## Genetic Variability, Heritability and Genetic Advance for Grain Yield, its Components and Quality Traits in Rice (*Oryza sativa* L.)

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## ABSTRACT

An investigation was carried out to assess the variability, heritability and genetic advance for twenty four characters. High PCV and GCV for alkali spreading value was recorded, while number of grains per panicle, test weight, leaf area index at maximum tillering stage, kernel breadth after cooking, water uptake, gel consistency recorded moderate variability (*i.e.*, moderate PCV and GCV). High heritability accompanied with high genetic advance had shown by the characters *viz.*, number of ear bearing tillers per plant, number of grains per panicle, test weight, leaf area index at maximum tillering stage, water uptake, gel consistency and alkali spreading value indicating the preponderance of additive gene action which may be exploited through pedigree method, mass selection, ear-to-row method, etc. are to be followed to improve these traits.

Key words: Genetic advance, Heritability, Rice, Variability