



Ground Calcium Carbonate (GCC) Manufacturing Business.

**Production of Ground Calcium
Carbonate**

**with 90% Brightness and Whiteness
and > 90% CaCO₃**

Introduction

Calcium carbonate is one of the most abundantly occurring minerals on earth and composes nearly four percent of earth's crust. It exists naturally in the form of limestone, marbles and chalk formed by sedimentation over a period of time. It is one of the most versatile compounds and finds a variety of applications across a diverse set of industries including construction, steel, and agrochemicals among others.



Advantages of Ground Calcium Carbonate

- **GCC is cheaper and it has high brightness.**
- **GCC creates a porous surface on the paper sheet due to its rhombohedral particle shape.**
- **GCC is hydrophobic as a result it is liberate water more rapidly.**
- **Improve printability**
- **Lower binder demand**



Uses

Calcium carbonate, as it is used for industrial purposes, is extracted by mining or quarrying. Pure calcium carbonate can be produced from marble. The primary type of industrial product is "ground calcium carbonate," or GCC. GCC, as the name implies, involves crushing and processing limestone to create a powdery-like form graded by size and other properties for many different industrial and pharmaceutical applications.



- **Paper, Plastics, Paints, and Coatings**

Calcium carbonate is the most widely used mineral in the paper, plastics, paints and coatings industries both as a filler – and due to its special white color - as a coating pigment. In the paper industry it is valued worldwide for its high brightness and light scattering characteristics, and is used as an inexpensive filler to make bright opaque paper.

- **Personal Health and Food Production**

Calcium carbonate is used widely as an effective dietary calcium supplement, antacid, phosphate binder, or base material for medicinal tablets. It also is found on many grocery store shelves in products such as baking powder, toothpaste, dry-mix dessert mixes, dough, and wine. Calcium carbonate is the active ingredient in agricultural lime, and is used in animal feed. Calcium carbonate also benefits the environment through water and waste treatment.

- **Building Materials and Construction**

Calcium carbonate is used in industrial settings to neutralize acidic conditions in both soil and water. Calcium carbonate crystals are referred to as calcite. The calcite crystal generally is considered a rhombohedron because of its cleavage properties. Cleavage is what causes crystals to angle where the bonding forces are weak and are apt to break into planes. Calcite is unique in that its cleavage takes three distinct directions.

