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Abstract:	The present experimental work entitled “Evaluation of genetic parameters and varietal performance of Turmeric (Curcuma longa L.) under Ranchi condition” was carried out in the experimental field, Department of Horticulture, Birsa Agricultural University, Kanke, Ranchi (Jharkhand) during Kharif season, 2017, to evaluate 10 genotypes of turmeric including check Rajendra Sonia for different traits. The observations were recorded on emergence, number of tillers and leaves per plant, leaf length and breadth, plant girth and height, length, girth and weight of mother, primary and secondary rhizomes, number of primary and secondary rhizomes per plant, yield per plot, yield per ha and dry matter recovery. Analysis of variance showed significant differences among the genotypes for all the traits studied. Three genotypes Pratibha (23.88 t/ha), BSR-I (21.03 t/ha) and Punjab Haldi (17.96 t/ha) excelled over the check, Rajendra Sonia (12.81 t/ha) for most of the characters including rhizome yield per hectare. In addition, these genotypes performed better for other horticultural traits viz. number of tillers per plant, number of primary and secondary rhizomes per plant, length and girth of mother rhizome and weight of mother rhizome. The correlation coefficients among the different characters at phenotypic and genotypic levels revealed that yield per plot was having significantly positive association with number of tillers per plant, number of leaves per plant, leaf length, leaf width, plant height, length of mother rhizome, girth and weight of mother rhizome. High heritability coupled with high genetic gain were estimated for weight of secondary and mother rhizomes and yield per plot, indicating that these characters are under additive gene effects and more reliable for effective clonal selection for yield improvement.
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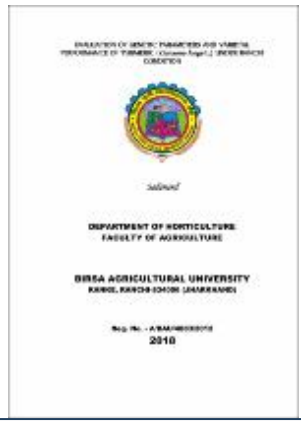

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