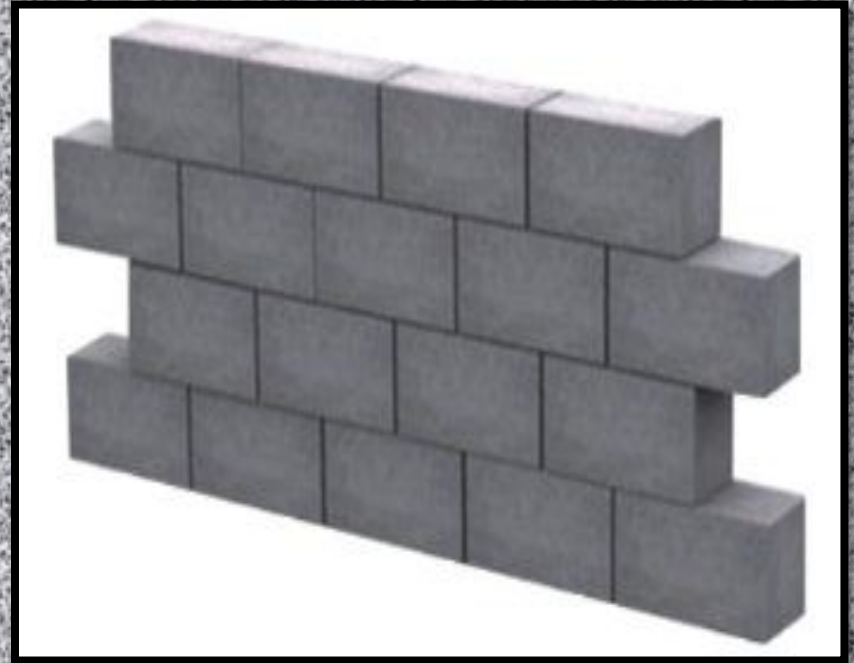


# How to Start AAC Plant –

## AAC Block Making Business Ideas



# Introduction

Autoclaved Aerated Concrete (AAC) is a non-combustible, lime-based, cementitious building material that is expanding into new worldwide markets. As a single-component building material, AAC has achieved acceptance in new markets throughout the world.

AAC Block



This is a light- weight building material produced by autoclaving a set mix of fine siliceous materials such as ground sand or fly ash and a binder like Portland cement or lime.

Autoclaved Aerated Concrete (AAC) products are 4 times lighter in weight than ordinary concrete. Its characteristic structure comprising millions of tiny pores, it offers optimum solidity at low weight.

As air has a low heat conductivity, aerated concrete provides for excellent thermal protection. It protects from cold and heat, allowing for single-shell constructions which provide more space, save time and reduce costs-aspects which are of considerable importance to property developers.



# **Advantages of Autoclaved Aerated Concrete Blocks:**

High strength to weight ratio, Low thermal conductivity, Stability to variations in temperature and humidity, and resistance to fire.

AAC products are equally suitable for residential construction, multistory buildings, commercial, and industrial construction. The products are made of natural materials: sand, lime, and water.



“The autoclaved aerated concrete sector of the construction industry is now in the phase of a tremendous growth cycle. The autoclaved aerated concrete industry must utilize competitive techniques as customers are looking for lowered costs.



AAC is not a new building system but it is new to India. Autoclaved aerated concrete (“AAC”), though relatively unknown in India, is currently one of the many building products being touted as “green” or “environmentally friendly.” Thus, due to demand it is a good project for entrepreneurs to invest.



