PROJECT REPORT

Of

Mosquito Liquid Repellent

PURPOSE OF THE DOCUMENT

This particular pre-feasibility is regarding Mosquito Liquid Repellent.

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.]



<u>Lucknow Office</u>: Sidhivinayak Building , 27/1/B, Gokhlley Marg, Lucknow-226001

<u>Delhi Office</u>: Multi Disciplinary Training Centre, Gandhi Darshan Rajghat,

New Delhi 110002

Email: info@udyami.org.in Contact: +91 7526000333, 444, 555

PROJECT AT A GLANCE

1 Name of the Entreprenuer xxxxxxxxxx
2 Constitution (legal Status) : xxxxxxxxxx
3 Father / Spouse Name xxxxxxxxxxxx

District : xxxxxxx

Pin: xxxxxxx State: xxxxxxxxx

Mobile xxxxxxx

5 Product and By Product : **Mosquito Liquid Repellent**

6 Name of the project / business activity proposed : Mosquito Liquid Repellent Manufacturing Unit

7 Cost of Project : Rs.12.42 Lakhs

8 Means of Finance

Term Loan Rs.6.48 Lakhs
Own Capital Rs.1.24 Lakhs
Working Capital Rs.4.7 Lakhs

9 Debt Service Coverage Ratio : 2.45

10 Pay Back Period : 5 Years

11 Project Implementation Period : 5-6 Months

12 Break Even Point : 48%

13 Employment : 12 Persons

14 Power Requirement : 25 HP

15 Major Raw materials : Citronella oil, Eucalyptus Oil, Comphor oil, Lavender Oil, Lemongrass oil

Estimated Annual Sales Turnover (Max Utilized

16 Capacity) : 113.00 Lakhs

17 Detailed Cost of Project & Means of Finance

COST OF PROJECT (Rs. In Lakhs)

Particulars	Amount
Land	Own/Rented
Building /Shed 1500 Sq ft	Own/Rented
Plant & Machinery	6.20
Furniture & Fixtures	1.00
Working Capital	5.22
Total	12.42

MEANS OF FINANCE

Particulars	Amount
Own Contribution	1.24
Term Loan	6.48
Working Capital	4.70
Total	12.42

MOSQUITO LIQUID REPELLENT



<u>Introduction</u>

Mosquito repellents are used to repel mosquitoes. Liquid repellents are now widely used to repel mosquitoes. The Liquidator mosquito repellent has a graphite rod in the middle and the bottle is filled with the repellent. There is a heater coil in the liquidator. The repellent chemical when comes in to contact with the heated rod turns into fume which disables the sensors of the mosquitoes. The fumes produced by the repellent blocks the chemo sensors of mosquitoes so that they cannot identify human beings.

A mosquito repellent is a substance designed to keep away mosquitoes, thereby preventing them from biting humans and feeding on human blood. It typically contains an active ingredient that repels mosquitoes and secondary ingredients that, among other things, dilute the active ingredient to a desired concentration and help in releasing the active ingredient when needed. Mosquito repellents are available as creams, lotions, oils, and sticks, which are applied directly on the skin. They also come as aerosol and pump-spray products, which are used on the skin and to treat clothing. Mosquito repellents are different from insecticides in that the latter are used to kill insects.

Repelling action

A mosquito repellent consists of active and inert, or inactive, ingredients. The active ingredient is mainly responsible for the product's usefulness,

that is, it effectively discourages mosquito attacks on the treated human skin and/or clothing. The inert ingredients are not chemically active. They are added to the product to perform different functions. For example, fragrances make the product cosmetically acceptable.

Characteristics of Mosquito Repellent

- Active against a wide variety of biting mosquitos.
- Prolonged activity (remain effective for at least 8 hours between applications).
- Non-irritating to the skin and mucous membranes.
- No systemic toxicity
- Resistant to abrasion, washing and sweating.

Factors Impacting world mosquito repellent market

- Marketing and positioning strategies
- Rise in the demand of Herbal based products
- Rise in global temperature
- Increasing awareness
- Health vulnerabilities
- Rising Mosquito borne diseases.

