ABSTRACT

Machine Design is the creation of new and better machines and improving the existing ones. A new or better machine is one which is more economical in the overall cost of production and operation. The process is a long and time consuming one. The design of a new material or its elements may follow a tentative plan. The design plan is not a rigid one way process but is casting feedback. After the general specification of the machine or the machine member been set, the kinematics scheme is decided. This is followed by a force analysis forces is made and the stage will be rather incomplete for design where dynamics is of important, Since masses components is done because the forces are not known exactly.

Crusher Machine is used to reduce materials such as ore, coal, stone, and slag to particle sizes that are convenient for their intended uses. Crushers operate by slowly applying a large force to the material to be reduced. Generally this is accomplished by catching it between jaws or rollers that move or turn together with great force.

The problem on crusher machine is mainly a cause of a design of the machine means, on the production process of gravel. There is a high loss of large amount of gravel in different mechanism, due to some problems or defects on the design of the machine. This Large loss of gravels reduces the efficiencies of production largely, especially by minimizing the profit of the factory dramatically.

These problems are mainly concern on the wastage of gravel. Therefore, the solutions that are given for this solution is mainly depend on the design of crusher because most of the problems are caused by the design defects. The new designed that has taken as a solution for the problems are done in this project.