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Analysis of combining ability status and nature of gene action among hybrids for yield and quality traits in okra (*Abelmoschus esculentus L.* Moench)

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ABSTRACT : The present investigation, heterosis breeding for yield and quality attributes in okra [*Abelmoschus esculentus* (L.) Moench], was carried out during rainy season of 2007 and summer season of 2008 where twenty diverse genotypes of okra were crossed in line x tester mating design in RBD with 17 lines and three testers to estimate the general combining ability (GCA), specific combing ability (SCA) and gene action. The lines like Arka Abhay, VRO-5, VRO-6, JBS-2 and testers like Pusa Sawani proved to be the good general combiner and VRO–6 x Pusa Sawani was the good specific combiner for most of the yield and yield attributing traits during both the seasons.

Key Words: Heterosis,line x tester mating, RBD, general combining ability, specific combing ability.