

## **Genotypic variation for root and shoot length in response to salt stress during germination stage in parental lines of hybrid rice (*Oryza sativa* L.)**

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**ABSTRACT :** An experiment was conducted at Indian Institute of Rice Research, Hyderabad, to assess the response of 34 hybrid rice parental lines to 120mM NaCl salt stress at germination stage. All the genotypes significantly responded to salt stress and most of the genotypes showed tolerance to threshold salt level and the results clearly depicted that germination stage is moderately tolerant to salinity. Root and shoot length of all cultivars were significantly affected by salt stress, The genotypes BK49-76, BK36-167, INDAM300-007, AjayaR, FL-478 and DRRH-2 manifested maximum tolerance where as genotypes BCW 56, IR 58025B, APMS6B showed susceptibility on par with IR28 at germination stage. The most of the genotypes were tolerant to salinity at seed germination which is an indicator for raising nursery in salt affected soils.

**Key Words:** Germination percentage, Imbibition rate, Shoot length, Salt stress, Root length