

Project Profile of Stretcher, Trolleys

PRODUCT : Stretcher, Trolley

QUALITY/STANDARD : As per IS/Customer Specification

PRODUCTION CAPACITY (P.A) : For Hospital/Nursing home Purpose Stretcher, Trolley-590 Nos.

MONTH AND YEAR OF PREPARATION : June, 2020

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STRETCHER, TROLLEY

PRODUCT & ITS USE

A stretcher with wheels and design to help the disabled individuals. **Stretchers** are mobility devices used to transport the patients from one place to other, The movement of a patient and physically disabled person from one place to another during his/her unhealthy conditions becomes a tedious task. It is required to move the patient within the hospital campus for the basic necessities, physicians health check-up, medical tests etc. It causes inconvenience to both the patient and helping staff. For that purpose, stretcher is provided to the patients for the easy handling of above discussed tasks. One helping staff is needed always to be with patient for all these transitions. Sometimes it becomes a tough work when the patient is too heavy to be lifted by two or three members and also when the transition has to be done twice or thrice in a day. The product are made of steel and normally used in Govt. Hospital, Private Hospital & Nursing homes etc.

MARKET DEMAND

The demands for trolley, stretcher are increasing day by day due to the following reasons:

- i) Increase the number of Hospitals in private sector & their expansion
- ii) The Govt. is encouraging new hospitals & nursing homes in private sectors in order to increase treatment facilities in accordance with the development in public health sector & as such it is likely to be a steady increase in the demand for hospital furniture.

BASIS & PROJECT SELECTION

- i). This project profile is based on 8 working hours a day and 25 days in a month.
- ii) The unit will use 70% of its installed capacity in the first year of commencement of commercial production and will attain its maximum capacity of 85% by the end of second year of commercial production.
- iii) The prices of raw materials as shown in this project profile are as per the prevailing market rate and may vary time to time.
- iv) The prices of machinery & equipment as shown in this project profile are as per the prevailing market rate and may vary time to time.
- v) The salary & wages shown in this project profile is as per the prevailing rate and conforms to the minimum wages act enacted by the state government.
- vi) Promoter's contribution for the project is taken @ 5% of the total cost of the project and will be financed under Financial Institutions.
- vii) The rate of interest for the loan is taken @ 12% per annum.
- viii) The pay back period of the loan is assumed to 7 years after the moratorium period.
- ix) The cost of land and building as shown in the project profile is approximate one and the same may vary from place to place
- x) The project will be implemented in Six months from the date of conception of the project idea.

ESTIMATED TIME

This period included making all arrangements, market surveys and tie-ups, financial arrangements, purchase of machines, arrangement of power, recruitment of staff, commissioning of plant and trial production etc. in order to implement the project efficiently and in the shortest period there is a need to initiate many activities simultaneously as far as possible. This will not only cut the slack period but also will give quick results and be cost effective.

Estimated Time

Sl. No.	Activity	Estimated period required In (Days)
1.	Market surveys and tie-ups	10-15
2.	Arrangement of premises	20-25
3.	Registration and Financing	30-40
4.	Obtaining power connection	15-20
5.	Procurement of Machine and Equipments	40-50
6.	Installation of Machinery	8-10
7.	Obtaining Quotations	15-20
8.	Procurement of raw materials, consumables, packing materials etc.	5-10
9.	Product Development	5-10
10.	Commercial production	5

PROCESS OF MANUFACTURING

The main process steps are-

- (a) Cutting of rectangular tube in size
- (b) Cutting and bending of steel tube
- (c) Marking and cutting of Metal sheet
- (d) Cutting of strips

- (e) Grinding/finishing for welding
- (f) Drilling of angle, pipe, strips for bolting
- (g) Welding the sized material as per design of product to be made.
- (h) Grinding edges and surfaces to smoothness.
- (i) Assembly of elevating mechanism
- (j) Painting

QUALITY CONTROL

IS: 4035-1967 specifies dimensional & other requirements of Trolleys, Stretcher. The above specifications may be followed for quality control.

POLLUTION CONTROL

These types of industries are not producing any effluents or any other polluting materials. Therefore pollution control measures are not taken into account.

PRODUCTION CAPACITY

This unit is envisaged to produce 590 Nos. of Stretcher per annum to the worth of Rs. 38.35 Lacks.

EMPLOYEMENT:

The Unit can provide employment to 9 persons directly.

Financial Aspects.**LAND & BUILDING**

2000 sqft Built up shed rented @ Rs.5000/- per month.

