

**PROJECT PROFILE ON
OPERATION THEATER TABLE (OT Table)**

PRODUCT : **OPERATION THEATER TABLE (O T Table)**

IS STANDARD / SPECIFICATION : **IS : 5291-1969** (*Specification for tables, operation, hydraulic, major*)
IS 6106 – 1971 (*Specification for tables, operation, hydraulic, minor*)

PRODUCTION CAPACITY : **600 Nos. / Annum**

MONTH & YEAR PREPARATION : **May 2020**

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Govt. of India**

PROJECT PROFILE FOR MANUFACTURING OF OPERATION THEATER TABLE

INTRODUCTION

Operation Theater (OT) Tables are generally made from stainless steel and / or chrome plated sections with arrangements for fitting required accessories. OT table requires immense attention towards its designing. Operation theater tables used in the operation theaters of the Hospitals are of various types such as with or without hydraulic attachments for lifting / lowering / tilting etc. OT Tables are designed for easy to clean for preventing the germs to spread.

OT tables are required to be provided with wide range of facilities for attachment of Equipments / accessories needed during Medical emergencies and critical operations. Smooth gear mechanism to avail all required operating positions, hydraulic / pneumatic mechanisms / attachments for lifting/ lowering / tilting / angular motion. Wheel base for easy mobility with floor locking facility for stable work.

MARKET POTENTIAL

With the increase in the population / new hospitals and upgradation of existing Hospitals , the OT tables are the need of time.

BASIS & PRESUMPTIONS

1. The scheme is worked out on a single shift basis of 8 hours in a day for 25 working days in a month.
2. The rate of interest in the scheme has been worked out on the basis of 12% on an average; however, this figure is likely to vary depending upon the financial outlay of the project as well as location of the unit.
3. The cost of machinery and equipment as indicated is approximate ruling locally at the time of preparation of the scheme.
4. The rates considered in respect of salaries and wages for workers and others are the minimum rates in the state/neighboring states.
5. Land and building is on rent.

IMPLEMENTATION SCHEDULE

Project implementation will take a period of 6 months from the date of approval of scheme. Break up of individual activity is shown below :-

S. No	Activity	Period (In weeks)
1.	Preparation of the project report	01
2.	Site Selection	02
3.	Trade license Registration	05
4.	Financial Arrangement / Loan	08
5.	Procurement of Machinery & Equipments	04
6.	Installation and Electrification	03
7.	Recruitment of Staff and workers	01

TECHNICAL ASPECTS

A. Design, Dimensions, Raw Material details of OT Table : As per IS : 5291-1969 or *IS 6106 – 1971*

B. Manufacturing process

The Manufacturing process involves series of machining and fabrication work.

The following steps are involves in manufacturing of OT tables :-

1. Raw Material Procurement
2. Testing of Raw Material as per relevant Standard / Specification
3. Cutting / Bending of Sections / Sheet
4. Drilling / Machining
5. Welding / Fabrication
6. Grinding Machining
7. Inspection / Quality Control
8. Assembly
9. Final Inspection / Quality Control / Product Testing
10. Packaging & Despatch

C. Quality Control and Quality Assurance :

The Raw material & product must meets the requirement as per IS : 5291-1969 or *IS 6106 – 1971*

FINANCIAL ASPECTS

A) LAND & BUILDING

- A built up area of 300 Sq. Mtr on rental basis Rs. 25,000/- per month.

B) MACHINERY & EQUIPMENTS

S.No.	Description	Quantity	Amount
1.	Treadle Guillotine Shearing Machine 48" width	1 Nos.	Rs. 5,00,000
2.	Lathe Machine 4' Size with standard accessories	1 Nos.	Rs. 2,00,000
3.	Bench Drilling Machine 3/4" capacity	1 No	Rs. 1,00,000
4.	Sheet Bending Machine	1 No	Rs. 5,00,000
5.	TIG Welding Set 300 Amp	1 Nos.	Rs. 2,60,000
6.	MIG Welding Set 300 Amp	1 Nos.	Rs. 2,50,000
7.	Pipe Cutting Machine	1 Nos.	Rs. 40,000
8.	Pipe Bending Machine	1 Nos.	Rs. 30,000
9.	Bench Grinder	1 Nos.	Rs. 70,000
10.	Power Press 30 MT	1 Nos.	Rs. 4,00,000
11.	Hand Grinder	1 Nos.	Rs. 65,000
12.	Hand Drilling Machine	01 Nos.	Rs. 50,000
13.	Installation & Electrification	10% of to cost of Machinery	Rs. 2,50,000
14.	Tools & Dies	LS	Rs. 2,00,000/-
15.	Measuring Instruments (Vernier calipers, Micro metals, measuring tape)	LS	Rs. 40,000/-
16.	Furniture & Office Equipments	LS	Rs. 5,00,000/-
17.	Pre Operative Expenses	LS	Rs. 3,00,000/-
	Total		Rs. 37,55,000/-

C) WORKING CAPITAL (PER MONTH)**i) Staff & Labour**

S. No	Description	Nos.	Salary	Amount
1.	Foreman / Supervisor	01	20000	Rs. 20,000/-
2.	Sales / Manager	01	25000	Rs. 25,000/-
3.	Accountant –cum- Store Keeper	01	15000	Rs. 15,000/-
4.	Skilled Workers	02	15000	Rs. 30,000/-
5.	Semi Skilled Workers	03	12000	Rs. 36,000/-
6.	Un Skilled Workers	02	9000	Rs. 18,000/-
	Total			Rs. 1,44,000/-

