## **PROJECT REPORT**

Of

# **OPERATION THEATRE TABLE**

### **PURPOSE OF THE DOCUMENT**

This particular pre-feasibility is regarding **Operation Theatre Table**.

The objective of the pre-feasibility report is primarily to facilitate potential entrepreneurs in project identification for investment and in order to serve his objective; the document covers various aspects of the project concept development, start-up, marketing, finance and management.

[We can modify the project capacity and project cost as per your requirement. We can also prepare project report on any subject as per your requirement.]



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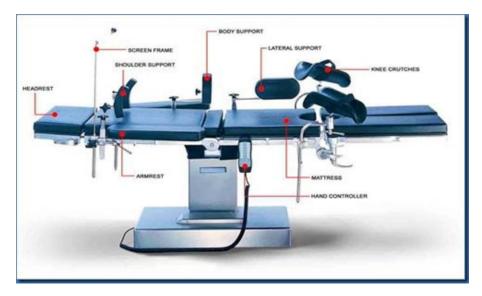
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	PRO	JEC	T AT A GLANCE		
1	Name of the Entreprenuer		XXXXXXXXXX		
2	Constitution (legal Status)		xxxxxxxxx		
3	Father / Spouse Name		XXXXXXXXXXX		
4	Unit Address		****		
			District : Pin: Mobile	XXXXXXX XXXXXXX S XXXXXXX	State: xxxxxxxxxx
_				****	
5	Product and By Product	:	OPERATION THEATRE TABLE		
6	Name of the project / business activity proposed :		OPERATION THEATRE TABLE UNIT		
7	Cost of Project	:	Rs.18.56 Lakhs		
8	Means of Finance Term Loan Own Capital Working capital		Rs.11.7 Lakhs Rs.1.86 Lakhs Rs.5 Lakhs		
9	Debt Service Coverage Ratio	:	2.28		
10	Pay Back Period	:	5	Years	
11	Project Implementation Period	:	5-6	Months	
12	Break Even Point	:	34%		
13	Employment	:	8	Persons	
14	Power Requirement	:	20.00	HP	
15	Major Raw materials	:	Stainless steel,Anti static rubber nylon tread c pump,Other consumables	aster,Moulded plastic parts,Gear B	ox,Hydraullic
16	Estimated Annual Sales Turnover (Max Capacity)	:	102.95	Lakhs	
17	Detailed Cost of Project & Means of Finance				
				(D. J. J. 1.)	
	COST OF PROJECT		Particulars	(Rs. In Lakhs) Amount	
			Land Building /Shed 1000 Sq ft	Own/Rented 5.00	
			Plant & Machinery	6.70	
			Furniture & Fixtures	1.30	
			Working Capital Total	5.56 18.56	
	MEANS OF FINANCE		Particulars	Amount	
			Own Contribution	1.86	
			Working Capital(Finance)	5.00	
			Term Loan	11.70	
			Total	18.56	

# **OPERATION THEATRE TABLE**

**Introduction:** Operation Theater (OT) Tables are generally made from stainless steel and / or chrome plated sections and fitted with other required accessories OT table requires immense attention towards its designing. To make cleaning more effective and efficient, it is always suggested to make the OT tables easy to clean especially the places like seams and cracks, that propagate bacteria / germs, should not be there to keep bacteria / germ free. 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., with or without ortho attachment, specially used as gynae / labour OT table, etc.



**Uses & Market Potential:** The uses of an operating table depend on its design and specifications. For example, some operating tables are designed to perform a wide range of procedures while others are designed specifically for orthopedic procedures. A patient lies on the operating table during a surgical procedure. The purpose of a surgical table is to keep the patient in place while the surgical team operates, and may move various parts of the body using surgical table accessories for easier access to the surgical site. Countless

procedures are performed on operating tables. These include cardiovascular, gynecology, pediatric, orthopedic, and pediatric surgeries. Because of the variety of procedures and types of surgical tables, weight and height restrictions are set to keep the patient safe during surgery.

With the increase in the population no. of new hospitals are coming up in Govt and private sector and also the existing hospitals are upgrading / extending their facilities. This is creating good market potential for OT Tables.

