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RESEARCH ARTICLE :

Impact of front line demonstration of INM on growth and yield in tomato (*Lycopersicon esculentum* Mill.) cv. ARKA RASHAK

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SUMMARY : A field experiment was conducted at the Farmers Field of village Hot Pipaliya district Dewas Madhya Pradesh. The effect of Integrated Nutrient Management (INM) on the growth, yield and contributing nutrient status in tomato. By following a Randomized Complete Block Design, 9 treatments with 3 replications were maintained. The study revealed that the integration of organic manures in combination with inorganic fertilizers was found significant in improving the overall plant growth, yield and soil macro nutrient status than the soil application of either of these nutrients. Maximum plant height and number of leaves per plant were observed with treatment T_7 (FYM 15 mt/ha + Vermicompost 7.5 mt/ha + 75% NPK). The earlier of days to 50% flowering was observed in treatment 20 mt/ha FYM. Highest number of fruit clusters, maximum fruit weight and fruit yield (26.74 mt/ha) were recorded in treatment T_7 (FYM 15 mt/ha + Vermicompost 7.5 mt/ha + 75% NPK). The highest available nitrogen, phosphorus and potassium were found in treatment of ½ NPK + vermicompost 15 mt/ha.

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KEY WORDS :
FYM, INM, NPK, Vermicompost, Tomato

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