

ROLLING SHUTTERS

INTRODUCTION

Rolling shutters are made of steel sheets & strips and are used as a flexible door panel in shops, godowns, workshop sheds. As the rolling shutters are wound over an overhead winding mandrill, the shutter will not give any problem for movement of people or vehicles through the door. The shutters roll upwards parallel to front wall not occupying any space of the floor and therefore, they are preferred for use in shops. Further, as these are made of steel sheets, they are strong, long lasting and safe.

MARKET POTENTIAL

There is good demand for rolling shutters, as an item of common use in construction of shops, godowns, workshop sheds etc. They are sold directly to the users.

BASIS AND PRESUMPTIONS

1. The production of the unit has been worked out on the basis of single shift of 8 hours a day and 300 working days in a year.
2. It has been presumed that the capacity utilization of the unit will be 70% in the first year followed by 85% in the second year and 100% in the subsequent years.
3. The quoted salaries and wages have been taken as per the prevailing rate in state at the time of preparation of the project profile
4. The interest rate has been considered as 15% on capital investment on an average whether financed by any bank or financial institutions.
5. The margin money has been raised 25% of the capital investment.
6. The unit has been proposed to function in rented building. The rental value for accommodation of workshop, office and other covered / uncovered area is taken @ Rs. 4000 pm.
7. The payback period has been considered as 5 years after loan disbursement.
8. The quoted cost of machinery, equipments and raw materials has been taken as per the rates prevailing in the market at the time of preparation of the project profile and likely to vary from place to place and supplier to supplier. When a tailor

made project profile is prepared, necessary changes are to be made.

IMPLEMENTATION SCHEDULE

The detail of activities with duration for implementation schedule of project will be as under:

1.	Procurement of technical know how / transfer- of technology	30 days
2.	Market survey, tie-ups and obtaining quotations	- 30 days
3.	Selection of site	- 07 days
4.	Preparation of project report	- 07 days
5.	Financing	- 70 days
6.	Procurement of machines	- 45 days
7.	Recruitment of staff and training	- 30 days
8.	Addition / alteration in rental premises	- 30 days
9.	Procurement of raw material / bought out components	- 15 days
10.	Erection, electrification and commissioning of machines	- 30 days
11.	Trial production	- 15 days
12.	Commercial Production	- 15 days
13.	Filing Udyog Aadhaar	- 1 Day

In order to efficient and successful implementation of the project in the shortest period the slack period is curtailed to maximum possible extent and as far as possible simultaneous activities are carried out. According to critical path method, the approximate time required to commence production may be considered as about 09 months.

TECHNICAL ASPECTS

MANUFACTURING PROCESS

M.S. Strips of desired width are taken in coil form and fed to roller type sheet forming machine in which the rolling shutter profiles are formed. The spring steel wires

are formed into springs shape in the spring coiling machine. The hand shearing machine and the press brake are used to frame fabrication. All the components are assembled and painted with red oxide primer.

PRODUCTION CAPACITY

The unit will have the capacity to produce 26,000 Sq. ft. of rolling shutters per annum.

POLLUTION CONTROL

This industry does not create any kind of pollution and as such there is no need to take any preventive measures for pollution control.

FINANCIAL ASPECTS (All values in Rs and Nos)

(A) FIXED CAPITAL

(1) LAND & BUILDING

On rent @ Rs 4,000/- per month

(2) MACHINERY AND EQUIPMENT

Sl.No.	Description	Quantity (No.)	Rate	Amount
i.	Roller type sheet profile forming machine for forming profiles continuously out of coil of 150mm x 6' x 18 swg M.S. strips	1	70,000	70,000
ii.	Hand press brake	1	30,000	30,000
iii.	Spring coiling machine (Hand operated)	1	8,000	8,000
iv.	Hand shearing machine, 300mm length of blade, capacity to cut 6mm plate	1	6,000	6,000
v.	Hand operated screw press No. 10, double pillar type	1	10,000	10,000
vi.	Pillar drilling machine ¾" capacity (2 HP)	1	12,000	12,000
vii.	10" wheel capacity bench grinder (2 HP)	1	6,000	6,000

viii.	300 amp. Capacity welding transformer	1	12,000	12,000
ix.	<u>Others</u>			
	Electrification and installation charges		15,000	15,000
	Testing and measuring equipments		10,000	10,000
	Other tools and fixtures		10,000	10,000
	Office equipments		10,000	10,000
Total				1,99,000/-

