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RESEARCH ARTICLE

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Heterosis studies in hybrid rice (Oryza sativa L.)

SAMRATH BEDI AND DEEPAK SHARMA

ABSTRACT : To increase production and productivity in this ecosystem, innovative breeding approaches such as heterosis in hybrid rice. Out of these, hybrid rice technology is the proven technology in China and a more practical one to raise production. Hetrosis study comprises of three CMS lines *viz.*, CRMS 31A, IR 58025A and IR79156A and five testers *viz.*, NPT 453-2, NDR 8054 (IR 77768-25-NDR-B-108-14), CR 2330-3-3-2-1-1, NPT 76-8 and PR-115. Indira Sona (hybrid) and Mahamaya (commercial cultivar). The crosses were tested as line x tester mating design with two replications. Cross IR 79156A / NPT 76-8 stood for positive significant heterosis over checks for characters grain yield / plant ,test weight, pollen fertility percentage, harvest index.

KEY WORDS : Heterosis, Line x Tester

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MEMBERS OF RESEARCH FORUM

Address of the Correspondence : SAMRATH BEDI, Department of Genetics and Plant Breeding, College of Agriculture, Indira Gandhi Krishi Vishwavidyalaya, RAIPUR(C.G.) INDIA Email: esha0402@gmail.com

Address of the Coopted Authors : DEEPAK SHARMA, Department of Genetics and Plant Breeding, College of Agriculture, Indira Gandhi Krishi Vishwavidyalaya, RAIPUR(C.G.) INDIA Email: deepakigkv@gmail.com