

# **PROJECT REPORT**

## **AUTOMATIC CONTROL CABLES**

### **PURPOSE OF THE DOCUMENT**

**T**his particular pre-feasibility is regarding Automatic control Cables

The objective of the pre-feasibility is primarily to facilitate potential entrepreneurs' in project identification for investment and in order to serve this objective; the document covers various aspects of the project concept development, startup, marketing, and finance and business 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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**Project Profile**  
**On**  
**Automobile Control Cables**

**Introduction**

Auto control cables are widely used in various controls of two/three-wheel vehicles. Twisting of desired/required number of S.S. wires, of standard wire gauge of different diameter into one cable makes these. The numbers of S.S. wires of standard gauge depend upon the end use of the auto control cables like brake wire, clutch wire, accelerator wire etc. Each type of cable is of different size depending upon the specific purpose of the cable. The S.S. standard gauge wires are twisted in the twisting machine and cut to the required length. One end of the cable is butted and dipped in the molten zinc to avoid ends opening and at the other end of the cable a Zinc stopper of required size/design is fixed by Die- casting process.

The Auto control cables are the fast-moving spares used in two/three-wheel vehicles and have very good replacement market. These cables enable the driver to control the various vehicle functions, and have a very wide market all over the country. The machines, equipment and raw material for manufacturing these cables are easily available and the technology is fully indigenized. The Unit can be set up in all major cities or near the city area and requires very nominal investment in plant and machines.

**Market Potential**

Auto control cables have a very wide and never-ending replacement market, as the various control cables have to be replaced in any Scooter, Motorcycle, Auto Rickshaw, Moped etc. These are always required by Mechanics and Service stations. Different cables for different end use are packed in printed poly bags and marketed in dozen packing through the Auto part dealers/shops.

## **Basis and Presumptions**

- The project report has been prepared keeping in view the following basis and presumptions while calculating the cost of project and that of production
- Unit will run 8 hours per day for 300 working days in a year.
- Unit will manufacture all types of Auto Control Cables for two/three Wheelers for brake, clutch, accelerator etc. Poly bags are got printed as per the requirements from outside.
- Rates in respect of Machines and Equipment are based upon the rates quoted by a particular manufacturer. Rates of Raw material and other inputs are based upon those prevailing in local market.

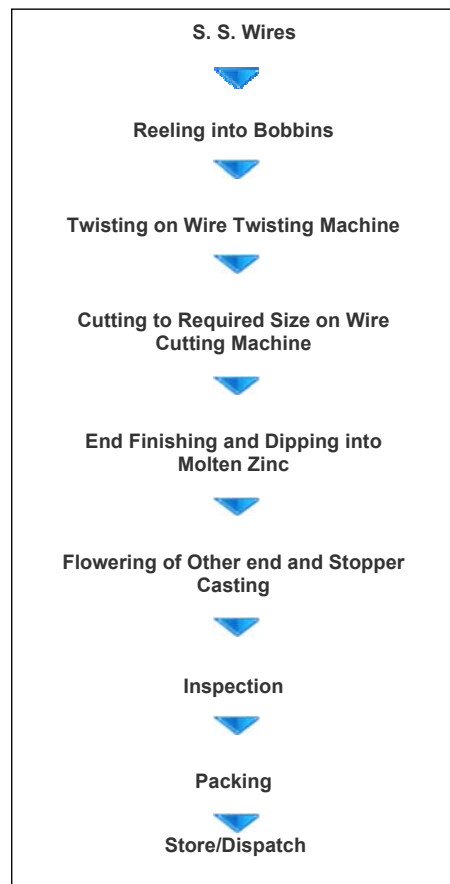
## **Technical Aspects**

### **Process of Manufacture**

S.S. wire of required standard wire gauge are reeled into the bobbins on the reel winder and loaded onto the bobbin's holder of the wire twisting machine. Now with the help of wire twisting machine the required number of S.S. wires are twisted and converted into a single stranded wire of continuous length. The number of S.S. wires and gauge depend upon the type and use of Auto control cable to be made.

The stranded/twisted cable thus made is cut with the help of wire cutting machine into the required size. One end of this wire is butted and dipped into molten Zinc to avoid opening of strands of the cable. At the other end of the cable a zinc stopper of required design/size is fixed with help of a die on a die-casting Machine. The cables thus made are checked/ inspected and packed in printed poly bags for marketing.

