

**PROJECT PROFILE
ON
“ADJUSTABLE HOSPITAL BEDS”**

QUALITY & STANDARDS : As per IS/Customer specification
(IS 7378: 1974 Reaffirmed year: 2016)
(Adjustable hospital Bed / Ward bed/ Maternity Bed /Manual Fowler Bed)

Year of Preparation: 2020-2021

PREPARED BY
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PROJECT PROFILE ON ADJUSTABLE HOSPITAL BEDS

INTRODUCTION

Adjustable Hospital Beds that are widely used in hospitals and clinics. In order to meet the functionality of the product in a hospital, these beds are made in a wide range, e.g. Fowler Hospital Bed, Semi Fowler, Plain, Recovery, Paediatric, Fracture, ICU Hospital Bed, General hospital bed with rigid mesh mattress platform. Out of these, Fowler hospital beds and Adjustable hospital beds are in large demand. Here we will discuss about Adjustable hospital beds and manually operated fowler beds.

MARKET POTENTIAL

The demand for adjustable hospital beds is increasing due to increase in the number of hospitals and their expansion and increase in number of private and government nursing homes, A large number of new hospitals and nursing homes are coming up in order to meet the patients' demand. It has led to steady increase in the requirement of hospital furniture. The growth rate is expected to be substantial. As such there is a vast scope for the steel furniture manufacture units to take up this activity for not only as a diversification but also better capacity utilization by installing a few balancing equipments.

BASIS AND PRESUMPTIONS

- The unit will work for 300 days per annum on single shift basis.
- 75% of the envisaged capacity is taken as efficiency on single working shift.
- 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, Range and many other reasons.
- The wages for workers are taken as per prevailing rates in these type of industry.
- Interest rate for total capital investment is calculated @ 12% per annum.

IMPLEMENTATION SCHEDULE

- Selection of site & Preparation of bankable project report : 3 months
- Submission of project report & sanction of finance from financial institution/ Bank : 2 months
- Procurement of 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
- Filing of Udyam Registration : Immediately

TECHNICAL ASPECTS

MANUFACTURING PROCESS

The basic operations involved in the manufacture of adjustable beds are

- Cutting and bending of Mild Steel pipes
- Cutting and bending of M.S.strips
- Cutting of M.S. angles
- Welding
- Riveting
- Grinding
- Assembly of elevating mechanism
- Painting & Baking.

POLLUTION CONTROL

These types of units do not produce effluents or any other polluting materials. Therefore pollution control measures are not taken into account. However, statutory compliances need to be fulfilled as per Government guidelines before starting the work.

ENERGY COSERVATION

This industry is not a large-scale power consuming industry. However maximum care should be taken in conservation of electrical energy.

PRODUCTION CAPACITY (per year)

1.	Sale of Adjustable hospital beds 350Nos @6500/-each	Rs. 22,75,000/-
2.	Sale of Fowler hospital beds 400 Nos @ 18000/-each	Rs. 72,00,000/-
	Total	Rs. 94,75,000/-

FINANCIAL ASPECTS

FIXED CAPITAL

1. **Land & building** 600 sq. mtrs. with covered area of 400 sq. mtrs
Monthly rent – Rs. 20,000/-

2. Machinery & Equipments.

Sl.No.	Description	Qty	Rate (Rs.)	Price (Rs.)
1.	Hydraulic semi-automatic pipe bending m/c	3	95,000/-	2,85,000/-
2.	Arc welding sets	2	25,000/-	50,000/-
3.	Gas cutting set with torch, regulators etc.	2	38,000/-	76,000/-
4.	Bench drilling machine 13 mm capacity	1	22,500/-	22,500/-
5.	Portable drilling machine 13 mm capacity	2	26,500/-	53,000/-
6.	Flexible shaft grinder 150 mm wheel	2	17,500/-	35,000/-
7.	Double ended bench grinder 300 mm size	1	6,500/-	6,500/-
8.	Hand shearing machine 3 mm capacity	2	40,000/-	80,000/-
9.	Baking oven 2.5 x 2 m x 2 m size 20 kW	1	20,000/-	20,000/-
10.	Hand Press	2	20,000/-	40,000/-
11.	Cleaning, Pickling, Phosphating tanks 2.5 x 2 x 2 m-	L.S.	L.S.	1,00,000/-
12.	Compressor with spray gun unit for painting	2	13,000/-	26,000/-
13.	Riveting machine portable type electrical	1	56,000/-	56,000/-
14.	Hand tools, instruments. Fixtures and dies.	L.S	L.S.	50,000/-
			Total =	9,00,000/-
	Installation & electrification charge @ 10% of cost of machine			90,000/-
15.	Furniture & Office Equipment	--	--	60,000/-
16.	Pre-operative expenses	--	--	50,000/-
			Grand Total =	11,00,000/-

WORKING CAPITAL (per month)

1. Personnel (per month)

Sl. No.	Designation	Nos	Salary (Per month) Rs.
1.	Supervisor	1	25,000/-
2.	Welder	1	20,000/-
3.	Cutter	1	20,000/-
4.	Painter	1	20,000/-
5.	Semi Skilled	2	20,000/-
6.	Helper	2	15,000/-
7.	Accountant	1	15,000/-
		Total =	1,35,000/-

