

# Assessment of Genetic Variability for Early Vigour Traits under Dry Direct Sowing and under Anaerobic Condition in Rice

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## ABSTARCT

Forty eight genotypes of Rice (*Oryza sativa* L.) were grown under dry direct sowing during *Kharif* 2016 and observations were recorded on early vigour traits and yield components. During the same season screening was done for anaerobic germination and data were recorded on early vigour traits after 7, 14 & 21 days of submergence. Results indicated significant differences among the characters studied. All the variability parameters studied *viz.*, PCV, GCV, heritability and genetic advance as percent of mean were high for number of ear bearing tillers, grain yield, root length at 7 DAS in field, root length at 14 DAS in field, germination percentage after 7 days of submergence, germination percentage after 14 days of submergence, shoot length after 21 days of submergence, root length after 21 days of submergence, dry matter after 21 days of submergence, vigour index under 21 days of submergence, number of leaves 21 days of submergence, germination percentage under 21 days of submergence and total soluble sugars indicating the role of additive gene action in the inheritance of these traits.

**Key words:** GCV, genetic advance, heritability, PCV, rice.