### **<u>Raw materials:</u>** Major raw materials are as follows:

- 1. Stainless steel
- 2. Anti static rubber nylon tread caster
- 3. Moulded Plastic parts
- 4. Gear Box
- 5. Hydraulic pump 50 mm thick
- 6. Electrically sealed mattress
- 7. Steel hardware & other misc consumables

### **<u>Machinery Requirements:</u>** Basic machines & equipments are as follows:

S No.	Machine	Unit	Price
1.	Treadle Guillotine Shearing Machine 48"	1	120000
	width		
2.	Lathe Machine 4' Size with standard	1	100000
	accessories		
3.	Bench Drilling Machine 3/4"capacity	1	25000
4.	Sheet Bending Machine	1	125000
5.	TIG Welding Set 300 Amp	1	65000
6.	MIG Welding Set 300 Amp	1	65000
7.	Power Press 30 MT	1	90000
8.	Other machines & equipments	Ls	80000
	Total Amount		670000

**Manufacturing Process:** OT Tables are designed to prevent the germs to avoid infection to the patient and staff. Sweeping and curvy designs in OT tables are ideal, as they reduce the amount of seams that comes into the contact with atmosphere, to avoid bacteria to hide. For calculation purposes the OT Table without orthopedic attachments is considered in this project profile. OT table have following parts :-

- 1. Table Top
- 2. Base
- 3. Head & Leg Section
- 4. Hydraulic Lift & accessories

Steps are as follows:

- Cutting of sections/sheets
- Bending
- Drilling
- Welding
- Grinding
- Sub Assembling
- Final Assembling
- Final Packaging & dispatch

Major Head, Base, Top of the Frame, Slide Bars, Locks, Pump Lever etc. are made of stainless steel and standard accessories includes – Foot extension, side support, shoulder support, antistatic rubber pad, anesthetic screen, kidney elevator, leather wristlets, arm support anesthetic foam rubber mattress, arm woods etc.

## <u>Area:</u>

The industrial setup requires space for Inventory, workshop or manufacturing area, space for power supply utilities and auxiliary like Generator setup. Also some of the area of building is required for office staff facilities, documentation, office furniture, etc. Thus, the approximate total area required for complete industrial setup is 2000 to 2500Sqft. Civil work will cost Rs 5 Lac. (Approx.)

**<u>Power Requirement</u>**: The power consumption required to run all the machinery could be approximated as 20hp

**Manpower Requirement**- There are requirement of skilled machine operators to run the machine set. Experience quality engineers are required for desired quality control. Some helpers are also required to transfer the material from one work station to other. Office staffs are required to maintain the documentation. The approximate manpower required is 8 including 1 Supervisor, 1 Machine operator, 1 unskilled worker, 1 Helper and 1 Security guard. 3 Skilled worker including Accountant, Manager and Sales person.

**Bank Term Loan:** Rate of Interest is assumed to be at 11%

**Depreciation:** Depreciation has been calculated as per the Provisions of Income Tax Act, 1961

### **Approvals & Registration Requirement:**

Basic registration required in this project:

- GST Registration
- Udyog Aadhar Registration (Optional)
- Choice of a Brand Name of the product and secure the name with Trademark if require.
- NOC from State Pollution Control Board

## Implementation Schedule:

S No.	Activity	Time required	
1.	Acquisition of premises	1-2 Months	
2.	Procurement & installation of Plant & Machinery	1-2 Months	
3.	Arrangement of Finance	1.5-2 Months	
4.	Requirement of required Manpower	1 Month	
5.	Commercial Trial Runs	1 Month	
	Total time Required (some activities shall run	5-6 Months	
	concurrently)		

# **FINANCIALS**

I	п	III	IV	v
1.86	-			
2.53	3.53	5.56	8.79	12.12
1.64	1.42	1.24	1.08	0.94
5.00				
11.70	-	-	-	-
0.76	0.13	0.09	0.09	0.09
23.48	5.08	6.89	9.95	13.15
13.00	-	-	-	-
4.21	0.69	0.63	0.66	0.68
2.89	0.62	0.52	0.55	0.58
1.30	2.60	2.60	2.60	2.60
-	-	1.11	2.64	3.64
1.00	1.00	2.00	3.00	5.00
22.40	4.91	6.86	9.44	12.49
-	1.08	1.26	1.28	1.80
1.08	0.17	0.03	0.52	0.65
1.00	1.00	1.00	1.00	2.45
	1.86   2.53   1.64   5.00   11.70   0.76   23.48   13.00   4.21   2.89   1.30   -   1.00   22.40	1.86 -   2.53 3.53   1.64 1.42   5.00 -   0.76 0.13   23.48 5.08   23.48 5.08   13.00 -   4.21 0.69   2.89 0.62   1.30 2.60   - -   1.00 1.00   22.40 4.91   - 1.08   0.17 -	1.86 -   2.53 3.53   5.00 -   11.70 -   0.76 0.13   0.76 0.68   0.69 0.63   2.89 0.62 0.52   1.30 2.60 2.60   - - 1.11   1.00 1.00 2.00   22.40 4.91 6.86	Image: state of the s

