

## **Design and development of an energy efficient vibrated flour sifter for the rice flour industry**

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This project aims to develop and introduce efficient flour sifter for medium scale flour processors to enhance their production capacity. Sifter was designed by considering draw backs of presently available horizontal flour sifter. The machine was designed by using vibration motor in order to improving the sieving action. For separating coarse particles from fine particles 100 BSS mesh was used. The capacity and Fine flour percentage in course flour after sifting of the developed machine were 140.18 kg per hour and 3.82% respectively. Power consumption of the machine under working condition was 0.61kW. The electricity cost for processing 01 kg of rice