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## RESEARCH ARTICLE: Role of seed-Zn content on seed longevity of paddy genotypes

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# ARTICLE CHRONICLE:SUMMAReceived :seed long22.07.2017;to storabAccepted :ppm) pro11.08.2017%). seedling

**SUMMARY :** Ten paddy genotypes were selected to establish the role of seed-Zn content in maintaining seed longevity of paddy genotypes. The present study revealed clear genotypic variability with respect to storability among different paddy genotypes. The genotype with highest seed-Zn content (24.79 ppm) proved as good storer by recording highest seed quality parameters *viz.*, seed germination (85.70 %), seedling length (21.88 cm), seedling vigour index (1795), speed of germination (18.80), dehydrogenase enzyme activity (0.39 OD value), á-amylase activity (12.47 mm) with lowest electrical conductivity (153.40  $\mu$ S/cm) and moisture content (10.62 %) at the end of twelve months of storage period. Whereas, genotypes with low seed-Zn content showed lowest seed quality parameters.

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#### KEY WORDS: Micronutrient, Paddy, Seed, Storage

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