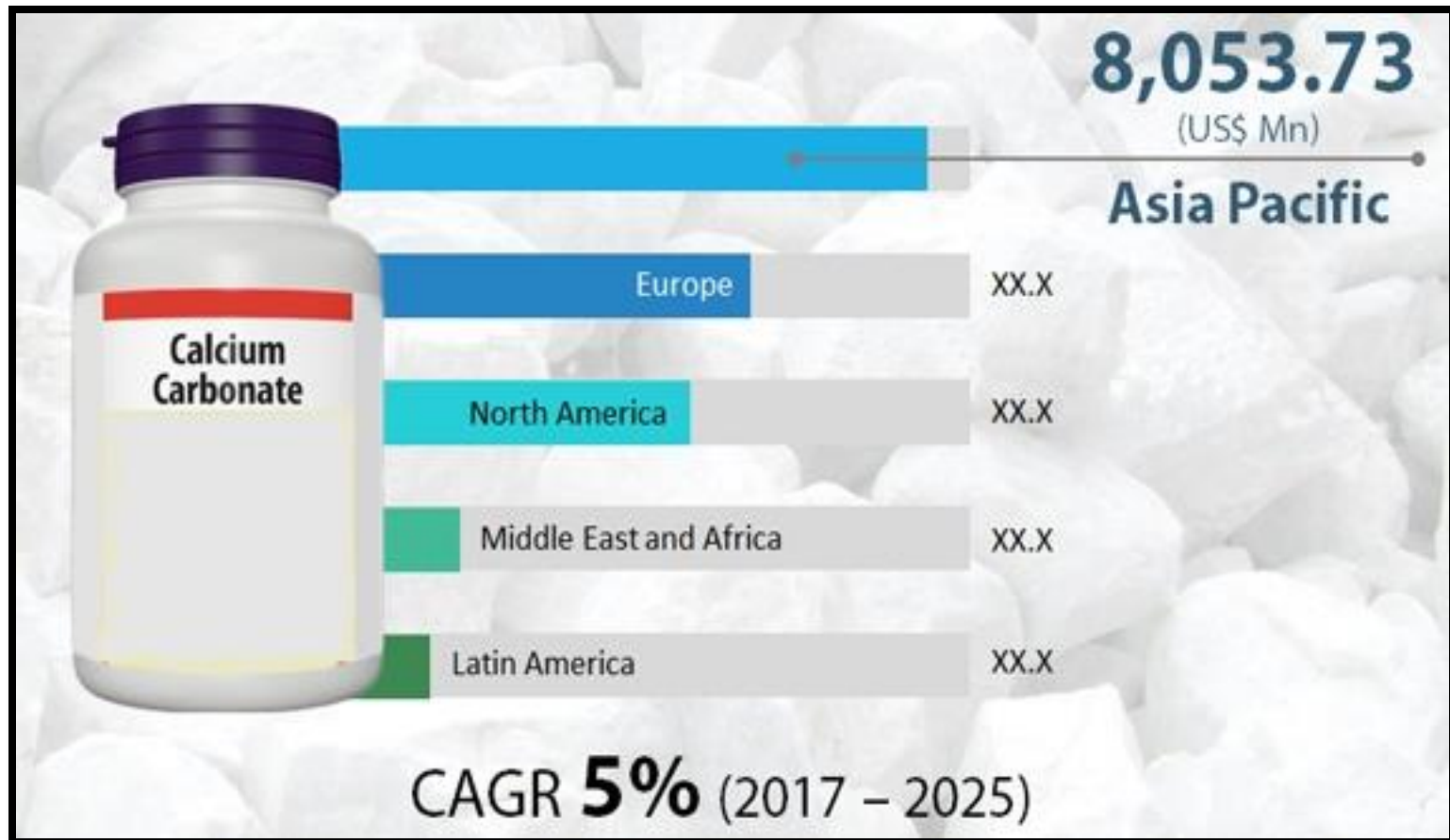


Market Outlook

On the basis of detailed analysis in the report the growth of every one of those ventures, and a few others, will keep on surging the demand in the global calcium carbonate market at a considerable CAGR of 5.0% during the forecast period from 2017 to 2025. As per the research, the global calcium carbonate market is foreseen to reach around worth of US\$22,311.06 mn before 2025, considerably more the end of 2025, from the market's assessed valuation of US\$15,158.33 mn back in 2017.



Global Calcium Carbonate Revenue, By Region, 2017 (US\$ Mn)



The surge in requirement for paints and coatings on the back of thriving construction and building industry, augmented demand in the paper business, developing utilization of nano-calcium carbonate in the pharmaceutical and rubber enterprises are boosting the growth in global calcium carbonate market. Moreover, government activities for the development of the plastics industry in the Middle East are among the major factors fueling the demand in the global calcium carbonate market. Then again, environmental concerns of mining limestone and negative impacts of utilizing calcium carbonate in dietary supplements are a couple of limitations testing the market for the same.



APAC is expected to be the major revenue contributor to the ground calcium carbonate market throughout the forecast period. The region is witnessing an increased demand for ground calcium carbonate from the fillers market due to innovations in terms of product and quality development. The market in this region is also driven by the growth of the paints and coatings, industrial, and packaging industries.

The increasing demand from packaging and tissue paper application is identified as one of the primary growth factors for this market. The demand for ground calcium carbonate in packaging and tissue paper application is rapidly gaining prominence. Ground calcium carbonate is used in this segment as it creates a porous base on the sheet of paper, due to its rhombohedral particle shape. Moreover, the ground calcium carbonate is hydrophobic and it releases water rapidly.

