



RESEARCH PAPER

To analyze the technical and allocative efficiency of drill paddy cultivation in Bhandara district

Kanchan Meshram, V. K. Khobarkar and R. D. Vaidkar*

Post Graduate Institute, Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola (M.S.) India

(Email: rajeshvaidkar@yahoo.com)

Abstract : The present study on paddy was undertaken in Bhandara district of Vidarbha region. The district was selected purposively. Three tehsils were selected. Out of the seven tehsil, Sakoli, Lakhandur and Pauni tehsil was selected for the study based on drill paddy cultivars. Three villages were selected purposively from each tahsil and from each village 10 farmers were selected overall 90 farmers were selected. The study revealed that how different cost components affect the profitability of production paddy crop and also proposes that at how much level of efficiency, the farmer is producing the paddy crop and how much level of efficiency is yet to be obtained. The maximum livelihood estimates of the stochastic production function revealed that fertilizer showed a negative and significant effect on paddy production. The co-efficient of the frontier profit function revealed that machine hours, seed and fertilizer shows a negative and significant impact on paddy farmer profitability. The mean technical, economic and allocative efficiency of paddy cultivation was found to be 97.49 per cent, 87.97 per cent and 89.86 per cent indicated that there is still scope for paddy farmers to increase the economical and allocative efficiency by operating at a full efficient level by proper utilization and allocation of existing resources and technology.

Key Words : Drill Paddy, Technology, Allocative efficiency

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