PROJECT PROFILE

ON

"HOSPITAL BEDS"

QUALITY & STANDARDS : As per IS/Customer specification
(IS 7378: 1974 Reaffirmed year : 2016)
(Bed, Fowler's, Hospital)

Year of Preparation : 2020-2021

PREPARED BY

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INTRODUCTION

Hospital beds are generally made up of steel and used in health care sector i,e hospitals, nursing home etc. There are different types of hospital beds available in the market like full electric, semi electric, low bed, manual, fowler etc. Here we will discuss about simple hospital beds and manually operated fowler beds. In medicine, Fowler's position is a standard patient position in which the patient is seated in a semi-sitting position (45-60 degrees) and may have knees either bent or straight. Due to growth of public health sector and medical facilities, this product has good opportunity.

MARKET POTENTIAL

The demand for these items are increasing day by day due to increase in number of Hospitals/ Nursing homes in Govt. and private sectors. Now a days large number of private hospitals are operating due to increased demand of health facility. Health sector is one of the fastest growing sector in recent time. It is also suitable for existing steel furniture manufacturer to diversify their work.

BASIS AND PRESUMPTIONS

- The information supplied is based on a standard type of manufacturing/servicing activity utilizing conventional techniques of production and optimum level of performance.
- 75% of the envisaged capacity is taken as efficiency on single working shift.
- Labour and wages are required as per present circumstances.
- The cost in respect of land & building, machine & equipment, raw material & selling price of finished product etc are those generally obtained at the time of preparation of project profile and may vary depending upon the location, make and for variety of reasons.
- The interest on total capital has been assumed @ 14% p.a

IMPLEMENTATION SCHEDULE

- Selection of site & Preparation of bankable project report 3 months
- Filing of Udyam Aakansha with GM, DTIC 3 days
- Submission of project report & sanction of finance from financial institution/ Bank 2 months
- Procurement of Plant, machinery & equipment 1 month
- Commissioning and erection of Plant & machinery and trial run 3 months
- Purchase of raw material & recruitment of labour & staff 1 month

- Start of commercial production — Immediately as soon as above activities completed
- Filing of Udyog Aadhar Memorandam — Immediately after the Enterprises has gone into regular production

TECHNICAL ASPECTS/ MANUFACTURING PROCESS

The manufacturing process of Hospital beds involves mainly cutting & bending of pipes, sheets, tubes, to desired size, folding, bending, drilling, punching, riveting, welding and assembling as per the drawings. Finally, the items are to be spray painted.

- Cutting & bending of pipes
- Cutting of MS angles
- Cutting of strips
- Welding and riveting
- Grinding
- Assembly
- Painting & Baking

PRODUCTION CAPACITY (per year)

1	Sale of simple hospital beds 200 Nos @6500/-each	Rs 13,00,000/-
2	Sale of Fowler hospital beds 300Nos @ 16000/-each	Rs 48,00,000/-
	Total	Rs 61,00,000/-

POLLUTION CONTROL

As these types of industries do not create pollution, however statutory compliance need to be fulfill as per Government guidelines before starting the work.

ENERGY COSERVATION

This industry is not a large power consuming industry, however maximum care should be taken in utilization of electricity.

FINANCIAL ASPECTS

FIXED CAPITAL

1. **Land & building** 500 sq. mtrs.
   With covered area of 300 sq. mtrs 15,000(approx.) on monthly rent basis

2**. Machinery & Equipments**

Sr. No.	Description	Qty	Rate (Rs.)	Price (Rs.)
1	Pedal operated shearing m/c	1	45,000/-	45,000/-
2	Hydraulic semi-automatic pipe bending m/c	3	90,000/-	2,70,000/-
3	Hand press	1	15,000/-	15,000/-
4	Bench drill machine	2	10,000/-	20,000/-
5	Gas cutting set with accessories	1	20,000/-	20,000/-
6	Powder coating oven	1	1,00,000/-	1,00,000/-
7	Punching m/c	1	10,000/-	10,000/-
8	Arc welding transformer	1	25,000/-	25,000/-
9	Riveting machine	1	35,000/-	35,000/-
10	Air compressor	1	30,000/-	30,000/-
11	Spot welding m/c	1	35,000/-	35,000/-
12	Double ended Grinding m/c	2	10,000/-	20,000/-
13	Portable drill machine	1	25,000/-	25,000/-
14	Flexible shaft grinder	1	10,000/-	10,000/-
15	Cleaning,pickling,phosphating tanks	L.S	L.S	1,00,000/-
16	Accessories/Hand tools/Instruments	L.S	L.S	25,000/-
			Total=	7,85,000/-
	Installation & electrification charge @ 10% of cost of machine=			78,500/-
17	Furniture & office equipment			45,000/-
18	Pre-operative expenses			30,000/-
		TOTAL		9,38,500/-

