

PROJECT REPORT

Of

AUTOMATIC MIST BASED SANITIZER DISPENSER MACHINE

PURPOSE OF THE DOCUMENT

This particular pre-feasibility is regarding **Automatic Mist Based Sanitizer Dispenser Machine**.

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 : xxxxxxxxx
- 2 Constitution (legal Status) : xxxxxxxxx
- 3 Father / Spouse Name : xxxxxxxxx
- 4 Unit Address : xxxxxxxxxxxxxxxxxxxxxxxxx
- District : xxxxxx
Pin: xxxxxx State: xxxxxxxxx
Mobile : xxxxxx
- 5 Product and By Product : **AUTOMATIC MIST SANITIZER DISPENSING MACHINE**
- 6 Name of the project / business activity proposed : **AUTOMATIC MIST SANITIZER DISPENSING MACHINE UNIT**
- 7 Cost of Project : Rs.19.78 Lakhs
- 8 Means of Finance
Term Loan Rs.10.8 Lakhs
Own Capital Rs.1.98 Lakhs
Working capital Rs.7 Lakhs
- 9 Debt Service Coverage Ratio : 2.90
- 10 Pay Back Period : 5 Years
- 11 Project Implementation Period : 5-6 Months
- 12 Break Even Point : 39%
- 13 Employment : 8 Persons
- 14 Power Requirement : 10.00 HP
- 15 Major Raw materials : Pre-Assembled Electronic Board, Ultrasonic Sensor, ABS Enclosure with Sanitizer container, Electronic Solenoid Valve, Diaphragm pump, Mist atomizer, SMPS.
- 16 Estimated Annual Sales Turnover (Max Capacity) : 272.32 Lakhs
- 17 Detailed Cost of Project & Means of Finance

COST OF PROJECT

(Rs. In Lakhs)

Particulars	Amount	
	Own	Rented
Land		
Building / Shed 1500 Sq ft		5.00
Plant & Machinery		5.50
Furniture & Fixtures		1.50
Working Capital		7.78
Total		19.78

MEANS OF FINANCE

Particulars	Amount
Own Contribution	1.98
Working Capital(Finance)	7.00
Term Loan	10.80
Total	19.78

AUTOMATIC MIST BASED SANITIZER DISPENSING MACHINE

Introduction: Corona Virus disease (Covid19) is wreaking havoc in the world. Ever since WHO announced it as a Pandemic disease and many cities are under lockdown, people are not able to step out of their homes and already thousands have lost their lives. Automatic mist based sanitizer dispensing systems is very useful resource in the fight against corona virus. This contact less dispensing system helps to sanitize hands without getting in contact with the sanitizing surfaces and will help to reduce spread through cross contamination.

This contactless dispensing unit sprays alcohol based sanitizer when both hands are placed under it. The aerated mist based formula uses only 5- 6ml. of sanitizer ensuring optimum usage. It releases full cone spray mist for 12 seconds in single operation. Contactless technology works on Ultrasonic sensor to ensure zero touch, high operational precision to completely disinfect both hands at once. It could be wall mountable with LEDs displays to indicate on/off status and the progress of the process. The capacity tank ensures longer duration of usage thus eliminating hassle of refilling it frequently. The sanitizer container allows displaying the quantity in it.



Market Potential: This dispenser is contactless and will spray sanitizer for sanitization of hands while entering into the buildings like Hospitals, Office complexes, shopping Malls, auditoriums , public places, apartments, schools, colleges, places of workship, other public places etc. There are very few units manufacturing Automatic mist based sanitizer dispensing machine in India. In the present scenario, it is very much important to equip all public places with automatic sanitizer dispensing unit. Due to the spread of Covid-19, there is enough demand for this product.

