

Crusher for Disposal of Garbage

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Abstract: The goal of making the "CRUSHER FOR DISPOSAL OF GARBAGE PROJECT" is to dispose the Waste Properly by reducing the space utilized by the Dumping Ground and helps in improving the efficiency. Garbage waste can be used for something of value, such as compost, feed pellet, biomass pellet, and briquette. Before becoming such things, it takes a tool to make it smoother, called a crusher. The objective of this work is to do mechanical design and 3-D modeling on garbage waste crusher. The steps for designing the garbage waste crusher involve determining a conceptual physical geometry, conducting mechanical design, and finally, developing a 3-D working drawing. Manufacturing and testing of the crusher were conducted. 3-D modelling design was used for visualizing space requirements, improves drawing efficiency and accuracy. Mechanical design was applied for hopper, frame and blades, storage tank, etc. 3-D modeling process was used to draft the working drawing of an organic waste crusher. 3-D designing is very useful for providing accuracy. Mechanical design of designed crusher was determined. The working drawings of designed crusher are also presented. The garbage crushed with the designed crusher was ready for composting.

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