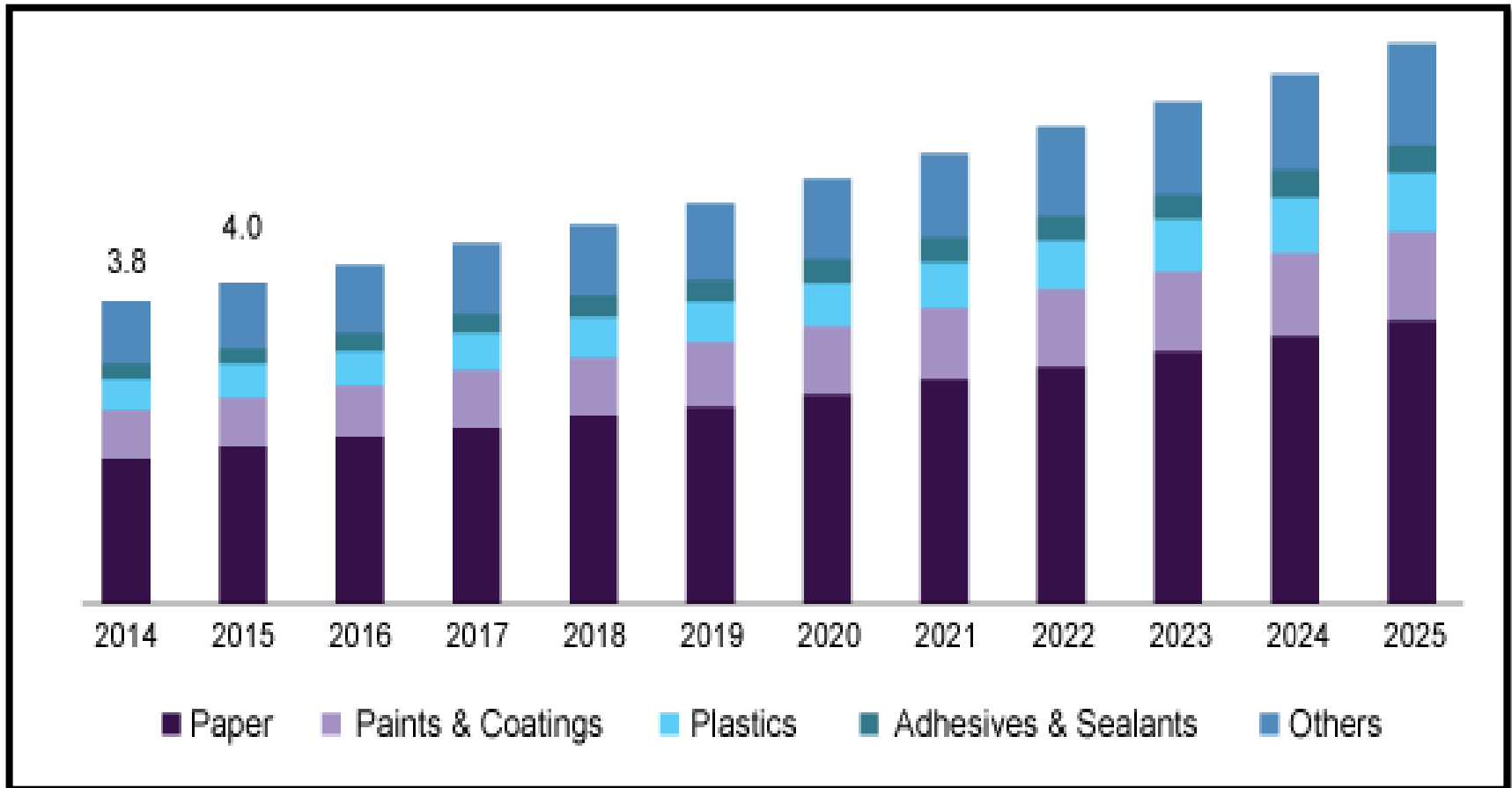
Also, the tissue paper market is constantly growing with the rise in number of quick service restaurant (QSR), food and beverages (F&B) chains, and other associated outlets. These facilities prefer disposable napkins and paper towels since they do not require washing and eliminate the need for labor and are more hygienic when compared to their conventional cloth counterparts. This will in turn, propel the demand for ground calcium carbonate in the coming years.

In terms of market volume, global ground and precipitated calcium carbonate market is expected to witness a steady growth, registering a moderate single digit growth compounded annual rate during the forecast period. This forecast growth in consumption of ground and precipitated calcium carbonate is expected to primarily be attributed to steady growth in demand from end use industries based in Asia Pacific region.

Thus, steady growth of construction sector coupled with forecast steady growth of global automotive production is expected to positively impact the consumption of ground and precipitated calcium carbonate across end use industries. Moreover, steady growth in demand from plastics and rubber industries is expected to propel the global ground and precipitated calcium carbonate market over the forecast period.