Manufacturing process of mosquito repellent

Since most mosquito repellents are marketed in the form of liquid, the following steps describe the production of repellents contained in liquid form. The manufacturing process consists of two steps—the production of a large batch of the repellent formula and its packaging into bottles. However, the filling process is not as complex.

- Cold blending
- Add all the chemicals in proportionate ratio.
- Mixing of the all ingredients

- Settling of the mixed material for minimum 6 Hours
- Testing of the product.
- Filling
- Packaging

Mosquito repellent Market Analysis

With over many species of mosquitoes believed to be responsible for spreading diseases such as malaria, dengue fever and other mosquito related afflictions, India has a large and growing market for mosquito repellents. Many methods are used in households for dealing with the mosquito menace. In spite of the pervasiveness of the mosquito problem, the use of repellents in India is fairly low. The urban share of mosquito repellents is 70%.

The mosquito repellent market is one of the rapidly growing vibrant markets in FMCG sector India. Due to increase awareness regarding vector borne disease, the demand for mosquito repellent products like coils, strips, liquid vaporizers, etc. are rising than before, thereby providing high momentum to the Indian Mosquito repellent market. Mosquito Repellent has become a gripping market for new product developments and innovation where producers are trying to convince consumers through aggressive campaign and advertising that they should adopt mosquito repellent products to improve home hygiene and to be protected from mosquito borne disease.

Description of Machinery & Equipment

Following machineries are required for manufacturing of Liquid repellent:

- Mixer tank
- Blending machine
- Liquid Transfer pump
- Filing machine
- Packaging machine

Label machine

With the help of this machine the work of formulation (mixing & blending), filling & packaging completes in a very short span.

Land &Building required:

Land required 1000 square feet

Approximate rent for the same is Rs. 20,000 per month.

Machinery & Equipment's required:

Name	Cost (Rs.)
Mixer tank (100 Litre batch production)	1,00,000
Filling machine	1,25,000
Liquid transfer pump with motor	55,000
Blending machine	85,000
Packaging & labelling machine	1,60,000
Sub total	5,25,000
GST @ 18%	94,500
Total Machine cost	6,19,500

• Cost of the machine is other than transportation cost.

Raw Material Requirement

Most common natural repellents used are oils extracted from plants. These natural products will effectively repel mosquitoes, but they require more frequent reapplication (at least every 2 hours). Citronella Oil, Lemon, Eucalyptus Oil, Cinnamon Oil, Castor Oil, Rosemary Oil, Lemongrass Oil,

Cedar Oil, Peppermint Oil, Clove Oil, Garlic Oil etc are found to be effective against mosquitoes.

Following raw material is required as the major raw material for the Liquid repellent manufacturing process.

S.N.	Description	Amount
1	Citronella oil	Rs.1400 Per KG
2	Eucalyptus Oil	Rs.1200 Per KG
3	Comphor oil	Rs.800 Per KG
4	Lavender Oil	Rs.1200 Per KG
5	Lemongrass oil	Rs.1200 Per KG
6	IPA (Isopropyl Alcohol)	Rs.100 Per litre
7	Bakayan oil	Rs.300 Per KG

