PROJECT REPORT

Of

CLC Blocks and Bricks

PURPOSE OF THE DOCUMENT

This particular pre-feasibility is regarding CLC Blocks and Bricks.

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.]



<u>Lucknow Office</u>: Sidhivinayak Building , 27/1/B, Gokhlley Marg, Lucknow-226001

<u>Delhi Office</u>: Multi Disciplinary Training Centre, Gandhi Darshan Rajghat,

New Delhi 110002

Email: info@udyami.org.in Contact: +91 7526000333, 444, 555

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 : **CLC Blocks and Bricks**

6 Name of the project / business activity proposed : CLC Blocks Manufacturing Unit

7 Cost of Project : Rs.21.11 Lakhs

8 Means of Finance

Term Loan Rs.15 Lakhs
Own Capital Rs.2.11 Lakhs
Working Capital Rs.4 Lakhs

9 Debt Service Coverage Ratio : 2.31

10 Pay Back Period : 5 Years

11 Project Implementation Period : 5-6 Months

12 Break Even Point : 40%

13 Employment : 13 Persons

14 Power Requirement : 40 HP

15 Major Raw materials : Cement, Water, Fly Ash, Foam etc

Estimated Annual Sales Turnover (Max Utilized

16 Capacity) : 91.64 Lakhs

17 Detailed Cost of Project & Means of Finance

COST OF PROJECT (Rs. In Lakhs)

Particulars	Amount
Land	Own/Rented
Building /Shed 2000 Sq ft	Own/Rented
Plant & Machinery	15.50
Furniture & Fixtures	1.17
Working Capital	4.44
Total	21.11

MEANS OF FINANCE

Particulars	Amount
Own Contribution	2.11
Term Loan	15.00
Working Capital	4.00
Total	21.11

Cellular Lightweight Concrete Bricks (CLC)

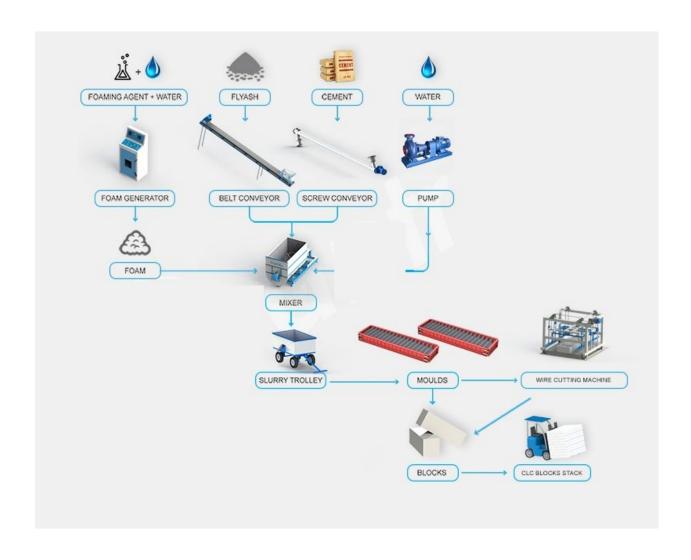


INTRODUCTION

Cellular Lightweight Concrete Bricks (CLC) is also called as Foam Concrete. It is a version of lightweight concrete which is produced in the same way as normal Concrete under ambient conditions.

CLC Blocks are Cement Bonded Material made by blending Slurry of Cement. Stable, pre-formed foam manufactured on site is injected into this slurry to form foam concrete. CLC blocks are made from cellular lightweight concrete or foam concrete. The blocks are easy to install, nail, drill and cut for pipes and conduits. The raw materials to manufacture the CLC blocks are fly ash/sand, cement and protein based foaming agent. These blocks are fire and pest resistant, Low Maintenance, Long- Life, Seismic Resistant blocks used for various applications across the world from last 6 decades.

