PROJECT REPORT

Of

CEMENT GRILL

PURPOSE OF THE DOCUMENT

This particular pre-feasibility is regarding **Cement Grill**.

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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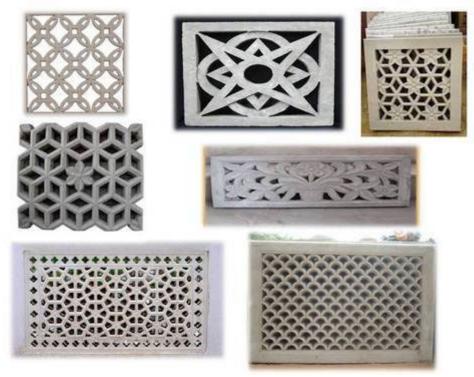
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	Р	PROJECT A	T A GLANCE			
1	Name of the Entreprenuer	XXXXXXXX	xxx			
2	Constitution (legal Status)	xxxxxxx	xxx			
3	Father / Spouse Name	xxxxxxx	xxxxx			
4	Unit Address :	xxxxxxx	****			
		District : Pin:		xx	XXXXXX XXXXXX	State: xxxxxxxxxx
		Mobile		XX	xxxxx	
5	Product and By Product :	CEMEN	T GRILLS			
6	Name of the project / business activity proposed :	CEMEN	T GRILL MAKING UNIT			
7	Cost of Project :	Rs.11.93	Lakhs			
8	Means of Finance Term Loan Own Capital Working capital	Rs.7.74 I Rs.1.19 I Rs.3 Lak	akhs			
9	Debt Service Coverage Ratio :		:	2.77		
10	Pay Back Period :			5 Y	lears	
11	Project Implementation Period :			5-6 N	Months	
12	Break Even Point :			31%		
13	Employment :			8 P	Persons	
14	Power Requirement :		3	0.00 F	ŦΡ	
15	Major Raw materials :	Portland	cement, Sand, MS Rod & wire			
16	Estimated Annual Sales Turnover (Max Capacity) :		6	5.44 L	akhs	
17	Detailed Cost of Project & Means of Finance					
	COST OF PROJECT			(1	Rs. In Lakhs)	
		Particula Land			Amount Own/Rented	
		Building Plant & I	/Shed 800 Sq ft Machinery	_	4.00 3.60	
		Furnitur	e & Fixtures		1.00	
		Working Total	Capital		3.33 11.93	
	MEANS OF FINANCE	Particula	1°C		Amount	
			ntribution		1.19	
			capital(Finance)		3.00	
		Term Lo			7.74]
		Total			11.93	
		L				J

CEMENT GRILL

Introduction: Cement grills have occupied an important role in the building constructions. Cement grills are pierced panels with a thickness of not less than 2.5 cm. They are used in construction of houses, buildings etc. as partition panels in the walls and ventilators. Very often cement grill is a better substitute for a window. It lets in general subdued light. It also deals with ventilation but prevents rain from entering. It is secured from thieves or animals. It of different designs and shapes are made according to needs. It is cheaper than wood or steel jali.



Market Potential: The demand for cement grills increases correspondingly with the increase of building construction activity which is fast growing in the country. Apart from low cost, other contributing factors to their demand are facinating designs and functional qualifies in the market. Though the consumption of cement grill in Bihar state is about 1,00,00,000 sq.ft in a year, there are around fifty to sixty units running to meet the requirements. The gap in demand & supply is met by the product transported from other adjoining states like Uttar Pradesh, West Bengal and Jharkhand. There is a good scope to develop MSE units in this line of manufacture for local consumption.

Machines & equipments: Major machines & equipments are:

Name	Qty.	Price
Moulds/frames (iron)	1	90000
Wooden planks	1	15000
Concrete hand mixer	1	40000
Vibrator with 1 Hp motor and starter	1	50000
Curing tank 10'x5'x3'	2	80000
Pollution control equipment	LS	25000
Other tools & equipments	LS	60000

<u>Raw material:</u> Major raw material requirement are:

- 1. Portland cement
- 2. Sand
- 3. MS Rod & wire
- 4. Other materials

Manufacturing Process: Though not much advanced technology is employed in the manufacturing of cement grills, the techniques in designing and shaping have developed since these items find use in the multi-storeyed building as ventilators and partition panels in walls.

The process of manufacturing is simple, as the technical aspects involved are very less and do not require any heavy machineries. One concrete hand mixture (local made) and iron or wooden moulds are required for the manufacture of cement grills. The moulds are lubricated with kerosene oil and kept ready for moulding. The cement and sand in proper ratio (i.e. 1:3) with proportionate water is mixed to make concrete mixer. The moulds are then filled with the concrete mixer duly providing reinforcement with M S rods and wires at suitable depth. The excess material spread over the mould is removed and the surface is smoothened with the help of a trowel. The grills in different shapes and designs are then removed about 24 hours. These are then immersed in water for 14 days for curing in order to develop strength and make more durable.

