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Impact of Different Organic Manures in Enhancing the Growth and Productivity of Rice (*Oryza Sativa* L) in Rural Bhandara (M.S.) India

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Abstract: *Organic manure refers to materials used as fertilizer that occur regularly in nature, usually as a by-product or end product of a naturally occurring process. Organic fertilizers such as manure have been used in agriculture for thousands of years; ancient farmers did not understand the chemistry involved, but they did recognize the benefit of providing their crops with organic material.In order to study the effect of organic fertilizer on growth and yield components in rice, an Experiment was conducted during year 2022 in mid-August to December in field as well as in pot with five different nutritional treatments such as Cow, sheep, vermicompost, Poultry manures and combined of all four nutrients and one pot for control to evaluate the growth, productivity of growing rice. Under such a management practices the growth parameters yield components and seed yield of rice were maximum when organic manure was applied along with inorganic fertilizer at certain conditions. The effect of cow dung cake manure was good over the effect of vermicompost and it showed better result over manures like sheep, Poultry etc. The best result was found in Combination of all nutritional treatment.*

Keywords: Vermicompost, Organic manure, poultry manure, nutritional treatment

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