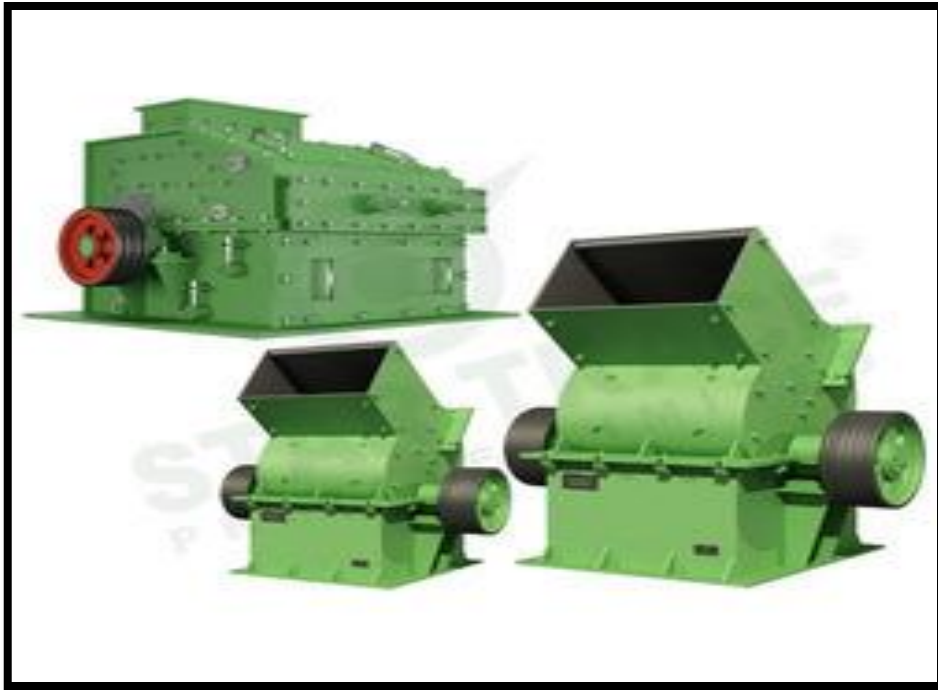
U.S. Calcium Carbonate Market, By Application, 2014-2025 (USD Billion)



However, relatively sluggish to slow growth of paper industry, major ground and precipitated calcium carbonate consuming industry, across key markets such as Europe and North America is likely to act as an impediment to growth of global ground and precipitated calcium carbonate market during the forecast period. Also, relatively slower economic growth is expected to restrain the growth of the market in the initial phase of the forecast period.



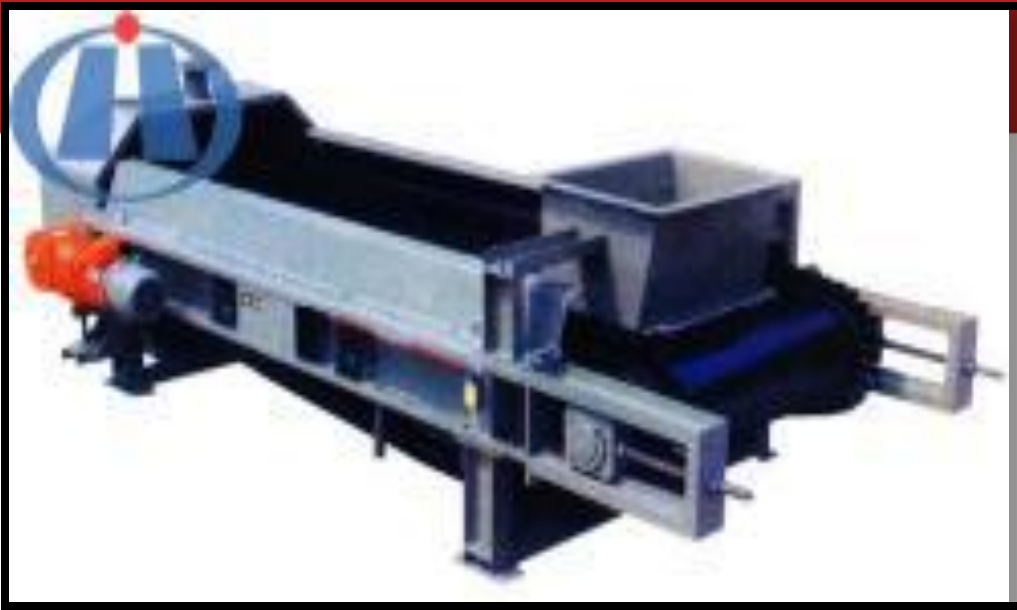
Machinery Photographs



Hammer Crusher



Elevator



Belt Weigher



Vibrating Feeder

Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existin g	Propose d	Total	Particulars	Existin g	Propose d	Total
Land & Site							
Development Exp.	0.00	150.00	150.00	Capital	0.00	343.30	343.30
Buildings	0.00	618.00	618.00	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	279.20	279.20	Capital	0.00	0.00	0.00
Motor Vehicles	0.00	20.00	20.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation							
Equipments	0.00	147.00	147.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow				Internal Cash			
Fees & Exp.	0.00	40.00	40.00	Accruals	0.00	0.00	0.00
Franchise & Other				Long/Medium Term			1029.9
Deposits	0.00	0.00	0.00	Borrowings	0.00	1029.91	1
Preliminary& Pre- operative Exp	0.00	5.00	5.00	Debentures / Bonds	0.00	0.00	0.00
Provision for				Unsecured			
Contingencies	0.00	36.00	36.00	Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	78.02	78.02				
TOTAL	0.00	1373.22	1373.22	TOTAL	0.00	1373.22	1373.2
							2

