PROJECT REPORT

Of

GYPSUM PLASTER BOARD

PURPOSE OF THE DOCUMENT

This particular pre-feasibility is regarding Gypsum Plaster Board.

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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PROJECT AT A GLANCE

1 Name of the Entreprenuer xxxxxxxxxx
2 Constitution (legal Status) : xxxxxxxxxx
3 Father / Spouse Name xxxxxxxxxxxx

District: xxxxxxx

Pin: xxxxxxx State: xxxxxxxxx

Mobile xxxxxxx

5 Product and By Product : **GYPSUM PLASTER BOARD**

6 Name of the project / business activity proposed : GYPSUM PLASTER BOARD MANUFACTURING UNIT

7 Cost of Project : Rs.24.29 Lakhs

8 Means of Finance

Term Loan Rs.16.07 Lakhs
Own Capital Rs.2.43 Lakhs
Working Capital Rs.5.8 Lakhs

9 Debt Service Coverage Ratio : 2.12

10 Pay Back Period : 5 Years

11 Project Implementation Period : 5-6 Months

12 Break Even Point : 39%

13 Employment : 10 Persons

14 Power Requirement : 10 HP

15 Major Raw materials : Gypsum

Estimated Annual Sales Turnover (Max Utilized

16 Capacity) : 82.96 Lakhs

17 Detailed Cost of Project & Means of Finance

COST OF PROJECT (Rs. In Lakhs)

Particulars	Amount
Land	Own/Rented
Building /Shed 1500 Sq ft	5.00
Plant & Machinery	12.10
Furniture & Fixtures	0.75
Working Capital Requirement	6.44
Total	24.29

MEANS OF FINANCE

Particulars	Amount
Own Contribution	2.43
Term Loan	16.07
Working Capital	5.80
Total	24.29

GYPSUM PLASTER BOARD



INTRODUCTION

Gypsum board (also known as plasterboard, wallboard, gypsum panel, sheet rock, or Drywall) is a panel made of calcium sulfate dihydrate (gypsum) with or without additives and normally pressed between a facer and a backer (typically thick sheets of paper). It is used to make interior walls and ceilings.

The plaster is mixed with fibre (typically paper and/or fibre glass), plasticizer, foaming agent, and various additives that can decrease mildew, increase fire resistance, and lower water absorption. Gypsum building materials are used in all construction types (residential, non-residential, new or refurbished), ranging from complex high-tech systems to easy to install products adapted for use by the general public.

Gypsum board is widely used for internal walls and ceilings by the construction industry, and is a material of growing importance in the do it yourself sector. Gypsum board is also a common fire barrier used in house and general building construction. Commonly gypsum boards used in walls and ceilings, in moist areas, in exterior applications, for fire resistance and area separation and special systems.

MARKET OUTLOOK

The global gypsum market is valued at \$1.49 billion in 2016, equivalent to 252 million tonnes, with 33.3% and 60.9% being consumed in the plasterboard and cement industries, respectively. The gypsum market is forecast to grow at a CAGR of 9.9% to reach nearly \$2.4 billion by 2018 and \$3.8 billion by 2026.

