



RICE HUSK ASH



PRESENTATION

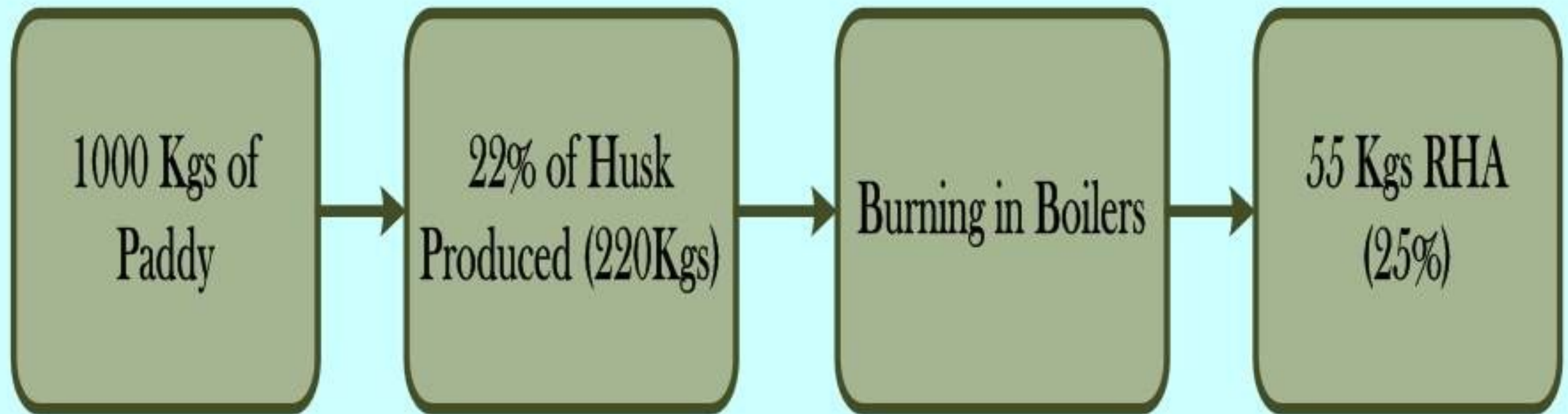


RHA INTRODUCTION

- Rice milling generates a by product known as husk. This surrounds the paddy grain. During milling of paddy about 78% of weight is received as rice, broken rice and bran. Rest 22% of the weight of paddy is received as husk. This husk is used as fuel in the rice mills to generate steam for the parboiling process. This husk contains about 75% organic volatile matter and the balance 25% of the weight of this husk is converted into ash during the firing process, is known as rice husk ash (RHA). This RHA in turn contains around 85%-90% amorphous silica.

Table I: Typical composition of Rice Husk Ash on dry basis.

Element	Mass Fraction, %
Silica (SiO_2)	85 - 90
Alumina	1-2.5
Ferric oxide	0.5
Calcium oxide	1-2
Magnesium oxide	0.5-2.0
Sodium oxide	0.2-0.5
Potash	0.2
Loss on Ignition	10-20



Every 1000 kgs of paddy milled , about 220 kgs (22 %) of husk is produced, and when this husk is burnt in the boilers , about 55 kgs (25 %) of RHA is generated.



RHA PROBLEMS IN INDIA

Water Pollutions









Soil Pollution









Air Pollutions









AWARDS

2009-2010

VILLGRO AWARD



**(Unconvention Winner Award Presented to Mr. G. Gopalakrishnan, President, NEEADS
By Mr. Arindam Datta Director & Head - Rural & Development Banking/Advisory, Rabo India Finance)**

Our Rural innovation of using RHA for Brick Making has been duly recognized by VILLGRO under the Agri based Innovations. This RHA Brick making concept was presented by NEEADS in the unconvention held by Villgro in Chennai. This presentation by NEEADS was very much appreciated by all the participants and NEEADS was awarded First Place for their presentation.

INTERNATIONAL LANGUAGE



NATIONAL LANGUAGE



LOCAL LANGUAGE



INDIA TODAY a leading Magazine in India selected our RHA BRICK MAKING INNOVATION under their MASTERMIND INDIA COMPETITION who are changing the lives of people, published the details of our RHA brick making concept in their issues dated 26th April 2010 under their SPIRIT OF INDIA SPECIAL issues.

Thank YOU



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