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Title: STUDY ON DRIP IRRIGATION SYSTEM FOR VEGETABLE CROP PRODUCTION IN RANCHI DISTRICT OF JHARKHAND

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Abstract: The present investigation was carried out during the year 2017-18 from Ranchi Ormanjhi, Angara and Kanke blocks of Ranchi district of Jharkhand villages were selected on the basis of maximum area under drip irrigation. Farmers were further selected on the basis of conventional and drip irrigation system. 24 those farmers were selected who were growing vegetables following drip system. However 24 were growing vegetables following conventional system. The data were collected through personal interview and analyzed by using appropriate statistical tools. The study conducted on economic analysis of drip irrigation for vegetable crops in Ranchi district of Jharkhand revealed that the drip irrigation for vegetable production is profitable investment. Before the adoption of drip irrigation the area under cereals and pulses crop were more while after the adoption of drip irrigation the area under vegetable crops highest average yield, average cost of cultivation and average net return was observed in Tomato (80 q/ha, Rs. 90,000 Rs. /ha and Rs 3.10 lac /ha) under drip irrigation system as compare to other selected vegetables. Tomato gives highest benefit cost ratio i.e 4.44:1 as compared of other vegetable crops. From the above discussions it may be concluded that the maximum area is covered by vegetable crops and among the vegetable crops the maximum area is covered by tomato crops because it is considered to be most reliable and profitable crop under the drip irrigation system in Jharkhand state. Higher yield, saving of water and fewer intakes of inputs are the main reason for adoption of drip irrigation system.

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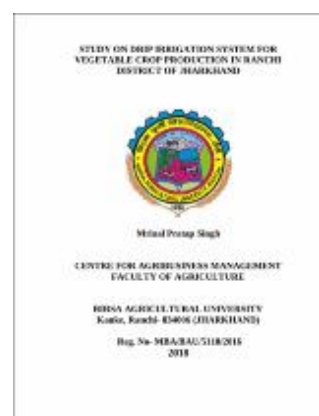
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