

## **PROJECT PROFILE FOR COIR VERTICAL GARDEN UNIT**

<b>PRODUCT</b>	<b>:</b>	<b>SETTING UP OF VERTICLE GARDEN</b>
<b>PRODUCTION CAPACITY (P.A) (100% CAPACITY)</b>	<b>:</b>	<b>75 ASSIGNMENTS</b>
<b>VALUE</b>	<b>:</b>	<b>RS.187.50LAKHS</b>
<b>MONTH &amp; YEAR OF PREPARATION</b>	<b>:</b>	<b>JUNE 2018</b>
<b>PREPARED BY</b>	<b>:</b>	<b>COIR BOARD, MINISTRY OF MSME, GOVT OF INDIA</b>

### **• INTRODUCTION**

Vertical Garden is the term used to refer to all form of vegetated wall surfaces. Green walls are not only spectacularly beautiful, but also helpful in enlivening the ambiance. It can absorb heated gas in the air, lower both indoor and outdoor temperature, providing a healthier indoor air quality as well as a more beautiful space. They hold or slow rainwater, providing food and shelter for wildlife.

Agriculture intensification and diversification is achieved and would lead to increased cropping intensity, productivity through better health and nutritional management and sustainable use of land and water resources.

### **• PROCESS OF MANUFACTURE**

The use of Vertical garden with C-POM will advantageous to the beneficiaries especially nursery industry to increase yield, uniform & better quality crops, reduction in labour cost, reduction in fertilizer cost, low water requirement, less chances of disease attack, thus reduction in disease control cost and less area to get maximum yield and benefits.

Some plants are able to grow on walls by taking root in the substance of the wall itself. Typical of these are the small herbaceous species such as ivy-leaved toadflax, wallflower and plants such as mosses, lichens and grasses. But other species are naturally adapted for climbing up and over obstacles such as rock faces, trees and shrubs. For these to grow successfully on walls and buildings some kind of support structure is usually essential. Also Green walls can be constructed with many systems.

## **BASIS AND PRESUMPTIONS**

- The Project Profile is based on 8 working hours for 1 shift in a day and 300 days in a year and the Break Even efficiency has been calculated on 70%, 80%, 90%, 90% and 100% capacity utilization.
- The rate of interest both for fixed asset and working capital have been taken as 12.5% p.a.

## **• TECHNICAL ASPECTS**

Installed Production capacity per year	:	75 assignments
Number of Shift per day	:	1
Working days p.a	:	300 days
Capacity Utilization		
-First year	:	70%
-Second year	:	80%
-Third year	:	90%
-Fourth year	:	90%

-Fifth year	:	100%
Rate of Average Sales Realization	:	Rs. 250000 /- per assignment
Rate of Average cost of raw material	:	Rs.210000/- per assignment
Interest on term Loan	:	12.50%
Interest on working capital	:	12.50%
<b>Manpower requirement</b>		
Supervisor	:	1
Unskilled worker	:	10

• **FINANCIAL ASPECTS**

**i) Cost of Project**

		Amount
• Land	:	Lease/owned
• Building	:	Rs. 250000/-
• Machinery & Equipments	:	Rs.250000/-
• Working Capital	:	Rs.133000/-
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<b>Total</b>	<b>:</b>	<b>Rs. 633000/-</b>
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Sl.	Description of machines & equipments	Amount
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No		(Rs)
1	Sprinkler	
2	Drilling machine	
3	Welding set, Polishing Machine	
4	Weighing balance	
5	Cutting machine	
6	Table, Desk etc.	
<b>Total</b>		250000.00

## ii) Means of Finance

• Promoters Capital	5%	:	Rs.32000/-
• Bank Term loan	95%	:	Rs.475000/-
• WC Loan from Bank	95%	:	Rs.126000/-
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<b>Total</b>		:	<b>Rs.633000/-</b>
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## DETAILS OF THE PROFITABILITY OF THE PROJECT

Rs.in Lakhs

Years		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
Installed Production capacity per year	Assignment	75	75	75	75	75
Number of shift/day		1	1	1	1	1
Working days per annum		300	300	300	300	300
Capacity utilization		70%	80%	90%	90%	100%
Annual production quantity		53	60	68	68	75
<b>Annual Sales Realization</b>	Rs. 250,000	131.25	150.00	168.75	168.75	187.50
Cost of Production						
Cost of raw material	Rs. 210,000	110.25	126.00	141.75	141.75	157.50
Wages & salary		11.34	12.96	14.58	14.58	16.20
<b>Cost of Production</b>		<b>121.59</b>	<b>138.96</b>	<b>156.33</b>	<b>156.33</b>	<b>173.70</b>
<b>Gross Profit</b>		<b>9.66</b>	<b>11.04</b>	<b>12.42</b>	<b>12.42</b>	<b>13.8</b>
Administrative & selling expenses	2.00%	2.63	3.00	3.38	3.38	3.75
Interest on Term Loan		0.49	0.53	0.44	0.15	0.07
Interest on Working capital		0.16	0.16	0.16	0.16	0.16
Depreciation of machinery		0.25	0.25	0.25	0.25	0.25
Depreciation of Building		0.13	0.13	0.13	0.13	0.13
<b>Total</b>		<b>3.66</b>	<b>4.07</b>	<b>4.36</b>	<b>4.07</b>	<b>4.36</b>
<b>Net Profit</b>		<b>6.01</b>	<b>6.98</b>	<b>8.07</b>	<b>8.36</b>	<b>9.45</b>

### ESTIMATION OF BREAK EVEN POINT

Rs in Lakhs

Particulars	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
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	70%	80%	90%	90%	100%
Break-even point	46%	44%	41%	36%	34%
Break even Production	24	26	28	24	25

- DEBT SERVICE COVERAGE RATIO**

Rs in Lakhs

<b>Particulars</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
Capacity Utilization	70%	80%	90%	90%	100%
DSCR	7.97	6.30	7.66	10.21	12.69
Average DSCR	8.97				
DSCR weighted average	8.62				

- WORKING CAPITAL REQUIREMENTS**

Rs in Lakhs

<b>Particulars</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
	70%	80%	90%	90%	100%
Variable Cost	121.59	138.96	156.33	156.33	173.70
Fixed Cost	3.66	4.07	4.36	4.07	4.36
Working capital gap	1.33	1.53	1.73	1.76	1.98

