

PORTABLE CHARRING KILN

Utility

The portable charring kiln is a simple unit for converting agricultural residues to a charred mass. It consists of a M.S. drum, handle and door. Due to its cylindrical shape, it can be rolled to the site of use easily. Waste agricultural mass such as soybean straw, pigeon pea stalks, cotton stalks and other material can be used. A small quantity of residues is fed into the kiln and ignited.



When it gives a whit smoke and starts to burn properly additional material is added to the kiln. By continuing the process, whole of the kiln gets filled. The cover is then closed and the hot mass is allowed to pyrolyse. After the end of about 6-8 hours, the unit cools down and the charred mass can be emptied. The char obtained is used for making smoke free kitchen fuel by converting them into briquettes.

Specification and working features		
Weight, kg	:	45
Input crop residue, kg/day	:	200
Output Charcoal, kg/day	:	80
Labour requirement, man-hr/q	:	16

Design: ICAR-CIAE, Bhopal

Commercialization Status: Commercialized

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