PROJECTED BALANCE SHEET	[	-			
PARTICULARS	I	II	ш	IV	v
SOURCES OF FUND					
Capital Account					
Opening Balance	-	3.38	5.92	8.37	11.52
Add: Additions	1.86	-	-	-	-
Add: Net Profit	2.53	3.53	4.45	6.15	8.48
Less: Drawings	1.00	1.00	2.00	3.00	5.00
Closing Balance	3.38	5.92	8.37	11.52	15.00
CC Limit	5.00	5.00	5.00	5.00	5.00
Term Loan	10.40	7.80	5.20	2.60	0.00
Sundry Creditors	0.76	0.89	0.98	1.06	1.15
TOTAL:	19.54	19.60	19.54	20.18	21.16
APPLICATION OF FUND					
Fixed Assets (Gross)	13.00	13.00	13.00	13.00	13.00
Gross Dep.	1.64	3.06	4.29	5.37	6.31
Net Fixed Assets	11.37	9.94	8.71	7.63	6.69
Current Assets					
Sundry Debtors	2.89	3.51	4.02	4.57	5.15
Stock in Hand	4.21	4.90	5.53	6.18	6.86
Cash and Bank	1.08	1.26	1.28	1.80	2.45
TOTAL :	19.54	19.60	19.54	20.18	21.16

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PROJECTED PROFITABILITY STATE	EMENT				
PARTICULARS	I	п	III	IV	v
A) SALES					
Gross Sale	57.71	70.15	80.48	91.42	102.95
Total (A)	57.71	70.15	80.48	91.42	102.95
B) COST OF SALES					
Raw Material Consumed	32.58	38.01	41.81	45.61	49.41
Elecricity Expenses	1.45	1.61	1.77	1.93	2.10
Repair & Maintenance	5.77	7.01	8.05	9.14	10.30
Labour & Wages	7.43	8.18	9.40	10.81	12.44
Depreciation	1.64	1.42	1.24	1.08	0.94
Cost of Production	48.87	56.24	62.27	68.58	75.18
Add: Opening Stock /WIP	-	2.58	3.00	3.44	3.90
Less: Closing Stock /WIP	2.58	3.00	3.44	3.90	4.39
Cost of Sales (B)	46.29	55.82	61.83	68.11	74.69
C) GROSS PROFIT (A-B)	11.42	14.33	18.65	23.30	28.26
	19.79%	20.42%	23.17%	25.49%	27.45%
D) Bank Interest (Term Loan )	1.27	1.04	0.75	0.46	0.18
ii) Interest On Working Capital	0.55	0.55	0.55	0.55	0.55
E) Salary to Staff	5.92	6.75	7.76	8.93	10.27
F) Selling & Adm Expenses Exp.	1.15	2.46	4.02	4.57	5.15
TOTAL (D+E)	8.90	10.79	13.09	14.51	16.14
H) NET PROFIT	2.53	3.53	5.56	8.79	12.12
I) Taxation	- 4.4%	5.0%	<b>6.9</b> % 1.11	<b>9.6</b> % 2.64	<b>11.8</b> % 3.64
,					
J) PROFIT (After Tax)	2.53	3.53	4.45	6.15	8.48

COMPUTATION OF MAKING OF OPERATION THEATRE	TABLE	[
Item to be Manufactured Operation Theatre Table		
Manufacturing Capacity per day	2	no.s
No. of Working Hour	8	
No of Working Days per month	25	
No. of Working Day per annum	300	
Total Production per Annum	600	no.s
Total Production per Annum	600	no.s
Year	Capacity	OPERATION THEATRE
	Utilisation	
I	45%	270.00
П	50%	300.00
III	55%	330.00
IV	60%	360.00
V	65%	390.00

