CRRI Rice Chaff and Husk Stove

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In India more than 300 million tonnes of biomass is produced. Most of it is either burnt in the open or used as fuel in rural areas or processed as animal feed. In order to take advantage of the large availability of biomass, the CRRI has fabricated a rice chaff and husk stove, which is a domestic unit of small size. The stove uses rice chaff and husk as fuel to provide heat energy for cooking. It is a low cost and easy to operate stove with high thermal efficiency. It burns the chaff or husk and other light-weight biomass without producing smoke or interruptions during burning. It is a boon for families in the rural areas where rice chaff or husk is available in plenty. The stove works on the principle of gasification and induced natural air draft.

The CRRI Stove

The stove consists of an outer container with a conical hopper top made of mild steel sheet, which is attached to the cylindrical bottom portion of perforated sheet. In the centre there is an inner cylinder of perforated sheet with holes of 3 mm diameter. This acts as the combustion chamber. The hopper and combustion chamber are placed on the top of grate made of perforated sheet, which is pivoted at the centre of the inner cylinder. On the top of the hopper a grill is placed to hold the pot for cooking.
Rules and How to Use the Store

How to Store the Frosted Grains

The store will use in the inner cylinder of the store and
store it in the portion port. It is stored at room temperature of 25°C to 35°C.

The golden color of the frame will decrease as the
humidity of the store increases, and the
storage conditions of the store change.

Maintenance

Precautions

Advantages

Sheet volunteer member has been exhausted, therefore add more
Volunteer the moisture of the grain, which reduces the
moisture content of the grain. The drum is heated, and the
moisture content of the grain is reduced.

 worden away from direct heat of the store;

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