



## PROJECT PROFILE ON STRETCHERS

|  |   |
|--|---|
| <b>Product Name</b>                    | <b>STRETCHERS</b>   |
| <b>HSN Code</b>                        | <b>9402</b>   |
| <b>Production Capacity Per Annum</b>   | <b>750 NOS.</b>   |
| <b>Value (In Rs Per Annum)</b>         | <b>Rs. 57.5 lakhs</b>   |
| <b>Month &amp; Year of Preparation</b> | <b>June-2020</b>  |
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## INTRODUCTION

A **stretcher, litter, or pram** is an apparatus used for moving patients who require medical care. A basic type (cot or litter) must be carried by two or more people. A wheeled stretcher (known as a gurney, trolley, bed or cart) is often equipped with variable height frames, wheels, tracks, or skids.

## MARKET POTENTIAL

The Stretcher is an essential part of any Medical procedure. Today, various types of stretchers are available for basic medical requirements as well as specialized procedures. The most important function of the stretcher is to move the patient during treatment and in case of medical emergency sometimes stretchers may be used as as operation table or patient bed.

The largest segment in the total stretcher market is general stretchers. On average, specialty stretchers cost around two times as much as general stretchers, as for providing comfort to the patients the demand of this product is increasing day by day and there is good scope stretcher manufacturing industry as the demand of the improved technology stretchers is expected to increase in the future.

## BASIS AND PREASSUMPTIONS

1. It is based on eight working hours a day and Twenty Five days in a month and the break even efficiency has been calculated on 75% capacity utilization.
2. Labor and wages are mentioned as per prescribed minimum wages and the proprietor.
3. Interest is considered @ 16% in the project for recurring and non-recurring investment.
4. The margin money as applicable to general categories of entrepreneurs may be 25% of the project cost.
5. The payback period may be 5years after the loan has been disbursed.
6. The cost of the land, construction charges, cost of machinery and equipment, raw materials and consumables, other contingent expenses etc. indicated in the profile are based on the prices prevailing at the time of project preparation and can be changed from time based on local conditions.

## IMPLEMENTATION SCHEDULE

| Sr. No. | Activity   | Period in Days |
|---------|--|----------------|
| 1       | Survey for collection of data in respect of demand, raw material including power and fuel, Procurement of technical knowhow etc. | 0-45           |
| 2       | Arrangement of finance for margin money and other financial assistance.  | 30-60          |

|   |   |         |
|---|---|---------|
| 3 | Preparation of project report.  | 60-90   |
| 4 | Selection of site (rented building).  | 90-120  |
| 5 | Placement of orders and receipt of machines and of workers/staff recruitment.           | 120-150 |
| 6 | Procurement of raw material/bought out components/tools/measuring equipment/gauges etc. | 150-180 |
| 7 | Erection of machines/electrification and commissioning.                                 | 180-210 |
| 8 | Trial Production.   | 210-240 |
| 9 | Commercial Production.  | 240-270 |

## TECHNICAL ASPECTS

Process of Manufacture:

The process of manufacturing of stretchers does not involve any special technology. It is basically manufactured by sheet metal operation which involve bending and cutting of sheets. The sheets are cut as per drawing specifications by hydraulic presses and then M.S Pipes or SS Pipes are cut to the required sizes and specifications. The stainless steel sheets are used to cover the M.S Pipe and are attached to the pipes by L-N bolts hence holes are drilled in the pipes and then tapping is done. Tapping process is followed by welding process which is done with continuous consumable welding electrode Then after the inspection is done and after inspection parts are assembled and packed for dispatch.

## QUALITY CONTROL AND STANDARDS

Good workmanship and best quality of raw material must be used to satisfy the consumers.

## POLLUTION CONTROL

The manufacturing/fabrication of stretchers does not pose any problem to pollution. However proper ventilation is to be done in the shop floor area.

## ENERGY CONSERVATION

Suitable energy efficient motors are to be used on proposed machines with provisions of recommended shunt capacitors. The workers of this unit should be made aware of the need to conserve energy by switching off the energy sources when not required.

|           |                                       |           |      |           |           |
|-----------|---------------------------------------|-----------|------|-----------|-----------|
| <b>A.</b> | <b>FINANCIAL ASPECTS</b>              |           |      |           |           |
|           | <b>(i) LAND AND BUILDING</b>          |           |      |           |           |
|           | Shed covered area 300sq.mts.          |           |      |           | 4000      |
|           | <b>(ii) MACHINES &amp; EQUIPMENTS</b> |           |      |           |           |
| Sr.No.    | Description                           | Imp./Ind. | Qty. | Rate(Rs.) | Amount(In |

