

PROJECT REPORT

Of

FOOT PEDALLED SANITIZER DISPENSER

PURPOSE OF THE DOCUMENT

This particular pre-feasibility is regarding **Foot Pedalled Sanitizer Dispenser**.

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 : xxxxxxx
Pin: xxxxxxx State: xxxxxxxxx
Mobile xxxxxxx
- 5 Product and By Product : **FOOT PEDALLED SANITIZER DISPENSER**
- 6 Name of the project / business activity proposed : **FOOT PEDALLED SANITIZER DISPENSER UNIT**
- 7 Cost of Project : Rs.10.44 Lakhs
- 8 Means of Finance
Term Loan Rs.5.4 Lakhs
Own Capital Rs.1.04 Lakhs
Working capital Rs.4 Lakhs
- 9 Debt Service Coverage Ratio : 2.98
- 10 Pay Back Period : 5 Years
- 11 Project Implementation Period : 5-6 Months
- 12 Break Even Point : 36%
- 13 Employment : 8 Persons
- 14 Power Requirement : 20.00 HP
- 15 Major Raw materials : Big Pipe, Small Pipe, Ground support plate, L Joints, Screws, etc
- 16 Estimated Annual Sales Turnover (Max Capacity) : 55.36 Lakhs
- 17 Detailed Cost of Project & Means of Finance

COST OF PROJECT

(Rs. In Lakhs)

Particulars	Amount
Land	Own/Rented
Building /Shed 1000 Sq ft	2.00
Plant & Machinery	2.50
Furniture & Fixtures	1.50
Working Capital	4.44
Total	10.44

MEANS OF FINANCE

Particulars	Amount
Own Contribution	1.04
Working Capital(Finance)	4.00
Term Loan	5.40
Total	10.44

FOOT PEDALLED SANITIZER DISPENSER

Introduction: Corona Virus (Covid-19) has been declared a Pandemic by WHO and we all are witnessing the changes it has brought into our daily lives. The number of people getting infected is increasing day by day and the best cure to stop the spread of the disease is prevention itself. In the present scenario, washing and sanitization of hands has changed from a basic etiquette to an utmost necessity as cleaning of hands has proven to completely eliminate the virus and keeps us from infecting ourselves and others. Foot Operated Hand Wash Dispenser is very useful because of its hands-free mechanism which helps to sanitize hands without getting in contact with the sanitizing surfaces. It is cost effective, easy to install, low maintenance and thus will help to reduce spread of Corona virus through cross contamination. This device is mainly designed for use in public areas like hospitals, school and big companies where a large number of workers are employed. Bottles of different sizes from 250 ml to 1 litre could be fixed.



Market: As the lockdown relaxations are being implemented, all establishments like shops, schools, colleges, offices, factories, places of worship, hospitals, shopping malls, 3 apartment complexes, vegetable

markets, railway stations, airports, bus stands etc. will witness the inflow of public and installing the Foot Operated Hand wash Dispenser at the entrance of all such establishments will help in eliminating the spread of Corona virus through contact. Considering its features, there is also scope for its installation outside homes of individuals so that their visitors and they themselves get sanitized before entering. The demand for such equipments is high and will keep on increasing as more and more people will adopt the precautionary route of disease prevention.

Raw material: Major raw materials are as follows:

1. Big Pipe 100 mm-Dia
2. Small Pipe ½ Inch-Dia
3. Ground support plate along with foot paddle
4. Readymade L Joints, Strong Industrial spring, Screws, Rope, Welding rods, Small plate(20 mm in length and 60 mm in width), Painting if needed.

Machinery Requirement: Major machines & equipments are as follows:

Description	Quantity	Rate	Value
Heavy pipe cutter	4	15000	60000
Drilling machine	4	10000	40000
Welding Machine	1	15000	15000
Hand Operated press	1	10000	10000
Painting booth with simple spray gun	1	80000	80000
Hand Grinding Machine	1	5000	5000
Other equipments & hand tools	LS		40000
Total Amount			250000

Manufacturing Process: The big pipe with 100 mm diameter is cut in to small 1 m length with heavy pipe cutter. The small pipe with ½ Inch diameter is cut in to small 10 cm length with heavy pipe cutter. The smaller pipe in which readymade L joint will be screwed will be the moving part in the operation and it has to be inserted inside the bigger pipe on which another L joint will be there for supporting the sanitizer. A strong industrial spring has to be connected to the smaller pipe and the bigger pipe through slits made in such a way that the movement is free. The bigger pipe has to be screwed on to the Ground Support Plate. A rope will be attached to the smaller pipe and this will be connected to the foot pedal attached with the ground support plate. A plate will be in screwed near the slits in such a way that the sanitizer bottle could be placed.