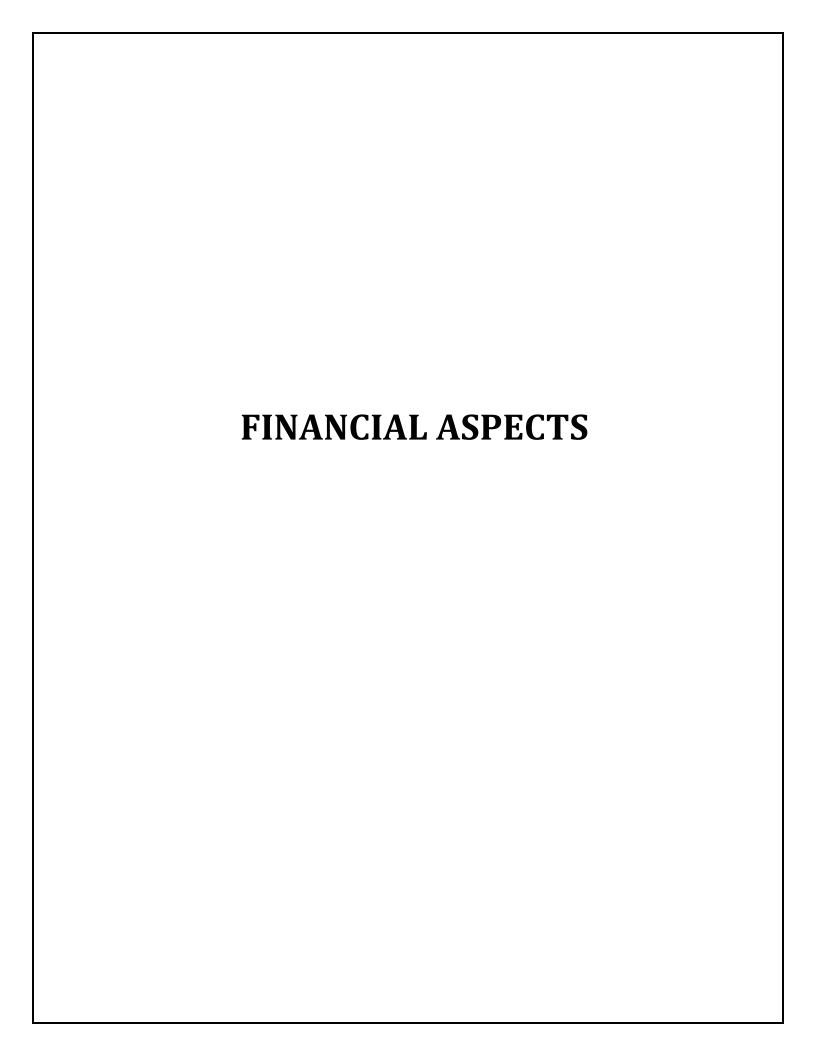
The plasterboard market size is estimated to grow from USD 18.07 Billion in 2016 to USD 23.85 Billion by 2021, at a CAGR of 5.7% from 2016 to 2021. The base year considered for the study is 2015 and the market size is projected from 2016 to 2021. The global gypsum board market was valued at \$22.6 bn in 2016 and is forecast to grow at a steady CAGR of 8.2% between 2017 and 2024, culminating in 2024 global sales of \$42.6 bn.

Global gypsum market demand 10,700.0 million square meters in 2014 and is expected to reach 15,804.7 million square meters by 2022, growing at a CAGR of 5.1% from 2015 to 2022. The global demand for drywall will approach 10.7 billion square meters by 2016, growing by some 8.5% annually.

TYPES OF GYPSUM PLASTER BOARD

Gypsum plaster boards are classified according to their use. Gypsum wall board has a face to which decoration may be applied. There are five types of gypsum board product that are considered standard. Innovation has created several new products now available.

- Standard Gypsum Board: Regular core, Flexible board, Type "X"- fire resistant, Moisture resistant and Plaster baseboard.
- Specialty Gypsum Board: Interior ceiling board, Mold & Moisture resistant, Shaft liner, Abuse resistant and Impact resistant.



PROJECTED BALANCE SHEET						
PARTICULARS	I	11	111	IV	V	
SOURCES OF FUND Capital Account						
Opening Balance Add: Additions	- 2.43	3.34	6.39 -	9.76 -	13.40 -	
Add: Net Profit Less: Drawings	0.91	3.65 0.60	6.37 3.00	8.63 5.00	11.06 8.00	
Closing Balance	3.34	6.39	9.76	13.40	16.45	
CC Limit	5.80			5.80	5.80	
Term Loan	14.28	10.71	7.14	3.57	-	
Sundry Creditors	0.55	0.63	0.73	0.83	0.93	
TOTAL :	23.97	23.53	23.43	23.59	23.19	
APPLICATION OF FUND Fixed Assets (Gross) Gross Dep.	17.85 2.39	17.85 4.45	17.85 6.23	17.85 7.76	17.85 9.09	
Net Fixed Assets	15.46	13.40	11.62	10.09	8.76	
Current Assets Sundry Debtors	4.71	5.60	6.45	7.30	8.30	
Stock in Hand	3.55	4.14	4.57	5.29	5.81	
Cash and Bank	0.24	0.39	0.79	0.91	0.32	
TOTAL :	23.97	23.53	23.43	23.59	23.19	
	-	-	-	-	-	

