PROJECT REPORT ON

Coriander under Greenhouse

SUBMITTED BY

Promoter Name:
Xxxxxxxxxxxx

Project Location:
xxxxxxxxxxxxxxx

Prepared By:
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C O N T E N T S

CHAPTER - I

ABOUT THE PROMOTER

1. Name of Firm : xxxxxxxxxxxxxx
2. Name of Promoter : xxxxxxxxxxxxxx
3. Address(Residence) : xxxxxxxxxxxxxx
4. Contact Number : xxxxxxxxxxxxxx
5. Project Location (Addr.) :xxxxxxxxxxxxxx

CHAPTER – II

PROJECT DESCRIPTION

Field preparation and sowing:

Prepare the main field to a fine tilth and form beds and channels (for irrigated crop). Sow the split seeds at a spacing of 20 x 15 cm. The seeds will germinate in about 8-15 days.

Presowing seed hardening treatment with Potassium Dihydrogen Phosphate @ 10g/lit of water for 16 hours is to be done for rainfed crop. Seeds are to be treated with *Azospirillum* @ 3 packets/ha. Seed treatment with *Trichoderma viride* @ 4 g/kg of seed has to be done to control wilt disease.

Seed rate:

10 - 12 kg/ha (Irrigated crop)

20 – 25 kg/ha (Rainfed crop)

Whole seed will not germinate and hence the seeds are split open into halves before sowing for more germination percentage.

Seed Treatment:

Soak the seeds in water for 12 hours. Treat the seeds with Azospirillum @ 1.5 kg /ha for better crop establishment + *Trichoderma viride* @ 50 kg/ha to control wilt disease.

Pre sowing seed hardening treatment with Potassium Dihydrogen Phosphate @ 10 g/lit of water for 16 hours is to be done for rainfed crop.

Field preparation and sowing:

- Prepare the main field to a fine tilth.
- Add FYM 10 t/ha before last ploughing.
- Form beds and channels (for irrigated crop).
- Show the split seeds at a spacing of 20 x 15 cm.
- Spray pre-emergence herbicide Fluchloralin 700 ml in 500 lit of water per ha .
- The seeds will germinate in about 8-15 days.

Manuring:

Basal
FYM 10 t/ha; 10 kg N, 40 kg P and 20 kg K for rainfed and irrigated crops.

Top dressing
Top dressing may be done at 10 kg N/ha 30 days after sowing for the irrigated crop only**.**

Irrigation (for irrigated crop only):

First irrigation should be given immediately after sowing and the second on the third day and subsequent irrigations

at 7-10 days interval.

Aftercultivation:

Pre-emergence spray of herbicide Fluchloralin 700 ml in 500 lit/ha. Thinning is done 30 days after sowing. Subsequent we
Leave 2 plants per hill. Spray CCC @ 250 ppm one month after sowing for inducing drought tolerance in rainfed crops.

Plant protection:
Aphid
Aphids can be controlled by spraying Methyl demeton 20 EC @ 2 ml/lit or Dimethoate 30 EC @ 2 ml/lit.

Diseases:

Powdery mildew:

Seed treatment with Pseudomonas fluorescens (Pf 1) @ 10 g /kg and foliar spray of Pf1 2 g/lit or Spray Wettable sulphur 1 kg/ha or Dinocap 250 ml/ha at the time of initial appearance of the disease and 2nd spray at 10 days interval. Neem seed kernel extracts 5 % spray thrice (1st spray immediately after the appearance of disease, 2nd and 3rd at 10 days interval).

Wilt
Seed treatment with *Pseudomonas fluorescens* @10g /kg followed by soil application of Pf1 @ 5 kg /ha

Grain mould
Grain mould can be controlled by spraying Carbendazim 0.1% (500 g/ha) 20 days after grain set.

Harvest:
The plants are pulled just when the fruits are fully ripe but green and start drying. The plants are dried and thrashed with sticks, winnowed and cleaned. For leaf, pull out the plants when they are 30-40 days old.

CHAPTER – III

MARKET POTENTIAL

Marketing of Coriander is the crucial factor for the success of the project. There is tremendous potential for cultivating Coriander through poly houses. In India, Coriander is grown for its mature fruits and is widely used as salad. It has attained a status of high value crop in India in the recent years and occupies a pride place among vegetables in Indian cuisine, because of its delicate taste and rich content of ascorbic acid and other vitamins and minerals.

