

# PROJECT REPORT

Of

## BAMBOO STICKS PRODUCTION

### PURPOSE OF THE DOCUMENT

This particular pre-feasibility is regarding **Bamboo Sticks Production**.

The objective of the pre-feasibility report is primarily to facilitate potential entrepreneurs in project identification for investment and in order to serve his objective; the document covers various aspects of the project concept development, start-up, marketing, finance and management.

[We can modify the project capacity and project cost as per your requirement. We can also prepare project report on any subject as per your requirement.]



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**PROJECT AT A GLANCE**

- 1 Name of the Entrepreneur : xxxxxxxxxx
- 2 Constitution (legal Status) : xxxxxxxxxx
- 3 Father / Spouse Name : xxxxxxxxxxxxxx
- 4 Unit Address : xxxxxxxxxxxxxxxxxxxxxxxxxx
- District : xxxxxxxx  
Pin: xxxxxxxx State: xxxxxxxxxx  
Mobile xxxxxxxx
- 5 Product and By Product : **BAMBOO STICKS**
- 6 Name of the project / business activity proposed : **BAMBOO STICKS PRODUCTION UNIT**
- 7 Cost of Project : Rs.17.77 Lakhs
- 8 Means of Finance  
Term Loan Rs.11 Lakhs  
Own Capital Rs.1.78 Lakhs  
Working Capital Rs.5 Lakhs
- 9 Debt Service Coverage Ratio : 2.53
- 10 Pay Back Period : 5 Years
- 11 Project Implementation Period : 5-6 Months
- 12 Break Even Point : 51%
- 13 Employment : 16 Persons
- 14 Power Requirement : 25 HP
- 15 Major Raw materials : Bamboo Poles
- 16 Estimated Annual Sales Turnover (Max Utilized Capacity) : 82.97 Lakhs
- 17 Detailed Cost of Project & Means of Finance

**COST OF PROJECT**

(Rs. In Lakhs)

Particulars	Amount
Land	Own/Rented
Building /Shed 2000 Sq ft	Own/Rented
Plant & Machinery	11.04
Furniture & Fixtures	1.18
Working Capital	5.55
<b>Total</b>	<b>17.77</b>

**MEANS OF FINANCE**

Particulars	Amount
Own Contribution	1.78
Term Loan	11.00
Working Capital	5.00
<b>Total</b>	<b>17.77</b>

## PROJECT REPORT ON BAMBOO STICKS PRODUCTION UNIT FOR INCENSE STICKS



### EXECUTIVE SUMMARY

Agarbatti/Incense Sticks production is a well-established cottage industry and is a 5 crore worth growing market in India. Base material for incense sticks is bamboo stick which accounts for one third of its weight. Cost of bamboo is only about one percent of the final finished product but is the most essential raw material for agarbatti production. However due to shortage of gregarious flowering of the major species of bamboo used in stick production i.e. Muli bamboo, there can be shortage of raw material and decrease in supply of sticks. Further, due to decrease in import duty from 30% to 10% on bamboo sticks, 70% of bamboo needs of agarbatti industry are fulfilled by imported bamboo sticks from China and Vietnam. The imported bamboo sticks are better with respect to uniformity of dimensions and quality because of large scale mechanization.

Bamboo Mission is focusing on development of bamboo sector through encouraging bamboo plantations and introducing mechanization. Now, with focus of Govt. on this sector the Industry move to mechanized stick production process as a full-fledged business activity.

## INTRODUCTION

In India, the burning of incense in religious and social functions across all communities is being practiced since early times. Agarbatti which was once a staple feature of Indian devotional activities has now branched out as products associated with aromatherapy, meditation and yoga. Agarbatti sector of India is largest in the world. Agarbatti production is a well-established cottage industry and is a 5 crores worth growing market in India.

Though India is second in bamboo production, a large part of agarbatti industry is importing 70% of its bamboo needs. Despite availability of a large number of species of bamboo, the most commonly used species for stick production are *M. Baccifera* (Muli), *Bambusa vulgaris* (Bari), *Bambusa tulda* (Mritinga), *Bambusa balcooa* (Barak) and *Dendrocalamus longispatus* (Rupai) .