PARTICULARS	I	II	III	IV	V
A) SALES					
Gross Sale	47.13	55.97	64.50	72.99	82.96
Total (A)	47.13	55.97	64.50	72.99	82.96
B) COST OF SALES					
Raw Mateiral Consumed	23.50	27.14	31.09	35.37	39.99
Electricity Expenses	1.12	1.23	1.34	1.46	1.57
Repair & Maintenance	0.09	0.11	0.13	0.15	0.17
Labour & Wages	8.98	9.87	10.86	11.95	13.14
Dannaciation	0.00	0.00	4.70	4.50	4.00
Depreciation Cost of Production	2.39 36.08	2.06	1.78	1.53 50.45	1.32
Cost of Production	30.00	40.42	45.20	50.45	56.19
Add: Opening Stock /WIP	-	1.20	1.43	1.46	1.76
Less: Closing Stock /WIP	1.20	1.43	1.46	1.76	1.81
Cost of Sales (B)	34.88	40.20	45.17	50.15	56.13
C) GROSS PROFIT (A-B)	12.25	15.77	19.33	22.84	26.82
o, encoor nor	25.99%	28.18%	29.96%	31.29%	32.33%
D) Bank Interest (Term Loan)	1.74	1.42	1.03	0.64	0.25
ii) Interest On Working Capital	0.64	0.64	0.64	0.64	0.64
E) Salary to Staff	6.60	7.26	7.99	8.78	9.66
F) Selling & Adm Expenses Exp.	2.36	2.80	3.22	3.65	4.15
TOTAL (D. E)	44.04	40.40	40.00	40.74	44.00
TOTAL (D+E)	11.34	12.12	12.88	13.71	14.69
H) NET PROFIT	0.91	3.65	6.45	9.13	12.13
,	1.9%	6.5%	10.0%	12.5%	14.6%
I) Taxation	-	-	0.07	0.49	1.07
J) PROFIT (After Tax)	0.91	3.65	6.37	8.63	11.06

PROJECTED CASH FLOW STATE	<u> TEMENT</u>				
PARTICULARS	ı	II	III	IV	V
SOURCES OF FUND					
Own Contribution Net Profit Depreciation & Exp. W/off Increase In Cash Credit	2.43 0.91 2.39 5.80	- 3.65 2.06	6.45 1.78	9.13 1.53	12.13 1.32
Increase In Term Loan Increase in Creditors TOTAL:	16.07 0.55	0.08 5.79	0.09 8.32		0.11 13.56
TOTAL:	28.14	3.79	0.32	10.76	13.30
APPLICATION OF FUND					
Increase in Fixed Assets Increase in Stock Increase in Debtors Repayment of Term Loan Taxation	17.85 3.55 4.71 1.79	0.59 0.88 3.57	- 0.43 0.85 3.57 0.07	0.73 0.85 3.57 0.49	0.52 1.00 3.57 1.07
Drawings TOTAL:	27.90	0.60 5.64	3.00 7.92	5.00 10.64	8.00 14.16
Opening Cash & Bank Balance	-	0.24	0.39	0.79	0.91
Add : Surplus	0.24	0.15	0.39	0.12	- 0.60
Closing Cash & Bank Balance	0.24	0.39	0.79	0.91	0.32

