



RESEARCH PAPER

Impact of liquid and carrier based biofertilizers on fruit and quality traits in tomato (*Solanum lycopersicum* L.)

K. Lakshmikala*, B. Ramesh Babu¹, M. Ravindra Babu¹ and P. Rama Devi¹
College of Horticulture, Dr. YSR Horticultural University, Venkataramannagudem
West Godavari (Andhra Pradesh), India
(Email : kothakadapalakshmikala@gmail.com)

Abstract : The present investigation “Influence of liquid and carrier based biofertilizers on growth, yield and quality of tomato (*Solanum lycopersicum* L.)” was laid out in randomized block design with two factors and three levels comprising of nine treatment combinations in three replications at Horticultural Research Station, Dr. Y.S.R. Horticultural University, Venkataramannagudem, West Godavari during *Rabi*, 2018. The application of 80 % recommended dose of fertilizers along with liquid biofertilizers resulted in significant higher differences in number of fruits per cluster (4.90), number of fruits per plant (60.0), fruit set % (98.34), fruit length (5.83 cm), fruit width (5.45 cm), average fruit weight (96.96 g), fruit yield per plant (7.27 kg), TSS (4.67 °Brix), ascorbic acid content (16.53 mg/100 g), lycopene content (31.72 mg/100g) and titrable acidity (0.53 %) when compared to other treatment combinations.

Key Words : Titrable acidity, Factors, Liquid biofertilizers, Recommended dose of fertilizers, Treatment combinations

View Point Article : Lakshmikala, K., Babu, B. Ramesh, Babu, M. Ravindra and Devi, P. Rama (2021). Impact of liquid and carrier based biofertilizers on fruit and quality traits in tomato (*Solanum lycopersicum* L.). *Internat. J. agric. Sci.*, 17 (2) : 220-227, DOI:10.15740/HAS/IJAS/17.2/220-227. Copyright@2021: Hind Agri-Horticultural Society.

Article History : Received : 22.02.2021; Revised : 25.02.2021; Accepted : 14.03.2021

*** Author for correspondence :**

¹Horticultural Research Station, Dr. YSR Horticultural University, Venkataramannagudem, West Godavari, Andhra Pradesh, India (Email : rameshort@gmail.com; ravimuvva28@gmail.com; ramadevipuvvada@yahoo.com)