As compared to manual sticks produced in India, the imported bamboo sticks on the whole are better with respect to uniformity of dimensions and quality

## THE PROJECT

Stick making process in India is moving towards mechanization. However, countries like China and Vietnam are producing mechanized sticks. The present project is for establishment of round bamboo sticks production unit for agarbattis by using mechanized process. Agarbatti industry uses two kinds of bamboo sticks- square and round. By manual process only square sticks are produced. However, with rising exports, demand for round bamboo sticks has risen. The length of sticks vary from 8 to 10 inches, however majority of incense sticks (70 to 80%) is 8 inches (20.32cm). The units shall procure bamboo sticks from the collectors who collect the bamboos from the forest as well as from growers of bamboo plantations and produce round sticks of 8”to 9” by mechanized process as demanded by the Indian agarbatti sector using high processing technology. High processing technology will maximize utilization of bamboo material and produce quality output. This will help the entrepreneur to compete with the sticks imported from China and Vietnam. Still wastage of bamboo (nodes, green strips, fibers etc.) is estimated to be 40%. These wastes can be used as fuel for drying unit of bamboo sticks. Selling the waste to bamboo charcoal unit shall also be explored for effective waste management.

## **STRATEGIES:**

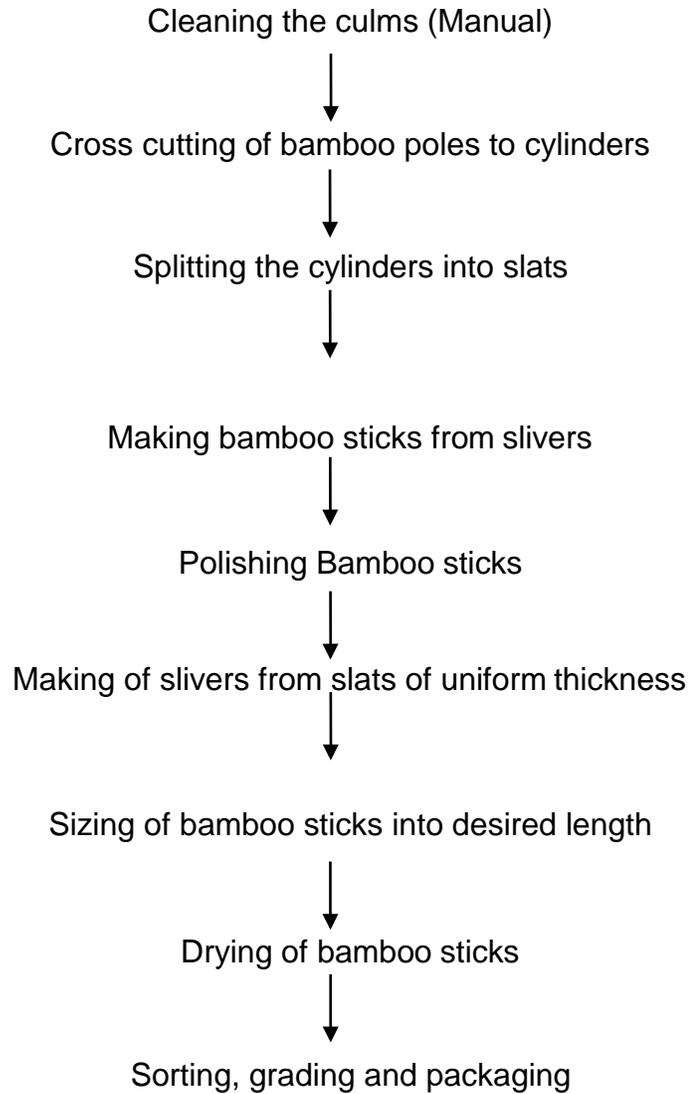
Following strategies shall be followed for implementation of the project:

