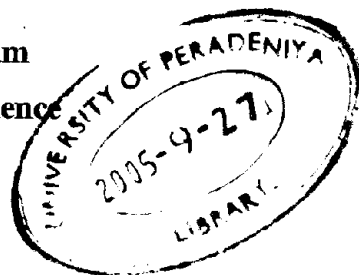
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SOME STUDIES ON THE ENVIRONMENTAL IMPACT AND WASTE TREATMENT METHODS PRACTICED BY RICE MILLS IN VAVUNIYA DISTRICT

Gnanasundari Subramaniam
Post Graduate Institute of Science
University of Peradeniya
Peradeniya
Sri Lanka



The world rice consumer societies prefer parboiled rice. It increases milling performance, cooking quality and nutritional contents.

In parboiling the rice is steam soaked, dried and then milled. Several methods are practiced in this process. In the environmental point of view the water in which the paddy is soaked for a period of 48-72 hours and other byproducts causes severe impact on environment.

In Vavuniya district the popular and major commercial industry is Rice mill. In this project of **Some studies on the Environmental impact and Waste treatment methods Practiced by Rice mills in Vavuniya district**, I initially consider the environmental impacts by this soaked water when it is released to the environment.

The effluent from ten rice mills in Vavuniya district was collected and the pH, BOD, COD, colour, TSS, odour and fertility were measured and discussed and two types of waste treatment plants were analyzed to suggest to follow in Vavuniya district.

The agricultural and health defects by rice mill operation were collected using questionnaire which were among public, and evaluated. Some of the data were obtained from Hospitals.

Further studies are necessary to identify the health defects from the mill activity and utilization methods of wastewater to reuse.