|               |   |      |              |                  | Rs.)               |
|---------------|---|------|--------------|------------------|--------------------|
| 1             | Lathe machine with all accessories.                         | Ind. | 1            | 80000            | 80000              |
| 2             | Sensitive Drilling Machine.                                 | Ind. | 2            | 15000            | 30000              |
| 3             | Arc Welding set (with lead)                                 | Ind. | 1            | 10000            | 10000              |
| 4             | Tungsten inert gas welding set.                             | Ind. | 1            | 65000            | 65000              |
| 5             | Metal inert gas welding set.                                | Ind. | 1            | 50000            | 50000              |
| 6             | Bench grinder with 8" wheel dia with 1hp motor.             | Ind. | 1            | 8000             | 8000               |
| 7             | Hydraulic Press.  | Ind. | 1            | 125000           | 125000             |
| 8             | Profile cutter with all accessories( hoses and nozzles).    | Ind. | 1            | 135000           | 135000             |
| 9             | Milling machine   | Ind. | 1            | 150000           | 150000             |
| 10            | Plasma cutter for cutting 6mm stainless steel sheet.        | Ind. | 1            | 15000            | 15000              |
| 11            | Mechanical sheet cutter.                                    | Ind. | 1            | 10000            | 10000              |
| 12            | Fly press No. 10.   | Ind. | 1            | 30000            | 30000              |
| 13            | Fly press No. 7.  | Ind. | 1            | 25000            | 25000              |
| 14            | Pipe cutter with 3HP motor 3Phase                           | Ind. | 1            | 20000            | 20000              |
| 15            | Hand Grinder.   | ind. | 2            | 2000             | 4000               |
| 16            | Work tables, racks.   | ind. | L.S          |                  | 10000              |
| 17            | Tools,Dies and jigs and fixtures and measuring instruments. | ind. | L.S          |                  | 20000              |
|               |   |      | <b>TOTAL</b> |                  | 787000             |
|               | Office furniture almirah, chairs and tables.                |      |              |                  | 50000              |
|               | Electrification & installation charges @ 10% of m\c cost    |      |              |                  | 78700              |
|               |   |      | <b>TOTAL</b> |                  | 915700             |
| <b>(iii)</b>  | <b>PRE - OPERATIVE EXPENES</b>                              |      | L.S          |                  | 100000             |
|               |   |      |              |                  |                    |
|               | <b>TOTAL FIXED CAPITAL {(i)+(ii)+(iii)}</b>                 |      |              |                  | 1019700            |
| <b>B.</b>     | <b>WORKING CAPITAL(PER MONTH)</b>                           |      |              |                  |                    |
| <b>(i)</b>    | <b>STAFF AND LABOUR</b>                                     |      |              |                  |                    |
| <b>Sr.No.</b> | <b>Designation</b>  |      | <b>Nos.</b>  | <b>Rate(Rs.)</b> | <b>Amt(In Rs.)</b> |
| 1             | Supervisor/Foreman(maintenance)                             |      | 1            | 18000            | 18000              |
| 2             | Skilled Workers   |      | 4            | 10000            | 40000              |
| 3             | Semi-Skilled Workers  |      | 6            | 7000             | 42000              |
| 4             | Storekeeper   |      | 1            | 7000             | 7000               |
| 5             | Clerk   |      | 2            | 7000             | 14000              |
| 6             | Helper  |      | 5            | 6000             | 30000              |
| 7             | Peon  |      | 1            | 5000             | 5000               |
| 8             | Chowkidar/Watchman  |      | 1            | 5000             | 5000               |
|               |   |      | <b>TOTAL</b> |                  | 161000             |
|               |   |      | <b>TOTAL</b> |                  | 161000             |

| <b>(ii) RAW MATERIALS</b>                          |                               |                    |           |                |
|--|-------------------------------|--------------------|-----------|----------------|
| Sr.No.   | Particulars                   | Qty.               | Rate(Rs.) | Amount(In Rs.) |
| 2  | M.S Pipe                      | 1100Kg.            | 66/Kg     | 72600          |
| 3  | Stainless Steel Sheets        | 500Kg.             | 180/Kg    | 90000          |
| 4  | Wheel Set                     | 25 Set of 4 wheels | 90/Set    | 2250           |
|  | <b>TOTAL</b>                  |                    |           | 164850         |
| <b>(iii) UTILITIES</b>                             |                               |                    |           |                |
| Sr.No.   | Description                   | AMOUNT(in Rs.)     |           |                |
| 1  | Power 3500 KWH @ Rs. 7/unit   | 24500              |           |                |
| 2  | Water                         | 3000               |           |                |
|  | <b>TOTAL</b>                  | <b>27500</b>       |           |                |
| <b>(iv) OTHER CONTIJENT EXPENSES</b>               |                               |                    |           |                |
| Sr.No.   | Description                   | AMOUNT(In Rs.)     |           |                |
| 1  | Consumable Stores             | 10000              |           |                |
| 2  | Stationary                    | 5000               |           |                |
| 3  | Transportation                | 10000              |           |                |
| 4  | Repairs and Maintenance       | 15000              |           |                |
| 5  | Advertisement and Publicity   | 6000               |           |                |
| 6  | Miscellaneous                 | 5000               |           |                |
| 7  | Insurence and Taxes           | 5000               |           |                |
|  | <b>TOTAL</b>                  | <b>56000</b>       |           |                |
| <b>(v) TOTAL RECURRING EXPENDITURE (PER MONTH)</b> |                               |                    |           |                |
| Sr.No.   | Description                   | AMOUNT(In Rs.)     |           |                |
| 1  | Staff and labour              | 161000             |           |                |
| 2  | Raw material                  | 164850             |           |                |
| 3  | Utilities                     | 27500              |           |                |
| 4  | Other contigent expenses      | 56000              |           |                |
|  | <b>TOTAL</b>                  | <b>409350</b>      |           |                |
| <b>(vi) TOTAL WORKING CAPITAL(FOR 3MONTHS)</b>     |                               |                    |           |                |
|  |                               | 1228050            |           |                |
| <b>C. TOTAL CAPITAL INVESTMENT</b>                 |                               |                    |           |                |
| Sr.No.   | Description                   | AMOUNT(In Rs.)     |           |                |
| 1  | Fixed capital                 | 1019700            |           |                |
| 2  | Working capital for 3 months. | 1228050            |           |                |
|  | <b>TOTAL</b>                  | <b>2247750</b>     |           |                |
| <b>FINANCIAL ANALYSIS</b>                          |                               |                    |           |                |
| Sr.No.   | (1) Cost of production        | AMOUNT(In Rs.)     |           |                |
| 1  | Total recurring cost          | 4912200            |           |                |