## Process Flow Chart



### Quality Control and Standards

The Bureau of Indian Standards has laid down following Indian Standard for Auto Control Cables IS 1978.

### Production Capacity

Based upon the single shift working of 8 hours per day and taking 25 working days in a month, the production of the unit will be as under

Production (per year) 60,000 Dozen

### Motive Power

Power requirement for the unit will be 5 HP (approx.) with single phase supply.

### Pollution Control

The production activities are very simple in nature and there is no pollution involved. However, while melting zinc provision for exhaust of gases be made through a small chimney and exhaust muffler.

**PROJECT AT A GLANCE**

- 1 Name of the Entrepreneur XXXXXXXX
- 2 Constitution (legal Status) XXXXXXXX
- 3 Father's/Spouce's Name XXXXXXXX
- 4 Unit Address XXXXXXXX
- Taluk/Block: XXXXX  
 District : XXXXX State:  
 Pin: XXXXX  
 E-Mail : XXXXX  
 Mobile XXXXX
- 5 Product and By Product : **Automobile Control Cables**
- Name of the project / business activity  
 6 proposed : **Automobile Control Cables**
- 7 Cost of Project : **Rs15.50lac**
- 8 Means of Finance  
 Term Loan Rs.8.02 Lacs  
 KVIC Margin Money - As per Project Eligibility  
 Own Capital Rs.1.55 Lacs  
 Working Capital Rs.5.93 Lacs
- 9 Debt Service Coverage Ratio : 5.33
- 10 Pay Back Period : 5 Years
- 11 Project Implementation Period : 6 Months
- 12 Break Even Point : 27%
- 13 Employment : 9 Persons
- 14 Power Requirement : 5.00 HP
- 15 Major Raw materials :
- 16 Estimated Annual Sales Turnover : 51.30 Lacs
- 16 Detailed Cost of Project & Means of Finance

**COST OF PROJECT**

(Rs. In Lacs)

Particulars	Amount
Land	Rented/Owned
Building & Civil Work (2000 Sq	3.50
Plant & Machinery	4.31
Furniture & Fixtures	0.75
Pre-operative Expenses	0.35
Working Capital Requirement	6.59
<b>Total</b>	<b>15.50</b>

**MEANS OF FINANCE**

Particulars	Amount
Own Contribution @10%	1.55
Term Loan	8.02
Workign Capital Finance	5.93
<b>Total</b>	<b>15.50</b>

Beneficiary's Margin Monery      **General**      **Special**  
 (% of Project Cost)                      10%                      5%

**PLANT & MACHINERY**

PARTICULARS	QTY.	RATE	AMOUNT IN RS.
Wire twisting machine (19 bobbins-1 hp motor)	4	40000	160000
Pressure Die Casting machine	1	70000	70000
Compressor (1 HP motor)	1	20000	20000
Size Cutter	1	2000	2000
Flower Machine	2	5000	10000
Hand Press	1	3000	3000
Reel Winder	1	4000	4000
Grinder	1	5000	5000
Hand Cutter	2	800	1600
Dies (For Die-casting)	6	6000	36000
Shearing Machine	1	5000	5000
Small Bobbins	100	25	2500
Big Bobbins	20	150	3000
Poly Bags sealing machine	2	1000	2000
Jigs Fixture and other tools etc.	L.S.		35000
			359,100.00
Installation and Taxes	20.00%		71,820.00
			430,920.00

**PROJECTED BALANCE SHEET**

<b>PARTICULARS</b>	<b>IST YEAR</b>	<b>IIND YEAR</b>	<b>IIRD YEAR</b>	<b>IVTH YEAR</b>	<b>VTH YEAR</b>
<b><u>SOURCES OF FUND</u></b>					
Capital Account	1.55	1.55	1.55	1.55	1.55
Retained Profit	9.30	19.72	31.24	44.92	60.64
Term Loan	8.02	6.01	4.01	2.00 -	0.10
Cash Credit	5.93	5.93	5.93	5.93	5.93
Sundry Creditors	0.93	1.09	1.24	1.40	1.55
Provisions & Other Liab	0.36	0.40	0.44	0.48	0.53
<b>TOTAL :</b>	<b>26.09</b>	<b>34.70</b>	<b>44.41</b>	<b>56.27</b>	<b>70.09</b>
<b><u>APPLICATION OF FUND</u></b>					
<b>Fixed Assets ( Gross)</b>	8.56	8.56	8.56	8.56	8.56
Gross Dep.	1.03	1.97	2.78	3.49	4.11
Net Fixed Assets	7.53	6.59	5.78	5.07	4.45
<b>Current Assets</b>					
Sundry Debtors	2.57	3.13	3.58	4.03	4.48
Stock in Hand	4.95	5.78	6.60	7.43	8.25
Cash and Bank	8.55	16.45	25.43	36.42	49.26
Deposits & Advances	2.50	2.75	3.03	3.33	3.66
<b>TOTAL :</b>	<b>26.09</b>	<b>34.70</b>	<b>44.41</b>	<b>56.27</b>	<b>70.09</b>
	-	-	-	-	-