<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 800 to 1200Sqft. Civil work will cost around 4 Lac (approx.)

<u>Power Requirement</u> – The power consumption required to run all the machinery could be approximated as 30 hp.

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 Plant operator, 1 unskilled worker, 1 Helper and 1 security Guard. 3 Skilled worker including Accountant, Manager and sales personal each.

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

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

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

PROJECTED CASH FLOW STATE	EMENT	I			
PARTICULARS	I	п	III	IV	v
	-				•
SOURCES OF FUND					
Own Contribution	1.19	-			
Reserve & Surplus	2.11	3.18	4.72	6.97	8.67
Depriciation & Exp. W/off	1.04	0.91	0.80	0.70	0.61
Increase In Cash Credit	3.00				
Increase In Term Loan	7.74	-	-	-	-
Increase in Creditors	0.67	0.11	0.08	0.08	0.08
TOTAL :	15.75	4.20	5.59	7.75	9.36
APPLICATION OF FUND					
Increase in Fixed Assets	8.60	-	-	-	-
Increase in Stock	0.85	0.15	0.14	0.14	0.15
Increase in Debtors	3.61	0.70	0.70	0.74	0.79
Repayment of Term Loan	0.86	1.72	1.72	1.72	1.72
Taxation	-	-	-	1.74	2.17
Drawings	1.00	1.50	2.00	2.50	3.00
TOTAL :	14.92	4.07	4.55	6.85	7.83
Opening Cash & Bank Balance	-	0.82	0.96	1.99	2.89
Add : Surplus	0.82	0.13	1.04	0.90	1.53
Closing Cash & Bank Balance	0.82	0.96	1.99	2.89	4.42

PROJECTED BALANCE SHEET	<u>[</u>	1		1	
PARTICULARS	I	п	ш	IV	v
SOURCES OF FUND					
Capital Account				(= 0	0.40
Opening Balance	-	2.30	3.98	6.70	9.43
Add: Additions	1.19	-	-	-	-
Add: Net Profit	2.11	3.18	4.72	5.23	6.50
Less: Drawings	1.00	1.50	2.00	2.50	3.00
Closing Balance	2.30	3.98	6.70	9.43	12.94
CC Limit	3.00	3.00	3.00	3.00	3.00
Term Loan	6.88	5.16	3.44	1.72	-
Sundry Creditors	0.67	0.78	0.86	0.93	1.01
TOTAL :	12.85	12.92	14.00	15.09	16.95
APPLICATION OF FUND					
Fixed Assets (Gross)	8.60	8.60	8.60	8.60	8.60
Gross Dep.	1.04	1.95	2.74	3.44	4.05
Net Fixed Assets	7.56	6.65	5.86	5.16	4.55
Current Assets					
Sundry Debtors	3.61	4.31	5.01	5.75	6.54
Stock in Hand	0.85	1.00	1.14	1.28	1.43
Cash and Bank	0.82	0.96	1.99	2.89	4.42
	12.85	12.92	14.00	15.09	16.95
TOTAL :					

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PROJECTED PROFITABILITY STA	TEMENT				
PARTICULARS	I	II	ш	IV	v
A) SALES					
Gross Sale	36.11	43.13	50.08	57.52	65.44
Total (A)	36.11	43.13	50.08	57.52	65.44
B) COST OF SALES					
Raw Material Consumed	20.03	23.36	25.70	28.04	30.37
Elecricity Expenses	2.05	2.28	2.51	2.74	2.97
Repair & Maintenance	1.81	2.80	4.01	4.60	5.89
Labour & Wages	4.79	5.36	6.17	7.09	8.08
Depreciation	1.04	0.91	0.80	0.70	0.61
Cost of Production	29.71	34.72	39.18	43.16	47.92
		0.52	0.(1	0.71	0.82
Add: Opening Stock /WIP Less: Closing Stock /WIP	0.52	0.52	0.61 0.71	0.71 0.82	0.82
Less: Closing Stock/WIP	0.52	0.61	0.71	0.82	0.95
Cost of Sales (B)	29.19	34.63	39.08	43.06	47.81
C) GROSS PROFIT (A-B)	6.91	8.50	11.00	14.46	17.62
()	19.15%	19.71%		25.14%	26.93%
D) Bank Interest (Term Loan)	0.84	0.69	0.50	0.31	0.12
ii) Interest On Working Capital	0.33	0.33	0.33	0.33	0.33
E) Salary to Staff	3.28	3.44	3.96	4.55	5.23
F) Selling & Adm Expenses Exp.	0.36	0.86	1.50	2.30	3.27
TOTAL (D+E)	4.81	5.32	6.28	7.49	8.95
H) NET PROFIT	2.11	3.18	4.72	6.97	8.67
	5.8%	7.4%		12.1%	13.3%
I) Taxation	-	-	-	1.74	2.17
J) PROFIT (After Tax)	2.11	3.18	4.72	5.23	6.50
Raw Material Consumed	Capacity		Amount (Rs.)		
	Utilisation				
Ι	45%		20.03		
II	50%		23.36	5% Increase in	
III	55%		25.70	5% Increase in	Cost
IV	60%			5% Increase in	
V	65%		30.37	5% Increase in	Cost

