

Cement Manufacturing Plant

Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule, Working Capital Requirement, Plant Layout, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis

Introduction

Cement is a material with adhesive and cohesive properties which make it capable of bonding minerals fragments into a compact whole. It can be defined as any substance, which can join unite two or more pieces of some other substance together to form a unit mass. It is an inorganic, non-metallic substance with hydraulic binding properties, and is used as a bonding agent in building materials.

It is a fine powder, usually gray in color that consists of a mixture of the hydraulic cement minerals to which one or more forms of calcium sulfate have been added. Mixed with water it forms a paste, which hardens due to formation of cement mineral hydrates. Cement is the binding agent in concrete, which is a combination of cement, mineral aggregates and water. Concrete is a key building material for a variety of applications.

Cement, as used in construction industries, which when mixed with water and allowed to set and harden can join different components or members together to give a mechanically strong structure. Thus cement can be used as bonding material for bricks or for bonding solid particles of different sizes (rubber masonry) to form a monolith. The most common use for cement is in the production of concrete.

Concrete is a composite material consisting of aggregate (gravel and sand), cement, and water. As a construction material, concrete can be cast in almost any shape desired, and once hardened, can become a structural (load bearing) element.

Indian cement industry, a leading manufacturing sub-sector in India, entered a new era after the partial decontrol in 1982 and near total free market in 1989,

ahead of the dawn of the liberalisation era in the country. The industry was totally delicensed in 1991 under the Industries Development and Regulation Act. India is the second largest producer of cement in the world after China. It is followed by Japan and the USA. As a whole it is a good project for entrepreneurs to invest.

Few Indian Major Players are as under

- **A C C Ltd.**
- **Adani Cements Ltd.**
- **Ambuja Cement Eastern Ltd.**
- **Ambuja Cement Rajasthan Ltd.**
- **Ambuja Cements Ltd.**
- **Bharathi Cement Corpn. Pvt. Ltd.**
- **Bhilai Jaypee Cement Ltd.**
- **Birla Corporation Ltd.**
- **Burnpur Cement Ltd.**
- **Calcom Cement India Ltd.**
- **Cement Corpn. Of India Ltd.**

- **D L F Cement Ltd.**
- **Eswar Cements Pvt. Ltd.**
- **Garden Cements Ltd.**
- **Gujarat High Tech Inds. Ltd.**
- **High-Tech Lime Products Ltd.**
- **I P I-S P Cement Co. Ltd.**
- **India Cements Ltd.**
- **J K Lakshmi Cement Ltd.**
- **Jagadamba Cements Ltd.**
- **Jaipur Udyog Ltd.**
- **Makers Development Services Pvt. Ltd.**
- **Malabar Cements Ltd.**

- **Megha Technical & Engineers Pvt. Ltd.**
- **Meghalaya Cement Ltd.**
- **N C L Industries Ltd.**
- **Namo Cements Ltd.**
- **Prism Cement Ltd.**
- **Raasi Cement Ltd.**
- **Radhakishan Cement Ltd.**
- **Rain Cements Ltd.**
- **Samruddhi Cement Ltd.**
- **Sanghi Industries Ltd.**
- **Shree Digvijay Cement Co. Ltd.**

- **Someswara Cements & Chemicals Ltd.**
- **Sorabh Cement Ltd.**
- **Trinetra Cement Ltd.**
- **Ultratech Cement Ltd.**
- **Uttar Pradesh State Cement Corpn. Ltd.**
- **Varun Cements Ltd.**
- **Visaka Cement Industry Ltd.**
- **Vishwakarma Cements Ltd.**
- **Zuari Cement Ltd.**

Project at a Glance

PROJECT AT A GLANCE				(Rs. in lacs)			
COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	50.00	50.00	Capital	0.00	313.61	313.61
Buildings	0.00	135.80	135.80	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	755.00	755.00	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	15.00	15.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	105.00	105.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	30.00	30.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	940.83	940.83
Preliminary& Pre-operative Exp	0.00	5.00	5.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	72.00	72.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	86.64	86.64				
TOTAL	0.00	1254.44	1254.44	TOTAL	0.00	1254.44	1254.44