CLC BLOCKS PRODUCTION FLOW CHART



ADVANTAGES OF CLC BRICKS

- Low thermal conductivity.
- ♣ Thermal Performances 5 times better than clay bricks & 10 times better than RCC
- ♣ Interiors remain cool in summer and warm in cold wintry days.
- **♣** Savings in recurring energy costs in air-conditioning.
- Ideal material for applications in cold storage rooms.
- ♣ It is possible to achieve even higher values depending upon the thickness and the plaster.
- Good Sound Insulation Up to 37-42db sound reduction based on thickness.
- Savings in recurring energy costs in air-conditioning.
- **Lesson Formal Services** 4 Can fulfill required STC (Sound Transmission Class) rating.

Reduction of Dead Load

- 1/3rd the density of clay bricks.
- ♣ Economic design: savings in cement and steel.
- Enables faster construction.
- Suitable for low-soil bearing capacity & seismic zones.
- Facilitates construction of unplanned walls anywhere anytime.

Fire Protection

♣ CLC Bricks offer great fire protection. With a just 100mm. thickness of wall 1000 kg/m3, CLC block offers fire endurance for heat transmission for 4 hours without releasing any toxic fumes during.

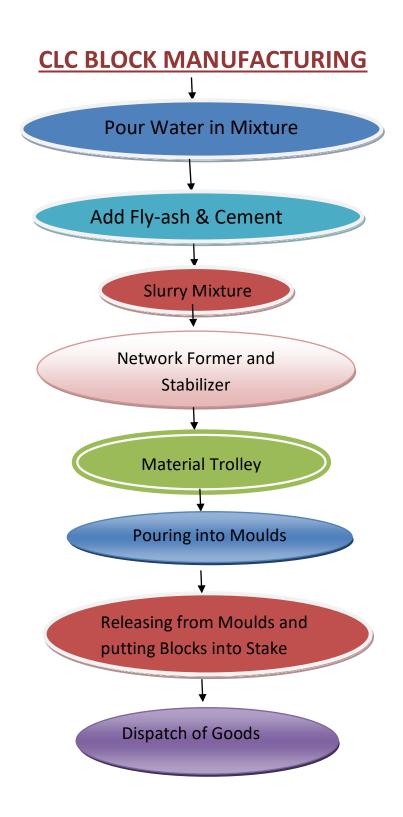
Enhances Carpet Area

An engineered block, it can be offered in any thickness as per the construction design. By using 150 mm thick Bricks in place of 9-inch brick, the customer gets an additional 2% to 3% carpet area. The savings on account of additional carpet area gained is more than the cost of Bricks.

Other Advantages of CLC Bricks: -

- **♣** CLC offers economical POP or putty finish in internal partition walls.
- Accurate size and shapes help in reducing plastering costs.
- ♣ Better finishing of walls offers good amount of reduction in paints.
- Eco-friendly
- Speedier Constructions.
- Lase of Work ability
- Universal Acceptability
- Low Water Absorption.

Technical Process Flow Chart



	ICCTCD	DDACIT	ADII ITV	CTATEMENT
PRU	ノニし・IEV	PROFIL	ABILIII	STATEMENT

PARTICULARS	ı	II	III	IV	V
A) SALES					
Gross Sale	52.20	62.18	71.24	81.05	91.64
Total (A)	52.20	62.18	71.24	81.05	91.64
B) COST OF SALES					
Raw Mateiral Consumed	26.06	30.20	34.56	39.20	44.10
Electricity Expenses	3.13	3.45	3.76	4.07	4.39
Repair & Maintenance	0.26	0.31	0.36	0.41	0.46
Labour & Wages	11.55	12.71	13.98	15.37	16.91
Depreciation	2.44	2.08	1.77	1.51	1.29
Cost of Production	43.44	48.74	54.43	60.56	67.15
Add. Opening Stock MAID		1.45	1 50	1.76	1.06
Add: Opening Stock /WIP Less: Closing Stock /WIP	- 1.45	1.45	1.58 1.76	1.76 1.96	1.96 2.17
Cost of Sales (B)	41.99	48.61	54.24	60.36	66.93
C) GROSS PROFIT (A-B)	10.21	13.57	17.00	20.69	24.70
D) Double Interest (Towns Loon)	19.55%	21.82%	23.86%	25.52%	26.96%
D) Bank Interest (Term Loan) ii) Interest On Working Capital	1.63 0.44	1.33 0.44	0.96 0.44	0.60 0.44	0.23 0.44
E) Salary to Staff	4.62	5.08	5.59	6.15	6.76
F) Selling & Adm Expenses Exp.	2.61	3.11	3.56	4.05	4.58
TOTAL (D+E)	9.30	9.96	10.55	11.24	12.01
H) NET PROFIT	0.91	3.61	6.45	9.45	12.69
	1.7%	5.8%	9.0%	11.7%	13.8%
I) Taxation	-	-	0.22	0.04	1.04
J) PROFIT (After Tax)	0.91	3.61	6.22	9.41	11.64