1. Proper monitoring of quality at each stage from procurement of raw material to packaging of finished product by applying proper supervision and quality checks.
  2. Procurement of latest machinery for mechanizing the entire process.
- 
3. Market surveys for production of stick as per market trend at competitive price.
  4. Branding of the bamboo sticks.
  5. Tie-ups with e-commerce websites and logistic partners.
  6. Coordination with various Govt. agencies for Training and support.
  7. Participation in trade fairs

## **FEASIBILITY ASSESSMENT:**

**Technical Analysis:** The location of the Unit near the raw material site is an advantage as the raw material is available in abundance. Secondly, well connected districts with roads will aid in transportation/ distribution of finished goods to be easy as well as cheap. Labour is easily available at a cheaper cost. The labours are involved in manual stick making as a part-time activity therefore transition to mechanized stick making won't be a difficulty as they already know the basic flow of the process.

As per the requirement of agarbatti industry the project aims to produce 8" and 9" round bamboo sticks by following a mechanized process. The process of making bamboo sticks by mechanized process involves the following steps:



The machines used for the above processes are as follows:

Process	Machinery
Cross cutting of bamboo poles to cylinders	Bamboo cross cutting machine
Splitting the cylinders into slats	Bamboo manual splitter machine
Making of slivers from slats of uniform thickness	Bamboo heavy duty sliver making machine
Making bamboo sticks from slivers	Bamboo round stick machine
Polishing Bamboo sticks	Bamboo stick polishing machine
Sizing of bamboo sticks into desired length	Bamboo sticks sizing machine
Drying of bamboo sticks	Open air or Dryer machine

Latest machines with desired parameters will be imported from suppliers of China or Vietnam. List of required machines along with estimated price is given at Annexure I.

Generally, these bamboo sticks will be packed in bundles of one kg. However the packaging can be modified as per precise demand and requirement of the buyers. Heavy rainfall occurs from July to September and as the bamboos regenerate during this period therefore the production activity will only be for 9 months in a year. Capacity utilization of the unit can be 80% for the first 5 years.

- **Commercial Feasibility:** Only raw material for production of bamboo sticks is bamboo pole which is available in abundance. With policy initiatives focusing on bamboo plantations, availability of raw material can be assured.
- **Market Analysis:** There is a huge requirement of bamboo sticks from India agarbatti market and quality bamboo sticks sell like a hot cake. India accounts for over 70% consumption of the world incense stick market. Indian agarbatti market amounts to Rs.6000 crore out of which Rs.2000 crore is in organized market.
- The incense stick makers range from small fragmented units to small factories to FMCG giants. Between FY2012 and FY2016, India exported agarbattis worth \$498.02 million. In addition, annual exports witnessed an 11.57% growth during the same period, from \$89.64 million in FY2012 to \$100.02 million in FY2016.

**INDUSTRY ANALYSIS:**

SWOT Analysis of bamboo stick industry of India is as follows:

<p style="text-align: center;"><b><u>STRENGTHS</u></b></p> <ul style="list-style-type: none"><li>a. Availability of abundant raw material</li><li>b. Availability of local skill for making bamboo sticks</li><li>c. Trade relations already with end user industry</li><li>d. Low labour cost</li><li>e. No substitute for bamboo sticks likely to be available for end user industry.</li></ul>	<p style="text-align: center;"><b><u>WEAKNESSES</u></b></p> <ul style="list-style-type: none"><li>a. Industry in the clutches of a few traders</li><li>b. Bargaining power of bamboo stick maker is low.</li><li>c. Lack of entrepreneurial talent to drive a local industry</li></ul>
<p style="text-align: center;"><b><u>OPPORTUNITIES</u></b></p> <ul style="list-style-type: none"><li>a. Ever growing domestic market</li><li>b. Introduction to mechanization for improving the productivity.</li><li>c. Initiatives of the Govt. for development of the sector through infrastructure development, increasing bamboo plantations and capacity building under its scheme of Bamboo Mission.</li></ul>	<p style="text-align: center;"><b><u>THREATS</u></b></p> <ul style="list-style-type: none"><li>a. High Competition from China and Vietnam</li><li>b. Change in Govt. policies</li><li>c. Shortage of raw material due to gregarious flowering of Bamboos</li></ul>

