

ABSTRACT

CV. XYZ is a business entity that runs the production of animal feed raw materials. The business entity, which opened in 1983, produces concentrated animal feed raw materials with a variety of raw materials, such as coffee skin, rice bran, onggok, oil palm cake, and copra cake. The main process of making animal feed is the grinding process using a hammer mill, but the use of this machine is less effective to produce optimal production results, calculating the number of inputs and outputs produced by this machine is always inappropriate. Production system improvements have been made to the CV. XYZ, with the aim of reducing the amount of lost product (waste), by using a dust collection machine. Although the amount of waste produced has decreased from an average of 4.9% to 1.2%, it is still obtained in the form of dust that adheres and remains in the dust collector. CV. XYZ has not been able to be maximized, design is needed to help improve company productivity and minimize dust loss on walls in dust collectors by using orientation product design.

Keywords: Rational product design, dust, waste, hammer mill, dust collector