#### COMPUTATION OF RAW MATERIAL

Item Name	Quantity of Raw Material	Unit	Unit Rate of	Total CostPer Annum (100%)
Stainless steel	30.00	MT	30,000.00	9,00,000.00
Anti static rubber nylon tread caster	600.00	Sets	300.00	1,80,000.00
Moulded plastic parts	600.00	Sets	300.00	1,80,000.00
Gear Box	600.00	No.s	3,200.00	19,20,000.00
Hydraullic pump 50 mm thick	600.00	No.s	3,500.00	21,00,000.00
Electrically sealed mattress	600.00	No.s	2,600.00	15,60,000.00
Steel Hardware & other misc. consumables				4,00,000.00
Total				72,40,000.00
Total Raw material in Rs lacs				72.40

Raw Material Consumed	Capacity	Amount (Rs.)		
	Utilisation			
I	45%	32.58		
П	50%	38.01	5% Increase in Cost	
III	55%	41.81	5% Increase in O	Cost
IV	60%	45.61	5% Increase in O	Cost
V	65%	49.41	5% Increase in O	Cost

COMPUTATION OF SALE					
Particulars	I	II	III	IV	V
Op Stock	-	13.50	15.00	16.50	18.00
Production	270.00	300.00	330.00	360.00	390.00
	270.00	313.50	345.00	376.50	408.00
Less : Closing Stock(15 Days)	13.50	15.00	16.50	18.00	19.50
Net Sale	256.50	298.50	328.50	358.50	388.50
Sale Price per table	22,500.00	23,500.00	24,500.00	25,500.00	26,500.00
Sale (in Lacs)	57.71	70.15	80.48	91.42	102.95

COMPUTATION OF CLOSING STOCK & WORKING CAPITAL					
PARTICULARS	Ι	II	III	IV	v
Finished Goods					
(15 Days requirement)	2.58	3.00	3.44	3.90	4.39
Raw Material					
(15 Days requirement)	1.63	1.90	2.09	2.28	2.47
Closing Stock	4.21	4.90	5.53	6.18	6.86

COMPUTATION OF WORKING CAPIT	TAL REQUIREMENT		
Particulars	Amount	Margin(10%)	Net
			Amount
Stock in Hand	4.21		
Less:			
Sundry Creditors	0.76		
Paid Stock	3.45	0.35	3.11
Sundry Debtors	2.89	0.29	2.60
Working Capital Requirement			5.70
Margin			0.63
MPBF			5.70
Working Capital Demand			5.00

BREAK UP OF LABOUR			
Particulars	Wages	No of	Total
	Per Month	Employees	Salary
Supervisor	20,000.00	1	20,000.00
Machine Operator	15,000.00	1	15,000.00
Unskilled Worker	10,000.00	1	10,000.00
Helper	8,000.00	1	8,000.00
Security Guard	6,000.00	1	6,000.00
			59,000.00
Add: 5% Fringe Benefit			2,950.00
Total Labour Cost Per Month			61,950.00
Total Labour Cost for the year (In Rs. Lakhs)		5	7.43

BREAK UP OF SALARY			
Particulars	Salary	No of	Total
	Per Month	Employees	Salary
Manager	20,000.00	1	20,000.00
Accountant cum store keeper	15,000.00	1	15,000.00
Sales	12,000.00	1	12,000.00
Total Salary Per Month			47,000.00
Add: 5% Fringe Benefit			2,350.00
Total Salary for the month			49,350.00
Total Salary for the year (In Rs. Lakhs)		3	5.92

COMPUTATION OF DEPRECIA	ATION				
Description	Land	Building/shed	Plant & Machinery	Furniture	TOTAL
Rate of Depreciation		10.00%	15.00%	10.00%	
Opening Balance	Leased		-	-	-
Addition	-	5.00	6.70	1.30	13.00
	-	5.00	6.70	1.30	13.00
		-	-	-	
TOTAL		5.00	6.70	1.30	13.00
Less : Depreciation	-	0.50	1.01	0.13	1.64
WDV at end of Ist year	_	4.50	5.70	1.17	11.37
Additions During The Year	-	-	-	-	-
	-	4.50	5.70	1.17	11.37
Less : Depreciation	-	0.45	0.85	0.12	1.42
WDV at end of IInd Year		4.05	4.84	1.05	9.94
Additions During The Year	-	-	-	-	-
	-	4.05	4.84	1.05	9.94
Less : Depreciation	-	0.41	0.73	0.11	1.24
WDV at end of IIIrd year	-	3.65	4.11	0.95	8.71
Additions During The Year	-	-	-	-	-
	-	3.65	4.11	0.95	8.71
Less : Depreciation	-	0.36	0.62	0.09	1.08
WDV at end of IV year	-	3.28	3.50	0.85	7.63
Additions During The Year		-	-	-	-
	-	3.28	3.50	0.85	7.63
Less : Depreciation	-	0.33	0.52	0.09	0.94
WDV at end of Vth year	-	2.95	2.97	0.77	6.69