**PROJECTED BALANCE SHEET**

<b>PARTICULARS</b>	<b>I</b>	<b>II</b>	<b>III</b>	<b>IV</b>	<b>V</b>
<b><u>SOURCES OF FUND</u></b>					
<b><u>Capital Account</u></b>					
Opening Balance	-	2.54	3.41	5.49	8.75
Add: Additions	1.78	-	-	-	-
Add: Net Profit	1.76	2.88	5.08	7.26	9.53
Less: Drawings	1.00	2.00	3.00	4.00	6.00
<b>Closing Balance</b>	<b>2.54</b>	<b>3.41</b>	<b>5.49</b>	<b>8.75</b>	<b>12.27</b>
CC Limit	5.00	5.00	5.00	5.00	5.00
Term Loan	9.78	7.33	4.89	2.44	-
Sundry Creditors	0.42	0.48	0.54	0.61	0.68
<b>TOTAL :</b>	<b>17.73</b>	<b>16.22</b>	<b>15.91</b>	<b>16.80</b>	<b>17.95</b>
<b><u>APPLICATION OF FUND</u></b>					
<b>Fixed Assets ( Gross)</b>	12.22	12.22	12.22	12.22	12.22
Gross Dep.	1.77	3.29	4.58	5.68	6.62
Net Fixed Assets	10.45	8.93	7.64	6.54	5.60
<b>Current Assets</b>					
Sundry Debtors	3.80	4.46	5.05	5.68	6.36
Stock in Hand	2.43	2.68	3.00	3.35	3.72
Cash and Bank	1.05	0.14	0.22	1.23	2.28
<b>TOTAL :</b>	<b>17.73</b>	<b>16.22</b>	<b>15.91</b>	<b>16.80</b>	<b>17.95</b>
	-	-	-	-	-

**PROJECTED PROFITABILITY STATEMENT**

<b>PARTICULARS</b>	<b>I</b>	<b>II</b>	<b>III</b>	<b>IV</b>	<b>V</b>
<b><u>A) SALES</u></b>					
Gross Sale	49.59	58.20	65.83	74.07	82.97
<b>Total (A)</b>	<b>49.59</b>	<b>58.20</b>	<b>65.83</b>	<b>74.07</b>	<b>82.97</b>
<b><u>B) COST OF SALES</u></b>					
Raw Mateiral Consumed	18.00	20.48	23.18	26.06	29.16
Electricity Expenses	3.24	3.51	3.78	4.05	4.32
Repair & Maintenance	0.25	0.29	0.33	0.37	0.41
Labour & Wages	13.66	15.03	16.53	18.18	20.00
Depreciation	1.77	1.51	1.29	1.10	0.94
<b>Cost of Production</b>	<b>36.92</b>	<b>40.82</b>	<b>45.11</b>	<b>49.76</b>	<b>54.84</b>
<b>Add: Opening Stock /WIP</b>	-	1.23	1.32	1.46	1.61
<b>Less: Closing Stock /WIP</b>	1.23	1.32	1.46	1.61	1.77
Cost of Sales (B)	35.69	40.73	44.98	49.61	54.67
<b>C) GROSS PROFIT (A-B)</b>	<b>13.90</b>	<b>17.48</b>	<b>20.85</b>	<b>24.46</b>	<b>28.30</b>
	<b>28.03%</b>	<b>30.03%</b>	<b>31.68%</b>	<b>33.02%</b>	<b>34.11%</b>
D) Bank Interest (Term Loan )	1.19	0.97	0.71	0.44	0.17
ii) Interest On Working Capital	0.55	0.55	0.55	0.55	0.55
E) Salary to Staff	7.92	8.71	9.58	10.54	11.60
F) Selling & Adm Expenses Exp.	2.48	4.37	4.94	5.56	6.22
<b>TOTAL (D+E)</b>	<b>12.14</b>	<b>14.60</b>	<b>15.78</b>	<b>17.08</b>	<b>18.54</b>
<b>H) NET PROFIT</b>	<b>1.76</b>	<b>2.88</b>	<b>5.08</b>	<b>7.38</b>	<b>9.76</b>
	<b>3.5%</b>	<b>4.9%</b>	<b>7.7%</b>	<b>10.0%</b>	<b>11.8%</b>
I) Taxation	-	-	-	0.12	0.24
<b>J) PROFIT (After Tax)</b>	<b>1.76</b>	<b>2.88</b>	<b>5.08</b>	<b>7.26</b>	<b>9.53</b>

