

Supplementary Table 1. List of bottle gourd genotypes used under study

Sr. No.	Genotypes	Sources
1.	VRBG-1	Indian Institute of Vegetable Research, Varanasi
2.	VRBG-2	Indian Institute of Vegetable Research, Varanasi
3.	VRBG-3	Indian Institute of Vegetable Research, Varanasi
4.	VRBG-4	Indian Institute of Vegetable Research, Varanasi
5.	VRBG-5	Indian Institute of Vegetable Research, Varanasi
6.	VRBG-6	Indian Institute of Vegetable Research, Varanasi
7.	VRBG-7	Indian Institute of Vegetable Research, Varanasi
8.	VRBG-8	Indian Institute of Vegetable Research, Varanasi
9.	VRBG-9	Indian Institute of Vegetable Research, Varanasi
10.	VRBG-10	Indian Institute of Vegetable Research, Varanasi
11.	VRBG-11	Indian Institute of Vegetable Research, Varanasi
12.	VRBG-12	Indian Institute of Vegetable Research, Varanasi
13.	VRBG-13	Indian Institute of Vegetable Research, Varanasi
14.	VRBG-14	Indian Institute of Vegetable Research, Varanasi
15	LC-1	Sam Higginbottom University of Agriculture Technology and Sciences, Prayagraj
16.	LC-2	Sam Higginbottom University of Agriculture Technology and Sciences, Prayagraj
17.	LC-3	Sam Higginbottom University of Agriculture Technology and Sciences, Prayagraj

(VRBG: Varanasi Bottle Gourd, IIVR: Indian Institute of Vegetable Research, LC: Local Collection)

Supplementary Table 2. Pooled analysis of variance (ANOVA) for various traits of bottle gourd

	Replication	Genotype	Error
df	2.00	16.00*	32.00
Days to 1st male bloom	99.62	2.80*	0.31
Days to 1st female bloom	19.36	1.61*	0.68
No. of nodes to 1st male flower	0.59	5.43*	0.30
No. of nodes to 1st female flower	0.34	3.17*	0.69
No. of branches per vine	0.78	2.47*	1.19
Vine length (m)	0.36	1.44*	0.27
Days to 1st harvest	3.55	8.40*	1.05
Fruit weight (g)	3755.83	21342.25*	1227.33
Fruit diameter (cm)	1.01	4.37*	1.14
Fruit length (cm)	0.95	28.94*	1.44
Fruit/vine	1.66	5.95*	0.64
Ascorbic acid (mg/100g)	0.03	9.39*	0.30
TSS (°Brix)	0.01	0.43*	0.04
Fruit yield/plant (kg/ha)	1.28	6.21*	0.41
Fruit yield/hectare (q/ha)	2537.77	12271.92*	807.39

*Significant at 5 % level

Supplementary Table 3. Mean performance of bottle gourd genotypes for various traits (pooled)

Sr No.	Genotypes	DM	DF	NM	NF	BV	VL	DH	FW	FD	FL	FV	AA	SS	YP	YH
1	VRBG-1	48.67	57.00	10.22	12.78	16.78	4.77	67.33	717.67	14.11	29.66	8.44	32.33	3.41	6.10	271.21
2	VRBG-2	47.33	56.67	9.22	11.33	17.89	5.64	67.11	829.44	17.44	36.89	9.78	34.11	4.18	8.10	360.14
3	VRBG-3	49.56	57.44	10.22	12.89	14.78	4.55	69.89	573.44	13.89	28.22	7.11	28.67	2.68	4.08	181.15
4	VRBG-4	50.00	58.11	10.45	13.11	14.56	3.35	68.34	602.78	15.11	27.11	8.22	30.67	2.93	4.97	220.84
5	VRBG-5	49.89	57.89	10.56	11.78	15.33	3.25	69.44	561.33	13.11	25.45	7.34	29.89	2.90	4.13	183.56
6	VRBG-6	49.44	57.56	11.55	12.22	15.44	4.22	69.11	654.22	14.44	33.33	7.22	31.34	2.97	4.72	209.87
7	VRBG-7	51.44	58.56	10.67	13.11	15.11	3.65	70.56	709.78	14.67	31.56	6.56	31.89	3.15	4.68	208.11
8	VRBG-8	49.78	59.11	11.67	13.89	14.89	3.15	68.11	720.67	15.22	32.78	6.89	32.11	3.26	4.97	220.74
9	VRBG-9	49.89	58.33	11.89	14.11	15.78	4.35	67.44	574.11	15.66	31.56	6.34	30.56	2.97	3.66	162.49
10	VRBG-10	50.11	58.56	12.55	14.22	15.55	4.11	69.89	704.89	15.11	27.11	5.66	29.67	3.27	4.00	177.58
11	VRBG-11	49.89	58.55	12.67	14.55	15.67	3.65	70.22	722.56	14.33	33.22	5.22	28.56	3.11	3.77	167.84
12	VRBG-12	49.78	58.11	12.56	14.78	15.78	3.77	70.56	655.56	15.78	28.22	5.78	28.22	2.85	3.78	168.00
13	VRBG-13	49.67	57.89	13.22	14.33	15.11	3.50	72.66	584.45	13.78	32.66	5.44	29.11	3.08	3.18	141.51
14	VRBG-14	50.33	58.55	13.33	14.22	15.78	4.23	72.22	687.78	16.33	31.66	5.11	30.22	3.20	3.51	156.07
15	LC-1	47.67	57.00	9.33	12.22	17.56	5.28	67.22	820.33	17.11	35.78	9.22	33.78	3.84	7.57	336.62
16	LC-2	50.11	59.00	12.55	13.89	15.56	3.98	68.11	786.89	16.22	32.11	8.33	32.44	3.64	6.56	291.51
17	LC-3	49.11	58.89	12.89	13.55	15.89	4.38	69.11	713.56	16.11	31.22	7.78	31.56	3.26	5.54	246.27
Mean		49.57	58.07	11.50	13.35	15.73	4.11	69.25	683.50	15.20	31.09	7.09	30.89	3.22	4.90	217.85
C.V.		1.12	1.42	4.73	6.21	6.92	12.55	1.48	5.13	7.03	3.85	11.25	1.79	5.88	13.03	13.04
F ratio		9.16	2.38	18.33	4.60	2.08	5.41	8.03	17.39	3.83	20.15	9.37	30.85	12.08	15.23	15.20
S.E.m		0.32	0.48	0.31	0.48	0.63	0.30	0.59	20.23	0.62	0.69	0.46	0.32	0.11	0.37	16.41
C.D. at 5%		0.92	1.37	0.91	1.38	1.81	0.86	1.70	58.27	1.78	1.99	1.33	0.92	0.31	1.06	47.26
Range Lowest		47.33	56.67	9.22	11.33	14.56	3.15	67.11	561.33	13.11	25.45	5.11	28.22	2.68	3.18	141.51
Range Highest		51.44	59.11	13.33	14.78	17.89	5.64	72.66	829.44	17.44	36.89	9.78	34.11	4.18	8.10	360.14

DM = Days to 1st Male bloom, DF = Days to 1st Female flower, NM = Number of nodes to 1st Male flower, NF = Number of nodes to 1st Female flower, BV = Branch count/Vine, VL = Vine Length (m), DH = Days to 1st Harvest, FW = Fruit Weight (g), FD = Fruit Diameter (cm), FL = Fruit Length (cm), FV = Fruit/Vine, AA = Ascorbic acid (mg/100 g), SS = Soluble Solids (°Brix), YP = Yield/plant (kg), YH = Yield/ha (q)