

# Refurbishment of Coir Fiber Extraction Machine with Process Change for Enhanced Productivity

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## Abstract

The devastating floods of the century during the month of August 2018 had inflicted immense damage to the lives of people and property in Kerala. Mala DFWICS Ltd R 614, a SC/ST coir co-operative under the Project Office - Thrissur, Kerala, India engaged in the fiber extraction process were severely affected during the floods. The entire society buildings and machinery were submerged in the flood waters for six days. All the machinery got damaged as a result, rendering the unit non-operational. After careful examination of the present condition of the machinery and electrical systems at the Mala DFWICS Ltd. R 614, it is proposed to refurbish the machine to make the unit operational with an enhanced capacity of 15000 coconut husks per 8 hours. Accordingly, the refurbishment of the fiber extraction unit started from Jan 2020 and completed by June 2020. The functionality of the system has been tested and verified. A test of run of 30000 husk was performed for the verification purposes.

**Index Terms-** Coconut husks, Fiber extraction, Machine, Flood, Nonoperational, Refurbishment. (key words)