PROJECTED CASH FLOW STAT	EMENT				
PARTICULARS	ı	II	III	IV	V
PARTICULARS	<u> </u>	- 11	111	IV	V
SOURCES OF FUND					
Own Contribution Net Profit Depreciation & Exp. W/off	2.11 0.91 2.44	- 3.61 2.08	6.45 1.77	9.45 1.51	12.69 1.29
Increase In Cash Credit Increase In Term Loan Increase in Creditors TOTAL:	4.00 15.00 0.43 24.90	- 0.07 5.76	0.07 8.29	0.08 11.04	0.08 14.06
APPLICATION OF FUND					
Increase in Fixed Assets Increase in Stock	16.67 2.32	- 0.27	- 0.33	- 0.35	- 0.38
Increase in Debtors Repayment of Term Loan Taxation	2.61 1.67	0.50 3.33	0.45 3.33 0.22	0.49 3.33 0.04	0.53 3.33 1.04
Drawings TOTAL:	1.50 24.76	2.50 6.60	4.00 8.34	5.00 9.22	8.00 13.28
Opening Cash & Bank Balance	-	0.13 -	0.71	- 0.75	1.07
Add : Surplus	0.13 -	0.84 -	0.05	1.82	0.78
Closing Cash & Bank Balance	0.13 -	0.71 -	0.75	1.07	1.85

COMPUTATION OF CLC BLOCKS MANUFACTURING UNIT

Items to be Manufactured CLC Blocks and Bricks

Manufacturing Capacity per Day	3,000.00	Blocks
No. of Working Hour	8	
No of Working Days per month	25	
No. of Working Day per annum	300	
Total Production per Annum	900,000	Blocks
Total i Todaction per Atmani	300,000	DIOCKS
Year	Capacity	CLC Blocks
		and Bricks
	Utilisation	
I	50%	450,000
II	55%	495,000
III	60%	540,000
IV	65%	585,000
V	70%	630,000

COMPUTATION OF RAW MATERIAL

Item Name	Quantity of Raw Material	Unit	Unit Rate of	Total CostPer Annum (100%)
Cement	60.00	tonne	5,000.00	300,000.00
Sand	90.00	tonne	3,500.00	315,000.00
Fly Ash	75.00	tonne	1,200.00	90,000.00
Water	60.00	tonne	36.00	2,160.00
Foam Generator	30.00	tonne	150,000.00	4,500,000.00
Total	315.00			5,207,160.00

Total Raw material in Rs lacs at 100% Capacity 52.07

Cost per CLC Blocks (In Rs) 5.79

Raw Material Consumed	Capacity Utilisation	Rate Am	ount (Rs.)	
1	50%	5.79	26.06	
II	55%	6.10	30.20	
III	60%	6.40	34.56	
IV	65%	6.70	39.20	
V	70%	7.00	44.10	

COMPUTATION OF SALE

-	45.000.00			
-	45.000.00			
	15,000.00	16,500.00	18,000.00	19,500.00
450,000.00	495,000.00	540,000.00	585,000.00	630,000.00
450,000.00	510,000.00	556,500.00	603,000.00	649,500.00
15,000.00	16,500.00	18,000.00	19,500.00	21,000.00
435,000.00	493,500.00	538,500.00	583,500.00	628,500.00
12.00	12.60	13.23	13.89	14.58
52.20	62.18	71.24	81.05	91.64
	15,000.00 435,000.00 12.00	450,000.00 510,000.00 15,000.00 16,500.00 435,000.00 493,500.00 12.00 12.60	450,000.00 510,000.00 556,500.00 15,000.00 16,500.00 18,000.00 435,000.00 493,500.00 538,500.00 12.00 12.60 13.23	450,000.00 510,000.00 556,500.00 603,000.00 15,000.00 16,500.00 18,000.00 19,500.00 435,000.00 493,500.00 538,500.00 583,500.00 12.00 12.60 13.23 13.89

