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BAGALKOT

2010-2011

DEPARTMENT OF INDUSTRIAL AND PRODUCTION ENGINEERING

A Project Report On

"COMPUTERISED SYSTEM FOR COUNTING AND WEIGHING OF CEMENT BAGS, AT M/S KESHAV CEMENTS"

PROJECT GUIDE

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ABSTRACT

At present cement bags are filled automatically with preset weight at Keshav cements and dropped from the height of one meter. Occasionally the bags get damaged and loose material due to opening of the stitch. The packing unit is preset for the designed weight but due to change in the setting or also due to damage caused to the sacks, there is a chance that some of them are over/under weighing. An operator has to monitor the moving bags continuously to identify defective bags and sort them out of the conveyer for inspection. Some suspicious bags are also taken out and checked for the accuracy on a physical balance. The same operator also has to count the bags that are being delivered. Since it is monotonous work there are always chances that the defective bags slip through his sight and often there are mistakes in counting. Apart from that, the operator has to work under the dusty environment for eight hours per day which is hazardous to his health.

Hence, it is necessary to devise equipment for counting and verifying the weight of the filled bags and separate the defective ones automatically. The present project work is aimed at the design and fabrication of automatic cement bag counting and weighing system, which can be attached to the conveyor without major alterations.

The proposed device is excepted to eliminate the error in counting and weighing apart from avoiding human operator in the hazardous environment. This is expected to enhance productivity of Keshav Cements.