Coriander consumption in India is increasing now-a-days due to increasing demand by urban consumers. There is a good demand for export too. The export market needs fruits with longer shelf life, medium size, tetra lobed fruits with an attractive dark colour, mild pungency and good taste. But, the supply is inadequate due to low productivity of the crop. But there is increased demand for Coriander by the consumers and lot of farmers are also showing interest in the cultivation of this crop under protected conditions, as this type is having definite qualitative and quantitative advantage over the traditional cultivation.

CHAPTER – IV

SWOT ANALYSIS

Strengths:

- Domestic market for Coriander is growing.
- The Governments have identified vegetables in polyhouse as a sunrise sector and are providing strong support through various policies and schemes.

WEAKNESS:

- High capital investment
- Demand fluctuate according to different seasons
- Unavailability of skilled manpower
- Incidence of pest and diseases many a times becomes unmanageable.
- Poor marketing linkage and poor market infrastructure.
- Non-availability of adequate quality planting material.
- Poor post-harvest management infrastructure. Due to the perishable nature of the products it's important to have enough transportation and good logistics facilities.
- Negligence to research relating to technical factors

OPPORTUNITY:

- There is tremendous demand for Coriander due to the growing popularity of western life style
- Access to metropolises like Kolkata, Chennai, Mumbai and Delhi etc. and other big cities enhances the possibilities for tapping market of these states.
- Growing consumer base with higher income is expected to add demand in new market
- Availability of new and unique varieties

THREATS:

- Uncertainty in weather conditions and frequent occurrence of natural calamities like cyclone and drought.
- Uncertainty about market stability
- Exploitation by middlemen in the market chain.
- High incidence of pest and diseases.

V. ECONOMICS OF THE PROJECT

A. PROJECT PROFILE (Financial)

Sr. No.	PARAMETERS	VALUE
1	Unit Size in sq.m.	20,000
2	Product	Coriander
3	Cost of the project	2,05,35,500
4	Bank loan	1,54,01,625
5	Margin money	51,33,875
6	Financial Indicators	
	BCR at 15% DF	1.18 :1
	NPW at 15% DF Rs.	35,91,088
	I R R %	36
7	Average DSCR	1.8
8	Interest Rate (% per annum)	12
9	Repayment	5 years

B. BASIS & PRESUMPTIONS

Sr. No.	Particular	Unit	Quantity
I.	**Techno-economic parameters**		
	Payback period		5 years
	Rate of interst	%	12
II.	**Expenditure norms**		
	Fertilizer per annum	Rs./Sq. M.	5
	Pesticides per annum	Rs./Sq. M.	5
	No of semiskilled workers	Nos.	2
	Cost of one semiskilled worker per annum	Rs.	72,000
II.	**Income norms**		
	Sale price of Coriander	Rs./Kg	100
	Yield per 1000 sqm per crop cycle	Kg.	600
	Crop cycles per pear		4

Subsidy receives @ 50% from N.H.B. treated as F.D. in bank @ 6%

This amount of subsidy is used for repayment of loan

C. TOTAL COST OF PROJECT

Sr. No.	Particular	Unit	Unit Rate in Rs.	Quantity	Amount in Rs.
I.	**Cost of Polyhouse**	Sq.m.	800	20,000	1,60,00,000
II.	**Initial Planting cost**				
	Bed material & preparation	Rs./sq.m.	50	20,000	10,00,000
	Fertilizers & mannures	Rs./sq.m.	5	20,000	1,00,000
	Manpower & supervision	Rs./sq.m.	50	20,000	10,00,000
	Irrigation system (with drip)	Rs./sq.m.	100	20,000	20,00,000
					41,00,000
III.	**Cost of grading/pack hous**	Sq. ft.	650	670	4,35,500
			TOTAL		**2,05,35,500**

D. MEANS OF FINANCE

Sr. No.	Particular	Unit	Quantity	Amount in Rs.
1	Term loan	%	75	1,54,01,625
2	Own contribution	%	25	51,33,875
			TOTAL	**2,05,35,500**
3	Subsidy entitlement @ 50% from NHB			**1,02,67,750**

