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A CASE STUDY

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Heterosis in bitter gourd (*Momordica charantia* L.)

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ABSTRACT : Twenty F_1 hybrids of bitter gourd in a diallel set involving five parents including reciprocals were evaluated to assess the extent of hybrid vigour in the yield contributing traits. Appreciable amount of heterosis was observed for all the characters under this study except node number of first female flower. The F_1 hybrids $P_5 \times P_3$ (Panruti local \times VK-1 Priya), $P_4 \times P_2$ (MC -13 \times Arka Harit) and $P_2 \times P_1$ (Arka Harit \times CO-1) were observed best performing for yield and they showed 46.21, 29.31 and 14.30 per cent heterosis, respectively better parent Arka Harit (P_2).

KEY WORDS : Heterosis, Bitter gourd, Monoecious

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