COMPUTATION OF CLOSING STOCK & WORKING CAPITAL

	1				
PARTICULARS	I	II	Ш	IV	٧
Finished Goods					
(10 Days requirement)	1.45	1.58	1.76	1.96	2.17
Raw Material					
(10 Days requirement)	0.87	1.01	1.15	1.31	1.47
Closing Stock	2.32	2.58	2.91	3.26	3.64

COMPUTATION OF WORKING CAPITAL REQUIREMENT

Particulars	Amount	Margin(10%)	Net
			Amount
Stock in Hand	2.32		
Less:			
Sundry Creditors	0.43		
Paid Stock	1.88	0.19	1.69
Sundry Debtors	2.61	0.26	2.35
Working Capital Requi	irement		4.04
Margin			0.45
MPBF		·	4.04
Working Capital Demand			4.00

BREAK UP OF LABOUR

Particulars	Wages	No of	Total
	Per Month	Employees	Salary
Plant Operator	15,000.00	1	15,000.00
Skilled Worker	12,500.00	2	25,000.00
Unskilled Worker	7,500.00	4	30,000.00
Helper	5,000.00	2	10,000.00
Security Guard	7,500.00	1	7,500.00
			87,500.00
Add: 10% Fringe Benefit			8,750.00
Total Labour Cost Per Month			96,250.00
Total Labour Cost for the year (In Rs. Lakhs)		10	11.55

BREAK UP OF SALARY

Particulars	Salary	No of	Total
	Per Month	Employees	Salary
Accountant cum store keeper	10,000.00	1	10,000.00
Administrative Staffs	12,500.00	2	25,000.00
Total Salary Per Month			35,000.00
Add: 10% Fringe Benefit			3,500.00
Total Salary for the month			38,500.00
Total Salary for the year (In Rs. Lakhs)		3	4.62

COMPUTATION OF DEPRECIATION

			Plant &		
Description	Land	Building/shed	Machinery	Furniture	TOTAL
			,		
Data of Donnaciation			45.000/	40.000/	
Rate of Depreciation	0	<u> </u> vn/Rented	15.00%	10.00%	
Opening Balance	Ov	vn/Rentea	-	-	-
Addition	-		15.50	1.17	16.67
	-		15.50	1.17	16.67
TOTAL		-	15.50	1.17	16.67
Less : Depreciation	-	-	2.33	0.12	2.44
WDV at end of 1st year	-	-	13.18	1.05	14.23
Additions During The Year	=	-	-	-	-
	-	-	13.18	1.05	14.23
Less : Depreciation	-	-	1.98	0.11	2.08
WDV at end of IInd Year	-	-	11.20	0.95	12.15
Additions During The Year	-	-	-	-	-
	-	-	11.20	0.95	12.15
Less : Depreciation	-	-	1.68	0.09	1.77
WDV at end of IIIrd year	-	-	9.52	0.85	10.37
Additions During The Year	-	-	-	-	-
	-	-	9.52	0.85	10.37
Less : Depreciation	-	-	1.43	0.09	1.51
WDV at end of IV year	-	-	8.09	0.77	8.86
Additions During The Year	-	-	-	-	-
	-	-	8.09	0.77	8.86
Less : Depreciation			1.21	0.08	1.29
WDV at end of Vth year	-	-	6.88	0.69	7.57