E. PROJECTION OF PERFORMANCE & PROFITABILITY

Sr. No.	Particular	Unit	Unit rate in Rs.	Quantity	I year	II year	III year	IV year	V year
I.	**Income**								
a.	Sale of Cucumber								
	Yield per crop cycle	Kg			12,000	12,000	12,000	12,000	12,000
	Total yield per annum (Crop cycles per anuum- 4)	Kg			48,000	48,000	48,000	48,000	48,000
	Selling price	Rs./kg			100	100	100	100	100
	Total Income	Rs.			48,00,000	48,00,000	48,00,000	48,00,000	48,00,000
b.	Interest on Subsidy @ 6%				6,16,065	6,16,065	6,16,065	6,16,065	6,16,065
c.	Subsidy				0	0	0	0	1,02,67,750
				TOTAL (B)	**54,16,065**	**54,16,065**	**54,16,065**	**54,16,065**	**1,56,83,815**
II.	**Expenditure**								
a.	Cost of Raw Materials								
	Planting material for 4 crop cycle	per sq.m.	5	20,000	1,00,000	1,00,000	1,00,000	1,00,000	1,00,000
	Fertilisers	per sq.m.	5	20,000	1,00,000	1,00,000	1,00,000	1,00,000	1,00,000
	Pesticides & fungicides	per sq.m.	5	20,000	1,00,000	1,00,000	1,00,000	1,00,000	1,00,000
b.	Cost of Consumbles								
	Packaging material	per kg	0.50	48,000	24,000	24,000	24,000	24,000	24,000
c.	Cost of Utilities								
	Electricity, Water	per month	2,500	12	30,000	30,000	30,000	30,000	30,000
d.	Cost of Manpower								
	Semiskilled workers	per annum	72,000	2	1,44,000	1,44,000	1,44,000	1,44,000	1,44,000
e.	Overhead Expenses								
	Transportation	per month	1000	12	12,000	12,000	12,000	12,000	12,000
	Marketing expenses 1% of sales				48,000	48,000	48,000	48,000	48,000
				TOTAL (A)	**5,58,000**	**5,58,000**	**5,58,000**	**5,58,000**	**5,58,000**
III	**Net Income**			**TOTAL (A+B)**	**48,58,065**	**48,58,065**	**48,58,065**	**48,58,065**	**1,51,25,815**

F. Financial Analysis

Particulars	I year	II year	III year	IV year	V year
Capital Costs	2,05,35,500				
Recurring cost	5,58,000	5,58,000	5,58,000	5,58,000	5,58,000
Total Cost	**2,10,93,500**	**5,58,000**	**5,58,000**	**5,58,000**	**5,58,000**
Benefit	54,16,065	54,16,065	54,16,065	54,16,065	1,56,83,815
Depreciated value of buildings @ 10%					2,54,985
Depreciated value of Machinery & equipments @ 15%					77,13,000
Total Benefit	**54,16,065**	**54,16,065**	**54,16,065**	**54,16,065**	**2,36,51,800**
Net Benefit	**-1,56,77,435**	**48,58,065**	**48,58,065**	**48,58,065**	**2,30,93,800**
Discounting Factor@ 15%	0.87	0.76	0.66	0.57	0.50
NPV cost at 15% DF	1,83,51,345	4,24,080	3,68,280	3,18,060	2,79,000
NPV benefits at 15% DF	47,11,977	41,16,209	35,74,603	30,87,157	78,41,908
NPW at 15% DF	**35,91,088**				
BCR at 15% DF	**1.18 :1**				
IRR %	**35.76**				

G. Term Loan Repayment

Rate of interst - % per annum **:** 12

Opening balance of term loan **:** 1,54,01,625

Year	Loan Outstanding	Gross Surplus	Principal	Interest	Total Repayment	Net Surplus	DSCR
1	1,54,01,625	48,58,065	3080325	1848195	4928520	-70,455	1.0
2	1,23,21,300	48,58,065	3080325	1478556	4558881	2,99,184	1.1
3	92,40,975	48,58,065	3080325	1108917	4189242	6,68,823	1.2
4	61,60,650	48,58,065	3080325	739278	3819603	10,38,462	1.3
5	30,80,325	1,51,25,815	3080325	369639	3449964	1,16,75,851	4.4
						Avg. DSCR	**1.8**