

ABSTRACT

This machine targets the small-scale farmers. This machine is compact and can cut up to two rows of plant. It has cutting blades which cut the crop in a scissoring type of motion. There are cutting blades on two metal strip (plate) upper blades plate will be reciprocated by scotch yoke mechanism. It runs when an external power is provided through pulley arrangement to the blades. This harvester might be the solution to the problems faced by a small-scale farmer regarding cost and labour implementation .it is found that the cost of harvesting using this harvester is considerably less as compare to manual harvesting.

It is a design and fabrication of a manually pushed lawn mower model of simple scotch yoke mechanism and low cost. And it is a fabrication of the grass cutting machine for the use of agricultural field, to cut the crops in the field. This is a new innovative concept mainly used in agricultural field. It is simple in construction and its working is easy. The components that are used are cam , blade ,frame ,wheels, bolt and nuts. As the crank arrangement rotates the cam arrangement, it operates the sickle bar which tends to cut the plants or crops. The sickle bar has one is fixed cutter and another one is movable cutter which is placed on it. The whole set up is placed on a movable base which has a wheel arrangement

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CONSTRUCTION AND WORKING 7

PRINCIPLE

A REVIEW ON DESIGN AND

MODIFICATION OF GRASS

CUTTING MACHINE 7