11.0%

Year	Particulars	Amount	Addition	Total	Interest	Repayment	CI Balance
	Opening Balance						
	Ist Quarter	-	15.00	15.00	0.41	-	15.00
	lind Quarter	15.00	-	15.00	0.41	-	15.00
	IIIrd Quarter	15.00	-	15.00	0.41	0.83	14.17
	Ivth Quarter	14.17	-	14.17	0.39	0.83	13.34
					1.63	1.67	
I	Opening Balance						
	Ist Quarter	13.34	-	13.34	0.37	0.83	12.50
	lind Quarter	12.50	-	12.50	0.34	0.83	11.67
	IIIrd Quarter	11.67	-	11.67	0.32	0.83	10.84
	Ivth Quarter	10.84		10.84	0.30	0.83	10.00
					1.33	3.33	
Ш	Opening Balance						
	Ist Quarter	10.00	-	10.00	0.28	0.83	9.17
	lind Quarter	9.17	-	9.17	0.25	0.83	8.34
	IIIrd Quarter	8.34	-	8.34	0.23	0.83	7.50
	lvth Quarter	7.50		7.50	0.21	0.83	6.67
					0.96	3.33	
V	Opening Balance						
	Ist Quarter	6.67	-	6.67	0.18	0.83	5.83
	lind Quarter	5.83	-	5.83	0.16	0.83	5.00
	IIIrd Quarter	5.00	-	5.00	0.14	0.83	4.17
	lvth Quarter	4.17		4.17	0.11	0.83	3.33
					0.60	3.33	
V	Opening Balance						
	lot Ouerter	2.22		2 22	0.00	0.00	0.50
	Ist Quarter	3.33	-	3.33	0.09	0.83	2.50
	lind Quarter	2.50	-	2.50	0.07	0.83	1.67
	IIIrd Quarter	1.67	-	1.67	0.05	0.83	0.83
	Ivth Quarter	0.83		0.83	0.02	0.83	- 0.00
					0.23	3.33	

Door to Door Period60MonthsMoratorium Period6MonthsRepayment Period54Months

CALCULATION OF D.S.C.R

PARTICULARS	I	II	III	IV	V
CASH ACCRUALS	3.35	5.69	8.00	10.92	12.93
Interest on Term Loan	1.63	1.33	0.96	0.60	0.23
Total	4.98	7.02	8.96	11.52	13.16
REPAYMENT					
Repayment of Term Loan	1.67	3.33	3.33	3.33	3.33
Interest on Term Loan	1.63	1.33	0.96	0.60	0.23
Total	3.29	4.66	4.30	3.93	3.56
DEBT SERVICE COVERAGE RATIO	1.51	1.51	2.09	2.93	3.69
AVERAGE D.S.C.R.			2.31		

COMPUTATION OF ELECTRICITY

COMPUTATION OF EL		-		
(A) POWER CONNECT	<u>ION</u>			
Total Working Hour per	Total Working Hour per day		8	
Electric Load Required		HP	40	
Load Factor			0.7460	
Electricity Charges		per unit	7.50	
Total Working Days			300	
Electricity Charges				5.37
Add: Minimim Charges	(@ 10%)			
(B) DG set				
No. of Working Days			300	days
No of Working Hours			0.5	Hour per
				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%	<u> </u>		0.12	
Total			0.90	
Total cost of Power & Fu	l uel at 100%			6.27
Year		Capacity		Amount
				(in Lacs)
		50%		3.13
II.		55%		3.45
III		60%		3.76
IV		65%		4.07
V		70%		4.39



DISCLAIMER

The views expressed in this Project Report are advisory in nature. SAMADHAN assume no financial liability to anyone using the content for any purpose. All the materials and content contained in Project report is for educational purpose and reflect the views of the industry which are drawn from various research material sources from internet, experts, suppliers and various other sources. The actual cost of the project or industry will have to be taken on case to case basis considering specific requirement of the project, capacity and type of plant and other specific factors/cost directly related to the implementation of project. It is intended for general guidance only and must not be considered a substitute for a competent legal advice provided by a licensed industry professional. SAMADHAN hereby disclaims any and all liability to any party for any direct, indirect, implied, punitive, special, incidental or other consequential damages arising directly or indirectly from any use of the Project Report Content, which is provided as is, and without warranties.