COMPUTATION OF MANUFACTURING OF GYPSUM PLASTER BOARD

Items to be Manufactured Gypsum Plaster Board

Manufacturing Capacity per Day	1.00	MT
No. of Working Hour	8	
No of Working Days per month	25	
No. of Working Day per annum	300	
Total Production per Annum	300	MT
Year	Capacity	GYPSUM PLASTER BOARD
	Utilisation	
1	50%	150
II	55%	
III	60%	
IV	65%	
V	70%	210
		1

COMPUTATION OF RAW MATERIAL

Item Name	Quantity of Raw Material	Unit	Unit Rate of	Total CostPer Annum (100%)
Gypsum	1,200.00	tonne	2,250.00	2,700,000.00
Reinforcement	l.s			500,000.00
Packaging Materials	l.s			1,500,000.00
Total	1,200.00			4,700,000.00

Total Raw material in Rs lacs at 100% Capacity 47.00

Cost per Tonne (In Rs) 15,666.70

Raw Material Consumed	Capacity Utilisation	Rate Am	ount (Rs.)
1	50%	15,666.70	23.50
II	55%	16,450.00	27.14
III	60%	17,272.50	31.09
IV	65%	18,136.10	35.37
V	70%	19,042.90	39.99

6.00	6.00	7.00
100.00		7.0
180.00	195.00	210.00
186.00	201.00	217.00
		210.00
	37,623.00	39,504.00
64.50	72.99	82.9
	6.00 180.00 5,831.00	6.00 7.00 180.00 194.00 5,831.00 37,623.00

COMPUTATION OF CLOSING STOCK & WORKING CAPITAL

					·
PARTICULARS	I	II	II	IV	V
Finished Goods					
(10 Days requirement)	1.20	1.43	1.46	1.76	1.81
Raw Material					
(30 Days requirement)	2.35	2.71	3.11	3.54	4.00
Closing Stock	3.55	4.14	4.57	5.29	5.81

COMPUTATION OF WORKING CAPITAL REQUIREMENT

Particulars	Amount	Margin(25%)	Net
			Amount
Stock in Hand	3.55		
Less:			
Sundry Creditors	0.55		
Paid Stock	3.00	0.75	2.25
Sundry Debtors	4.71	1.18	3.54
Working Capital Requirement			5.80
Margin			1.93
MPBF			5.80
Working Capital Dema	nd		5.80

BREAK UP OF LABOUR

Particulars	Wages	No of	Total
	Per Month	Employees	Salary
Supervisor	20,000.00	1	20,000.00
Plant Operator	15,000.00	1	15,000.00
Unskilled Worker	9,000.00	2	18,000.00
Helper	7,500.00	1	7,500.00
Security Guard	7,500.00	1	7,500.00
			68,000.00
Add: 10% Fringe Benefit			6,800.00
Total Labour Cost Per Month			74,800.00
Total Labour Cost for the year (In Rs. Lakhs)		6	8.98

BREAK UP OF SALARY

Particulars	Salary	No of	Total
	Per Month	Employees	Salary
Manager	20,000.00	1	15,000.00
Accountant cum store keeper	15,000.00	1	15,000.00
Administrative Staffs	10,000.00	2	20,000.00
Total Salary Per Month			50,000.00
Add: 10% Fringe Benefit			5,000.00
Total Salary for the month			55,000.00
Total Salary for the year (In Rs. Lakhs)		4	6.60