Raw Material: Major raw material and parts are as follows:

1. Pre-assembled Electronic Board with Microcontroller
2. ABS Enclosure with Sanitizer container 8L
3. Ultrasonic Sensor
4. Electronic Solenoid valve
5. Diaphragm pump
6. Mist atomizer
7. SMPS
8. Connecting wires and other components
9. Packing Cartons

Machinery Requirement: Major machineries & equipments are as follows:

S No.	Machine	Unit	Rate	Price
1	Digital multi-meter	5	15000	75000
2	Digital liquid flow meter	2	12500	25000
3	Desktops i7 processor with 2TB HDD,8GB RAM and microcontroller programmer	4	75000	300000
4	Drilling machine	4	10000	40000

5.	Bench Grinder (Portable)	1	10000	10000
6.	Tool Kit, Temp. controlled soldering stations and accessories	Ls		100000
	Total Amount			550000

Manufacturing Process: The preassembled programmed microcontroller board and other Electro mechanical components are mounted inside the back compartment of ABS cabinet, electrical wiring and mechanical fittings are made. Switches, LEDs etc are fixed to the front side enclosure. Place the sanitizer tank having the required capacity (8L in this case) in the front compartment of ABS enclosure. Fix the mist atomizer and Ultrasonic sensor in the lower portion of the unit. The Automatic Mist based sanitizer Dispensing machine is tested for required performance by adding alcohol based sanitizer in the container and proper power source.

Area: The industrial setup requires space for Inventory, workshop or manufacturing area, space for power supply utilities and auxiliary like Generator setup. Also some of the area of building is required for office staff facilities, documentation, office furniture, etc. Thus, the approximate total area required for complete industrial setup is 2500 to 3000Sqft. Civil work cost will be Rs 5 Lac (Approx.) for 1500 Sqft.

Power Requirement: The power consumption required to run all the machinery could be approximated as 10 Hp

Manpower Requirement: There are requirement of skilled machine operators to run the machine set. Experience quality engineers are required for desired quality control. Some helpers are also required to transfer the material from one work station to other. Office staffs are required to maintain

the documentation. The approximate manpower required is 8 including 1 Supervisor, 1 Plant operator, 1 unskilled worker, 1 Helper and 1 Security guard. 3 Skilled worker including Accountant, Manager and Sales person.

Bank Term Loan: Rate of Interest is assumed to be at 11%

Depreciation: Depreciation has been calculated as per the Provisions of Income Tax Act, 1961

Approvals & Registration Requirement:

Basic registration required in this project:

- GST Registration
- Udyog Aadhar Registration (Optional)
- Choice of a Brand Name of the product and secure the name with Trademark if require.
- NOC from State Pollution Control Board

Implementation Schedule:

S No.	Activity	Time required
1.	Acquisition of premises	1-2 Months
2.	Procurement & installation of Plant & Machinery	1-2 Months
3.	Arrangement of Finance	1.5-2 Months
4.	Requirement of required Manpower	1 Month
5.	Commercial Trial Runs	1 Month
	Total time Required (some activities shall run concurrently)	5-6 Months

FINANCIALS

PROJECTED BALANCE SHEET					
PARTICULARS	I	II	III	IV	V
SOURCES OF FUND					
Capital Account					
Opening Balance	-	3.22	5.54	9.24	12.63
Add: Additions	1.98	-	-	-	-
Add: Net Profit	1.44	2.62	7.70	9.39	10.92
Less: Drawings	0.20	0.30	4.00	6.00	8.00
Closing Balance	3.22	5.54	9.24	12.63	15.55
CC Limit	7.00	7.00	7.00	7.00	7.00
Term Loan	9.60	7.20	4.80	2.40	-
Sundry Creditors	3.97	4.49	4.81	5.13	5.45
TOTAL :	23.78	24.23	25.84	27.16	28.00
APPLICATION OF FUND					
Fixed Assets (Gross)	12.00	12.00	12.00	12.00	12.00
Gross Dep.	1.48	2.76	3.88	4.86	5.72
Net Fixed Assets	10.53	9.24	8.12	7.14	6.28
Current Assets					
Sundry Debtors	4.31	4.99	5.50	5.92	6.35
Stock in Hand	8.25	9.27	10.13	10.87	11.62
Cash and Bank	0.70	0.73	2.10	3.23	3.74
TOTAL :	23.78	24.23	25.84	27.16	28.00

