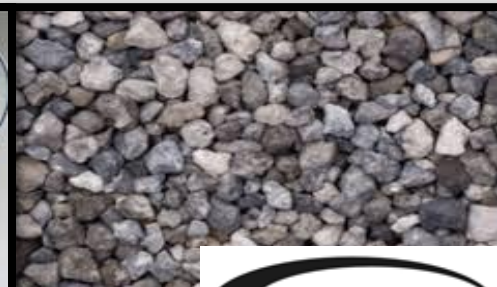


Bauxite Calcination Plant by Rotary Kiln with Fine Grinding Ball Mill. Refractory Grade Calcined Bauxite



Introduction

Calcined bauxite is produced by sintering/calcining of low iron, low alkali containing raw bauxites at temperatures of 1600 - 1800 degree Celsius. In this calcination process the high refractory mineral phase's corundum and mullite are formed. Therefore calcined bauxite is one of the most important raw materials for the production of shaped and unshaped refractories for the steel industry, foundries, glass and cement plants. Calcined bauxite is available "run of kiln" i.e. uncrushed or in fractions and as ball milled powder according to customers' requirements, in bulk or bagged.



Calcined Bauxite is obtained by calcining (heating) superior grade Bauxite at high temperature (from 850 oC to 1600 oC). This removes moisture thereby increasing the alumina content. Compared to an alumina content of about 57 % to 58 % in raw Bauxite, Calcined Bauxite has an alumina content of 82 % to 86 %. The heating is carried out in rotary kilns. Calcination is done at different temperatures ranging from 850 oC to 1600 oC depending upon the customer's application.



Calcined bauxite is used in a number of applications:

- **Refractory Grade Calcined Bauxite (CB - I and CB - II Grade):** To make refractory grade, Bauxite is thermally treated at 1600 oC to produce Calcined Bauxite where the Alumina content is mostly above 82%.
- **Brown Fused Alumina, Proppants and Road Surfacing :** To make the above grades, Bauxite is thermally treated at 1000 oC – 1200 oC to produce Calcined Bauxite where the Alumina content is anywhere between 80-88% depending on the requirement.
- **Anti-skid protection.** Calcined Bauxite is an ideal aggregate for anti-skid applications. It is used extensively for vehicle skid prevention and on surfaces requiring additional safety. The bauxite may be trowelled into fresh concrete, added to paints or applied to surfaces using resin cements and adhesives.

- **Anti-slip protection.** This material is ideal for reducing the risk of pedestrians slipping and is used in many industrial, commercial and residential applications. These include pedestrian crosswalks, stairways, factory floors and work zones, sidewalks, ship decks, boat docks, pool decks, bathtubs, and
- **High friction surface treatment (HFST).** HFST is a cost-effective method to reduce skidding and is mainly used to make roadways safer. It is used on horizontal curves and ramps, intersections, steep grades, bridge decks, roundabouts and pavement surfaces. Studies have indicated that the application of HFST reduces vehicle crashes by up to 100%. The material is applied to surfaces using a polymer binder.

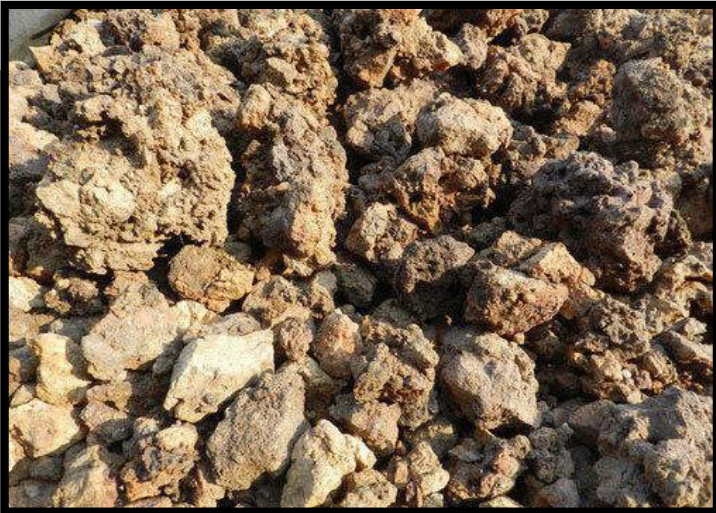
- **Refractories.** Refractories are insulating materials that maintain their strength and chemical properties at high temperatures.

Calcined bauxite is used globally for its anti-skid and high friction properties to make roadways safer. It is a strong and highly durable material, which makes it ideal to prevent slips on factory floors and other surfaces.