COMPUTATION OF DEPRECIATION

			Plant &		
Description	Land	Building/shed	Machinery	Furniture	TOTAL
<u>'</u>		Ŭ			
Rate of Depreciation		10.00%	15.00%	10.00%	
Opening Balance	Leased	10.00 /0	-	10.0076	_
' '		5.00	10.10	0.75	
Addition	-	5.00	12.10	0.75	17.85
	-	5.00	12.10	0.75	17.85
TOTAL		5.00	12.10	0.75	17.85
Less : Depreciation	-	0.50	1.82	0.08	2.39
WDV at end of 1st year	-	4.50	10.29	0.68	15.46
Additions During The Year	-		_	_	-
		4.50	10.29	0.68	15.46
Less : Depreciation	-	0.45	1.54	0.07	2.06
WDV at end of IInd Year	-	4.05	8.74	0.61	13.40
Additions During The Year	-	-	-	-	-
	-	4.05	8.74	0.61	13.40
Less : Depreciation	-	0.41	1.31	0.06	1.78
WDV at end of IIIrd year	-	3.65	7.43	0.55	11.62
Additions During The Year	-	-	-	-	
	-	3.65	7.43	0.55	11.62
Less : Depreciation	-	0.36	1.11	0.05	1.53
WDV at end of IV year	-	3.28	6.32	0.49	10.09
Additions During The Year	-	-	-	-	-
	-	3.28	6.32	0.49	10.09
Less : Depreciation	_	0.33	0.95	0.05	1.32
WDV at end of Vth year		2.95	5.37	0.44	8.76

Particulars Opening Balance st Quarter ind Quarter vth Quarter Opening Balance st Quarter ind Quarter ind Quarter ind Quarter ind Quarter vth Quarter ovth Quarter ovth Quarter ovth Quarter ovth Quarter	16.07 16.07 16.07 15.17 14.28 13.39 12.50 11.60	Addition	16.07 16.07 16.07 15.17 14.28 13.39	0.44 0.44 0.42 1.74	- - 0.89 0.89 1.79	16.07 16.07 15.17 14.28
st Quarter ind Quarter Ilrd Quarter vth Quarter Opening Balance st Quarter ind Quarter Ilrd Quarter vth Quarter	16.07 16.07 15.17 14.28 13.39 12.50	- - - -	16.07 16.07 15.17 14.28 13.39	0.44 0.44 0.42 1.74	0.89	16.07 15.17
st Quarter ind Quarter Ilrd Quarter vth Quarter Opening Balance st Quarter ind Quarter Ilrd Quarter vth Quarter	16.07 16.07 15.17 14.28 13.39 12.50	- - - -	16.07 16.07 15.17 14.28 13.39	0.44 0.44 0.42 1.74	0.89	16.07 15.17
ind Quarter Ilrd Quarter vth Quarter Opening Balance st Quarter ind Quarter Ilrd Quarter vth Quarter	16.07 16.07 15.17 14.28 13.39 12.50	- - - - - -	16.07 16.07 15.17 14.28 13.39	0.44 0.44 0.42 1.74	0.89	16.07 15.17
Ilrd Quarter vth Quarter Dening Balance st Quarter ind Quarter Ilrd Quarter vth Quarter	16.07 15.17 14.28 13.39 12.50	- - - - - -	16.07 15.17 14.28 13.39	0.44 0.42 1.74	0.89	15.17
Opening Balance st Quarter ind Quarter IIrd Quarter vth Quarter	15.17 14.28 13.39 12.50	- - - - -	15.17 14.28 13.39	0.42 1.74	0.89	
Opening Balance st Quarter ind Quarter IIrd Quarter vth Quarter	14.28 13.39 12.50	- - - -	14.28 13.39	1.74		14.28
st Quarter ind Quarter IIrd Quarter vth Quarter	13.39 12.50	- - -	13.39		1.79	
st Quarter ind Quarter IIrd Quarter vth Quarter	13.39 12.50	- - -	13.39	0.39		
ind Quarter IIrd Quarter vth Quarter	13.39 12.50	- - -	13.39	0.39		
IIrd Quarter vth Quarter	12.50	-			0.89	13.39
vth Quarter		-		0.37	0.89	12.50
	11.60		12.50	0.34	0.89	11.60
Opening Balance			11.60	0.32	0.89	10.71
Opening Balance				1.42	3.57	
st Quarter	10.71	-	10.71	0.29	0.89	9.82
ind Quarter	9.82	-	9.82	0.27	0.89	8.93
IIrd Quarter		-	8.93			8.03
vth Quarter	8.03		8.03	0.22	0.89	7.14
				1.03	3.57	
Opening Balance						
st Quarter	7.14	-	7.14	0.20	0.89	6.25
ind Quarter	6.25	-	6.25	0.17	0.89	5.36
IIrd Quarter	5.36	-	5.36	0.15	0.89	4.46
vth Quarter	4.46		4.46	0.12	0.89	3.57
				0.64	3.57	
Opening Balance						
st Quarter	3.57	-	3.57	0.10	0.89	2.68
ind Quarter	2.68	-	2.68	0.07	0.89	1.79
IIrd Quarter	1.79	-	1.79	0.05	0.89	0.89
vth Quarter	0.89		0.89	0.02	0.89	-
				0.25	3.57	
Door to Door Period	60	Months				
Moratorium Period	6	Months				
Repayment Period	54	Months				
ill Coill Co	Ind Quarter Ird Quarter Ird Quarter Opening Balance It Quarter Ird Quarter Ird Quarter Ird Quarter Ird Quarter Opening Balance It Quarter Ird Quarter	Ind Quarter 9.82 Ird Quarter 8.93 Irth Quarter 8.03 Irth Quarter 8.03 Irth Quarter 7.14 Irth Quarter 6.25 Irth Quarter 5.36 Irth Quarter 4.46 Irth Quarter 4.46 Irth Quarter 9.89	Ind Quarter 9.82 - Ird Quarter 8.93 - Irth Quarter 8.03 Opening Balance St Quarter 7.14 - Ind Quarter 6.25 - Ird Quarter 5.36 - Irth Quarter 4.46 Opening Balance St Quarter 2.68 - Ird Quarter 2.68 - Ird Quarter 1.79 - Irth Quarter 1.79 - Irth Quarter 0.89	Second Columbia	Second S	Note

