

Techno economic parameters - Cultivation of *Gloriosa superba*

<b>Planting material:</b>						
Spacing	1.5 m x 0.20 m					
Plant Population per acre	13000					
Seed rate (kg per acre)	700					
Cost of Rhizomes (Rs per kg)	150					
Cost of planting material (Rs.)	105000					
<b>Manures and fertilizers</b>		Quantity	Cost	Total		
FYM (tonnes per acre)	10	750	7500			
Nitrogen (kg per acre)	60	11	660			
Phosphorus (kg per acre)	25	21	525			
Potassium (kg per acre)	40	8	320			
Total Cost of on manure and fertilizer per year			9005			
<b>Irrigation</b>						
No of Irrigation required per year/acre	20					
<b>Plant Protection</b>						
Particulars	Year 1	Year 2	Year 3	Year 4		
No.of litres	6	6	6	6		
Cost per litre	600	600	600	600		
Total cost of Plant Protection chemicals	3600	3600	3600	3600		
<b>Support system:</b>						
Particulars	Qty	Price/unit	Total			
Stone pillars	50	50	2500			
GI Wire 14	445	35	15575			
Binding wire	10	25	250			
Bamboo posts	5	1000	5000			
Erection charges	10	1300	5040			
Total			28365			
<b>Labour costs</b>						
Male labour (Rs./manday)	120					
Female labour (Rs./manday)	80					
<b>Labour requirements (man days per acre)</b>						
Particulars	Year 1	Year 2	Year 3	Year 4	Year 5	
Land Preparation (two ploughings @ Rs 450 per hour)	15					
Ridge and furrow making	15	0	0	0	0	
Application of FYM	6	5	0	0	0	
Planting of Rhizomes	10	0	0	0	0	
Application of manures and fertilizers	5	10	10	10	10	
Irrigation	45	10	10	10	10	
Application of plant protection chemicals	5	10	10	10	10	
Weeding	20	20	20	20	20	
Hand pollination	15	15	15	15	15	
Harvesting	10	10	10	10	10	
Drying	4	4	4	4	4	
Total labour(man days)	150	80	75	75	75	
<b>Yield</b>						
Yield of seeds (kg)						
Year 1	150					
Year 2	200					
Year 3	300					
Year 4	250					
Year 5	250					
Yield of rhizomes (kg) during Year 5	1000					
Sale price of seeds (Rs./kg)	600					