**PROJECTED CASH FLOW STATEMENT**

<b>PARTICULARS</b>	<b>I</b>	<b>II</b>	<b>III</b>	<b>IV</b>	<b>V</b>
<b><u>SOURCES OF FUND</u></b>					
Own Contribution	1.78	-			
Net Profit	1.76	2.88	5.08	7.38	9.76
Depreciation & Exp. W/off	1.77	1.51	1.29	1.10	0.94
Increase In Cash Credit	5.00				
Increase In Term Loan	11.00	-	-	-	-
Increase in Creditors	0.42	0.06	0.06	0.07	0.07
<b>TOTAL :</b>	<b>21.72</b>	<b>4.45</b>	<b>6.43</b>	<b>8.55</b>	<b>10.78</b>
<b><u>APPLICATION OF FUND</u></b>					
Increase in Fixed Assets	12.22	-	-	-	-
Increase in Stock	2.43	0.25	0.32	0.34	0.37
Increase in Debtors	3.80	0.66	0.58	0.63	0.68
Repayment of Term Loan	1.22	2.44	2.44	2.44	2.44
Taxation	-	-	-	0.12	0.24
Drawings	1.00	2.00	3.00	4.00	6.00
<b>TOTAL :</b>	<b>20.67</b>	<b>5.36</b>	<b>6.35</b>	<b>7.54</b>	<b>9.74</b>
Opening Cash & Bank Balance	-	1.05	0.14	0.22	1.23
Add : Surplus	1.05	- 0.91	0.09	1.01	1.04
Closing Cash & Bank Balance	<b>1.05</b>	<b>0.14</b>	<b>0.22</b>	<b>1.23</b>	<b>2.28</b>

**COMPUTATION OF BAMBOO STICKS PRODUCTION UNIT****Items to be Manufactured BAMBOO STICKS**

Manufacturing Capacity per Day		300.00	KG
No. of Working Hour		8	
No of Working Days per month		25	
No. of Working Day per annum		300	
Total Production per Annum		90,000	KG
Year		Capacity	STICKS PRODUCTION UNIT
		Utilisation	
I		60%	54,000
II		65%	58,500
III		70%	63,000
IV		75%	67,500
V		80%	72,000

**COMPUTATION OF RAW MATERIAL**

Item Name	Quantity of Raw Material	Unit	Unit Rate of	Total CostPer Annum (100%)
Bamboo Poles (Approx 6 kg in Weight Total Wt 180000 Kg) (2500 Pole per month for 12 months)	30,000.00	POLES	100.00	3,000,000.00
Total	<b>30,000.00</b>			<b>3,000,000.00</b>

Total Raw material in Rs lacs at 100% Capacity 30.00  
Average Cost per KG (In Rs) **33.33**

Raw Material Consumed	Capacity Utilisation	Rate	Amount (Rs.)
I	60%	33.33	18.00
II	65%	35.00	20.48
III	70%	36.80	23.18
IV	75%	38.60	26.06
V	80%	40.50	29.16

**COMPUTATION OF CLOSING STOCK & WORKING CAPITAL**

<b>PARTICULARS</b>	<b>I</b>	<b>II</b>	<b>III</b>	<b>IV</b>	<b>V</b>
<b><u>Finished Goods</u></b>					
(10 Days requirement)	1.23	1.32	1.46	1.61	1.77
<b><u>Raw Material</u></b>					
(20 Days requirement)	1.20	1.37	1.55	1.74	1.94
<b>Closing Stock</b>	<b>2.43</b>	<b>2.68</b>	<b>3.00</b>	<b>3.35</b>	<b>3.72</b>

