

Manufacture of white ash from paddy husk

Rice husk is a by-product of the rice milling industry and, in Sri Lanka it is disposed as a waste material and causes environmental pollution. Only a small fraction is used in rice mills to generate heat for the parboiling operation. This study was carried out to develop a prototype of incinerator to produce good quality rice husk ash, which has a high market demand, as a raw material for several industries. The results reveal that the prototype incinerator, which was designed, could produce rice husk ash with less than 6% of residual carbon without any secondary processing. It burns rice husk with a carbon conversion efficiency of more than 95%. The findings of this research will contribute to further development of efficient commercial scale rice husk incinerators.