[❖] Average raw material cost per batch of 100 litre is approx. Rs.24,000

[❖] Cost per litre is Rs.240

PROJECTED BALANCE SHEET PARTICULARS I II III III IV SOURCES OF FUND Capital Account Opening Balance - 1.73 2.29 3.76 Add: Additions 1.24 - - - Add: Net Profit 0.99 1.36 2.72 3.72 Less: Drawings 0.50 0.80 1.25 2.00 Closing Balance 1.73 2.29 3.76 5.48 CC Limit 4.70 4.70 4.70 4.70 Term Loan 5.76 4.32 2.88 1.44 Sundry Creditors 0.63 0.73 0.83 0.95 TOTAL: 12.82 12.04 12.18 12.57 1	5.48 - 6.17 4.00 7.65 4.70 - 1.07
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Sundry Creditors 0.63 0.73 0.83 0.95	1.07
APPLICATION OF FUND	
Fixed Assets (Gross) 7.20 7.20 7.20 7.20	7.20
Gross Dep. 1.03 1.91 2.66 3.31 Net Fixed Assets 6.17 5.29 4.54 3.89	3.86
0.17 5.29 4.34 5.09	3.34
Current Assets	
Sundry Debtors 1.50 1.80 2.05 2.31	2.64
Stock in Hand 4.36 4.88 5.54 6.27	7.07
Cash and Bank 0.79 0.07 0.05 0.10	0.38
TOTAL	10.10
TOTAL : 12.82 12.04 12.18 12.57 1	13.42
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PARTICULARS	1	II	III	IV	V
A) CALEC					
A) SALES Gross Sale	64.13	77.20	87.83	99.07	113.00
Total (A)	64.13	77.20	87.83	99.07	113.00
B) COST OF SALES					
Raw Mateiral Consumed	37.80	43.73	50.04	56.94	64.47
Electricity Expenses	2.13	2.34	2.55	2.77	2.98
Repair & Maintenance	0.32	0.39	0.44	0.50	0.56
Labour & Wages	8.12	8.93	9.82	10.81	11.89
Depreciation Cost of Production	1.03 49.40	0.88	0.75	0.64	0.55
Cost of Production	49.40	56.26	63.61	71.65	80.45
Add: Opening Stock /WIP	-	2.47	2.69	3.04	3.42
Less: Closing Stock /WIP	2.47	2.69	3.04	3.42	3.84
Cost of Sales (B)	46.93	56.04	63.26	71.27	80.03
C) GROSS PROFIT (A-B)	17.20	21.16	24.58	27.80	32.97
, ,	26.82%	27.41%	27.98%	28.06%	29.17%
D) Bank Interest (Term Loan)	0.70	0.57	0.42	0.26	0.10
ii) Interest On Working Capital	0.52	0.52	0.52	0.52	0.52
E) Salary to Staff	8.58	9.44	10.38	11.42	12.56
F) Selling & Adm Expenses Exp.	6.41	9.26	10.54	11.89	13.56
TOTAL (D+E)	16.21	19.79	21.85	24.08	26.74
H) NET PROFIT	0.99	1.36	2.72	3.72	6.23
,	1.5%	1.8%	3.1%	3.8%	5.5%
I) Taxation	-	-	-	-	0.06
J) PROFIT (After Tax)	0.99	1.36	2.72	3.72	6.17

PROJECTED CASH FLOW STAT	<u>EMENT</u>				
PARTICULARS	ı	II	III	IV	V
SOURCES OF FUND					
Own Contribution	1.24	-			
Net Profit	0.99	1.36	2.72	3.72	6.23
Depreciation & Exp. W/off	1.03	0.88	0.75	0.64	0.55
Increase In Cash Credit	4.70				
Increase In Term Loan	6.48	- 0.10	- 0.11	- 0.12	- 0.12
Increase in Creditors TOTAL:	0.63 15.07	0.10 2.34	0.11 3.58	0.12 4.48	0.13 6.90
TOTAL .	10.07	2.54	3.30	7.70	0.50
APPLICATION OF FUND					
Increase in Fixed Assets	7.20	-	-	-	_
Increase in Stock	4.36	0.52	0.67	0.73	0.80
Increase in Debtors	1.50	0.31			0.32
Repayment of Term Loan	0.72	1.44	1.44	1.44	1.44
Taxation	-	-	-	-	0.06
Drawings TOTAL :	0.50 14.28	0.80 3.06	1.25 3.60	2.00 4.43	4.00 6.62
	1-1120	0.00	0.00	-110	0.02
Opening Cash & Bank Balance	-	0.79	0.07	0.05	0.10
Add : Surplus	0.79	0.72	0.02	0.05	0.28
Closing Cash & Bank Balance	0.79	0.07	0.05	0.10	0.38
Closing Cash & Bank Balance	0.73	0.07	0.03	0.10	0.30

COMPUTATION OF MOSQUITO LIQUID REPELLENT MANUFACTURING UNIT

Items to be Manufactured Mosquito Liquid Repellent

Manufacturing Capacity per Day	100.00	ltr
No. of Working Hour	8	
No of Working Days per month	25	
No. of Working Day per annum	300	
Total Production per Annum	30,000	ltr
Total Production per Annum	300,000.00	Bottle of 100ml
Year	Capacity	Liquid Repellent
	Utilisation	
I	50%	150,000
II	55%	165,000
III	60%	180,000
IV	65%	195,000
V	70%	210,000