Calcined Bauxite Benefits

- **Extreme hardness and wear resistance**
- **High resistance to weathering, abrasion, and polishing**
- **High durability**
- **Chemically stable when exposed to intense heat and acid or alkaline agents**



Market Outlook

India currently imports 60% of its Calcined Bauxite from China. Spurred by expansion of domestic steel production, a scarcity of acceptable quality of bauxite from China and raising import cost, drives are now under way in India to produce high grade bauxite from domestic bauxite sources. At present, India is very minor producer of non-metallurgical bauxite, despite having occurrence of high grade bauxite in west coast and central India. This is attributed to limited effort to test high grade bauxite occurrence in region outside the main bauxite producing area around Gujarat.



Demand for calcined bauxite in production of ceramic proppants is expected to grow by more than 5%py out to 2021 as North America and China target greater exploitation of unconventional oil and gas reservoirs.

Calcined Bauxite Production: India produces about 400,000 tons of calcined bauxite



Indian Calcined Bauxite Producers

Existing Units	Annual Capacity (tons)
Bombay Minerals Pvt. Ltd. (Ashapura Minechem)	66,000
Nataraj Ceramics Pvt. Ltd. (Captive)	33,000
Gujarat Mineral Development Corporation (GMDC)	45,000
Orient Abrasives Ltd. (Captive)	33,000
Carborandum Universal Ltd. (Captive)	50,000
Navnagar Minerals Pvt. Ltd.	33,000
Krishnamayee Minerals Industries Pvt. Ltd.	33,000
Other producers: Meena Agency (30,000), SCABAL (24,000), Kishan Minerals / Madhu Refractories (18000), Gjanan Refractories (12,000) & Sarvesh Refractories (9600) etc.	100,000
Total	393,000

Global Calcined Bauxite market size will increase to Million US\$ by 2025, from Million US\$ in 2017, at a CAGR of during the forecast period.

Demand for calcined bauxite-based refractories used principally in steel production continues unabated. The majority of standard refractory products incorporate a calcined or fire-treated form of bauxite for their raw material base. China is now also the leading producer of refractories. Outputs tends at about 23m. tonnes.

In the present paper, various aspects of calcined bauxite are discussed. India's present position is compared with leading high grade bauxite producers of World i.e. China and Guyana. Based on various R&D work, proposals are put forward to produce high grade bauxite in India by complex mining / sorting and beneficiation.

Bauxite and Alumina in Refractories

- **World Refractories production ~39 million T**
- **Calcined Bauxite 1.6 million T**
- **BFA 1.2 million T Requires 1.4million T**

Calcined Bauxite

- **Alumina 1.9 Million Tonnes**
- **Tabular, WFA, CAC, calcined, spinel, mullite,**

Ceramic Fibres

- **Refractory clays and Magnesia still largest**

Machinery Photographs



Elevator Bucket



Rotary Kiln



Cyclone Dust Collector



Burner

Project at a Glance

PROJECT AT A GLANCE								(in lacs)
COST OF PROJECT				MEANS OF FINANCE				
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total	
Land & Site Development Exp.	0.00	72.50	72.50	Capital	0.00	191.36	191.36	
Buildings	0.00	322.80	322.80	Share Premium	0.00	0.00	0.00	
Plant & Machineries	0.00	219.14	219.14	Other Type Share	0.00	0.00	0.00	
Motor Vehicles	0.00	10.00	10.00	Capital	0.00	0.00	0.00	
Office Automation Equipments	0.00	46.00	46.00	Reserves & Surplus	0.00	0.00	0.00	
Technical Knowhow Fees & Exp.	0.00	25.00	25.00	Cash Subsidy	0.00	0.00	0.00	
Franchise & Other Deposits	0.00	0.00	0.00	Internal Cash Accruals	0.00	0.00	0.00	
Preliminary & Pre-operative Exp	0.00	10.00	10.00	Long/Medium Term Borrowings	0.00	574.07	574.07	
Provision for Contingencies	0.00	20.00	20.00	Debentures / Bonds	0.00	0.00	0.00	
Margin Money - Working Capital	0.00	39.99	39.99	Unsecured Loans/Deposits	0.00	0.00	0.00	
TOTAL	0.00	765.42	765.42	TOTAL	0.00	765.42	765.42	