CALCULATION OF D.S.C.R

PARTICULARS	I	II	III	IV	٧
04004400004440	0.00	F 74	0.45	40.47	40.00
CASH ACCRUALS	3.30	5.71	8.15	10.17	12.38
Interest on Term Loan	1.74	1.42	1.03	0.64	0.25
Total	5.04	7.13	9.18	10.81	12.63
<u>REPAYMENT</u>					
Repayment of Term Loan	1.79	3.57	3.57	3.57	3.57
Interest on Term Loan	1.74	1.42	1.03	0.64	0.25
Total	3.53	4.99	4.60	4.21	3.82
DEBT SERVICE COVERAGE RATIO	1.43	1.43	2.00	2.57	3.31
AVERAGE D C O D			0.40		
AVERAGE D.S.C.R.			2.12		

COMPUTATION OF ELECTRICITY

(A) DOWER CONNECT		ī	1	
(A) POWER CONNECT	<u>IUN</u>			
Tatal Marking Harris	<u> </u>	110		
Total Working Hour per	day	Hours	8	
Electric Load Required		HP	10	
Load Factor		•.	0.7460	
Electricity Charges		per unit	7.50	
Total Working Days			300	4.04
Electricity Charges				1.34
Add Minimim Charges	(@ 400/)			
Add: Minimim Charges	(@ 10%)			
(B) DG set				
No. of Working Days			300	days
No of Working Hours			0.5	Hour per
No or working Hours			0.5	day
Total no of Hour			150	
Diesel Consumption pe			8	
Total Consumption of D	iesel		1,200	
Cost of Diesel			65.00	Rs. /Ltr
Total cost of Diesel			0.78	
Add: Lube Cost @15%			0.12	
Total			0.90	
Total cost of Power & Fu	el at 100%			2.24
Year		Capacity		Amount
100.1		Capacity		(in Lacs)
				(
I		50%		1.12
II		55%		1.23
III		60%		1.34
IV		65%		1.46
V		70%		1.57