COMPUTATION OF RAW MATERIAL

Item Name	Quantity of Raw Material	Unit	Unit Rate of	Total CostPer Annum (100%)
Gram Chana	31,500.00	ltr	240.00	7,560,000.00
Total	31,500.00			7,560,000.00

Total Raw material in Rs lacs at 100% Capacity 75.60

Cost per 100 ml Bottle (In Rs) 25.20

Raw Material Consumed	Capacity Utilisation	Rate Amo	ount (Rs.)
I	50%	25.20	37.80
II	55%	26.50	43.73
III	60%	27.80	50.04
IV	65%	29.20	56.94
V	70%	30.70	64.47

COMPUTATION OF SALE

Particulars	I	II	III	IV	٧
Op Stock	-	7,500.00	8,250.00	9,000.00	9,750.00
Production	150,000.00	165,000.00	180,000.00	195,000.00	210,000.00
	150,000.00	172,500.00	188,250.00	204,000.00	219,750.00
Less : Closing Stock(15 Days)	7,500.00	8,250.00	9,000.00	9,750.00	10,500.00
Net Sale	142,500.00	164,250.00	179,250.00	194,250.00	209,250.00
Sale Price per 100 ml Bottle	45.00	47.00	49.00	51.00	54.00
Sale (in Lacs)	64.13	77.20	87.83	99.07	113.00

COMPUTATION OF CLOSING STOCK & WORKING CAPITAL

PARTICULARS	1	=	ш	IV	٧
		-		-	
Finished Goods					
(15 Days requirement)	2.47	2.69	3.04	3.42	3.84
Raw Material					
(15 Days requirement)	1.89	2.19	2.50	2.85	3.22
		-		-	
Closing Stock	4.36	4.88	5.54	6.27	7.07

COMPUTATION OF WORKING CAPITAL REQUIREMENT

Particulars	Amount	Margin(10%)	Net
			Amount
Stock in Hand	4.36		
Less:			
Sundry Creditors	0.63		
Paid Stock	3.73	0.37	3.36
Sundry Debtors	1.50	0.15	1.35
Working Capital Requ	irement		4.70
Margin			0.52
MPBF			4.70
Working Capital Dema	and		4.70

BREAK UP OF LABOUR

Particulars	Wages	No of	Total
	Per Month	Employees	Salary
Plant Operator	15,000.00	1	15,000.00
Unskilled Worker	8,500.00	4	34,000.00
Helper	5,000.00	1	5,000.00
Security Guard	7,500.00	1	7,500.00
			61,500.00
Add: 10% Fringe Benefit			6,150.00
Total Labour Cost Per Month			67,650.00
Total Labour Cost for the year (In Rs. Lakhs)		7	8.12

BREAK UP OF SALARY

Particulars	Salary	No of	Total
	Per Month	Employees	Salary
Accountant cum store keeper	15,000.00	1	15,000.00
Administrative Staffs	12,500.00	4	50,000.00
Total Salary Per Month			65,000.00
Add: 10% Fringe Benefit			6,500.00
Total Salary for the month			71,500.00

Total Salary for the year (In Rs. Lakhs)		5	8.58

COMPUTATION OF DEPRECIATION

Description	Land	Building/shed	Plant & Machinery	Furniture	TOTAL
		<u> </u>	<u> </u> '	 	<u> </u>
Rate of Depreciation			15.00%	10.00%	
Opening Balance	Ov	wn/Rented	-	- '	-
Addition	-		6.20	1.00	7.20
	-		6.20	1.00	7.20
			1	[
TOTAL		-	6.20	1.00	7.20
Less : Depreciation	-	-	0.93	0.10	1.03
WDV at end of 1st year	-	-	5.27	0.90	6.17
Additions During The Year	-	-	'	'	
<u> </u>	-	-	5.27	0.90	6.17
Less : Depreciation	-	-	0.79	0.09	0.88
WDV at end of IInd Year	-	-	4.48	0.81	5.29
Additions During The Year	-	-	'	'	-
<u> </u>	-	-	4.48	0.81	5.29
Less : Depreciation	-	-	0.67	0.08	0.75
WDV at end of IIIrd year	-	-	3.81	0.73	4.54
Additions During The Year	-	-	!	'	-
	-	-	3.81	0.73	4.54
Less : Depreciation	-	-	0.57	0.07	0.64
WDV at end of IV year	-	-	3.24	0.66	3.89
Additions During The Year			-	<u> </u>	-
F		-	3.24	0.66	3.89
Less : Depreciation	-	-	0.49	0.07	0.55
WDV at end of Vth year	-		2.75	0.59	3.34