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				
1-2	5.22	9.01	15.22	24.00	0.00	100.00	5.22	0.00	5.22	1.00	0.00
2-3	8.41	11.76	23.63	18.00	0.00	100.00	8.41	0.00	8.41	1.00	0.00
3-4	11.50	14.46	35.13	12.00	0.00	100.00	11.50	0.00	11.50	1.00	0.00
4-5	14.46	17.09	49.59	6.00	0.00	100.00	14.46	0.00	14.46	1.00	0.00
5-6	17.27	19.60	66.86	0.00	0.00	100.00	17.27	0.00	17.27	1.00	0.00



Project at a Glance

Year	D. S. C. R.			Debt / - Deposits Debt	Equity as- Equity	Total Return Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contribution	P/V Ratio		
Initial	(Number of times)			(Number of times)	%	%	%	%	%	%	%			
1-2	1.32	1.32		3.00	3.00			19.98%	9.71%	6.55%	1384.14	50.59%	1.72	0.95
2-3	1.67	1.49		0.76	0.76	1.16		22.57%	13.97%	9.04%	1611.29	50.48%	1.85	1.33
3-4	2.07	1.67	2.06	0.34	0.34	0.65		24.33%	16.96%	10.82%	1841.39	50.48%	1.86	1.81
4-5	2.55	1.86		0.12	0.12	0.36		25.52%	19.07%	12.10%	2071.49	50.47%	1.79	2.37
5-6	3.11	2.06		0.00	0.00	0.20		26.30%	20.55%	13.00%	2301.59	50.47%	1.67	4.34



Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	55.78%
Total BEP (% of Installed Capacity)	59.26%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	27.43%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	5.725

Major Queries/Questions Answered in the Report?

- 1. What is Ground Calcium Carbonate Manufacturing industry ?**
- 2. How has the Ground Calcium Carbonate Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Ground Calcium Carbonate Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up Ground Calcium Carbonate Manufacturing plant ?**

- 5. What is the structure of the Ground Calcium Carbonate Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Ground Calcium Carbonate Manufacturing Business?**
- 7. What are the operating costs for setting up Ground Calcium Carbonate Manufacturing plant ?**
- 8. What are the machinery and equipment requirements for setting up Ground Calcium Carbonate Manufacturing plant ?**

9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Ground Calcium Carbonate Manufacturing plant ?

10. What are the requirements of raw material for setting up Ground Calcium Carbonate Manufacturing plant ?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up Ground Calcium Carbonate Manufacturing Business?

12. What is the Manufacturing Process of Ground Calcium Carbonate?

- 13. What is the total size of land required for setting up Ground Calcium Carbonate Manufacturing plant ?**
- 14. What will be the income and expenditures for Ground Calcium Carbonate Manufacturing Business?**
- 15. What are the Projected Balance Sheets of Ground Calcium Carbonate Manufacturing plant ?**
- 16. What are the requirement of utilities and overheads for setting up Ground Calcium Carbonate Manufacturing plant?**
- 17. What is the Built up Area Requirement and cost for setting up Ground Calcium Carbonate Manufacturing Business?**

18. What are the Personnel (Manpower) Requirements for setting up Ground Calcium Carbonate Manufacturing Business?

19. What are Statistics of Import & Export for Ground Calcium Carbonate?

20. What is the time required to break-even of Ground Calcium Carbonate Manufacturing Business?

21. What is the Break-Even Analysis of Ground Calcium Carbonate Manufacturing plant?

22. What are the Project financials of Ground Calcium Carbonate Manufacturing Business?

- 23. What are the Profitability Ratios of Ground Calcium Carbonate Manufacturing Project?**
- 24. What is the Sensitivity Analysis-Price/Volume of Ground Calcium Carbonate Manufacturing plant?**
- 25. What are the Projected Pay-Back Period and IRR of Ground Calcium Carbonate Manufacturing plant?**
- 26. What is the Process Flow Sheet Diagram of Ground Calcium Carbonate Manufacturing project?**