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 1000 to 1500Sqft. Civil work cost will be Rs. 2 Lac

Power Requirement: The power consumption required to run all the machinery could be approximated as 20 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	-	1.66	3.02	4.64	6.89
Add: Additions	1.04	-	-	-	-
Add: Net Profit	2.12	2.96	3.62	4.35	3.57
Less: Drawings	1.50	1.60	2.00	2.10	2.20
Closing Balance	1.66	3.02	4.64	6.89	8.26
CC Limit	4.00	4.00	4.00	4.00	4.00
Term Loan	4.80	3.60	2.40	1.20	-
Sundry Creditors	0.30	0.35	0.39	0.42	0.46
TOTAL :	10.76	10.97	11.43	12.51	12.72
APPLICATION OF FUND					
Fixed Assets (Gross)	6.00	6.00	6.00	6.00	6.00
Gross Dep.	0.73	1.36	1.91	2.40	2.82
Net Fixed Assets	5.28	4.64	4.09	3.60	3.18
Current Assets					
Sundry Debtors	2.31	2.75	3.06	3.37	3.69
Stock in Hand	2.45	2.81	3.11	3.42	3.73
Cash and Bank	0.73	0.77	1.17	2.12	2.12
TOTAL :	10.76	10.97	11.43	12.51	12.72

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PROJECTED PROFITABILITY STATEMENT					
PARTICULARS	I	II	III	IV	V
A) SALES					
Gross Sale	34.63	41.19	45.83	50.55	55.36
Total (A)	34.63	41.19	45.83	50.55	55.36
B) COST OF SALES					
Raw Material Consumed	18.04	21.05	23.15	25.26	27.36
Electricity Expenses	1.45	1.61	1.77	1.93	2.10
Repair & Maintenance	1.04	1.15	1.37	1.52	1.66
Labour & Wages	6.43	6.81	7.63	8.39	9.06
Depreciation	0.73	0.63	0.55	0.49	0.43
Cost of Production	27.68	31.26	34.48	37.58	40.60
Add: Opening Stock /WIP	-	1.55	1.76	1.96	2.16
Less: Closing Stock /WIP	1.55	1.76	1.96	2.16	2.36
Cost of Sales (B)	26.13	31.05	34.29	37.38	40.40
C) GROSS PROFIT (A-B)	8.50	10.15	11.54	13.17	14.96
	24.54%	24.63%	25.18%	26.05%	27.02%
D) Bank Interest (Term Loan)	0.59	0.48	0.35	0.21	0.08
ii) Interest On Working Capital	0.44	0.44	0.44	0.44	0.44
E) Salary to Staff	4.66	5.36	6.22	7.15	8.22
F) Selling & Adm Expenses Exp.	0.69	0.91	0.92	1.01	1.11
TOTAL (D+E)	6.38	7.19	7.92	8.82	9.85
H) NET PROFIT	2.12	2.96	3.62	4.35	5.11
	6.1%	7.2%	7.9%	8.6%	9.2%
I) Taxation	-	-	-	-	1.53
J) PROFIT (After Tax)	2.12	2.96	3.62	4.35	3.57

PROJECTED CASH FLOW STATEMENT					
PARTICULARS	I	II	III	IV	V
SOURCES OF FUND					
Own Contribution	1.04	-			
Reserve & Surplus	2.12	2.96	3.62	4.35	5.11
Depreciation & Exp. W/off	0.73	0.63	0.55	0.49	0.43
Increase In Cash Credit	4.00				
Increase In Term Loan	5.40	-	-	-	-
Increase in Creditors	0.30	0.05	0.04	0.04	0.04
TOTAL :	13.59	3.64	4.21	4.87	5.57
APPLICATION OF FUND					
Increase in Fixed Assets	6.00	-	-	-	-
Increase in Stock	2.45	0.36	0.30	0.31	0.31
Increase in Debtors	2.31	0.44	0.31	0.31	0.32
Repayment of Term Loan	0.60	1.20	1.20	1.20	1.20
Taxation	-	-	-	-	1.53
Drawings	1.50	1.60	2.00	2.10	2.20
TOTAL :	12.86	3.60	3.81	3.92	5.56
Opening Cash & Bank Balance	-	0.73	0.77	1.17	2.12
Add : Surplus	0.73	0.05	0.40	0.95	0.00
Closing Cash & Bank Balance	0.73	0.77	1.17	2.12	2.12