|        |  |         |   |                           |
|--------|--|---------|---|---------------------------|
| 2      | Dep. On plant macinary @ 10%               | 78700   |   |                           |
| 3      | Dep. On tools and accessories @ 25%        | 7500    |   |                           |
| 4      | Dep on office equipmnts @ 20%              | 6000    |   |                           |
|        | Interest on total capital investment @16%  | 359640  |   |                           |
|        | <b>TOTAL</b>                               | 5364040 |   |                           |
|        | <b>(2) Turn over( per year)</b>            |         |   |                           |
| SR.NO. | PARTICULARS                                | QTY.    | RATE(RS.)                                 | AMOUNT(IN RS.)            |
| 1      | By sale of Strecher                        | 500     | 6800                                      | 3400000                   |
| 2      | By sale of multipurpose stretcher          | 350     | 9000                                      | 3150000                   |
|        | <b>TOTAL</b>                               | 6550000 |   |                           |
|        | <b>(3) NET PROFIT(PER YEAR)</b>            |         |   |                           |
|        |  |         | TURN OVER - COST OF PRODUCTION            |                           |
|        |  |         |   | 1185960                   |
|        | <b>(4) PROFIT PERCENTAGE</b>               |         |   |                           |
|        |  |         | {(NET PROFIT X 100)/ TOTAL TURNOVER}      |                           |
|        |  |         |   | 18.10625954               |
|        | <b>(5)RATE OF RETURN</b>                   |         |   |                           |
|        |  |         | {(NET PROFIT X 100)/ TOTAL INVESTMENT}    |                           |
|        |  |         |   | 52.76209543               |
|        | <b>(6)BREAK EVEN POINT</b>                 |         |   |                           |
| Sr.No. | FIXED COST (PER YEAR)                      |         |   | AMOUNT(In Rs.)            |
| i)     | Depreciations                              |         |   | 78700                     |
| ii)    | Interest on total capital investment @ 16% |         |   | 359640                    |
| iii)   | 40% of the salary wages                    |         |   | 64400                     |
| iv)    | 40% of the other contigent expenses        |         |   | 22400                     |
| v)     | Rent and insaurence                        |         |   | 48000                     |
|        | <b>TOTAL FIXED COST</b>                    |         |   | 573140                    |
|        | <b>7) BREAK EVEN POINT CALCULATIONS</b>    |         |   |                           |
|        |  |         | {(FIXED COST X 100)/(FIXED COST +PROFIT)} |                           |
|        |  |         |   | (57314000/1759100)= 32.58 |
|        |  |         |   | <b>32.58</b>              |

## ADDRESSES OF MACHINERY AND EQUIPMENT SUPPLIERS

1. M/s. Amteep Machine Tools (P) Ltd.  
14/7, Mathura Road,  
Faridabad (Haryana)
2. M/s. Tool Today (India)  
D-52, Phase-V, Focal Point,  
Ludhiana-141101
3. M/s James Engg. Works  
Birhana Road,  
Kanpur (U.P)
4. M/s Batliboi and Co.  
Parliament Street, New Delhi.
5. M/s Ashoka Machine Tools Corp.  
A-15, Mayapuri, Indl.Area,  
New Delhi.

## ADDRESS OF THE PRESS SUPPLIERS

1. M/s Amteep Machine Tools (P) Ltd.  
14/7, Mathura Road,  
Faridabad (Haryana)
2. M/s Brison Industries  
262 Industrial Area "A"  
Ludhiana.