(3) Pre-operative expenses

NIL

Total fixed Capital (2) + (3) Rs. 1,99,000/-**(B) WORKING CAPITAL(PER MONTH****(1) Staff and Labour (per month)**

Sl.No.	Description	No.	Salary	Total
i.	Supervisor/Foreman	1	6,000	6,000
ii.	Skilled workers	1	5,000	5,000
iii.	Semi - skilled workers	2	3,500	7,000
iv.	Helpers	2	3000	6,000
Total				24,000
	Perquisites @15% on salary			3,600
Total				27,600

(2) Raw materials (per month)

Sl.No.	Description	Amount
i.	M.S. Strip 18-22G of 150mm width for 3000 kg @ ` .60 per Kg	1,80,000
ii.	Spring steel wire 3 – 6mm dia 375kg @ ` . 120 per kg	45,000
iii.	M.S. Tube sheets & flats 90kg @ ` . 100 per kg	9,000
iv.	Bolts, nuts, rivets etc.	9,000
Total		2,43,000/-

(3) Utilities (per month)

Sl.No.	Description	Amount
i.	Power	6,000
ii.	Water	500
	Total	6,500/-

(4) Other contingent expenses (per month)

Sl.No	Description	Amount
i.	Rent	4,000
ii.	Postage and Stationary	500
iii.	Advertisement	1,000
iv.	Repair and Maintenance	1,500
v.	Telephone	1,500
vi.	Transportation	1,500
vii.	Consumables	1,000
viii.	Insurance	3,000
ix.	Misc. expenses	1,000
	Total	15,000/-

(5) Working capital (per month)

Sl.No	Descriptions	Amount
i.	Raw materials	2,43,000
ii.	Staff and labour	27,600
iii.	Utilities	6,500
iv.	Other contingent expenses	15,000
	Total	2,92,100/-

(6) Working capital for 3 months 8,76,300/-**(C) TOTAL CAPITAL INVESTMENT**

Sl.No.	Description	Amount
i.	Fixed capital	1,99,000
ii.	Working capital for 3 months	8,76,300
	Total	10,75,300

FINANCIAL ANALYSIS

(1) Cost of production (per year)

Sl.No.	Description	Amount
i.	Total recurring cost	35,05,200
ii.	Depreciation on machinery @10%	17,600
iii.	Depreciation on Tools@25%	2,500
iv.	Depreciation on office equipments @20%	2,000
v.	Interest on total capital investment@15%	1,61,295
	Total	36,88,595

(2) Turnover (per year)

Sl.No.	Items	Quantity	Rate	Amount
i.	Rolling shutter	26000	160	41,60,000

(3) Net profit (before taxation) (per year)

Sl.No.	Item	Amount
i.	Turnover	41,60,000
ii.	Less Cost of production	36,88,595

NET PROFIT Rs. 4,71,405/-

(4) Net profit ratio = Netprofit per year x 100/Turnover per year

$$4,71,405 \times 100 / 41,60,000 = 11.33\%$$

(5) Rate of return on Total Investment

$$\text{Net profit per year} \times 100 / \text{Total Investment} = 4,71,405 \times 100 / 10,75,300 = 43.84\%$$

(6) Fixed cost

Sl.No	Description	Amount
i.	Total Depreciation	1,90,000
ii.	Interest on Total Investment	1,61,295

iii.	40% of Wages	1,32,480
iv.	40% of Utility and Contingent charges (except rent and insurance)	78,300
v.	Rent for 1 year	48,000
vi.	Insurance	36,000
	Total	6,46,075

Breakeven point= Fixed cost x 100/ (Fixed cost + Net profit) =

$$646075 \times 100 / (646075 + 471405) = \underline{57.81\%}$$

SUPPLIERS FOR PLANT & MACHINERY

1. M/s, Sant Machine Tools,
G.T. Road, Near Dholewal Chowk, Ludhiana..
2. M/s, Kalsi Machine Tools, Gill Road,
Ludhiana.
3. M/s, Leading Engineering Corpn.,
Anand Prabhat Industrial Estate, New Delhi.
4. M/s, Ess Kay Engineering Corpn. ,
21/6 A, Freeganj Chowk, Agra

SAMRAMBHAK MITHRA