MACHINERY AND EQUIPMENT

Sl. No.	Item	Qty.	Amount (Rs.)
1.	Gas cutting set with torch, regulator etc.	02 Nos.	12000/-
2	Pipe bending machine hand operated	02 Nos.	26000/-
3	Cut off Machine	02 No.	22000/-
4	Hand Drill machine	02 No.	10000/-
5	Bench Drill machine	01 No.	18000/-
6	Bosch Grinding Machine	02 No.	9000/-
7	Bench Grinding Machine	01 No.	12000/-
8	Welding Set 300 amp	02 No.	26000/-
9	Hand Press Machine	01 No.	8000/-
10	Riveting Machine	01 No.	1,20,000/-
11	Compressor with spray gun for painting	01 No.	22000/-
12	Hand Tools (Ring and spanner Set, Screwdriver Set, etc.)	02 Set	15000/-
TOTAL			3,00,000/-

MAN POWER REQUIREMENT

Sl. No	Designation	No.	Monthly Salary	Amount (Rs.)
1	Supervisor	1	8000.00	8000/-
2	Skilled worker	2	8000.00	16000/-
3	Semi Skilled worker	2	6000.00	12000/-
4	Un Skilled worker	2	4500.00	9000/-
5	Accountant/ Cleark	1	6000.00	6000/-
5	Peon/ Chowkidar	1	4000.00	4000/-
TOTAL				55000/-

REQUIREMENTS OF RAW MATERIALS (Per Month)

Sl.No	Items	Qty	Unit	Rate(In Rs.)	Amount(Rs.)
1	Rectangular Tube	600	kg	55	33,000/-
2	Steel Tube (Round)	600	kg	52	31,200/-
3	Metal Sheet	280	kg	48	13,440/-
4	Metallic Strip	180	kg	50	9,000/-
5	Castor Wheels	210	Nos.	325	68,250/-
6	Nuts, Bolts, Screw, Washers, Flats, Rubber items, Paints, etc.	---	---	---	25,110/-
TOTAL					1,80,000/-

MISCELLANEOUS EXPENSES (Per Month)

Sl. No.	Item	Amount (Rs.)
1	Rent	5000.00
2	Transportation charge	4500.00
3	Office expenditure, Communication, Stationery	4000.00
4	Advertising & publicity	1000.00
5	Sales Expenditure	4500.00
6	Other Misc Expenditure (including electricity)	6000.00
TOTAL		25000/-

WORKING CAPITAL (P.M)

Sl. No.	Component	Amount (Rs.)
1	Salary of Staff & Worker	55000.00
2	Raw Material	180000.00
3	Miscellaneous Expenditure	25000.00
Total		2,60,000/-

TOTAL CAPITAL INVESTMENT

Sl. No.	Type of Capital	Amount (Rs.)
1.	<u>Fixed Capital</u> Machinery & Equipment	300000.00
2.	Working capital for 03 Months	780000.00
Total		10,80,000/-

FINANCING

Sl. No.	Means of Financing	Amount (Rs.)
1.	Promoter's Contribution (5%)	54000.00
2.	Bank Loan	1026000.00
Total		10,80,000/-

COST OF PRODUCTION (Per Annum)

Sl. No.	Items of Cost	Amount (Rs.)
1.	Total Recurring Capital	31,20,000.00
2.	Depreciation on Fixed assets @ 20%	60,000.00
3.	Interest on Bank Loan @ 12%	1,23,120.00
Total		3,303,120/-

TOTAL PRODUCTION (Per Annum)

Sl. No.	Item	Rate/Pcs. (In Rs.)	Quantity	Amount (Rs.)
1	Stretcher, Trolley	6500.00	590	3835000.00
Total				3,835,000/-

PROFIT (Per Annum)

$$\begin{aligned}\text{Profit} &= \text{Total Sale} - \text{Cost of Production} \\ &= 3,835,000.00 - 3,303,120.00 \\ &= \text{Rs. } 5,31,880/-\end{aligned}$$

PERCENTAGE OF PROFIT ON SALE

$$\begin{aligned}\text{Profit Rate on Sale} &= \frac{\text{Profit} \times 100}{\text{Total Sale}} \\ &= \frac{5,31,880 \times 100}{3,835,000} \\ &= \text{Rs. } 13.86 \%\end{aligned}$$

PERCENTAGE OF RETURN OVER INVESTMENT

$$\begin{aligned}\text{Return over Investment} &= \frac{\text{Profit} \times 100}{\text{Total Capital Investment}} \\ &= \frac{5,31,880 \times 100}{10,80,000} \\ &= \text{Rs. } 49.24\%\end{aligned}$$

BREAK EVEN ANALYSIS

$$\text{Break even Point} = \frac{\text{Annual Fixed cost} \times 100}{\text{Annual Fixed cost} + \text{Profit}}$$

Annual Fixed Cost

Sl. No.	Items	Amount (Rs.)
1.	Depreciation	60,000.00
2.	Interest on Bank Loan	1,23,120.00
3.	40% of Salary Staff & Worker	2,64,000.00
4.	40% of Misc. Expenses	1,20,000.00
TOTAL		5,67,120/-

$$\text{Break even Point} = \frac{5,67,120 \times 100}{5,67,120 + 5,31,880}$$

$$= \frac{5,67,120 \times 100}{10,99,000}$$

$$= 51.60 \%$$

ADDRESSES OF TOOLS & MACHINERY SUPPLIERS

1. M/S Industrial Machinery Stores
6,T.N.Tower, Assam Trunk Rd, Guwahati, Assam 781001
2. Amit Engineering Company, Bombay House, Homi Modi St, Kala Ghoda, Fort, Mumbai, Maharashtra 400001
3. Moglix.com for online shopping
4. Technochem Industries
Address : Gate No. 90, Jyotiba Nagar, Near Jyotiba Chowk, Talawade, Pune - 411062 , Maharashtra, India.

THANK YOU