27. What are the Market Opportunities for setting up Ground Calcium Carbonate Manufacturing plant?

28. What is the Market Study and Assessment for setting up Ground Calcium Carbonate Manufacturing Business?

29. What is the Plant Layout for setting up Ground Calcium Carbonate Manufacturing Business?

Table of Contents of the Project Report

1. PROJECT LOCATION

- 1.1. CITY PROFILE & GEOTECHNICAL SITE CHARACTERIZATION
 - 1.1.1. General
 - 1.1.2. History
 - 1.1.3. Geography
 - 1.1.4. Demography
 - 1.1.5. Climate
 - 1.1.6. Map
 - 1.1.7. Solid Waste Management
 - 1.1.8. Topography
 - 1.1.9. Economy
 - 1.1.10. Transport

2. INTRODUCTION

3. USES AND APPLICATION

- 3.1. PAPER, PLASTICS, PAINTS, AND COATINGS
- 3.2. PERSONAL HEALTH AND FOOD PRODUCTION
- 3.3. BUILDING MATERIALS AND CONSTRUCTION

4. ADVANTAGES OF GROUND CALCIUM CARBONATE

- 4.1. AGRICULTURAL APPLICATION
- 4.2. AGRONOMY APPLICATION
- 4.3. INDUSTRIAL APPLICATIONS
- 4.4. ENVIRONMENTAL PROTECTION

5. PROPERTIES OF GROUND CALCIUM CARBONATE



- 5.1. PHYSICAL PROPERTIES
- 5.2. CHEMICAL PROPERTIES

6. PARTICLE SIZES AND USES

7. CHARACTERISTIC OF GROUND CALCIUM CARBONATE

8. B.I.S. SPECIFICATIONS

- 8.1. IS 918~CALCIUM CARBONATE, PRECIPITATED FOR COSMETIC INDUSTRY
- 8.2. IS 1760~METHODS OF CHEMICAL ANALYSIS OF LIMESTONE, DOLOMITE AND ALLIED MATERIALS
- 8.3. IS 2109~METHODS OF SAMPLING OF DOLOMITE, LIMESTONE AND OTHER ALLIED MATERIALS
- 8.4. IS 7633~CALCIUM CARBONATE FOR EXPLOSIVE AND PYROTECHNIC INDUSTRY
- 8.5. IS 8767~CALCIUM CARBONATE, PRECIPITATED AND ACTIVATED FOR PAINTS

9. MARKET SURVEY

- 9.1. CALCIUM CARBONATE
 - 9.1.1. Market Overview
 - 9.1.2. Drivers
- 9.2. GLOBAL CALCIUM CARBONATE
 - 9.2.1. Market Overview
 - 9.2.2. Market Players
 - 9.2.3. Market Dynamics
 - 9.2.4. Market Segmentation
 - 9.2.5. Regional Outlook
 - 9.2.6. Prominent Players
 - 9.2.7. Industry Insights

9.2.8. Application Insights

9.2.9. Regional Insights

10. EXPORT & IMPORT: ALL COUNTRIES

10.1. EXPORT: ALL COUNTRIES

10.2. IMPORT: ALL COUNTRIES

11. FINANCIALS & COMPARISON OF MAJOR INDIAN PLAYERS/COMPANIES

11.1. ABOUT FINANCIAL STATEMENTS OF CMIE DATABASE

11.2. PROFITS & APPROPRIATIONS

11.3. TOTAL LIABILITIES

11.4. TOTAL ASSETS

11.5. NET CASH FLOW FROM OPERATING ACTIVITIES

11.6. SECTION – I

11.6.1. Name of Company with Contact Details

11.6.2. Name of Director(S)

11.6.3. Credit Ratings

11.6.4. Plant Capacity

11.6.5. Location of Plant

11.6.6. Name of Raw Material(S) Consumed With Quantity & Cost

11.7. SECTION – II

11.7.1. Assets

11.7.2. Cash Flow

11.7.3. Cost as % Ge of Sales

11.7.4. Forex Transaction

11.7.5. Growth in Assets & Liabilities

11.7.6. Growth in Income & Expenditure

- 11.7.7. Income & Expenditure
- 11.7.8. Liabilities
- 11.7.9. Liquidity Ratios
- 11.7.10. Profitability Ratio
- 11.7.11. Profits
- 11.7.12. Return Ratios
- 11.7.13. Structure of Assets & Liabilities (%)
- 11.7.14. Working Capital & Turnover Ratios

