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FABRICATION OF LOW BUDGET CROP HARVESTER

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Abstract: - ***The title "Fabrication of low budget crop harvesting machine" basically aims to introduce small-scale machinery to the current low tech farming practices which is conventional method i.e., manual crop cutting by hand tools. Thus, if these farmers are introduced to affordable but effective machinery which can reduce financial crisis by restricted use of labour and thus compensates with the surplus. Since, the farmers are small land holders and thus employ intensive labour, money and time.***

Keywords: - Conventional method, low tech, financial crisis, compensates, intensive labor

I. *INTRODUCTION*

India is one of the fundamental nations of the sector that's majorly dependent on agriculture. however the agricultural practices which are presently followed consist of lots of time, exertions and money consuming practices. The farmers are dependent on the sale surplus in their crop to buy their requirements. To increase this surplus they want more capital to buy modern-day techs however they find that their modern-day practices aren't sufficient to produce the greater sale surplus for investment in modern techs.to fulfill this hole and to transform the prevailing farmers the use of traditional techniques and occasional tech farming practices into high tech and modern-day techniques of agricultural practices. This challenge targets in growing the sale surplus with the aid of the introduction of low price range crop harvester and for that reason adds up to economic system of agricultural area.

Agriculture paperwork the backbone of our us of a financial system; approximately fifty five% of citizen is depending on agriculture. In India harvesting is usually accomplished manually. accordingly our purpose is to offer farmer a low finances crop harvesting gadget. It includes slicing the stems of coral crops like Jawar, Bajra, and Maize and so on. closed to the ground. in our u . s . it is typically completed by using sharp sickle.

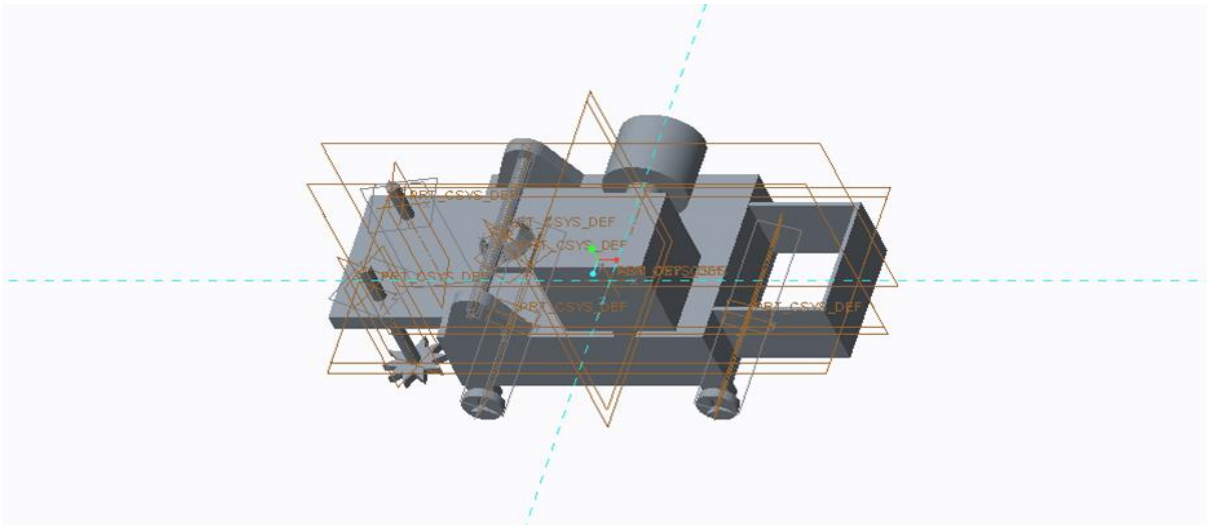

Fig.1 Crop Harvesting Machine

Crop harvesting is last degree in farming which takes maximum time of farmer among all farming process. In India harvesting is usually achieved manually. therefore our goal is to provide farmer a "FABARICATION OF LOW budget CROP HARVESTER system".

crop harvester is a farm implement that cuts hay or small grain vegetation and paves the straws on the stubble smartly and lightly, that's conductive to the crop drying. Matched with walking tractor, it's miles appropriate for small scale grain harvest

simple and reasonable structure makes it handy to operate and maintain And excessive efficiency. it is able to harvest 2.5-5 acreage plants consistent with hour, 20 instances of the manual harvest.

Low stubble cutting improves the usage of straws.

exertions saving. Adoption of self-propelled mechanism ensures that one character can function the gadget nicely.

Configuration of engine may be gasoline engine or diesel engine.

light weight, small volume, low strength consumption, reliable overall performance and accurate adaptability make or not it's a welcome opportunity to reap crops.

this is specially appropriate for harvesting the crops in small plots, mountain, hilly regions or the areas wherein trendy combine harvester can not enter in. except, it is good for reaping vegetation with one-of-a-kind mature degree, or the plants mixed with many weeds.

II. CONCLUSION

In this paper we have discussed the various harvesting methods currently employed in agricultural field. It is found that there is a possibility to develop low budget harvester as an alternate to the existing harvester. By literature and field observations we expect that our design will minimize manual work, cost and time. The most important feature required for an harvester is cutter, we designed the cutter by considering strength, physical properties and other factor of crops. And further in the project we will develop and fabricate the whole design.

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