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RESEARCH PAPER

Response of INM and training on flowering and yield of tomato (*Lycopersicon esculentum* Mill.) under greenhouse condition

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Abstract : The present investigation was carried out at Hi-tech Horticulture Park, college of Horticulture, Junagadh Agricultural University, Junagadh during the year 2021-22 to 2022-23 to study the response of INM and training on flowering and yield of tomato (*Lycopersicon esculentum* Mill.) under greenhouse condition.The experiment was laid out Completely Randomized Design with factorial conceptwith three replications. The study included four nutrient levels, *viz*., 100 % RDF + 20 t/ha FYM, 100 % RDF + 5 t/ha FYM + 1 t/ha *Neem* cake + Bio-fertilizer (each 3 kg/ha) + *Panchgavya* 3 %, 75 % RDF + 10 t/ha FYM + 2 t/ha *Neem* cake + Bio-fertilizer (each 3 kg/ha) + *Panchgavya* 3 % and 50 % RDF + 15 t/ha FYM + 3 t/ha Neem cake + Bio-fertilizer (each 3 kg/ha) + *Panchgavya* 3 % and four level of training system namely no training, single stem, two stem and three stem. The different level of INM indicated that the treatment 75 % RDF + 10 t/ha FYM + 2 t/ha *Neem* cake + bio-fertilizer (each 3 kg/ha) + *Panchgavya* 3 % recorded significant superior results on days to first flower appearance, number of flower per cluster, days to fruit set, fruit set per cent, flowering span, fruit yield per plant and fruit yield per 1000 m^2. The training system indicated that the two stem training reported superior results on number of flower per cluster, fruit yield per plant, fruit yield per 1000 m^2.

Key Words : INM, Training, Flowering, Yield, Greenhouse

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