RFPAYMENT	SCHEDULE	OF TERM LOAN	

11.0%

Year	Particulars	Amount	Addition	Total	Interest	Repayment	CI Balance
ı	Opening Balance						
	Ist Quarter	-	6.48	6.48	0.18	-	6.48
	lind Quarter	6.48	-	6.48	0.18	-	6.48
	IIIrd Quarter	6.48	-	6.48	0.18	0.36	6.12
	lvth Quarter	6.12	-	6.12	0.17	0.36	5.76
					0.70	0.72	
II	Opening Balance						
	Ist Quarter	5.76	-	5.76	0.16	0.36	5.40
	lind Quarter	5.40	-	5.40	0.15	0.36	5.04
	IIIrd Quarter	5.04	-	5.04	0.14	0.36	4.68
	lvth Quarter	4.68		4.68	0.13	0.36	4.32
					0.57	1.44	
Ш	Opening Balance						
	Ist Quarter	4.32	-	4.32	0.12	0.36	3.96
	lind Quarter	3.96	-	3.96	0.11	0.36	3.60
	IIIrd Quarter	3.60	-	3.60	0.10	0.36	3.24
	lvth Quarter	3.24		3.24	0.09	0.36	2.88
					0.42	1.44	
ΙV	Opening Balance						
	Ist Quarter	2.88	-	2.88	0.08	0.36	2.52
	lind Quarter	2.52	-	2.52	0.07	0.36	2.16
	IIIrd Quarter	2.16	-	2.16	0.06	0.36	1.80
	lvth Quarter	1.80		1.80	0.05	0.36	1.44
					0.26	1.44	
٧	Opening Balance						
	Ist Quarter	1.44	-	1.44	0.04	0.36	1.08
	lind Quarter	1.08	-	1.08	0.03	0.36	0.72
	IIIrd Quarter	0.72	-	0.72	0.02	0.36	0.36
	lvth Quarter	0.36		0.36	0.01	0.36	
					0.10	1.44	

Door to Door Period Moratorium Period Repayment Period

60 Months6 Months54 Months

CALCULATION OF D.S.C.R

PARTICULARS	ı	II	III	IV	V
	0.00			4.00	0.70
CASH ACCRUALS	2.02	2.25	3.47	4.36	6.72
Interest on Term Loan	0.70	0.57	0.42	0.26	0.10
Total	2.72	2.82	3.89	4.62	6.82
<u>REPAYMENT</u>					
Repayment of Term Loan	0.72	1.44	1.44	1.44	1.44
Interest on Term Loan	0.70	0.57	0.42	0.26	0.10
Total	1.42	2.01	1.86	1.70	1.54
DEBT SERVICE COVERAGE RATIO	1.91	1.40	2.10	2.72	4.43
AVERAGE D.S.C.R.			2.45		

COMPUTATION OF ELECTRI	RICITY
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COMPUTATION OF EL	ECTRICITY	<u>′</u>		
(A) POWER CONNECT	<u>ION</u>			
Total Working Hour per	day	Hours	8	
Electric Load Required		HP	25	
Load Factor			0.7460	
Electricity Charges		per unit	7.50	
Total Working Days			300	
Electricity Charges				3.36
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 pe	r Hour		8	
Total Consumption of D	iesel		1,200	
Cost of Diesel			65.00	Rs. /Ltr
Total cost of Diesel			0.78	
Add: Lube Cost @15%	1		0.12	
Total			0.90	
Total cost of Power & Fu	luel at 100%			4.25
Year		Capacity		Amount
		, ,		(in Lacs)
1		50%		2.13
<u>'</u> 		55%		2.13
''		60%		2.55
IV		65%		2.77
V		70%		2.98



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