

Research Article

DOI : 10.15740/HAS/AJSS/12.1/94-97

Impact of integrated nutrient management on the yield performance of winter tomato (*Lycopersicon esculentum* Mill.) cv. ARKA VIKAS

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Received : 14.01.2017; Revised : 20.04.2017; Accepted : 02.05.2017

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Summary

The experiment was conducted at Seed Science and Technology Department, Odisha University of Agriculture and Technology Bhubaneswar during winter season, 2015. The current approach of integrated nutrient management focused on disseminating the technical knowledge how to major stakeholders to optimize use of organic and inorganic for sustainable agriculture. The experiment consisted of eight treatments during the study. The highest yield of tomato was recorded with the application of FYM and recommended dose of NPK fertilizer. The yield parameters and seed quality parameters of winter tomato like, no. of fruit/plant, fruit weight (g), fruit diameters (cm), fruit yield (q/ha), seed yield (kg/ha), germination (%), seedling length (cm), seedling dry weight (g), SVI-I and SVI-II was found significantly highest at the treatment combination T₆ (60kg N+30kgP₂O₅+40kgK₂O+30 tonnes FYM/ha) followed by T₄ other treatments.

Key words : Tomato, FYM, Vermicompost, N, P, K

How to cite this article : Beura, J.K., Monalisa, S.P. and Tarai, R.K. (2017). Impact of integrated nutrient management on the yield performance of winter tomato (*Lycopersicon esculentum* Mill.) cv. ARKA VIKAS. *Asian J. Soil Sci.*, 12 (1) : 94-97 : DOI : 10.15740/HAS/AJSS/12.1/94-97.