2. Raw material (per month)

Sl. No.	Description	Quantity	Rate / MT	Amount
1.	M.S Tubes 38.10 mm OD x 1.22 mm thick	3.0 MT	40,000/-	1,20,000/-
2.	M.S Tubes 25.40 mm OD x 1.22 mm thick	1.8 MT	41,000/-	73,800/-
3.	M.S Tubes 19.50 mm OD x 1.22 mm thick	1.2 MT	42,000/-	50,400/-
4.	M.S Angle 40 mm x 40 mm x 3 mm and 38 mm x 38 mm x 3 mm	1.2 MT	40,000/-	48,000/-
5.	M.S Strips	1.2 MT	36,000/-	43,200/-
6.	Caster wheels, Nuts, bolts, screws, washers, flats, rubber items, Electrode, Gas, Paint etc.	L.S	L.S	65,000/-
Total =				4,00,400/-

3. Utilities (per month)

Sl. No.	Description	Amount (Rs.)
1.	Electricity	20,000/-
2.	Water	1000/-
Total=		21,000/-

4. Other expenses (per month)

Sl. No.	Description	Amount (Rs.)
1.	Repair & Maintenance @ 10% PA	10,000/-
2.	Rent	20,000/-
3.	Insurance	1000/-
4.	Stationery & Transport charges	5000/-
5.	Telephone	2000/-
6.	Sales expenses	10,000/-
Total=		48,000/-

Total recurring expenditure (per month) = 1+2+3+4 = Rs. 6, 04,400/-

Total working capital (for 3 months) = 6, 04,400/- x 3 = Rs. 18, 13,200/-

TOTAL CAPITAL INVESTMENT

1.	Fixed capital (Machinery & Equipments)	Rs. 11,00,000/-
2.	working capital for three months	Rs. 18,13,200/-
Total =		Rs. 29,13,200/-

FINANCIAL ANALYSIS

Cost of production (per year)

#	Description	Amount (Rs.)
1.	Total recurring cost per year	72,52,800/-
2.	Depreciation on machinery & equipment @ 10%	90,000/-
3.	Depreciation on office furniture @ 10%	6,000/-
4.	Interest on total investment @ 12%	3,49,584/-
	Total cost of production=	76,98,384/-

TOTAL SALE (per year)

#	Description	Amount (Rs.)
1.	Sale of Adjustable hospital beds 350Nos @6500/-each	22,75,000/-
2.	Sale of Fowler hospital beds 400 Nos @ 18000/-each	72,00,000/-
	Total	94,75,000/-

NET PROFIT (per year)

$$= 94,75,000 - 76,98,384 = \text{Rs. } 17,76,616/-$$

NET PROFIT RATIO

$$= \frac{\text{Net profit per annum} \times 100}{\text{Total sale per annum}} = \frac{17,76,616 \times 100}{94,75,000} = 18.75 \%$$

RATE OF RETURN

$$= \frac{\text{Net profit per annum} \times 100}{\text{Total capital investment}} = \frac{17,76,616 \times 100}{29,13,200} = 61.0 \%$$

BREAK EVEN POINT

Sl. No.	Fixed cost per annum	Amount (Rs.)
1.	Depreciation on machinery & equipments @10%	90,000/-
2.	40% of other expenses (excluding rent & insurance)	1,29,600/-
3.	40% of salary & wages	6,48,000/-
4.	Interest on capital investment @12%	3,49,584/-
5.	Rent	2,40,000/-
6.	Insurance	12,000/-
	Total =	14,69,184/-

$$= \frac{\text{Fixed cost} \times 100}{\text{Fixed cost} + \text{profit}} = \frac{14,69,184 \times 100}{14,69,184 + 17,76,616} = 45.26 \%$$

ADDRESSES OF MACHINERY SUPPLIERS

3/204 E2, Near L&T By-pass Road, Venkittapuram,
Coimbatore - 641064, Dist. Coimbatore - Tamil Nadu

Old No. 150, Linghi Chetty Street, Parrys Opposite Canara Bank, Park Town,
Chennai - 600001, Dist. Chennai - Tamil Nadu

Valli Vihar, 1021, Sathy Road, Lakshmipuram, Ganapathy,
Coimbatore - 641006, Dist. Coimbatore - Tamil Nadu

Old No. 69, Sembudoss Street, George Town,
Chennai - 600001, Dist. Chennai - Tamil Nadu

9 - A / 4, 1st Floor Viswanathapuram, Lakshmipuram, Ganapathy,
Coimbatore - 641006, Dist. Coimbatore - Tamil Nadu

No. 7, Jeeva 1st Street, Kavangari, Puzhal,
Chennai - 600066, Dist. Chennai - Tamil Nadu

No. 563, George Rathinam Road G. G. Nagar, Nerkundram,
Chennai - 600107, Dist. Chennai - Tamil Nadu

3/24b, Varathalyengar Palayam Near Lakshmi Garden, Kondayampalayam,
Coimbatore - 641110, Dist. Coimbatore - Tamil Nadu

No. 9, Vellalar Street, School Road East, Aynambakkam,
Chennai - 600095, Dist. Chennai - Tamil Nadu

No.9 Thiru Vi Ka Street / T.M.P. Nagar, Ambattur, Padi,
Chennai - 600050, Dist. Chennai, Tamil Nadu