Project at a Glance

Year	Annualised		Book Value	Debt	Dividen d	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	2.29	7.19	12.29	24.00	0.00	100.00	2.29	0.00	2.29	1.00	0.00
2-3	4.60	8.81	16.89	18.00	0.00	100.00	4.60	0.00	4.60	1.00	0.00
3-4	6.92	10.55	23.81	12.00	0.00	100.00	6.92	0.00	6.92	1.00	0.00
4-5	9.21	12.34	33.02	6.00	0.00	100.00	9.21	0.00	9.21	1.00	0.00
5-6	11.45	14.15	44.46	0.00	0.00	100.00	11.45	0.00	11.45	1.00	0.00



Project at a Glance

Year	D. S. C. R.			Debt / - Deposit s Debt	Equity as- Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnove r Ratio	Curren t Ratio
	Individ ual	Cumulati ve	Overall					GPM	PBT	PAT	Net Contri bution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%		%		
Initial				3.00	3.00									
1-2	1.13	1.13		1.95	1.95	2.77		9.79%	2.80%	3.07%	972.94	41.58%	1.64	0.87
2-3	1.33	1.22		1.07	1.07	1.75		12.76%	7.29%	5.28%	1063.96	38.97%	1.91	1.04
3-4	1.58	1.33	1.58	0.50	0.50	1.06		14.81%	10.50%	6.96%	1214.26	38.92%	2.06	1.28
4-5	1.88	1.45		0.18	0.18	0.63		16.24%	12.83%	8.23%	1364.56	38.88%	2.11	1.56
5-6	2.26	1.58		0.00	0.00	0.37		17.24%	14.54%	9.20%	1514.86	38.84%	2.06	2.58

Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	56.19%
Total BEP (% of Installed Capacity)	61.78%

IRR, PAYBACK and FACR

Internal Rate of Return .. (In %age)	17.22%
Payback Period of the Project is (In Years)	2 Years 6 Months
Fixed Assets Coverage Ratio (No. of times)	6.376

Major Queries/Questions Answered in the Report?

1. What is Cement Manufacturing Plant?
2. How has the Cement industry performed so far and how will it perform in the coming years ?
3. What is the Project Feasibility of Cement Plant ?
4. What are the requirements of Working Capital for setting up Cement manufacturing Plant ?
5. What is the structure of the Cement manufacturing Business and who are the key/major players ?

6. What is the total project cost for setting up Cement Industry?
7. What are the operating costs for setting up Cement Plant project ?
8. What are the machinery and equipment requirements for setting up Cement Industry ?
9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Cement Plant?
10. What are the requirements of raw material for setting up Cement manufacturing Industry ?

- 11. Who are the Suppliers of Raw materials for Cement Plant project ?**
- 12. What is the Manufacturing Process and Formulations of Cement Plant Project ?**
- 13. What is the total size of land required for setting up Cement Plant Project ?**
- 14. What will be the income and expenditures for Cement manufacturing Plant?**
- 15. What are the Projected Balance Sheets of Cement manufacturing Plant?**

- 16. What are the requirement of utilities and overheads for setting up Cement Industry?**
- 17. What is the Built up Area Requirement and cost for setting up Cement Plant Project?**
- 18. What are the Personnel (Manpower) Requirements for setting up Cement Industry ?**
- 19. What are Statistics of Import & Export for Cement manufacturing Plant?**
- 20. What is the time required to break-even?**

- 21. What is the Break-Even Analysis of Cement manufacturing Plant?**
- 22. What are the Project financials of Cement Plant?**
- 23. What are the Profitability Ratios of Cement manufacturing plant?**
- 24. What is the Sensitivity Analysis-Price/Volume of Cement manufacturing Plant?**
- 25. What are the Projected Pay-Back Period and IRR of Cement manufacturing Plant?**

26. What is the Process Flow Sheet Diagram of Cement manufacturing Plant?

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Who are we?