BREAK EVEN POINT ANALYSIS

Year		II	III	IV	٧
Net Sales & Other Income	47.13	55.97	64.50	72.99	82.96
Less : Op. WIP Goods	-	1.20	1.43	1.46	1.76
Add : Cl. WIP Goods	1.20	1.43	1.46	1.76	1.81
Total Sales	48.33	56.19	64.53	73.29	83.01
Variable & Semi Variable Exp.					
Raw Material & Tax	23.50	27.14	31.09	35.37	39.99
Electricity Exp/Coal Consumption at 85%	0.95	1.05	1.14	1.24	1.33
Wages & Salary at 60%	9.35	10.28	11.31	12.44	13.68
Selling & adminstrative Expenses 80%	1.89	2.24	2.58	2.92	3.32
ii) Interest On Working Capital	0.64	0.64	0.64	0.64	0.64
Repair & Maintenance	0.09	0.11	0.13	0.15	0.17
Total Variable & Semi Variable Exp	36.41	41.46	46.89	52.75	59.13
Contribution	11.91	14.73	17.64	20.54	23.89
Fixed & Semi Fixed Expenses					
Electricity Exp/Coal Consumption at 15%	0.17	0.18	0.20	0.22	0.24
Wages & Salary at 40%	6.23	6.85	7.54	8.29	9.12
Interest on Term Loan	1.74	1.42	1.03	0.64	0.25
Depreciation	2.39	2.06	1.78	1.53	1.32
Selling & adminstrative Expenses 20%	0.47	0.56	0.64	0.73	0.83
Total Fixed Expenses	11.00	11.08	11.19	11.41	11.76
Capacity Utilization	50%	55%	60%	65%	70%
OPERATING PROFIT	0.91	3.65	6.45	9.13	12.13
BREAK EVEN POINT	46%	41%	38%	36%	34%
BREAK EVEN SALES	44.63	42.27	40.95	40.72	40.86

FINANCIAL INDICATORS					
PARTICULARS			III	IV	V
TURNOVER	47.13	55.97	64.50	72.99	82.96
GROSS PROFIT	12.25	15.77	19.33	22.84	26.82
G.P. RATIO	25.99%	28.18%	29.96%	31.29%	32.33%
NET PROFIT	0.91	3.65	6.45	9.13	12.13
PAT/SALES RATIO	1.93%	6.52%	9.99%	12.51%	14.62%
CURRENT ASSETS	8.51	10.13	11.81	13.50	14.42
CURRENT LIABILITIES	6.35	6.43	6.53	6.63	6.73
CURRENT RATIO	1.34	1.57	1.81	2.04	2.14
TERM LOAN	14.28	10.71	7.14	3.57	-
TOTAL NET WORTH	3.34	6.39	9.76	13.40	16.45
DEBT/EQUITY	4.28	1.68	0.73	0.27	-
TOTAL NET WORTH	3.34	6.39	9.76	13.40	16.45
TOTAL OUTSIDE LIABILITIES	20.63	17.14	13.67	10.20	6.73
TOL/TNW	6.18	2.68	1.40	0.76	0.41
PBDIT	5.68	7.77	9.89	11.94	14.34
INTEREST	2.38	2.06	1.67	1.28	0.88
INTEREST COVERAGE RATIO	2.39	3.77	5.93	9.36	16.23
WDV	15.46	13.40	11.62	10.09	8.76
TERM LOAN	14.28	10.71	7.14	3.57	-
FACR	1.08	1.25	1.63	2.83	-

PARTICULARS	QTY.	RATE	AMOUNT IN RS.
45 Cm size Altrition type Disc Pulveriser with 7 H.P. Motor	1	360,000.00	360,000.00
2.5 M long 2M Dia Cylindrical Rotary Drum Calciner with coal fired roasting oven	1	500,000.00	500,000.00
Platform type weighing balance of 100 kg capacity	1	25,000.00	25,000.00
6 Nos. of 4□ x 6□ wooden Tables with polished Marble Top	6	25,000.00	150,000.00
Moulds Hand Tools, slurry making Tank, etc	l.s	100,000.00	100,000.00
Testing equipments	l.s	75,000.00	75,000.00
Net Amount			1.210.000.00



DISCLAIMER

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