

CROP ECONOMICS

Polyhouse Type: Naturally Ventilated Polyhouse

Crop: ORCHID (DENDROBIUM)

Area of Polyhouse: 4000 Sq. mtr. (1.0 Acre)

Sr. No.	Item	Description	Amount
	Area of Polyhouse	4000	
A	Polyhouse Construction	Naturally Ventilated Polyhouse as per National Horticulture Board norms: Totally GI pipe structure & imported Polyethylene @ Rs. 750 /- per Sq. mtr.	3,000,000
B		Orchid is shade loving plant. It needs 30 % extra black shadenet for more shading purpose.	100,000
C	Drip Irrigation System	Drip Irrigation system for plants. Fogging system to maintain the temperature and Humidity in Polyhouse. Fertigation unit and Water Filtration unit	300,000
D	Growing System (Bed Preparation)	Table stand with Wire ropes: Rs. 7 Lakh Concrete Blocks: Rs. 6 Lakh Coco shells: Rs. 2 Lakh	1,500,000
E	Tissue culture Plants	Plant Density: 11.25 plants / Sq. Mtr. Total No. of Plants: 45,000 Nos. Cost per Plant: Rs. 40 / plant	1,800,000
	Total Investment	Rs.	6,700,000
F	Cost of Cultivation per Year		
	Water requirement	0.7 litre / plant / day + Misting + Spraying	100,000
	Electricity & Generator	3.0 unit per day	100,000
	Fertilizers	Water Soluble fertilizers	120,000
	Labour	2 - 4 labours per day	336,000
	Crop Protection	Spraying	60,000
	Packing Material, Transport, Sales Commission	Flower packing and transport to market	540,000
	Miscellaneous	Maintainance, Depreciation etc.	670,000
	Supervision	Rs. 12,000 / month	144,000
	Sub total	Rs.	2,070,000
F	Returns per Year		
	Yield / Plant / Year	6	270,000
	Flower Production	1st Year: 3 Nos, 2nd Year: 6 Nos., 3rd Year: 7 Nos., 4th & 5th Year: 8 Nos., 6th & 7th Year: 5 Nos.	
	Price per Flower Rs.	14	14.00
	Total Returns	Per Year	3,780,000
	Cost of Cultivation	Per Year	2,070,000
	Net Return	Per Year	1,710,000

Note: The above calculations are indicative only.