- *One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services*
- *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?

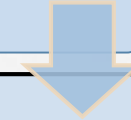
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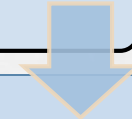
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- *We empower our customers with the prerequisite know-how to take sound business decisions*
- *We help catalyze business growth by providing distinctive and profound market analysis*
- *We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors*
- *We use authentic & reliable sources to ensure business precision*

Our Approach

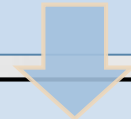
Requirement collection



Thorough analysis of the project



Economic feasibility study of the Project



Market potential survey/research



Report Compilation

Who do we serve?

- *Public-sector Companies*
- *Corporates*
- *Government Undertakings*
- *Individual Entrepreneurs*
- *NRI's*
- *Foreign Investors*
- *Non-profit Organizations, NBFC's*
- *Educational Institutions*
- *Embassies & Consulates*
- *Consultancies*
- *Industry / trade associations*

Sectors We Cover

- *Ayurvedic And Herbal Medicines, Herbal Cosmetics*
- *Alcoholic And Non Alcoholic Beverages, Drinks*
- *Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin*
- *Activated Carbon & Activated Charcoal*
- *Aluminium And Aluminium Extrusion Profiles & Sections,*
- *Bio-fertilizers And Biotechnology*
- *Breakfast Snacks And Cereal Food*
- *Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling*

Sectors We Cover *Cont...*

- *Bamboo And Cane Based Projects*
- *Building Materials And Construction Projects*
- *Biodegradable & Bioplastic Based Projects*
- *Chemicals (Organic And Inorganic)*
- *Confectionery, Bakery/Baking And Other Food*
- *Cereal Processing*
- *Coconut And Coconut Based Products*
- *Cold Storage For Fruits & Vegetables*
- *Coal & Coal Byproduct*

Sectors We Cover *Cont...*

- *Copper & Copper Based Projects*
- *Dairy/Milk Processing*
- *Disinfectants, Pesticides, Insecticides, Mosquito Repellents,*
- *Electrical, Electronic And Computer based Projects*
- *Essential Oils, Oils & Fats And Allied*
- *Engineering Goods*
- *Fibre Glass & Float Glass*
- *Fast Moving Consumer Goods*
- *Food, Bakery, Agro Processing*

Sectors We Cover *Cont...*

- *Fruits & Vegetables Processing*
- *Ferro Alloys Based Projects*
- *Fertilizers & Biofertilizers*
- *Ginger & Ginger Based Projects*
- *Herbs And Medicinal Cultivation And Jatropha (Biofuel)*
- *Hotel & Hospitality Projects*
- *Hospital Based Projects*
- *Herbal Based Projects*
- *Inks, Stationery And Export Industries*

Sectors We Cover *Cont...*

- *Infrastructure Projects*
- *Jute & Jute Based Products*
- *Leather And Leather Based Projects*
- *Leisure & Entertainment Based Projects*
- *Livestock Farming Of Birds & Animals*
- *Minerals And Minerals*
- *Maize Processing(Wet Milling) & Maize Based Projects*
- *Medical Plastics, Disposables Plastic Syringe, Blood Bags*
- *Organic Farming, Neem Products Etc.*

Sectors We Cover *Cont...*

- *Paints, Pigments, Varnish & Lacquer*
- *Paper And Paper Board, Paper Recycling Projects*
- *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.*

Sectors We Cover *Cont...*

- *Potato And Potato Based Projects*
- *Printing And Packaging*
- *Real Estate, Leisure And Hospitality*
- *Rubber And Rubber Products*
- *Soaps And Detergents*
- *Stationary Products*
- *Spices And Snacks Food*
- *Steel & Steel Products*
- *Textile Auxiliary And Chemicals*

Sectors We Cover *Cont...*

- *Township & Residential Complex*
- *Textiles And Readymade Garments*
- *Waste Management & Recycling*
- *Wood & Wood Products*
- *Water Industry(Packaged Drinking Water & Mineral Water)*
- *Wire & Cable*

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