REPAYMEN	T SCHEDULE OF TERN	<u>1 LOAN</u>				11.0%	
Year	Particulars	Amount	Addition	Total	Interest	Repayment	Cl Balance
	Opening Balance						
	Ist Quarter	-	11.70	11.70	0.32	-	11.7
	lind Quarter	11.70	-	11.70	0.32	-	11.7
	IIIrd Quarter	11.70	-	11.70	0.32	0.65	11.0
	Ivth Quarter	11.05	-	11.05	0.30	0.65	10.4
					1.27	1.30	
I	Opening Balance						
	Ist Quarter	10.40	-	10.40	0.29	0.65	9.7
	Iind Quarter	9.75	-	9.75	0.27	0.65	9.1
	IIIrd Quarter	9.10	-	9.10	0.25	0.65	8.4
	Ivth Quarter	8.45		8.45	0.23	0.65	7.8
					1.04	2.60	
Ш	Opening Balance						
	Ist Quarter	7.80	-	7.80	0.21	0.65	7.1
	lind Quarter	7.15	_	7.15	0.20	0.65	6.5
	IIIrd Quarter	6.50	-	6.50	0.18	0.65	5.8
	Ivth Quarter	5.85		5.85	0.16	0.65	5.2
					0.75	2.60	
IV	Opening Balance						
	Ist Quarter	5.20	-	5.20	0.14	0.65	4.5
	Iind Quarter	4.55	-	4.55	0.13	0.65	3.9
	IIIrd Quarter	3.90	-	3.90	0.11	0.65	3.2
	Ivth Quarter	3.25		3.25	0.09	0.65	2.6
	0 1 1 1				0.46	2.60	
V	Opening Balance	2.62		2 (2)	0.07	0.45	1.0
	Ist Quarter	2.60	-	2.60	0.07	0.65	1.9
	lind Quarter	1.95	-	1.95	0.05	0.65	1.3
	IIIrd Quarter	1.30	-	1.30	0.04	0.65	0.6
	Ivth Quarter	0.65		0.65	0.02	0.65	- 0.0
					0.18	2.60	

Door to Door Period Moratorium Period Repayment Period 60 Months

6 Months

54 Months

#### CALCULATION OF D.S.C.R

PARTICULARS	I	II	III	IV	V
CASH ACCRUALS	4.16	4.95	5.69	7.23	9.42
Interest on Term Loan	1.27	1.04	0.75	0.46	0.18
Total	5.43	5.99	6.44	7.69	9.60
<u>REPAYMENT</u>					
Repayment of Term Loan	1.30	2.60	2.60	2.60	2.60
Interest on Term Loan	1.27	1.04	0.75	0.46	0.18
	0.57	2.64	0.05	2.01	2 50
Total	2.57	3.64	3.35	3.06	2.78
DEBT SERVICE COVERAGE RATIO	2.11	1.65	1.92	2.51	3.46
AVERAGE D.S.C.R.			2.28		

COMPUTATION OF ELECTRICITY			
(A) POWER CONNECTION			
Total Working Hour per day	Hours	8	
Electric Load Required	HP	20	
Load Factor		0.7460	
Electricity Charges	per unit	7.50	
Total Working Days		300	
Electricity Charges			2,68,560.00
Add : Minimim Charges (@ 10%)			
(B) DG set No. of Working Days		300	days
No of Working Hours		0.3	Hour per day
Total no of Hour		90	flour per day
Diesel Consumption per Hour		90 8	
Total Consumption of Diesel		720	
Cost of Diesel		65.00	Rs. /Ltr
Total cost of Diesel		0.47	K3. / Ett
Add : Lube Cost @15%		0.47	
Total		0.54	
Total cost of Power & Fuel at 100%			3.22
Year	Capacity		Amount
			(in Lacs)
I	45%		1.45
II	50%		1.61
III	55%		1.77
IV	60%		1.93
V	65%		2.10



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