# PROJECT AT A GLANCE

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	255.00	255.00	Capital	0.00	353.84	353.84
Buildings	0.00	309.95	309.95	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	601.11	601.11	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	25.00	25.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	45.00	45.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	50.00	50.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	1061.51	1061.51
Preliminary& Pre-operative Exp	0.00	5.00	5.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	60.00	60.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	64.29	64.29				
<b>TOTAL</b>	<b>0.00</b>	<b>1415.35</b>	<b>1415.35</b>	<b>TOTAL</b>	<b>0.00</b>	<b>1415.35</b>	<b>1415.35</b>

# PROJECT AT A GLANCE

Year	Annualised		Book Value	Debt	Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/ Book Value
	EPS	CEPS	Per Share		Per Share	Per Share				No.of Times	
	Rs	Rs	Rs	Rs	Rs	%	Rs	%	Rs		%
1-2	5.16	9.17	15.16	24.00	0.00	100.00	5.16	0.00	5.16	1.00	0.00
2-3	7.76	11.24	22.93	18.00	0.00	100.00	7.76	0.00	7.76	1.00	0.00
3-4	10.37	13.39	33.29	12.00	0.00	100.00	10.37	0.00	10.37	1.00	0.00
4-5	12.93	15.56	46.23	6.00	0.00	100.00	12.93	0.00	12.93	1.00	0.00
5-6	15.44	17.73	61.66	0.00	0.00	100.00	15.44	0.00	15.44	1.00	0.00

# PROJECT AT A GLANCE

Year	D. S. C. R.			Debt / - Deposits Debt	Equity as- Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contrib ution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%	%			
Initial				3.00	3.00									
1-2	1.34	1.34		1.58	1.58	2.22		14.82%	8.44%	6.15%	1039.95	35.02%	1.77	0.93
2-3	1.61	1.47		0.79	0.79	1.27		16.89%	11.88%	7.93%	1212.37	34.99%	1.93	1.25
3-4	1.94	1.61	1.94	0.36	0.36	0.74		18.29%	14.34%	9.26%	1385.55	34.99%	1.97	1.63
4-5	2.33	1.77		0.13	0.13	0.43		19.27%	16.13%	10.27%	1558.72	34.99%	1.92	2.05
5-6	2.82	1.94		0.00	0.00	0.25		19.95%	17.44%	11.03%	1731.89	34.99%	1.83	3.49

# PROJECT AT A GLANCE

## BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	45.46%
Total BEP (% of Installed Capacity)	50.15%

## IRR, PAYBACK and FACR

Internal Rate of Return .. ( In %age )	25.10%
Payback Period of the Project is ( In Years )	2 Years 6 Months
Fixed Assets Coverage Ratio ( No. of times )	6.047

# Table of Contents of the Project Report

# **1. City Profile And Geotechnical Site Characterization**

**1.1. General**

**1.2. Physical Characteristics**

**1.3. Climate And Rainfall**

**1.4. Economy And Industry**

**1.5. Transportation And**

**Communications**

**1.6. Map**



## **2. Introduction**

**2.1. Features:**

**2.2. Raw Material:**

## **3. Uses And Applications**

**3.1. Advantages Of Autoclaved Aerated Concrete Blocks**

**3.2. Product Sizes And Shapes**

**3.3. Construction Applications**

## **4. Properties**

**4.1. Density And Compressive Strength**

**4.2. Thermal Insulation**

**4.3. Fire Resistance**

**4.4. Acoustic Performance**

**4.5. Comparison Of Aac Blocks With Clay Bricks**

**4.6. Comparative Properties Among Various Products**

## **5. Product Range**



## **6. Product Specification**

**6.1. General Specification Of Aerated Concrete Block:**

**6.2. Typical Product Characteristics:**

## **7. Market Survey**

**7.1. Overview Of Indian Cement Industry**

**7.2. Cement**

**7.3. Market Structure**

- 7.4. Market Brands**
- 7.5. White Cement**
- 7.6. Leading Brands**
- 7.7. Market Structure**

## **8. Financials & Comparison Of Major Indian Players/Companies**

- 8.1. About Financial Statements Of Cmie Database**
- 8.2. Profits & Appropriations**
- 8.3. Total Liabilities**

