## Govt. of India Ministry of MSME

# **Project Profile on**

**SANITIZATION TUNNEL** 

**Quality standards:** As per IS 4756, 1978, IS 1038:1983

**Production Capacity:** 100 pcs per Annum.

Year of Preparation: 2019-2020

**Prepared By** 

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- 1. <u>INTRODUCTION-</u> Sanitisation tunnel is used in the entrance of Public Places like hospitals, Restaurants, Malls, Industries to disinfect the person while entering at the entrance. During the COVID 19 it has become a useful need of the society. It is fabricated by Stainless Steel with the help of raw materials available in the market, pumps, spray etc.
- 2. <u>MARKET POTENTIAL</u>—Sanitisation Disinfectant Tunnel has a good marketing prospect. During the COVID 19 it has become a necessity to maintain health and Industrial Hygiene.

## 3. Basis and presumptions

- (i) The basis for calculation of production capacity has been taken on single shift basis on 75% efficiency.
- (ii) The maximum capacity utilisation on single shift basis for 300 days a year. During first year and second year of operations the capacity utilisation is 60% and 80% respectively. The unit is expected to achieve full capacity utilisation from the third year onward.
- (iii) The salaries and wages, cost of raw materials, utilities, rent etc are based on the prevailing rates in and around Patna. These cost factors are likely to vary with time and location.
- (iv) Interest on term loan and working capital loan must be preferably current rate. Otherwise the rate of interest on an average may be taken as 13%. This rate may vary depending upon the policy of the financial institution/agencies from time to time.
- (v) The cost of machinery and equipment refer to a particular make/model and prices are approximate.
- (vi) The breakeven point percentage indicated is of full capacity utilisation.
- (vii) The project preparation cost etc whenever required could be considered under preoperative expenses.
- (viii) The essential production machinery and test equipments required for the projects have been indicated. The unit may utilize common test facilitates available at ETDC and ERTLs and Regional Testing Centre (RTC).

## <u>Implementation Schedule</u>

The major activities in the implementation of the Project have been listed and the average time for implementation of the Project is estimated at 12 months:

Name of activity	Period in months
(suggestive)	
1. Preparation of Project Report	1
2. UAM (Udyog Aadhar Memorandum & other formali	ties) 1
3. Sanction of loan by financial institution & Licensing	6 months
4. Plant and machinery	
(a) Placement of order	1
(b) Procurement	2
(c) Installation /erection of machinery/test equipme	nts 2
5. Procurement of raw material	2
6. Recruitment of technical person etc	2
7. Trial production	11 <sup>th</sup> month
8. Commercial production	12 <sup>th</sup> month
Note	

- 1. Many of the above activities shall be initiated concurrently.
- 2. Procurement of raw materials commences from 8<sup>th</sup> month onwards.
- 3. When imported plant and machinery are required the implementation period of projects may vary from 12 months to 15 months.

#### **Technical aspect**

<u>Process of Manufacturing</u>; Sanitisation tunnel is a fabricated item of Stainless Steel made from the Steel Raw Materials, pump, spray, piping, Tank, lighting Fitting etc.

**Quality controls & Standards**: As per IS

#### **Production Capacity (Per annum):**

Sanitization Tunnel Size: 16'x8'x3.5' = 100 nos per day

#### 4. Motive power

10kw

#### 5. Pollution control

The Govt. Accords utmost importance to control environmental pollution. The Small- Scale entrepreneur should have an environmental friendly attitude and adopt pollution control measures by process modification and technology substitutions.

India having acceded to the Montreal Protocol in sept.1992,the production and use of Ozone depleting substances (ODS) like Chlorofluore Carbon (CFCs), carbon tetrachloride, halons and methyl

Chloroform etc. Need to be phased out immediately with alternative chemicals/solvents. A notification for detailed rules to regulate ODS phase out under the Environment Protection Act 1986 have been put in place with effect from 19<sup>th</sup> July 2000.

The following steps are suggested which may help to control pollution in electronics industry wherever applicable:

- i) In electronic industry fumes and gases are released during hand soldering/wave soldering/dip soldering, which are harmful to people as well as environmental and the end products. Alternative technologies may be used to phase-out the existing polluting technologies. Numerous new fluxes have been developed containing 2-10% solids as apposed to the traditional 15-35 % solids.
- ii) Electronic industry uses CFCs, carbon tetrachloride and Methyl chloroform for cleaning of printed Circuit boards after assembly to remove flux residues left after soldering and various kinds of foams for packaging.

Many alternative solvents could replace CFC-113 and methyl chloroform in electronics cleaning. Other chlorinated convents such as trichloroethylene, per chloroethylene and methylene chloride have been used an effective cleaners in electronic industry for many years. Other organic solvents such as Ketenes and Alcolols are effective in removing both solder fluxes and many polar contaminants.

#### 6. Energy conservation

With the growing energy needs and shortage coupled with rising energy cost, a greater thrust in energy efficiency in industrial sector has been given by Govt. of India since 1980s. The energy Conservation Act 2001 has been enacted on 18<sup>th</sup> August 2001which provides for efficient use of energy its conservation and capacity building of Bureau of Energy Efficiency created under the act.