**COMPUTATION OF WORKING CAPITAL REQUIREMENT**

<b>Particulars</b>	<b>Amount</b>	<b>Margin(10%)</b>	<b>Net Amount</b>
Stock in Hand	2.43		
Less:			
Sundry Creditors	0.42		
<b>Paid Stock</b>	<b>2.01</b>	<b>0.20</b>	<b>1.81</b>
Sundry Debtors	3.80	0.38	3.42
<b>Working Capital Requirement</b>			<b>5.23</b>
<b>Margin</b>			0.58
<b>MPBF</b>			<b>5.23</b>
<b>Working Capital Demand</b>			<b>5.00</b>

**BREAK UP OF LABOUR**

Particulars	Wages	No of	Total
	Per Month	Employees	Salary
Supervisor	20,000.00	1	20,000.00
Plant Operator	15,000.00	1	15,000.00
Unskilled Worker	8,500.00	6	51,000.00
Helper	5,000.00	2	10,000.00
Security Guard	7,500.00	1	7,500.00
			103,500.00
Add: 10% Fringe Benefit			10,350.00
Total Labour Cost Per Month			113,850.00
Total Labour Cost for the year ( In Rs. Lakhs)		11	13.66

**BREAK UP OF SALARY**

Particulars	Salary	No of	Total
	Per Month	Employees	Salary
Accountant cum store keeper	10,000.00	1	10,000.00
Administrative Staffs	12,500.00	4	50,000.00
Total Salary Per Month			60,000.00
Add: 10% Fringe Benefit			6,000.00
Total Salary for the month			66,000.00
Total Salary for the year ( In Rs. Lakhs)		5	7.92

**COMPUTATION OF DEPRECIATION**

Description	Land	Building/shed	Plant & Machinery	Furniture	TOTAL
Rate of Depreciation			<b>15.00%</b>	<b>10.00%</b>	
<b>Opening Balance</b>		Own/Rented	-	-	-
Addition	-		11.04	1.18	12.22
	-		11.04	1.18	12.22
TOTAL		-	11.04	1.18	12.22
Less : Depreciation	-	-	1.66	0.12	1.77
WDV at end of Ist year	-	-	9.38	1.06	10.45
Additions During The Year	-	-	-	-	-
	-	-	9.38	1.06	10.45
Less : Depreciation	-	-	1.41	0.11	1.51
WDV at end of IIInd Year	-	-	7.98	0.96	8.93
Additions During The Year	-	-	-	-	-
	-	-	7.98	0.96	8.93
Less : Depreciation	-	-	1.20	0.10	1.29
WDV at end of IIIrd year	-	-	6.78	0.86	7.64
Additions During The Year	-	-	-	-	-
	-	-	6.78	0.86	7.64
Less : Depreciation	-	-	1.02	0.09	1.10
WDV at end of IV year	-	-	5.76	0.77	6.54
Additions During The Year	-	-	-	-	-
	-	-	5.76	0.77	6.54
Less : Depreciation	-	-	0.86	0.08	0.94
WDV at end of Vth year	-	-	4.90	0.70	5.60

