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Genetic variability studies of tomato (*Solanum lycopersicum* L.) under protected conditions of Kerala

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ABSTRACT : Forty tomato genotypes were evaluated in Randomized Block Design with three replications at College of Agriculture, Vellayani, Kerala, during October 2014 to April 2015. Wide range of variability was observed among the characters studied for effective selection of superior genotypes suited which have a great interest for polyhouse tomato breeding. The present appraisal uncovered that PCV and GCV were higher for plant height, truss per plant, fruit weight, fruits per truss, fruits per plant and yield per plant which suggested greater variability among the accessions and sensitiveness of the attributes for making further improvement by selection. High heritability was observed for plant height, pollen viability, truss per plant, fruit weight, fruit girth, fruits per truss, fruits per plant, lycopene and yield per plant.

KEY WORDS : Tomato, Variability, Heritability, Genetic advance

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