**PROJECTED PROFITABILITY STATEMENT**

<b>PARTICULARS</b>	<b>IST YEAR</b>	<b>IIND YEAR</b>	<b>IIRD YEAR</b>	<b>IVTH YEAR</b>	<b>VTH YEAR</b>
<b><u>A) SALES</u></b>					
Gross Sale	51.30	62.55	71.55	80.55	89.55
<b>Total (A)</b>	<b>51.30</b>	<b>62.55</b>	<b>71.55</b>	<b>80.55</b>	<b>89.55</b>
<b><u>B) COST OF SALES</u></b>					
Raw Mateiral Consumed	27.92	32.57	37.22	41.88	46.53
Elecricity Expenses	0.43	0.50	0.57	0.64	0.72
Repair & Maintenance	-	0.63	0.72	0.81	0.90
Labour & Wages	5.94	6.53	7.19	7.91	8.70
Depriciation	1.03	0.94	0.81	0.71	0.62
Consumables and Other Expenses	2.57	3.13	3.58	4.03	4.48
<b>Cost of Production</b>	<b>37.89</b>	<b>44.29</b>	<b>50.09</b>	<b>55.97</b>	<b>61.93</b>
<b>Add: Opening Stock /WIP</b>	<b>-</b>	<b>2.16</b>	<b>2.52</b>	<b>2.88</b>	<b>3.24</b>
<b>Less: Closing Stock /WIP</b>	<b>2.16</b>	<b>2.52</b>	<b>2.88</b>	<b>3.24</b>	<b>3.60</b>
Cost of Sales (B)	35.73	43.93	49.73	55.61	61.57
<b>C) GROSS PROFIT (A-B)</b>	<b>15.57</b>	<b>18.62</b>	<b>21.82</b>	<b>24.94</b>	<b>27.98</b>
	<b>30%</b>	<b>30%</b>	<b>30%</b>	<b>31%</b>	<b>31%</b>
D) Bank Interest (Term Loan )	0.69	0.84	0.61	0.37	0.14
Bank Interest ( C.C. Limit )	0.59	0.59	0.59	0.59	0.59
E) Salary to Staff	3.96	4.36	4.79	5.27	5.80
F) Selling & Adm Expenses Exp.	1.03	1.25	1.43	1.61	1.79
<b>TOTAL (D+E)</b>	<b>6.27</b>	<b>7.04</b>	<b>7.42</b>	<b>7.85</b>	<b>8.32</b>
H) NET PROFIT	9.30	11.58	14.40	17.09	19.65
I) Taxation	-	1.16	2.88	3.42	3.93
J) PROFIT (After Tax)	9.30	10.42	11.52	13.67	15.72



**PROJECTED CASH FLOW STATEMENT**

<b>PARTICULARS</b>	<b>IST YEAR</b>	<b>IIND YEAR</b>	<b>IIIRD YEAR</b>	<b>IVTH YEAR</b>	<b>VTH YEAR</b>
<b><u>SOURCES OF FUND</u></b>					
Share Capital	1.55	-			
Reserve & Surplus	9.30	11.58	14.40	17.09	19.65
Depriciation & Exp. W/off	1.03	0.94	0.81	0.71	0.62
Increase in Cash Credit	5.93	-	-	-	-
Increase In Term Loan	8.02	-	-	-	-
Increase in Creditors	0.93	0.16	0.16	0.16	0.16
Increase in Provisions	0.36	0.04	0.04	0.04	0.05
<b>TOTAL :</b>	<b>27.12</b>	<b>12.71</b>	<b>15.41</b>	<b>18.00</b>	<b>20.47</b>
<b><u>APPLICATION OF FUND</u></b>					
Increase in Fixed Assets	8.56	-	-	-	-
Increase in Stock	4.95	0.83	0.83	0.83	0.83
Increase in Debtors	2.57	0.56	0.45	0.45	0.45
Increase in Deposits & Adv	2.50	0.25	0.28	0.30	0.33
Repayment of Term Loan	-	2.00	2.00	2.00	2.10
Taxation	-	1.16	2.88	3.42	3.93
<b>TOTAL :</b>	<b>18.58</b>	<b>4.80</b>	<b>6.43</b>	<b>7.00</b>	<b>7.64</b>
Opening Cash & Bank Balance	-	8.55	16.45	25.43	36.42
Add : Surplus	8.55	7.91	8.97	11.00	12.83
<b>Closing Cash &amp; Bank Balance</b>	<b>8.55</b>	<b>16.45</b>	<b>25.43</b>	<b>36.42</b>	<b>49.26</b>