COMPUTATION OF MAKING OF FOOT PEDALLED SANITIZER DISPENSER			
Item to be Manufactured Foot Pedalled Sanitizer Dispenser			
Manufacturing Capacity per day		30	No.s
No. of Working Hour		8	
No of Working Days per month		25	
No. of Working Day per annum		300	
Total Production per Annum		9,000	No.s
Total Production per Annum		9,000	No.s
Year		Capacity Utilisation	PEDALLED SANITIZER
I		45%	4,050.00
II		50%	4,500.00
III		55%	4,950.00
IV		60%	5,400.00
V		65%	5,850.00

COMPUTATION OF RAW MATERIAL

Item Name	Quantity of Raw Material	Unit	Unit Rate of	Total Cost Per Annum (100%)
Big pipe 100 mm-Dia	4,200.00	MT	300	12,60,000.00
Small pipe ½ Inch- Dia	12,000.00	MT	12.4	1,48,800.00
Ground support plate along with foot paddle	12,000.00	MT	150	18,00,000.00
Readymade L Joints, Strong Industrial spring, Screws, Rope, Welding rods, Small plate(20 mm in length and 60 mm in width), Painting if needed.	Ls			8,00,000.00
Total				40,08,800.00
Total Raw material in Rs lacs				40.09

Raw Material Consumed	Capacity Utilisation	Amount (Rs.)	
I	45%	18.04	
II	50%	21.05	5% Increase in Cost
III	55%	23.15	5% Increase in Cost
IV	60%	25.26	5% Increase in Cost
V	65%	27.36	5% Increase in Cost

COMPUTATION OF SALE					
Particulars	I	II	III	IV	V
Op Stock	-	202.50	225.00	247.50	270.00
Production	4,050.00	4,500.00	4,950.00	5,400.00	5,850.00
	4,050.00	4,702.50	5,175.00	5,647.50	6,120.00
Less : Closing Stock(15 Days)	202.50	225.00	247.50	270.00	292.50
Net Sale	3,847.50	4,477.50	4,927.50	5,377.50	5,827.50
Sale Price	900.00	920.00	930.00	940.00	950.00
Sale (in Lacs)	34.63	41.19	45.83	50.55	55.36

COMPUTATION OF CLOSING STOCK & WORKING CAPITAL					
PARTICULARS	I	II	III	IV	V
Finished Goods					
(15 Days requirement)	1.55	1.76	1.96	2.16	2.36
Raw Material					
(15 Days requirement)	0.90	1.05	1.16	1.26	1.37
Closing Stock	2.45	2.81	3.11	3.42	3.73

COMPUTATION OF WORKING CAPITAL REQUIREMENT			
Particulars	Amount	Margin(10%)	Net Amount
Stock in Hand	2.45		
Less:			
Sundry Creditors	0.30		
Paid Stock	2.15	0.22	1.94
Sundry Debtors	2.31	0.23	2.08
Working Capital Requirement			4.01
Margin			0.45
MPBF			4.01
Working Capital Demand			4.00

BREAK UP OF LABOUR				
Particulars		Wages	No of	Total
		Per Month	Employees	Salary
Supervisor		15,000.00	1	15,000.00
Machine 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
				51,000.00
Add: 5% Fringe Benefit				2,550.00
Total Labour Cost Per Month				53,550.00
Total Labour Cost for the year (In Rs. Lakhs)			5	6.43

BREAK UP OF SALARY				
Particulars		Salary	No of	Total
		Per Month	Employees	Salary
Manager		15,000.00	1	15,000.00
Accountant cum store keeper		12,000.00	1	12,000.00
Sales		10,000.00	1	10,000.00
Total Salary Per Month				37,000.00
Add: 5% Fringe Benefit				1,850.00
Total Salary for the month				38,850.00
Total Salary for the year (In Rs. Lakhs)			3	4.66