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PROJECTED PROFITABILITY STATEMENT					
PARTICULARS	I	II	III	IV	V
A) SALES					
Gross Sale	184.73	213.69	235.73	253.87	272.32
Total (A)	184.73	213.69	235.73	253.87	272.32
B) COST OF SALES					
Raw Material Consumed	170.04	192.28	206.01	219.74	233.48
Electricity Expenses	1.22	1.32	1.41	1.50	1.60
Repair & Maintenance	1.85	2.14	2.36	2.54	2.72
Labour & Wages	6.55	6.68	7.02	7.37	7.74
Depreciation	1.48	1.29	1.12	0.98	0.86
Cost of Production	181.14	203.70	217.92	232.14	246.39
Add: Opening Stock /WIP	-	5.41	6.07	6.69	7.21
Less: Closing Stock /WIP	5.41	6.07	6.69	7.21	7.73
Cost of Sales (B)	175.72	203.04	217.29	231.62	245.87
C) GROSS PROFIT (A-B)	9.01	10.65	18.43	22.25	26.44
	4.88%	4.98%	7.82%	8.76%	9.71%
D) Bank Interest (Term Loan)	1.17	0.96	0.69	0.43	0.17
ii) Interest On Working Capital	0.77	0.77	0.77	0.77	0.77
E) Salary to Staff	3.78	4.16	4.99	5.99	7.19
F) Selling & Adm Expenses Exp.	1.85	2.14	2.36	2.54	2.72
TOTAL (D+E)	7.57	8.02	8.81	9.73	10.84
H) NET PROFIT	1.44	2.62	9.62	12.52	15.60
I) Taxation	-	-	1.92	3.13	4.68
J) PROFIT (After Tax)	1.44	2.62	7.70	9.39	10.92

PROJECTED CASH FLOW STATEMENT					
PARTICULARS	I	II	III	IV	V
SOURCES OF FUND					
Own Contribution	1.98	-			
Reserve & Surplus	1.44	2.62	9.62	12.52	15.60
Depriciation & Exp. W/off	1.48	1.29	1.12	0.98	0.86
Increase In Cash Credit	7.00				
Increase In Term Loan	10.80	-	-	-	-
Increase in Creditors	3.97	0.52	0.32	0.32	0.32
TOTAL :	26.66	4.43	11.07	13.82	16.78
APPLICATION OF FUND					
Increase in Fixed Assets	12.00	-	-	-	-
Increase in Stock	8.25	1.03	0.85	0.74	0.75
Increase in Debtors	4.31	0.68	0.51	0.42	0.43
Repayment of Term Loan	1.20	2.40	2.40	2.40	2.40
Taxation	-	-	1.92	3.13	4.68
Drawings	0.20	0.30	4.00	6.00	8.00
TOTAL :	25.96	4.40	9.69	12.70	16.26
Opening Cash & Bank Balance	-	0.70	0.73	2.10	3.23
Add : Surplus	0.70	0.03	1.37	1.13	0.52
Closing Cash & Bank Balance	0.70	0.73	2.10	3.23	3.74

COMPUTATION OF MAKING OF AUTOMATIC MIST SANITIZER DISPENSER MACHINE			
Item to be Manufactured Automatic Mist Sanitizer Dispenser Machine			
Manufacturing Capacity per day		20	Pcs
No. of Working Hour		8	
No of Working Days per month		25	
No. of Working Day per annum		300	
Total Production per Annum		6,000	Pcs
Total Production per Annum		6,000	Pcs
Year		Capacity	AUTOMATIC MIST SANITIZER
		Utilisation	
I		65%	3,900.00
II		70%	4,200.00
III		75%	4,500.00
IV		80%	4,800.00
V		85%	5,100.00

COMPUTATION OF RAW MATERIAL					
Item Name	Quantity of Raw Material	Unit	Unit Rate	Total Cost Per Annum (100%)	
Pre-assembled Electronic Board with Microcontroller	6,000.00	No.s	500.00	30,00,000.00	
ABS Enclosure with Sanitizer container 8 L	6,000.00	No.s	900.00	54,00,000.00	
Ultrasonic Sensor	6,000.00	No.s	200.00	12,00,000.00	
Electronic Solenoid Valve	6,000.00	No.s	900.00	54,00,000.00	
Diaphragm pump	6,000.00	No.s	700.00	42,00,000.00	
Mist Atomizer	6,000.00	No.s	750.00	45,00,000.00	
SMPS	6,000.00	No.s	400.00	24,00,000.00	
Connecting wires & other components	Ls			30,000.00	
Packing Cartons	Ls			30,000.00	
Total				2,61,60,000.00	
Total Raw material in Rs lacs				261.60	