**COMPUTATION OF MANUFACTURING OF AUTO CONTROL CABLE WIRE**

**Items to be Manufactured Auto control c**

Manufacturing Capacity per day	-	200.00	Dozen
	-		
No. of Working Hour		8	
No of Working Days per month		25	
No. of Working Day per annum		300	
Total Production per Annum		60,000.00	Dozen
Year		Capacity	Dozen
		Utilisation	
IST YEAR		60%	36,000
IIND YEAR		70%	42,000
IIIRD YEAR		80%	48,000
IVTH YEAR		90%	54,000
VTH YEAR		100%	60,000

**COMPUTATION OF RAW MATERIAL**

Item Name		Quantity of Raw Material Kg	Recovery	Unit Rate of / kg	Total Cost Per Annum (100%)
SS wire per Kg	100%	21,600.00	100%	200.00	43.20
Zinc Alloy per kg		1,800.00		185.00	3.33
Total (Rounded off in lacs)					46.53
Annual Consumption cost	( In Lacs)				46.53

Raw Material Consumed	Capacity Utilisation	Amount (Rs.)
IST YEAR	60%	27.92
IIND YEAR	70%	32.57
IIIRD YEAR	80%	37.22
IVTH YEAR	90%	41.88
VTH YEAR	100%	46.53

**COMPUTATION OF CLOSING STOCK & WORKING CAPITAL**

<b>PARTICULARS</b>	<b>IST YEAR</b>	<b>IIND YEAR</b>	<b>IIIRD YEAR</b>	<b>IVTH YEAR</b>	<b>VTH YEAR</b>
<b><u>Finished Goods</u></b>					
(15 Days requirement)	2.16	2.52	2.88	3.24	3.60
<b><u>Raw Material</u></b>					
(15 Days requirement)	2.79	3.26	3.72	4.19	4.65
<b>Closing Stock</b>	<b>4.95</b>	<b>5.78</b>	<b>6.60</b>	<b>7.43</b>	<b>8.25</b>

**COMPUTATION OF WORKING CAPITAL REQUIREMENT**

<b>Particulars</b>			<b>Total Amount</b>
Stock in Hand			4.95
Sundry Debtors			2.57
		Total	7.52
Sundry Creditors			0.93
Working Capital Requirement			<b>6.59</b>
Margin			0.66
Working Capital Finance			<b>5.93</b>

**BREAK UP OF LABOUR**

Particulars		Wages Per Month	No of Employees	Total Salary
Skilled Worker/technician		10,000.00	3	30,000.00
Unskilled Worker		5,000.00	3	15,000.00
				45,000.00
Add: 10% Fringe Benefit				4,500.00
Total Labour Cost Per Month				49,500.00
Total Labour Cost for the year ( In Rs. Lakhs)				5.94

6.00

**BREAK UP OF SALARY**

Particulars		Salary Per Month	No of Employees	Total Salary
Manager		12,000.00	1	12,000.00
Accountant		8,000.00	1	8,000.00
Sales executive		10,000.00	1	10,000.00
Total Salary Per Month				30,000.00
Add: 10% Fringe Benefit				3,000.00
Total Salary for the month				33,000.00
Total Salary for the year ( In Rs. Lakhs)				3.96