**REPAYMENT SCHEDULE OF TERM LOAN**

11.0%

Year	Particulars	Amount	Addition	Total	Interest	Repayment	CI Balance
<b>I</b>	Opening Balance						
	Ist Quarter	-	11.00	11.00	0.30	-	11.00
	IInd Quarter	11.00	-	11.00	0.30	-	11.00
	IIIrd Quarter	11.00	-	11.00	0.30	0.61	10.39
	Ivth Quarter	10.39	-	10.39	0.29	0.61	9.78
					1.19	1.22	
<b>II</b>	Opening Balance						
	Ist Quarter	9.78	-	9.78	0.27	0.61	9.17
	IInd Quarter	9.17	-	9.17	0.25	0.61	8.55
	IIIrd Quarter	8.55	-	8.55	0.24	0.61	7.94
	Ivth Quarter	7.94		7.94	0.22	0.61	7.33
					0.97	2.44	
<b>III</b>	Opening Balance						
	Ist Quarter	7.33	-	7.33	0.20	0.61	6.72
	IInd Quarter	6.72	-	6.72	0.18	0.61	6.11
	IIIrd Quarter	6.11	-	6.11	0.17	0.61	5.50
	Ivth Quarter	5.50		5.50	0.15	0.61	4.89
					0.71	2.44	
<b>IV</b>	Opening Balance						
	Ist Quarter	4.89	-	4.89	0.13	0.61	4.28
	IInd Quarter	4.28	-	4.28	0.12	0.61	3.67
	IIIrd Quarter	3.67	-	3.67	0.10	0.61	3.06
	Ivth Quarter	3.06		3.06	0.08	0.61	2.44
					0.44	2.44	
<b>V</b>	Opening Balance						
	Ist Quarter	2.44	-	2.44	0.07	0.61	1.83
	IInd Quarter	1.83	-	1.83	0.05	0.61	1.22
	IIIrd Quarter	1.22	-	1.22	0.03	0.61	0.61
	Ivth Quarter	0.61		0.61	0.02	0.61	0.00
					0.17	2.44	

Door to Door Period      60 Months  
Moratorium Period        6 Months  
Repayment Period         54 Months

**CALCULATION OF D.S.C.R**

<b>PARTICULARS</b>	<b>I</b>	<b>II</b>	<b>III</b>	<b>IV</b>	<b>V</b>
<b><u>CASH ACCRUALS</u></b>	3.53	4.39	6.37	8.36	10.47
Interest on Term Loan	1.19	0.97	0.71	0.44	0.17
Total	4.73	5.36	7.08	8.80	10.64
<b><u>REPAYMENT</u></b>					
Repayment of Term Loan	1.22	2.44	2.44	2.44	2.44
Interest on Term Loan	1.19	0.97	0.71	0.44	0.17
Total	2.41	3.42	3.15	2.88	2.61
<b>DEBT SERVICE COVERAGE RATIO</b>	<b>1.96</b>	<b>1.57</b>	<b>2.25</b>	<b>3.05</b>	<b>4.07</b>
<b>AVERAGE D.S.C.R.</b>			<b>2.53</b>		

**COMPUTATION OF SALE**

Particulars	I	II	III	IV	V
Op Stock	-	1,800.00	1,950.00	2,100.00	2,250.00
Production	54,000.00	58,500.00	63,000.00	67,500.00	72,000.00
	54,000.00	60,300.00	64,950.00	69,600.00	74,250.00
Less : Closing Stock(10 Days)	1,800.00	1,950.00	2,100.00	2,250.00	2,400.00
Net Sale	52,200.00	58,350.00	62,850.00	67,350.00	71,850.00
Avg Sale Price per KG	95.00	99.75	104.74	109.98	115.48
<b>Sale (in Lacs)</b>	<b>49.59</b>	<b>58.20</b>	<b>65.83</b>	<b>74.07</b>	<b>82.97</b>

**COMPUTATION OF ELECTRICITY****(A) POWER CONNECTION**

Total Working Hour per day	Hours	8	
Electric Load Required	KW	25	
Load Factor			
Electricity Charges	per unit	7.50	
Total Working Days		300	
<b>Electricity Charges</b>			4.50
Add : Minimim Charges (@ 10%)			

**(B) DG set**

No. of Working Days		300	days
No of Working Hours		0.5	Hour per day
Total no. of Hour		150	
Diesel Consumption per Hour		8	
Total Consumption of Diesel		1,200	
Cost of Diesel		65.00	Rs. /Ltr
Total cost of Diesel		0.78	
Add : Lube Cost @15%		0.12	
Total		<b>0.90</b>	
Total cost of Power & Fuel at 100%			5.40

Year	Capacity	Amount (in Lacs)
I	60%	3.24
II	65%	3.51
III	70%	3.78
IV	75%	4.05
V	80%	4.32

## **DISCLAIMER**

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