

Estimation of genetic variability, heritability and genetic advance in aromatic rice (*Oryza sativa* L.)

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ABSTRACT

The present investigation was conducted at Research Farm, VKSCoA, Dumraon, Buxar, Bihar, during the *kharif* 2022 - 23 to evaluate the genetic variability, genotypic coefficient of variation (GCV) and phenotypic coefficient of variation (PCV), heritability and genetic advance in popular aromatic rice (*Oryza sativa* L.). Ten lines and five testers were crossed in a line x tester mating design to produce F₁ hybrids. Results revealed highly significant variations within parents and hybrids. All 16 characters showed high estimates of heritability coupled with high genetic advance as well as less than one average degree of dominance and a predictability ratio of less than one in F₁'s. This indicated that the inheritance of maximum characters was governed by additive gene action and the direct selection for these characters would be rewarding

Keywords: *Aromatic Rice (Oryza sativa L.), ANOVA and Heritability*