## 8.4. Total Assets

## 8.5. Net Cash Flow From Operating Activities

## 8.6. Section – I

8.6.1. Name Of Company With Contact Details

8.6.2. Name Of Director(s)

8.6.3. Plant Capacity

8.6.4. Location Of Plant

8.6.5. Name Of Raw Material(s) Consumed With  
Quantity & Cost

## 8.7. SECTION – II

- 8.7.1. Assets
- 8.7.2. Cash Flow
- 8.7.3. Cost as % ge of Sales
- 8.7.4. Forex Transaction
- 8.7.5. Growth in Assets & Liabilities
- 8.7.6. Growth in Income & Expenditure
- 8.7.7. Income & Expenditure
- 8.7.8. Liabilities
- 8.7.9. Liquidity Ratios
- 8.7.10. Profitability Ratio
- 8.7.11. Profits
- 8.7.12. Return Ratios



# **9. Export & Import Statistics Data Of India**

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**9.2. Import Statistics Data For Aac Block**

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# **11. Raw Material Details**

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## 12.1. Present Scenario On Fly Ash In India

# 13. Raw Material Chemical Composition

# 14. Technological Parameters

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## **15.1. Detailed Schematic Diagram Of The Production Process**

# **16. Process Flow Diagram**

# **17. Suppliers Of Raw Materials**

# **18. Suppliers Of Plant & Machinery**

# 19. Plant Layout

## 20. Products & Machinery Photographs

20.1. Autoclaved Aerated Concrete

20.2. Machinery Photographs

## 21. Quotation Of Plant, Machinery And Equipments From Supplier



# Project Financials

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• Production Schedule.....	3
• Land & Building.....	4
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<b>Site Development Expenses</b>	

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  - Consumable Store**



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  - **Net Cash Accruals**

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- **Current Liabilities**
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- **RONW (Average of Share Capital)**
- **ROI (Average of Total Assets)**

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- **Annexure 30 :: Depreciation Charges – as per Books (P & M)**
- **Annexure 31 :: Depreciation Charges - as per IT Act WDV (Total)**
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- **Annexure 34 :: Tax on Profits**
- **Annexure 35 :: Projected Pay-Back Period and IRR**

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- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*



# What do we offer?

- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Market Research Reports*
- *Technology Books and Directory*
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- *Laboratory Testing Services*
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- *We have two decades long experience in project consultancy and market research field*
- *We empower our customers with the prerequisite know-how to take sound business decisions*
- *We help catalyze business growth by providing distinctive and profound market analysis*
- *We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors*
- *We use authentic & reliable sources to ensure business precision*



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**Requirement collection**

**Thorough analysis of the project**

**Economic feasibility study of the Project**

**Market potential survey/research**

**Report Compilation**

# Who do we serve?

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# Sectors We Cover

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- *Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin*
- *Activated Carbon & Activated Charcoal*
- *Aluminium And Aluminium Extrusion Profiles & Sections,*
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- *Building Materials And Construction Projects*
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- *Leather And Leather Based Projects*
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- *Medical Plastics, Disposables Plastic Syringe, Blood Bags*
- *Organic Farming, Neem Products Etc.*



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- *Printing Inks*
- *Packaging Based Projects*
- *Perfumes, Cosmetics And Flavours*
- *Power Generation Based Projects & Renewable Energy Based Projects*
- *Pharmaceuticals And Drugs*
- *Plantations, Farming And Cultivations*
- *Plastic Film, Plastic Waste And Plastic Compounds*
- *Plastic, PVC, PET, HDPE, LDPE Etc.*



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- *Soaps And Detergents*
- *Stationary Products*
- *Spices And Snacks Food*
- *Steel & Steel Products*
- *Textile Auxiliary And Chemicals*



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- *Wood & Wood Products*
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# Contact us

## **NIIR PROJECT CONSULTANCY SERVICES**

**106-E, Kamla Nagar, New Delhi-110007, India.**

**Email: [npcs.ei@gmail.com](mailto:npcs.ei@gmail.com) , [info@entrepreneurindia.co](mailto:info@entrepreneurindia.co)**

**Tel: +91-11-23843955, 23845654, 23845886**

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