Raw Material Consumed	Capacity Utilisation	Amount (Rs.)	
I	65%	170.04	
II	70%	192.28	5% Increase in Cost
III	75%	206.01	5% Increase in Cost
IV	80%	219.74	5% Increase in Cost
V	85%	233.48	5% Increase in Cost

COMPUTATION OF SALE					
Particulars	I	II	III	IV	V
Op Stock	-	130.00	140.00	150.00	160.00
Production	3,900.00	4,200.00	4,500.00	4,800.00	5,100.00
	3,900.00	4,330.00	4,640.00	4,950.00	5,260.00
Less : Closing Stock(10 Days)	130.00	140.00	150.00	160.00	170.00
Net Sale	3,770.00	4,190.00	4,490.00	4,790.00	5,090.00
Sale Price per machine	4,900.00	5,100.00	5,250.00	5,300.00	5,350.00
Sale (in Lacs)	184.73	213.69	235.73	253.87	272.32

COMPUTATION OF CLOSING STOCK & WORKING CAPITAL					
PARTICULARS	I	II	III	IV	V
Finished Goods					
(10 Days requirement)	5.41	6.07	6.69	7.21	7.73
Raw Material					
(5 Days requirement)	2.83	3.20	3.43	3.66	3.89
Closing Stock	8.25	9.27	10.13	10.87	11.62

COMPUTATION OF WORKING CAPITAL REQUIREMENT			
Particulars	Amount	Margin(10%)	Net Amount
Stock in Hand	8.25		
Less:			
Sundry Creditors	3.97		
Paid Stock	4.28	0.43	3.85
Sundry Debtors	4.31	0.43	3.88
Working Capital Requirement			7.73
Margin			0.86
MPBF			7.73
Working Capital Demand			7.00

BREAK UP OF LABOUR				
Particulars		Wages	No of	Total
		Per Month	Employees	Salary
Supervisor		16,000.00	1	16,000.00
Plant Operator		12,000.00	1	12,000.00
Unskilled Worker		10,000.00	1	10,000.00
Helper		8,000.00	1	8,000.00
Security Guard		6,000.00	1	6,000.00
				52,000.00
Add: 5% Fringe Benefit				2,600.00
Total Labour Cost Per Month				54,600.00
Total Labour Cost for the year (In Rs. Lakhs)			5	6.55

BREAK UP OF SALARY				
Particulars		Salary	No of	Total
		Per Month	Employees	Salary
Manager		12,000.00	1	12,000.00
Accountant cum store keeper		10,000.00	1	10,000.00
Sales		8,000.00	1	8,000.00
Total Salary Per Month				30,000.00
Add: 5% Fringe Benefit				1,500.00
Total Salary for the month				31,500.00
Total Salary for the year (In Rs. Lakhs)			3	3.78

COMPUTATION OF DEPRECIATION					
Description	Land	Building/shed	Plant & Machinery	Furniture	TOTAL
Rate of Depreciation		10.00%	15.00%	10.00%	
Opening Balance	Leased		-	-	-
Addition	-	5.00	5.50	1.50	12.00
	-	5.00	5.50	1.50	12.00
		-	-	-	
TOTAL		5.00	5.50	1.50	12.00
Less : Depreciation	-	0.50	0.83	0.15	1.48
WDV at end of Ist year	-	4.50	4.68	1.35	10.53
Additions During The Year	-	-	-	-	-
	-	4.50	4.68	1.35	10.53
Less : Depreciation	-	0.45	0.70	0.14	1.29
WDV at end of IInd Year	-	4.05	3.97	1.22	9.24
Additions During The Year	-	-	-	-	-
	-	4.05	3.97	1.22	9.24
Less : Depreciation	-	0.41	0.60	0.12	1.12
WDV at end of IIIrd year	-	3.65	3.38	1.09	8.12
Additions During The Year	-	-	-	-	-
	-	3.65	3.38	1.09	8.12
Less : Depreciation	-	0.36	0.51	0.11	0.98
WDV at end of IV year	-	3.28	2.87	0.98	7.14
Additions During The Year	-	-	-	-	-
	-	3.28	2.87	0.98	7.14
Less : Depreciation	-	0.33	0.43	0.10	0.86
WDV at end of Vth year	-	2.95	2.44	0.89	6.28