Add Pre operative expenses @ 15% of salary
Total

Rs. 21,600/-
Rs. **1,65,600/-**

ii) Raw Material / Spares / Accessories Parts

S. No	Description	Quantity	Rate	Total Amount
1.	Stainless Steel / Pipe / Bar / Wire	2500 Kg	Rs. 250/- kg	Rs. 5,00,000/-
2.	Rubber / nylon items	50 Sets	Rs. 400/- set	Rs. 20,000/-
3.	Moulded Plastic Parts	50 Sets.	Rs. 400/- set	Rs. 20,000/-
4.	Gear Box	50 No.	Rs. 4000/-	Rs. 2,00,000/-
5.	Hydraulic Pump	100 No.	Rs.5000/- pump	Rs. 5,00,000/-
6.	50 mm thick electrically sealed mattress	50 sets	Rs. 4000/-	Rs. 2,00,000/-
7.	Steel Hardware/Misc.	LS	--	Rs. 2,50,000/-
			Total	Rs. 16,90,000/-

iii) Utilities

Electricity and Water charges – LS

Rs. 15,000/-

iv) Other contingency expenses

S.No.	Description	Amount
1.	Rent	Rs. 25000/-
2.	Insurance	Rs. 5000/-
3.	Advertisement / Publicity	Rs. 7000/-
4.	Traveling Expenses	Rs. 5000/-
5.	Consumable Stores	Rs. 5000/-
6.	Repair & Maintenance	Rs. 10000/-
7.	Transportation & Packaging Charges	Rs. 15000/-
8.	Postage & Stationery	Rs. 2000/-
9.	Telephone Expenses	Rs. 1000/-
10.	Misc Expenses	Rs. 5000/-
	Total	Rs. 80,000/-

v) Total Recurring Expenses (Per Month)

1	Personnel	Rs 1,65,600
2	Raw Material	Rs. 16,90,000
3	Utilities	Rs. 15,000/-
4	Other cont. exp	Rs. 80,000/-
5	TOTAL	Rs. 19,50,600

vi) Total Working Capital (for 3 months) : Rs. 19,50,600/- X 3 = Rs. 58,51,800/-

D. TOTAL CAPITAL INVESTMENT

- | | | |
|----|---------------------------------|--------------------------|
| 1. | Fixed Capital | = Rs. 37,55,000/- |
| 2. | Working Capital (fro 3 months) | = Rs. 58,51,800/- |
| | Total | = Rs. 96,06,800/- Or Say |

Rs. 96,07,000/-

E. FINANCIAL ANALYSIS

1. Cost of Production

Total recurring cost per annum		Rs. 2,34,07,200
Depreciation on machinery & equipments @ 10%		Rs. 2,71,500
Depreciation on Furniture and office equipment @ 20%		Rs. 1,00,000
Depreciation on tools, dies and measuring instruments @ 25%		Rs. 60,000
Interest on total investment @ 12% pa		Rs. 11,52,840
Total		Rs. 2,49,91,540

2. Total Sales (per annum)

Sl. No.	Items	Qty	Rate	Total Sales
1	OT Beds	600	45,000	2,70,00,000

3. Net Profit (Per Year) (Before Tax) = Total Sales – Cost of Production

$$= \text{Rs. } 2,70,00,000 - \text{Rs. } 2,49,91,540$$

$$= \text{Rs. } 20,08,560$$

4. Profit Ratio = $\frac{\text{Net Profit} \times 100}{\text{Turnover per annum}}$

$$= \text{Rs } 20,08,560 \times 100 / 2,70,00,000$$

$$= 7.44 \%$$

5. Rate of Return = $\frac{\text{Net Profit Per Year} \times 100}{\text{Capital Investment}}$

$$= \text{Rs } 20,08,560 \times 100 / 96,07,000$$

$$= 20.9 \%$$

6 Break Even Point

a) Fixed Cost (Per annum)

1. Depreciation	: Rs 4,31,500
2. Interest on Investment	: Rs 11,52,840
3. 40% of Salary and wages	: Rs 7,94,880
4. 40 % of other cont. expenses and utilities	: Rs 2,40,000
5. Insurance	: Rs 60,000
6. Rent	: Rs 3,00,000
TOTAL	: Rs 29,79,220

Net Profit (Per Year) Rs. 20,08,560/-

BEP = Fixed Cost per annum X 100/ (Fixed Cost per annum + Profit Per annum)

$$= 59.7 \%$$

F. ADDRESSES OF MACHINERY & EQUIPMENT SUPPLIERS

1.	m/S. Warpp Engineers (P) Ltd., Plot No. 67, Indl. Estate, Charkop, Kandivli (West) MUMBAI – 400 067 Ph 022 2868 7298	2.	M/s. Om Mechanical Works, Plot No. 5, Gali No. 4, New Rohtak Road Indl. Area, New Delhi
3.	M/s. United Engg. Corporation B-96, Mayapuri Phase I, Rewai Line, New Delhi	4.	M/s. Vishwakala Machine Tools, Gondal Road, Near ST Workshop, Rajkot – 300 004
5.	M/s. Modern Tools Mfrs. N-18, Phase I, Mayapuri Indl Area, New Delhi	6.	M/s. Berco Welding & Electricals (P) Ltd., GT Road, By Pass, Near Indl. Estate, Jalandhar City

G. RAW MATERIAL SUPPLIERS

Raw material locally available in the market.