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Variability pattern in agromorphological characters in tomato genotypes (*Lycopersicon esculentum* Mill.).

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ABSTRACT : The present investigation on genetic variability, heritability and correlation study including mean, genotypic and phenotypic variances, coefficient of variation, heritability, and genetic advance was conducted on genetically diverse nineteen genotypes of Tomato. IIVR-T0-17 genotypes was found superior in terms of fruit yield per ha. Large amount of variability exhibited in the genotypes for selection. Significant differences were observed among the genotypes for all the traits. The phenotypic coefficient of variation (PCV) was higher than genotypic coefficient of variation (GCV) for all the traits. Traits like plant height 120 DAT, number of branches 120 DAT, days to flower an thesis, number of fruits per plant, average fruit weight, number of cluster per plant, fruit set (%), radial diameter and polar diameter (mm), ascorbic acid (vitamin 'C'), TSS (Brix), showed positive correlation with fruit yield per ha., plant height after 120 DAT, days to 50% flowering, leaf curl incidence and intensity showed negative correlation at both phenotypic and genotypic level.

Key Words: Tomato (*Lycopersicon esculentum* Mill.), GCV, PCV, heritability, correlation, path analysis.