12. COMPANY PROFILE OF MAJOR PLAYERS

13. EXPORT & IMPORT STATISTICS OF INDIA

- 13.1. EXPORT STATISTICS ON GROUND CALCIUM CARBONATE
- 13.2. IMPORT STATISTICS ON CALCIUM CARBONATE

14. PRESENT MANUFACTURERS

15. RAW MATERIAL

16. PRODUCTION AND STOCKS

17. MANUFACTURING PROCESS

18. PROCESS FLOW DIAGRAM

19. MACHINERY PARAMETERS

20. BUYER'S LIST

- 20.1. CONTACT DETAILS OF BUYER'S
- 20.2. NAME OF DIRECTOR(S)
- 20.3. PLANT CAPACITY
- 20.4. LOCATION OF PLANT
- 20.5. COMPANY WISE CONSUMPTION DETAIL OF THE RAW MATERIALS

21. SUPPLIERS OF RAW MATERIAL

22. SUPPLIERS OF PLANT & MACHINERY

23. PHOTOGRAPHS/IMAGES FOR REFERENCES

- 23.1. PRODUCT PHOTOGRAPHS
- 23.2. RAW MATERIAL PHOTOGRAPHS
- 23.3. MACHINERY PHOTOGRAPHS

24. PLANT LAYOUT

25. QUOTATION OF PLANT, MACHINERY AND EQUIPMENTS FROM SUPPLIER

Project Financials

Project at a Glance	Annexure
• Assumptions for Profitability workings	1
• Plant Economics.....	2
• Production Schedule.....	3
• Land & Building.....	4
Factory Land & Building	
Site Development Expenses	

- **Plant & Machinery.....5**
 - Indigenous Machineries**
 - Other Machineries (Miscellaneous, Laboratory etc.)**

- **Other Fixed Assets.....6**
 - Furniture & Fixtures**
 - Pre-operative and Preliminary Expenses**
 - Technical Knowhow**
 - Provision of Contingencies**

- **Working Capital Requirement Per Month.....7**
 - Raw Material**
 - Packing Material**
 - Lab & ETP Chemical Cost**
 - Consumable Store**

- **Overheads Required Per Month and Per Annum.....8**
 - Utilities & Overheads (Power, Water and Fuel Expenses etc.)**
 - Royalty and Other Charges**
 - Selling and Distribution Expenses**
- **Salary and Wages9**
- **Turnover Per Annum10**
- **Share Capital.....11**
 - Equity Capital**
 - Preference Share Capital**

- **Annexure 1 :: Cost of Project and Means of Finance**
- **Annexure 2 :: Profitability and Net Cash Accruals**
 - **Revenue/Income/Realisation**
 - **Expenses/Cost of Products/Services/Items**
 - **Gross Profit**
 - **Financial Charges**
 - **Total Cost of Sales**
 - **Net Profit After Taxes**
 - **Net Cash Accruals**

- **Annexure 3 :: Assessment of Working Capital requirements**

- **Current Assets**
- **Gross Working Capital**
- **Current Liabilities**
- **Net Working Capital**
- **Working Note for Calculation of Work-in-process**

- **Annexure 4 :: Sources and Disposition of Funds**

- **Annexure 5 :: Projected Balance Sheets**

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

- **Annexure 6 :: Profitability Ratios**

- **D.S.C.R**
- **Earnings Per Share (EPS)**
- **Debt Equity Ratio**

- **Annexure 7 :: Break-Even Analysis**

- **Variable Cost & Expenses**
- **Semi-Variable/Semi-Fixed Expenses**
- **Profit Volume Ratio (PVR)**
- **Fixed Expenses / Cost**
- **B.E.P**

- **Annexure 8 to 11 :: Sensitivity Analysis-Price/Volume**

- **Resultant N.P.B.T**
- **Resultant D.S.C.R**
- **Resultant PV Ratio**
- **Resultant DER**
- **Resultant ROI**
- **Resultant BEP**

- **Annexure 12 :: Shareholding Pattern and Stake Status**

- **Equity Capital**

- **Preference Share Capital**

- **Annexure 13 :: Quantitative Details-Output/Sales/Stocks**

- **Determined Capacity P.A of Products/Services**

- **Achievable Efficiency/Yield % of Products/Services/Items**

- **Net Usable Load/Capacity of Products/Services/Items**

- **Expected Sales/ Revenue/ Income of Products/ Services/ Items**

- **Annexure 14** :: **Product wise Domestic Sales Realisation**
- **Annexure 15** :: **Total Raw Material Cost**
- **Annexure 16** :: **Raw Material Cost per unit**
- **Annexure 17** :: **Total Lab & ETP Chemical Cost**
- **Annexure 18** :: **Consumables, Store etc.**
- **Annexure 19** :: **Packing Material Cost**
- **Annexure 20** :: **Packing Material Cost Per Unit**

