

Cite this article: Renu F, Makhan L, Kuldeep K, Pooja P, Sudesh, Vikas S, Asmit S. Varietal performance and economic viability of cucumber under different plant growth regulator and spacing regimes in a polyhouse. Plant Science Today. 2026; 13(sp2): 1-6.. <https://doi.org/10.14719/pst.14091>

Supplementary Table 1. Detailed cost of cultivation, common operational expenses, material inputs and treatment-wise expenditure for protected cultivation of cucumber under different plant growth regulator treatments

Sl. No.	Operation/particular	Units	Rate (Rs. unit ⁻¹)	Cost (Rs. 500 m ⁻²)	Cost (Rs. ha ⁻¹)
Common cost					
1	Nursery (labour cost)				
	Nursery preparation and sowing	1 man days	350	700	14000
2	Polyhouse labour				
	Ploughing and planking (tractor)	2 hr	450 hr ⁻¹	900	18000
	Bed preparation	2 men days	350	700	14000
	Transplanting	4 men days	350	1400	28000
	Fertigation	6 men days	350	2100	42000
	Weeding	3 men days	350	1050	21000
	Pruning and trellising	4 men days	350	1400	28000
	Spraying (insecticides and pesticides)	4 men days	350	1400	28000
	Picking & harvesting	10 men days	350	3500	70000
	Transportation	5 men days	350	1750	35000
3	Material inputs				
	Seed	300 seeds	4 per seed	1200	24000
	Vermicompost	2 kg	8 kg ⁻¹	16	320
	Insecticides & pesticides				1000
	(i) Imidacloprid	10 mL	500 100 mL ⁻¹	50	1000
	(ii) Dithane M-45	10 g	360 kg ⁻¹	3.6	72
	(iii) Rogor	10 mL	94 100 mL ⁻¹	9.4	188
4	Miscellaneous			500	10000
	Working capital (1 to 4)			16679	333580
	Interest on working capital at 12 % per annum	4 months		667.16	13343.2
	Maintenance cost (10 %) of working capital)			1667.9	33358
	Management charges (10 %)			1667.9	33358
	Risk charges (10 %)			1667.9	33358
	Rental value of land	4 months		833.35	16667
	Total			23183.21	463664.2
Treatment cost					
Sl. No.	Operations/particulars	Units	Cost (Rs. ha ⁻²)		
1	NAA	25 ppm	1026.24		
2	NAA	50 ppm	2052.48		
3	GA ₃	10 ppm	2462		
4	GA ₃	20 ppm	4124		
5	Ethrel	100 ppm	1582.08		
6	Ethrel	200 ppm	2382.08		
7	Ethrel + GA ₃	100 ppm + 10 ppm	4044.08		
8	NAA + GA ₃	25 ppm + 10 ppm	3488.24		
9	NAA + Ethrel	25 ppm + 100 ppm	2608.32		
10	Control (water spray)	0	0		

NAA: Naphthalene acetic acid; GA₃: Gibberellic acid; Ethrel: Ethephon.