COMPUTATION OF DEPRECIATION					
Description	Land	Building/shed	Plant & Machinery	Furniture	TOTAL
Rate of Depreciation		10.00%	15.00%	10.00%	
Opening Balance	Leased		-	-	-
Addition	-	2.00	2.50	1.50	6.00
	-	2.00	2.50	1.50	6.00
		-	-	-	
TOTAL		2.00	2.50	1.50	6.00
Less : Depreciation	-	0.20	0.38	0.15	0.73
WDV at end of Ist year	-	1.80	2.13	1.35	5.28
Additions During The Year	-	-	-	-	-
	-	1.80	2.13	1.35	5.28
Less : Depreciation	-	0.18	0.32	0.14	0.63
WDV at end of IInd Year	-	1.62	1.81	1.22	4.64
Additions During The Year	-	-	-	-	-
	-	1.62	1.81	1.22	4.64
Less : Depreciation	-	0.16	0.27	0.12	0.55
WDV at end of IIIrd year	-	1.46	1.54	1.09	4.09
Additions During The Year	-	-	-	-	-
	-	1.46	1.54	1.09	4.09
Less : Depreciation	-	0.15	0.23	0.11	0.49
WDV at end of IV year	-	1.31	1.31	0.98	3.60
Additions During The Year	-	-	-	-	-
	-	1.31	1.31	0.98	3.60
Less : Depreciation	-	0.13	0.20	0.10	0.43
WDV at end of Vth year	-	1.18	1.11	0.89	3.18

REPAYMENT SCHEDULE OF TERM LOAN						11.0%	
Year	Particulars	Amount	Addition	Total	Interest	Repayment	CI Balance
I	Opening Balance						
	Ist Quarter	-	5.40	5.40	0.15	-	5.40
	IInd Quarter	5.40	-	5.40	0.15	-	5.40
	IIIRD Quarter	5.40	-	5.40	0.15	0.30	5.10
	Ivth Quarter	5.10	-	5.10	0.14	0.30	4.80
					0.59	0.60	
II	Opening Balance						
	Ist Quarter	4.80	-	4.80	0.13	0.30	4.50
	IInd Quarter	4.50	-	4.50	0.12	0.30	4.20
	IIIRD Quarter	4.20	-	4.20	0.12	0.30	3.90
	Ivth Quarter	3.90		3.90	0.11	0.30	3.60
					0.48	1.20	
III	Opening Balance						
	Ist Quarter	3.60	-	3.60	0.10	0.30	3.30
	IInd Quarter	3.30	-	3.30	0.09	0.30	3.00
	IIIRD Quarter	3.00	-	3.00	0.08	0.30	2.70
	Ivth Quarter	2.70		2.70	0.07	0.30	2.40
					0.35	1.20	
IV	Opening Balance						
	Ist Quarter	2.40	-	2.40	0.07	0.30	2.10
	IInd Quarter	2.10	-	2.10	0.06	0.30	1.80
	IIIRD Quarter	1.80	-	1.80	0.05	0.30	1.50
	Ivth Quarter	1.50		1.50	0.04	0.30	1.20
					0.21	1.20	
V	Opening Balance						
	Ist Quarter	1.20	-	1.20	0.03	0.30	0.90
	IInd Quarter	0.90	-	0.90	0.02	0.30	0.60
	IIIRD Quarter	0.60	-	0.60	0.02	0.30	0.30
	Ivth Quarter	0.30		0.30	0.01	0.30	0.00
					0.08	1.20	

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	2.84	3.59	4.17	4.83	4.00
Interest on Term Loan	0.59	0.48	0.35	0.21	0.08
Total	3.43	4.07	4.52	5.05	4.08
REPAYMENT					
Repayment of Term Loan	0.60	1.20	1.20	1.20	1.20
Interest on Term Loan	0.59	0.48	0.35	0.21	0.08
Total	1.19	1.68	1.55	1.41	1.28
DEBT SERVICE COVERAGE RATIO	2.89	2.43	2.92	3.57	3.18
AVERAGE D.S.C.R.			2.98		

COMPUTATION OF ELECTRICITY			
(A) POWER CONNECTION			
Total Working Hour per day	Hours	8	
Electric Load Required	HP	20	
Load Factor		0.7460	
Electricity Charges	per unit	7.50	
Total Working Days		300	
Electricity Charges			2,68,560.00
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%			3.22
Year	Capacity	Amount	(in Lacs)
I	45%		1.45
II	50%		1.61
III	55%		1.77
IV	60%		1.93
V	65%		2.10

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