WORKING CAPITAL (per month)

1. **Personnel**

Sr. no.	Designation	No.	Total Salary (per month)
1	Welder	1	10,000/-
2	Cutter	1	8,000/-
3	Accountant	1	10,000/-
4	Painter	1	8,000/-
5	Semiskilled	2	12,000/-
5	Helper	2	6000/-
Total			54,000/-

2. **Raw material (per month)**

Description	Qty.	Rate	Amount
MS Tubes 38.10 mm OD x 1.2 mm thick	1.5 MT	42000	63000/-
MS Tubes 25.40 mm OD x 1.2 mm thick	1.5 MT	42000	63000/-
MS Tubes 19.50 mm OD x 1.2 mm thick	0.75 MT	42000	31500/-
MS strips	0.75 MT	36000	27000/-
Paint, electrode, gas etc	LS	10500	10500/-
M.S. Angle 40 mm x 40 mm x 3 mm	1 MT	35500	35500/-
Wheels	400 Nos.	50	20000/-
Nut/Bolts/washers/screws etc	L.S	L.S	20000/-
Total			2,70,500/-

3. **Utilities (per month)**

1	Electricity	20,000/-
2	Water	5000/-
Total		25,000/-

4. **Other expenses (per month)**

Sr. no.	Description	Rs.
1	Stationery &Transport charges	7000/-
2	Telephone	2000/-

3	Insurance	5000/-
4	Rent	15000/-
5	Repair & Maintenance	2000/-
6	Sales expenses	10000/-
	TOTAL	41000/-

Total recurring expenditure (per month)
1+2+3+4 = 3,90,500/-

Total working capital (for 3 months) = 3,90,500/-x 3 = 11,71,500/-

TOTAL CAPITAL INVESTMENT

1. Fixed capital (Machinery & Equipments) Rs. 9,38,500/-

2. working capital for three months Rs. 11,71,500/-

Total = Rs. 21,10,000/-

FINANCIAL ANALYSIS

- **Cost of production (per year)**

Total recurring cost per year	Rs. 46,86,000/-
Depreciation on machinery	
& equipment @ 10%	Rs. 78,500/-
Depreciation on office furniture @ 20%	Rs. 9,000
Interest on total investment @ 14%	Rs. 2,95,400/-
Total cost of production	Rs. 50,68,900/-

- **Total sale (per year)**

1	Sale of simple hospital beds 200 Nos @6500/-each	Rs 13,00,000/-
2	Sale of Fowler hospital beds 300Nos @ 16000/-each	Rs 48,00,000/-
	Total	Rs 61,00,000/-

- **Net profit (per year)**

=61,00,000/– 50,68,900/-

= 10,31,100/-

- **Net profit ratio**

$$= \frac{\text{Net profit per annum x 100}}{\text{Total sale per annum}}$$

$$= \frac{1031100 \times 100}{6100000}$$

= 16.09 %

- **Rate of return**

$$= \frac{\text{Net profit per annum x 100}}{\text{Total capital investment}}$$

$$= \frac{1031100 \times 100}{2110000}$$

= 48.86 %

- **Break even point**

1**. Fixed cost per annum**	Rs.
a. Depreciation on machinery & equipments @10%	78500/-
b. 40% of other expenses (excluding rent & insurance)	115200/-
c. 40% of salary & wages	259200/-
d. Interest on capital investment @14%	295400/-
e. Rent	180000/-
f. Insurance	60,000
	Total= 988300/-

2. Breakeven point

$$= \frac{\text{Fixed cost x 100}}{\text{Fixed cost + profit}}$$

$$= \frac{988300 \times 100}{988300+1031100}$$

$$= 48.94\%$$

1. **Addresses of Machinery Suppliers –**

1.Dravya Electronics, sec.-22 Gandhinagar, Dist-Gandhinagar
2.Hipat Machine tools, Jagatpur, cuttuck, Orissa
3.Air & Industrial equipment company, A.T.road Guwahati
4.D.H.Enterprises, Rajbagh, Gaziabad
5.Shiv Shakti Agency, Nehru bazar, Udaipur
6.Ghanshyam heat electromake industries, Odhav, Ahmedabad
7.R.S. electro alloys pvt.ltd.,Paschim vihar, New Delhi
8.Jayson machines impex, Gondal Road, Rajkoat