REPAYMENT SCHEDULE OF TERM LOAN						11.0%	
Year	Particulars	Amount	Addition	Total	Interest	Repayment	CI Balance
I	Opening Balance						
	Ist Quarter	-	10.80	10.80	0.30	-	10.80
	IInd Quarter	10.80	-	10.80	0.30	-	10.80
	IIIRD Quarter	10.80	-	10.80	0.30	0.60	10.20
	Ivth Quarter	10.20	-	10.20	0.28	0.60	9.60
					1.17	1.20	
II	Opening Balance						
	Ist Quarter	9.60	-	9.60	0.26	0.60	9.00
	IInd Quarter	9.00	-	9.00	0.25	0.60	8.40
	IIIRD Quarter	8.40	-	8.40	0.23	0.60	7.80
	Ivth Quarter	7.80		7.80	0.21	0.60	7.20
					0.96	2.40	
III	Opening Balance						
	Ist Quarter	7.20	-	7.20	0.20	0.60	6.60
	IInd Quarter	6.60	-	6.60	0.18	0.60	6.00
	IIIRD Quarter	6.00	-	6.00	0.17	0.60	5.40
	Ivth Quarter	5.40		5.40	0.15	0.60	4.80
					0.69	2.40	
IV	Opening Balance						
	Ist Quarter	4.80	-	4.80	0.13	0.60	4.20
	IInd Quarter	4.20	-	4.20	0.12	0.60	3.60
	IIIRD Quarter	3.60	-	3.60	0.10	0.60	3.00
	Ivth Quarter	3.00		3.00	0.08	0.60	2.40
					0.43	2.40	
V	Opening Balance						
	Ist Quarter	2.40	-	2.40	0.07	0.60	1.80
	IInd Quarter	1.80	-	1.80	0.05	0.60	1.20
	IIIRD Quarter	1.20	-	1.20	0.03	0.60	0.60
	Ivth Quarter	0.60		0.60	0.02	0.60	0.00
					0.17	2.40	

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

CALCULATION OF D.S.C.R					
PARTICULARS	I	II	III	IV	V
CASH ACCRUALS	2.91	3.91	8.82	10.37	11.78
Interest on Term Loan	1.17	0.96	0.69	0.43	0.17
Total	4.09	4.87	9.51	10.80	11.94
REPAYMENT					
Repayment of Term Loan	1.20	2.40	2.40	2.40	2.40
Interest on Term Loan	1.17	0.96	0.69	0.43	0.17
Total	2.37	3.36	3.09	2.83	2.57
DEBT SERVICE COVERAGE RATIO	1.72	1.45	3.08	3.82	4.66
AVERAGE D.S.C.R.			2.90		

COMPUTATION OF ELECTRICITY			
(A) POWER CONNECTION			
Total Working Hour per day		Hours	8
Electric Load Required		HP	10
Load Factor			0.7460
Electricity Charges		per unit	7.50
Total Working Days			300
Electricity Charges			1,34,280.00
Add : Minimim Charges (@ 10%)			
(B) DG set			
No. of Working Days			300 days
No of Working Hours			0.3 Hour per day
Total no of Hour			90
Diesel Consumption per Hour			8
Total Consumption of Diesel			720
Cost of Diesel			65.00 Rs. /Ltr
Total cost of Diesel			0.47
Add : Lube Cost @15%			0.07
Total			0.54
Total cost of Power & Fuel at 100%			1.88
Year		Capacity	Amount (in Lacs)
I		65%	1.22
II		70%	1.32
III		75%	1.41
IV		80%	1.50
V		85%	1.60

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