3.00

**COMPUTATION OF DEPRECIATION**

Description	Land	Building/shed	Plant & Machinery	Furniture	TOTAL
Rate of Depreciation		10.00%	15.00%	10.00%	
<b>Opening Balance</b>	Leased	-	-	-	-
Addition	-	3.50	4.31	0.75	8.56
	-	3.50	4.31	0.75	8.56
Less : Depreciation	-	0.35	0.65	0.04	1.03
WDV at end of Ist year	-	3.15	3.66	0.71	7.53
Additions During The Year	-	-	-	-	-
	-	3.15	3.66	0.71	7.53
Less : Depreciation	-	0.32	0.55	0.07	0.94
WDV at end of IIInd Year	-	2.84	3.11	0.64	6.59
Additions During The Year	-	-	-	-	-
	-	2.84	3.11	0.64	6.59
Less : Depreciation	-	0.28	0.47	0.06	0.81
WDV at end of IIIrd year	-	2.55	2.65	0.58	5.78
Additions During The Year	-	-	-	-	-
	-	2.55	2.65	0.58	5.78
Less : Depreciation	-	0.26	0.40	0.06	0.71
WDV at end of IV year	-	2.30	2.25	0.52	5.07
Additions During The Year	-	-	-	-	-
	-	2.30	2.25	0.52	5.07
Less : Depreciation	-	0.23	0.34	0.05	0.62
WDV at end of Vth year	-	2.07	1.91	0.47	4.45

**REPAYMENT SCHEDULE OF TERM LOAN**

11.5%

<b>Year</b>	<b>Particulars</b>	<b>Amount</b>	<b>Addition</b>	<b>Total</b>	<b>Interest</b>	<b>Repayment</b>	<b>CI Balance</b>
<b>IIST YEAR</b>	Opening Balance						
	Ist Quarter	-	8.02	8.02	-	-	8.02
	Iind Quarter	8.02	-	8.02	0.23	-	8.02
	IIIrd Quarter	8.02	-	8.02	0.23	-	8.02
	Ivth Quarter	8.02	-	8.02	0.23	-	8.02
					0.69	-	
<b>IIND YEAR</b>	Opening Balance						
	Ist Quarter	8.02	-	8.02	0.23	0.50	7.52
	Iind Quarter	7.52	-	7.52	0.22	0.50	7.02
	IIIrd Quarter	7.02	-	7.02	0.20	0.50	6.51
	Ivth Quarter	6.51	-	6.51	0.19	0.50	6.01
					0.84	2.00	
<b>IIRD YEAR</b>	Opening Balance						
	Ist Quarter	6.01	-	6.01	0.17	0.50	5.51
	Iind Quarter	5.51	-	5.51	0.16	0.50	5.01
	IIIrd Quarter	5.01	-	5.01	0.14	0.50	4.51
	Ivth Quarter	4.51	-	4.51	0.13	0.50	4.01
					0.61	2.00	
<b>IIVTH YEAR</b>	Opening Balance						
	Ist Quarter	4.01	-	4.01	0.12	0.50	3.51
	Iind Quarter	3.51	-	3.51	0.10	0.50	3.01
	IIIrd Quarter	3.01	-	3.01	0.09	0.50	2.51
	Ivth Quarter	2.51	-	2.51	0.07	0.50	2.00
					0.37	2.00	
<b>IIVTH YEAR</b>	Opening Balance						
	Ist Quarter	2.00	-	2.00	0.06	0.50	1.50
	Iind Quarter	1.50	-	1.50	0.04	0.50	1.00
	IIIrd Quarter	1.00	-	1.00	0.03	0.55	0.45
	Ivth Quarter	0.45	-	0.45	0.01	0.55	0.10
					0.14	2.10	

**CALCULATION OF D.S.C.R**

<b>PARTICULARS</b>	<b>IST YEAR</b>	<b>IIND YEAR</b>	<b>IIRD YEAR</b>	<b>IVTH YEAR</b>	<b>VTH YEAR</b>
<b><u>CASH ACCRUALS</u></b>	10.34	11.36	12.33	14.38	16.34
Interest on Term Loan	0.69	0.84	0.61	0.37	0.14
Total	11.03	12.19	12.94	14.76	16.48
<b><u>REPAYMENT</u></b>					
Instalment of Term Loan	2.00	2.00	2.00	2.10	2.10
Interest on Term Loan	0.69	0.84	0.61	0.37	0.14
Total	2.70	2.84	2.61	2.48	2.24
<b>DEBT SERVICE COVERAGE RAT</b>	<b>4.09</b>	<b>4.29</b>	<b>4.96</b>	<b>5.96</b>	<b>7.34</b>
<b>AVERAGE D.S.C.R.</b>			<b>5.33</b>		

