Studies combining ability analysis for yield and fibre quality traits in upland cotton (*Gossypium hirsutum* L.)

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To estimate combining ability by using six lines and nine testers were crossed and 54 hybrids were developed through line x tester design during *Kharif* (monsoon) season of 2006 to evaluated fibre quality seed cotton yield and parameters. The parents, hybrids and three checks viz., PHH 316, NHH 44 and Bunny were planted in *Kharif* (monsoon) season of 2007 at different locations. Observations recorded on 14 yield and yield contributing characters with an objective to estimate combining ability. The estimates of general combining ability (GCA) effects revealed that the parents PH 348, PH 1009, PH 1024 and PH 297-7-1 were found best general combiner not only for seed cotton yield per plant but also for other yield contributing characters in desired direction. In respect of specific combining ability (SCA) the hybrids KH 121 x PH 1024, KH 120 x NH 545, KH 121 x PH 348 and PH 297-7-1 X PH 1024 had shown positive significant specific combining ability (SCA) effects for seed cotton yield and its component traits.

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