

SUCCESS STORY: 3

Name of KVK: KVK, Pipalia Rajkot-II

Title: Innovation of Automatic Groundnut Harvester cum Thresher

(Prepared by: - Shri A.R. Parmar, Dr. N.B. Jadav, Dr. V. S. Prajapati, Shri S.V. Undhad, and P. S. Sharma)

1. Name of Farmer: Dobariya Nileshbhai Oghadbhai

2. Present Address: - Village: Boriya, **Block:** Jamkandorna, **Dist.** Rajkot, **Mobile:** 9904666824,

3. Birth Date: 21-08-1980

4. Age: - 36,

5. Introduction: -

Above all the harvesting and threshing operations of certain crops needs load of labors which are difficult now-a-days to find. The young generation is getting away from agriculture as a profession leading to scarcity of labour which delays certain operations thus ultimately affecting the production and quality. These were the key factors which leads to innovation of machinery that Nileshbhai has developed. The above said machinery i.e. Automatic Harvester cum Thresher (Self named) which is capable of harvesting and threshing different crops simultaneously which results more output with less human and non-human resources. The machine developed by him collects groundnut pats from the field and conveys it to thresher where the pods and fodder/straw are separately collected in different compartments.

6. Subject Matter: -

Automatic Harvester cum Thresher (Self named) which is capable of harvesting and threshing different crops simultaneously. The machine developed by him collects groundnut pats from the field and conveys it to thresher where the pods and fodder/straw are separately collected in different compartments. This can separately be collected which reduce the cost of cleaning and sorting. While in traditional method the pats are collected by the labors and carried to the thresher. Four labors are required during the threshing operation on thresher, the pods and straw/fodder goes along with wind which is to be heaped which again leads to more manual labour practice.

7. Economic Output

On an average 20-25 labors are required to do the complete process which can be reduced to one with the use of this automatic machine as only one driver is needed during the whole process. As a whole after accounting the cost of the whole process, it can be concluded that traditional method requires Rs 1500/- per hour while this machine includes cost of diesel and driver which consumes about 2-3 liters' diesel per hour. One more beneficial of this machine is that pats need to dry more in sunlight to reduce the humidity otherwise harvesting will not done correctly in this machine. This will automatically cause reduction of fungus *Aspergillus* from the seed which gives export quality groundnut as compare to groundnut harvested by thresher.

8. Conclusion

Due to adoption of this innovative and scientific technology, Shri Nileshbhai able to uplift his stands and also his life economically at upper stage and become a respected person in the community. He genuinely proved that when self-interested innovative techniques, hardworking nature and strong dedication all together can achieve our desired goal.

9. Horizontal Spread of Innovation

Shri Nileshbhai set an example of doing farming as a business point of view instead of regular farming that we are doing since our ancestors. He is now getting repeated orders for the machine and there is quite a long waiting period for having machine on rental purposes as he owes single of

its kind. He seeks offer opportunity to make it commercialized in the market because of its efficiency. He has also applied for patenting of his technology through NGO.

10. Outstanding contribution in the field of agriculture

Shri Nileshbhai's innovation is outstanding where finding of labour is the hardest work in this time of shortage of labour. Because in this machine there is no need of labour for harvesting of groundnut, while in thresher it must be needed 15-20 labour for harvesting the groundnut, which reduces the cost of labour and cost of expense.

11. Award received

He has been awarded as krushi rishi by state agriculture government



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