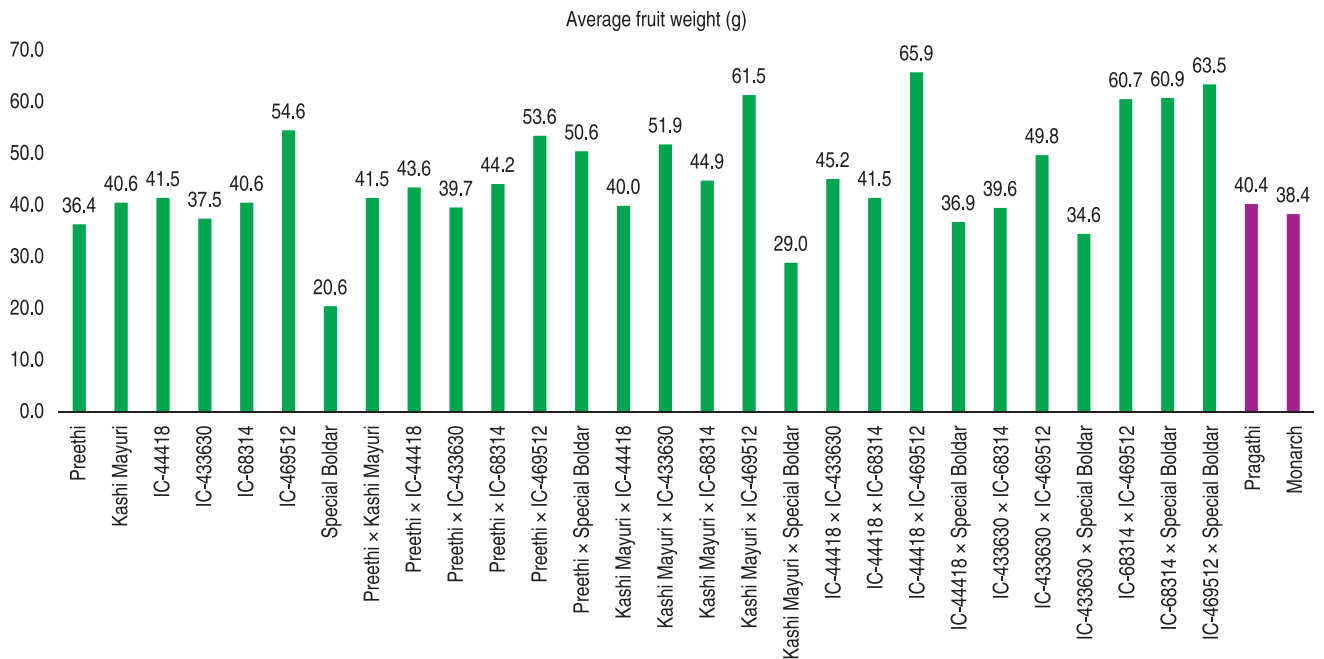
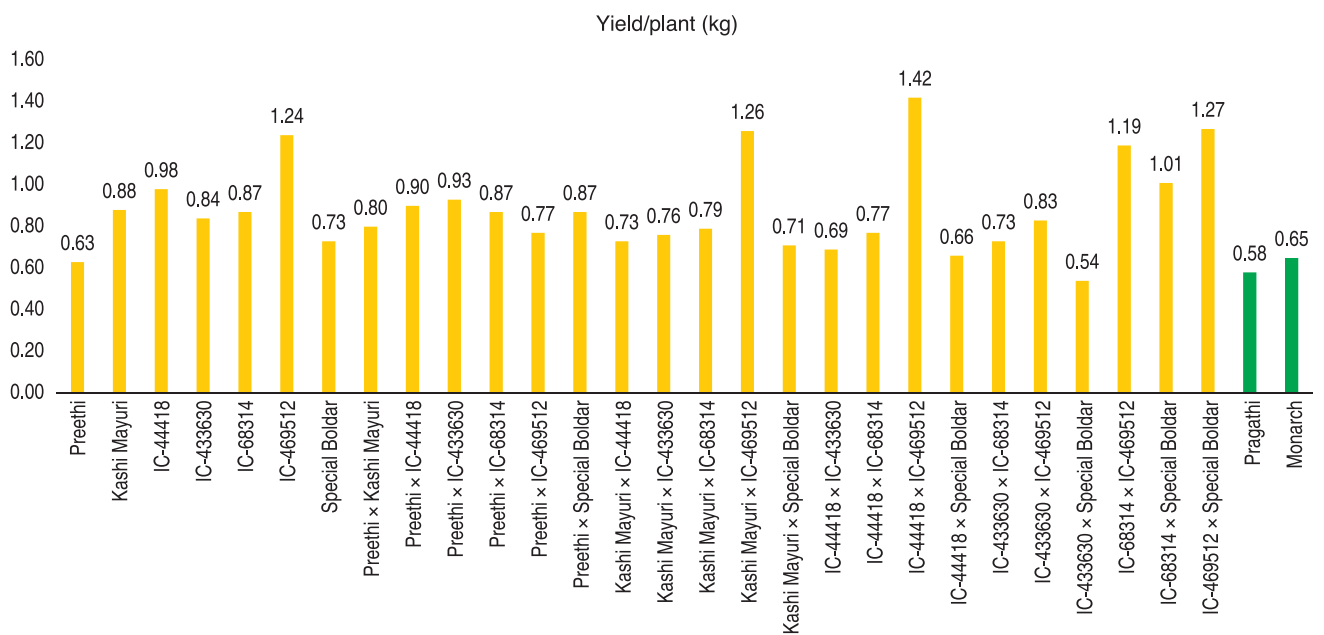


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Supplementary Fig. 1 Variation in average fruit weight among the treatments under study.



Supplementary Fig. 2 Variation in yield/plant among the treatments under study.

Supplementary Table 1 List of parental lines and checks with their source of supply

Parents/Commercial checks	Source
Preeti	KAU, Thrissur, Kerala
Kashi Mayuri	IIVR, Varanasi, Uttar Pradesh
IC-44418	NBPGR, Thrissur, Kerala
IC-68314	NBPGR, Thrissur, Kerala
IC-433630	NBPGR, Thrissur, Kerala
IC-469512	NBPGR, Thrissur, Kerala
Special Boldar	NBPGR, Thrissur, Kerala
Pragati	East West seeds, Andhra Pradesh
Monarch	Hyveg seeds, Haryana

Supplementary Table 2 General ANOVA for growth and yield traits in bitter gourd

Character	Mean sum of squares		
	Replication	Treatment	Error
df	2	29	58
Vine length (cm)	0.512	1831.180**	30.734
Internodal length (cm)	0.007	2.217**	0.013
Days to 1 st male flower appearance	0.497	17.601**	0.883
Days to 1 st female flower appearance	0.417	18.415**	1.213
Days to 1 st picking	3.173	52.630**	2.899
Sex ratio	0.034	14.053**	0.049
Number of fruits/plant	0.094	20.153**	0.275
Average fruit weight (g)	0.906	375.936**	0.850
Yield/plant (kg)	0.001	0.221**	0.000
Fruit length (cm)	0.129	52.137**	0.324
Fruit diameter (cm)	0.023	2.131**	0.020
Seed/fruit	0.039	27.489**	0.134

** 1% level of significance, *5% level of significance.