**COMPUTATION OF SALE**

Particulars	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
Op Stock	-	1,800	2,100	2,400	2,700
Production	36,000	42,000	48,000	54,000	60,000
	36,000	43,800	50,100	56,400	62,700
Less : Closing Stock	1,800	2,100	2,400	2,700	3,000
Net Sale	34,200	41,700	47,700	53,700	59,700
Sale Price per Dozen	150.00	150.00	150.00	150.00	150.00
60000 Dozens of auto control cables of various types at an average rate					
<b>Sale (in Lacs)</b>	<b>51.30</b>	<b>62.55</b>	<b>71.55</b>	<b>80.55</b>	<b>89.55</b>



**COMPUTATION OF ELECTRICITY**

<b>(A) POWER CONNECTION</b>				
Total Working Hour per day		Hours	8	
Electric Load Required			5	
Load Factor			0.7460	
Electricity Charges		per unit	8.00	
Total Working Days			300	
<b>Electricity Charges ( 8 Hrs Per day )</b>				71,616.00
Add : Minimim Charges (@ 10%)				
<b>(B) D.G. SET</b>				
No. of Working Days			300	days
No of Working Hours			-	Hour per day
Total no of Hour			-	
Diesel Consumption per Hour			8	
Total Consumption of Diesel			-	
Cost of Diesel			65.00	Rs. /Ltr
Total cost of Diesel			-	
Add : Lube Cost @15%			-	
Total			-	
Total cost of Power & Fuel at 100%				0.72
Year		Capacity		Amount (in Lacs)
IST YEAR		60%		0.43
IIND YEAR		70%		0.50
IIIRD YEAR		80%		0.57
IVTH YEAR		90%		0.64
VTH YEAR		100%		0.72

## BREAK EVEN POINT ANALYSIS

Year	I	II	III	IV	V
<b>Net Sales &amp; Other Income</b>	51.30	62.55	71.55	80.55	89.55
Less : Op. WIP Goods	-	2.16	2.52	2.88	3.24
Add : Cl. WIP Goods	2.16	2.52	2.88	3.24	3.60
<b>Total Sales</b>	<b>53.46</b>	<b>62.91</b>	<b>71.91</b>	<b>80.91</b>	<b>89.91</b>
<b>Variable &amp; Semi Variable Exp.</b>					
Raw Material & Tax	27.92	32.57	37.22	41.88	46.53
Electricity Exp/Coal Consumption at 85%	0.37	0.43	0.49	0.55	0.61
Manufacturing Expenses 80%	2.05	3.00	3.43	3.87	4.30
Wages & Salary at 60%	5.94	6.53	7.19	7.91	8.70
Selling & administrative Expenses 80%	0.82	1.00	1.14	1.29	1.43
Intt. On Working Capital Loan	0.59	0.59	0.59	0.59	0.59
<b>Total Variable &amp; Semi Variable Exp</b>	<b>37.69</b>	<b>44.13</b>	<b>50.07</b>	<b>56.08</b>	<b>62.16</b>
<b>Contribution</b>	<b>15.77</b>	<b>18.78</b>	<b>21.84</b>	<b>24.83</b>	<b>27.75</b>
<b>Fixed &amp; Semi Fixed Expenses</b>					
Manufacturing Expenses 20%	0.51	0.75	0.86	0.97	1.07
Electricity Exp/Coal Consumption at 15%	0.06	0.08	0.09	0.10	0.11
Wages & Salary at 40%	3.96	4.36	4.79	5.27	5.80
Interest on Term Loan	0.69	0.84	0.61	0.37	0.14
Depreciation	1.03	0.94	0.81	0.71	0.62
Selling & administrative Expenses 20%	0.21	0.25	0.29	0.32	0.36
<b>Total Fixed Expenses</b>	<b>6.47</b>	<b>7.20</b>	<b>7.44</b>	<b>7.74</b>	<b>8.10</b>
<b>Capacity Utilization</b>	<b>60%</b>	<b>70%</b>	<b>80%</b>	<b>90%</b>	<b>100%</b>
<b>OPERATING PROFIT</b>	<b>9.30</b>	<b>11.58</b>	<b>14.40</b>	<b>17.09</b>	<b>19.65</b>
<b>BREAK EVEN POINT</b>	<b>25%</b>	<b>27%</b>	<b>27%</b>	<b>28%</b>	<b>29%</b>
<b>BREAK EVEN SALES</b>	<b>21.93</b>	<b>24.13</b>	<b>24.50</b>	<b>25.22</b>	<b>26.24</b>

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