The following steps may be help for conservation of Electrical Energy:

- i) Adoption of energy conserving technology, production aids and testing facilities.
- ii) Efficient management of process/manufacturing machineries and systems, QC and testing equipments for yielding maximum energy conservation.
- iii) Optimum use of electrical energy for heating during soldering process can be obtained by using efficient temperature controlled soldering and desoldering stations.

- iv) Periodical maintenance of motors compressors etc
- v) Use of power factor correction capacitors, proper selection and layout of lighting systems timely switching on/off of the lights, use of Compact Fluorescent Lamps wherever possible.

## **FINANCIAL ASPECT**

(I) Land and building

Built up Area	6000 sq. ft.
Office, Store	1000 sq. ft.
Assembly and Testing	4000 sq. ft.
Rent payable Per Annum	960,000

#### (ii) Machinery and equipment

Sn	Description	Ind/imp	Qty	Value (RS.)
1	Arc Welding Machine	Indian	1	50,000
2	Cutting Machine	Indian	1	40,000
3	Dyes and Tools	Indian	1	50,000
4	Misc. items			50000

Total = 190000

## Other Fixed Assets in (RS.)

Electrification	19000
charges@10%of cost	
of machinery and	
equipment	
Office equipment,	10,000
furniture and working	
table etc	
Tools, jigs and fixtures	10,000
Pre operative expenses	50,000
Misc.	20,000
Total	109000

#### **Total Fixed Capital = 109000**

#### **Working Capital Per Month**

#### i) Staff & Labour

SN	Description	No of Persons	Salary/month (RS.)	Total Salary per month (RS.)
1	Supervisor Cum	1	6,000	6,000
	Manager, (Part time)			

2	Skilled Worker	2	5,000	10,000

Total = 16000

Note: The unit may engage Skilled Worker on Piece rate basis as required.

## ii) Raw Material Requirement Per Month for 15W Street Light

SN	Description	Qty	Rate	Value (Rs.)
1	S Sheet	5 Ton	5000	25000
2	SS Frame	10 Ton	5000	50000
3	Pump	15	4000	60000
4	Sensor, Nozzle	Lumsum	10000	10000
5	Internal Lighting Fan etc.			50000
7	Welding Rod	100pkt.	200	20000
8	Misc. Consumables		20000	20000

Total= 235000

#### **Utilities Per Month**

#### Value in (RS.)

Power	10000
Water	1000

Total= 11000

## iV)Other Contingent Expenditure Per Month

SN	Item	Amount (RS.)
1	Rent	5000
2	Postage and stationary	500
3	Telephone/fax	1000
4	Repair & Maintenance	2000
5	Transport and Conveyance charges	1000
6	Adv. And publicity	1000
7	Insurance and Taxes	5000
8	Miscellaneous expenditure	4000

**Total= 19500** 

## Total Recurring Expenditure Per Month (I+ii+iii+iv)= 265500

## **Total Capital Investment (In RS.)**

Fixed capital	109000
Working capital for three month	796500

**Total= 905500** 

## **Financial analysis**

#### Cost of production per annum

Total recurring expenditure	3186000

Depreciation on machinery and	10900
equipment@10%	
Depreciation on tools, jigs and	included
fixtures @25%	
Depreciation on office equipments,	included
furniture @ 20%	
Interest on total Capital investment	117715
@ 13%	

**Total= 3314615** 

## Turn over per annum

Item	Qty (Nos)	Rate/unit	Total value (Rs.)
Sanitization	100	75000	7500000
Tunnel			
16'X8'X3.5'			

Profit per annum (before Taxes)= Turn over per annum- Cost of Production per annum = 7500000-3314615=4185385 Net profit ratio= profit/annum\*100/sales/annum = 4185385/7500000X100=55.8=56%

Rate of Return = Profit/annum\*100/ Total Capital Investment (including Margin Money)=4185385/1323215=3.16

## **Break-even Point**

#### Fixed cost per annum

Rent	600000
Depreciation on machinery and	10900
equipment @ 10%	
Depreciation on tools, jigs and	included
fixtures @ 25%	
Depreciation on office equipment,	included
furniture @ 20%	
Interest on total capital	117715
investment@13%	
Insurance	100000
40% of salaries and wages	50000
40% of other contingents & utilities	50000
(excluding rent & insurance)	
Total fixed cost	388615

**Break even point** = **fixed cost** \***100**/ **fixed cost** +**Profit** = 38861500x100/4574000=8.4%

#### **Additional information**

- **❖** The Project Profile may be modified/tailored to suit the individual entrepreneurship qualities/capacity, production programme and also suit the location characteristics, wherever applicable.
- ❖ The margin money recommended is 25 % of the working capital requirement at an average. However, the percentage of margin money may vary as per bank's discretion

#### Name & address of Machinery and equipment supplier

#### All Machines and Tools are available in local market

#### Name & address of raw Material Suppliers

All the raw materials are available in local market.