Project at a Glance

Year	Annualised		Book Value	Debt	Divide nd	Retained Earnings		Payou t	Probab le Market Price	P/E Ratio	Yield Price/ Book Value
	EPS	CEPS	Per Share		Per Share	Per Share		%		No.of Times	%
1-2	4.95	8.99	14.95	24.00	0.00	100.00	4.95	0.00	4.95	1.00	0.00
2-3	7.85	11.40	22.79	18.00	0.00	100.00	7.85	0.00	7.85	1.00	0.00
3-4	10.67	13.80	33.47	12.00	0.00	100.00	10.67	0.00	10.67	1.00	0.00
4-5	13.39	16.14	46.85	6.00	0.00	100.00	13.39	0.00	13.39	1.00	0.00
5-6	15.97	18.40	62.82	0.00	0.00	100.00	15.97	0.00	15.97	1.00	0.00



Project at a Glance

Year	D. S. C. R.			Debt / Equity - 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 Contribution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%	%			
Initial				3.00	3.00									
1-2	1.32	1.32		1.61	1.61	2.21		16.46%	8.59%	5.98%	658.82	41.59%	1.77	0.94
2-3	1.63	1.47		0.79	0.79	1.25		18.80%	12.40%	8.13%	767.16	41.51%	1.92	1.27
3-4	1.99	1.63	1.98	0.36	0.36	0.71		20.37%	15.08%	9.67%	876.72	41.51%	1.96	1.69
4-5	2.41	1.80		0.13	0.13	0.41		21.40%	16.97%	10.78%	986.28	41.51%	1.90	2.16
5-6	2.92	1.98		0.00	0.00	0.23		22.07%	18.29%	11.57%	1095.84	41.51%	1.79	3.77



Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	51.67%
Total BEP (% of Installed Capacity)	55.91%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	25.90%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	6.133

Major Queries/Questions Answered in the Report?

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

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

9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Calcined Bauxite plant ?

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11. Who are the Suppliers and Manufacturers of Raw materials for setting up Bauxite Calcination Business?

12. What is the Manufacturing Process of Calcined Bauxite?

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- **This report helps you market and place the product correctly by identifying the target customer group of the product**

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Scope of the Report

The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Bauxite Calcination (by Rotary Kiln with Fine Grinding Ball Mill).” provides an insight into Calcined Bauxite market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Calcined Bauxite project. The report assesses the market sizing and growth of the Indian Calcined Bauxite Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- **Good Present/Future Demand**
- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the Calcined Bauxite sector in India along with its business prospects. Through this report we have identified Calcined Bauxite project as a lucrative investment avenue.

Tags

Calcined Bauxite, Refractory Calcined Bauxite, Bauxite, Calcined, Calcination, Calcination of Bauxite, Refractory Bauxite Products, Calcined Bauxite Manufacture, Refractory Grade Calcined Bauxite, Refractory & Abrasive Grade Calcined Bauxite, Refractory Grade Bauxite, Calcined Bauxite Production, Calcined Bauxite Uses, Calcined Bauxite Manufacturing Plant, Manufacturing of Calcined Bauxite, Bauxite Calcination Plant, Bauxite Calcination Plant Cost, Calcined Bauxite Project, Profitable Calcined Bauxite Project, Calcined Bauxite Plant, Calcined Bauxite Processing, Production Cost of Calcined Bauxite, Bauxite Calcination Plant Grinding By Ball Mill, Grinding Bauxite Calcinations, Calcined Bauxite Grinding Balls, Bauxite Refractory Process Calcination, Project Report on Calcined Bauxite Manufacturing Industry, Detailed Project Report on Bauxite Calcination Plant Grinding By Ball Mill, Project Report on Bauxite Calcination Plant, Pre-Investment Feasibility Study on Calcined Bauxite Manufacturing, Techno-Economic feasibility study on Bauxite Calcination Plant Grinding By Ball Mill, Feasibility report on Calcined Bauxite Manufacturing, Free Project Profile on Calcined Bauxite Manufacturing, Project profile on Bauxite Calcination Plant, Download free project profile on Bauxite Calcination Plant, Bauxite Calcination Rotary kiln plant, Rotary Kiln Calcination Plant, Bauxite Rotary Kiln Calcined, Rotary Kiln Calcined Bauxite for Refractory Industry

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Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.



And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

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- **Project Costs and Payback Period**

The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as 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, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in India along with its business prospects.....[Read more](#)



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

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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*



We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.



We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.



What do we offer?

- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Market Research Reports*
- *Business Plan*
- *Technology Books and Directory*
- *Industry Trend*
- *Databases on CD-ROM*
- *Laboratory Testing Services*
- *Turnkey Project Consultancy/Solutions*
- *Entrepreneur India (An Industrial Monthly Journal)*

How are we different ?

- *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*



Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation

Contact us

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Mobile: +91-9811043595

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