COMPUTATION OF MAKING OF CEMENT GRILL		
Item to be Manufactured Cement Grill		
Manufacturing Capacity per day	800	sqft.
No. of Working Hour	8	
No. of working Hour	0	
No of Working Days per month	25	
No. of Working Day per annum	300	
Total Production per Annum	2,40,000	sqft.
Total Production per Annum	2,40,000	sqft.
Year	Capacity	CEMENT GRILLS
	Utilisation	
I	45%	1,08,000.00
I	50%	1,20,000.00
III	55%	
IV	60%	1,44,000.00
V	65%	1,56,000.00

COMPUTATION OF RAW MATERIAL

Item Name	Quantity of Raw Material	Unit	Unit Rate of	Total CostPer Annum (100%)
Portland cement	260.00	MT	6,500.00	16,90,000.00
Sand	32,000.00	Cu. Ft.	30.00	9,60,000.00
MS Rod & wire	48.00	MT	35,000.00	16,80,000.00
Other materials				1,20,000.00
Total				44,50,000.00
Total Raw material in Rs lacs				44.50

COMPUTATION OF SALE

Particulars	I	II	III	IV	V
Op Stock	-	1,800.00	2,000.00	2,200.00	2,400.00
Production	1,08,000.00	1,20,000.00	1,32,000.00	1,44,000.00	1,56,000.00
	1,08,000.00	1,21,800.00	1,34,000.00	1,46,200.00	1,58,400.00
Less : Closing Stock(5 Days)	1,800.00	2,000.00	2,200.00	2,400.00	2,600.00
Net Sale	1,06,200.00	1,19,800.00	1,31,800.00	1,43,800.00	1,55,800.00
The ball	1,00,200.00	1,17,000.00	1,51,000.00	1,45,000.00	1,00,000.00
Sale Price per ft	34.00	36.00	38.00	40.00	42.00
Sale (in Lacs)	36.11	43.13	50.08	57.52	65.44

COMPUTATION OF CLOSING STOCK & WORKING CAPITAL							
PARTICULARS	I	П	III	IV	v		
Finished Goods							
(5 Days requirement)	0.52	0.61	0.71	0.82	0.93		
Raw Material							
(5 Days requirement)	0.33	0.39	0.43	0.47	0.51		
Closing Stock	0.85	1.00	1.14	1.28	1.43		

COMPUTATION OF WORKING CAPIT			
Particulars	Amount	Margin(10%)	Net
			Amount
Stock in Hand	0.85		
Less:			
Sundry Creditors	0.67		
Paid Stock	0.19	0.02	0.17
Sundry Debtors	3.61	0.36	3.25
Working Capital Requirement			3.42
Margin			0.38
MPBF			3.42
Working Capital Demand			3.00

BREAK UP OF LABOUR			
Particulars	Wages	No of	Total
	Per Month	Employees	Salary
Supervisor	12,000.00	1	12,000.00
Plant Operator	10,000.00	1	10,000.00
Unskilled Worker	6,000.00	1	6,000.00
Helper	4,000.00	1	4,000.00
Security Guard	6,000.00	1	6,000.00
			38,000.00
Add: 5% Fringe Benefit			1,900.00
Total Labour Cost Per Month			39,900.00
Total Labour Cost for the year (In Rs. Lakhs)		5	4.79

BREAK UP OF SALARY			
Particulars	Salary	No of	Total
	Per Month	Employees	Salary
Manager	10,000.00	1	12,000.00
Accountant cum store keeper	8,000.00	1	8,000.00
Sales	6,000.00	1	6,000.00
Total Salary Per Month			26,000.00
Add: 5% Fringe Benefit			1,300.00
Total Salary for the month			27,300.00
Total Salary for the year (In Rs. Lakhs)		3	3.28