- **Annexure 21** :: **Employees Expenses**
- **Annexure 22** :: **Fuel Expenses**
- **Annexure 23** :: **Power/Electricity Expenses**
- **Annexure 24** :: **Royalty & Other Charges**
- **Annexure 25** :: **Repairs & Maintenance Expenses**
- **Annexure 26** :: **Other Manufacturing Expenses**
- **Annexure 27** :: **Administration Expenses**
- **Annexure 28** :: **Selling Expenses**

- **Annexure 29 :: Depreciation Charges – as per Books (Total)**
- **Annexure 30 :: Depreciation Charges – as per Books (P & M)**
- **Annexure 31 :: Depreciation Charges - as per IT Act WDV (Total)**
- **Annexure 32 :: Depreciation Charges - as per IT Act WDV (P & M)**
- **Annexure 33 :: Interest and Repayment - Term Loans**
- **Annexure 34 :: Tax on Profits**
- **Annexure 35 :: Projected Pay-Back Period and IRR**

Tags

#Ground_Calcium_Carbonate, #Ground Calcium Carbonate (GCC), #GCC, Calcium Carbonate, Ground Calcium Carbonate Manufacturing Process, Ground/Natural Calcium Carbonate, Ground Calcium Carbonate Manufacture, Ground Calcium Carbonate (GCC) / Limestone, Calcium Carbonate (Caco3), Chemical Industry, Calcium Carbonate Processing and Production, Ground Calcium Carbonate Process Diagram, Manufacturing of Ground Calcium Carbonate, #How_to_Manufacture_Ground_Calcium_Carbonate, Calcium Carbonate Production, #Caco3_Manufacturing_Process, Manufacture of Ground Calcium Carbonate, #Calcium_Carbonate_Industry, Calcium Carbonate Plant, Calcium Carbonate Industrial Production, (GCC) Ground Calcium Carbonate, Process of Manufacturing of Ground Calcium Carbonate, Ground Calcium Carbonate (GCC) Production, #Ground_Calcium_Carbonate_Plant, Detailed Project Report on Ground Calcium Carbonate (GCC) Production, #Project_Report_on_Ground_Calcium_Carbonate_Manufacturing_Industry, Pre-Investment Feasibility Study on Ground Calcium Carbonate (GCC) Production, #Techno_Economic_feasibility_study_on_Ground_Calcium_Carbonate_Manufacturing_Industry, #Feasibility_report_on_Ground_Calcium_Carbonate_(GCC)_Production, Free Project Profile on Ground Calcium Carbonate Manufacturing Industry, Project profile on Ground Calcium Carbonate Manufacturing Industry, Download free project profile on Ground Calcium Carbonate (GCC) Production

Niir Project Consultancy Services (NPCS)
can provide Detailed Project Report on
Ground Calcium Carbonate (GCC)
Manufacturing Business.
Production of Ground Calcium
Carbonate with 90% Brightness and
Whiteness and > 90% CaCO₃

See more

<https://bit.ly/2YKwxNQ>

<https://bit.ly/2VvIZza>

<https://bit.ly/2XWWb4w>



Contact us

NIIR PROJECT CONSULTANCY SERVICES

106-E, Kamla Nagar, Opp. Spark Mall,
New Delhi-110007, India.

Email: npcs.ei@gmail.com , info@entrepreneurindia.co

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

Website : www.entrepreneurindia.co , www.niir.org

Take a look at NIIR PROJECT CONSULTANCY SERVICES on #StreetView

<https://goo.gl/VstWkd>



Follow us



➤ <https://www.linkedin.com/company/niir-project-consultancy-services>



➤ <https://www.facebook.com/NIIR.ORG>



➤ <https://www.youtube.com/user/NIIRproject>



➤ <https://plus.google.com/+EntrepreneurIndiaNewDelhi>



➤ https://twitter.com/npcs_in



➤ <https://www.pinterest.com/npcsindia/>





**Thank
You**

For more information, visit us at:

www.niir.org

www.entrepreneurindia.co



www.entrepreneurindia.co