COMPUTATION OF DEPRECIA	ATION				
			Plant &		
Description	Land	Building/shed	Machinery	Furniture	TOTAL
Rate of Depreciation		10.00%	15.00%	10.00%	
Opening Balance	Leased		-	-	-
Addition	-	4.00	3.60	1.00	8.60
	-	4.00	3.60	1.00	8.60
		-	-	-	
TOTAL		4.00	3.60	1.00	8.60
Less : Depreciation	-	0.40	0.54	0.10	1.04
WDV at end of Ist year	-	3.60	3.06	0.90	7.56
Additions During The Year	-	-	-	-	-
	-	3.60	3.06	0.90	7.56
Less : Depreciation	-	0.36	0.46	0.09	0.91
WDV at end of IInd Year	-	3.24	2.60	0.81	6.65
Additions During The Year	-	-	-	-	-
	-	3.24	2.60	0.81	6.65
Less : Depreciation	-	0.32	0.39	0.08	0.80
WDV at end of IIIrd year	-	2.92	2.21	0.73	5.86
Additions During The Year	-	-	-	-	-
	-	2.92	2.21	0.73	5.86
Less : Depreciation	-	0.29	0.33	0.07	0.70
WDV at end of IV year	-	2.62	1.88	0.66	5.16
Additions During The Year	-	-	-	-	-
	-	2.62	1.88	0.66	5.16
Less : Depreciation	-	0.26	0.28	0.07	0.61
WDV at end of Vth year	-	2.36	1.60	0.59	4.55

REPAYMEN	T SCHEDULE OF TERN	<u>I LOAN</u>				11.0%	
Year	Particulars	Amount	Addition	Total	Interest	Repayment	Cl Balance
I	Opening Balance						
	Ist Quarter	7.74	-	7.74	0.21	-	7.74
	Iind Quarter	7.74	-	7.74	0.21	-	7.74
	IIIrd Quarter	7.74	-	7.74	0.21	0.43	7.31
	Ivth Quarter	7.31	-	7.31	0.20	0.43	6.88
	0				0.84	0.86	
II	Opening Balance	6.00		6.00	0.10	2.42	=
	Ist Quarter	6.88	-	6.88	0.19	0.43	6.45
	Iind Quarter	6.45	-	6.45	0.18	0.43	6.02
	IIIrd Quarter	6.02	-	6.02	0.17	0.43	5.59
	Ivth Quarter	5.59		5.59	0.15	0.43	5.16
					0.69	1.72	
III	Opening Balance						
	Ist Quarter	5.16	-	5.16	0.14	0.43	4.73
	Iind Quarter	4.73	-	4.73	0.13	0.43	4.30
	IIIrd Quarter	4.30	-	4.30	0.12	0.43	3.87
	Ivth Quarter	3.87		3.87	0.11	0.43	3.44
					0.50	1.72	
IV	Opening Balance						
	Ist Quarter	3.44	-	3.44	0.09	0.43	3.01
	Iind Quarter	3.01	-	3.01	0.08	0.43	2.58
	IIIrd Quarter	2.58	-	2.58	0.07	0.43	2.15
	Ivth Quarter	2.15		2.15	0.06	0.43	1.72
					0.31	1.72	
V	Opening Balance						
	Ist Quarter	1.72	-	1.72	0.05	0.43	1.29
	Iind Quarter	1.29	-	1.29	0.04	0.43	0.86
	IIIrd Quarter	0.86	-	0.86	0.02	0.43	0.43
	Ivth Quarter	0.43		0.43	0.01	0.43	0.00
						1 - 2	
					0.12	1.72	

Door to Door Period

60 Months

Moratorium Period Repayment Period 6 Months

54 N

54 Months

CALCULATION OF D.S.C.R					
PARTICULARS	I	II	III	IV	V
CASH ACCRUALS	3.15	4.09	5.51	5.93	7.11
Interest on Term Loan	0.84	0.69	0.50	0.31	0.12
Total	3.99	4.78	6.01	6.23	7.23
REPAYMENT					
Repayment of Term Loan	0.86	1.72	1.72	1.72	1.72
Interest on Term Loan	0.84	0.69	0.50	0.31	0.12
Total	1.70	2.41	2.22	2.03	1.84
DEBT SERVICE COVERAGE RATIO	2.35	1.99	2.71	3.07	3.93
AVERAGE D.S.C.R.			2.77		

COMPUTATION OF ELECTRICITY			
(A) POWER CONNECTION			
Total Working Hour per day	Hours	8	
Electric Load Required	HP	30	
Load Factor		0.7460	
Electricity Charges	per unit	7.50	
Total Working Days		300	
Electricity Charges			4,02,840.00
Add : Minimim Charges (@ 10%)			
(R) DC set			
(B) DG set No. of Working Days		300	days
No of Working Hours		0.3	Hour per day
Total no of Hour		90	F j
Diesel Consumption per Hour		8	
Total Consumption of Diesel		720	
Cost of Diesel		65.00	Rs. /Ltr
Total cost of Diesel		0.47	
Add : Lube Cost @15%		0.07	
Total		0.54	
Total cost of Power & Fuel at 100%			4.57
Year	Capacity		Amount
			(in Lacs)
I	45%		2.05
II	50%		2.28
III	55%		2.51
IV	60%		2.74
V	65%		2.97



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