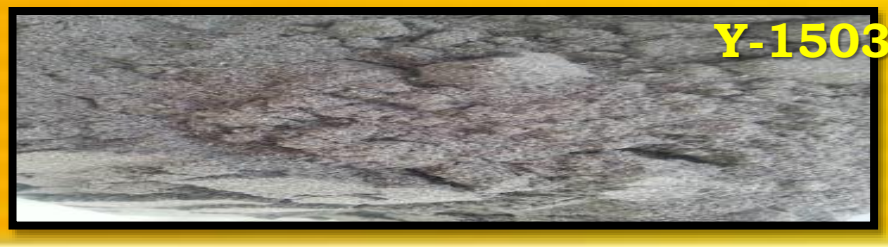
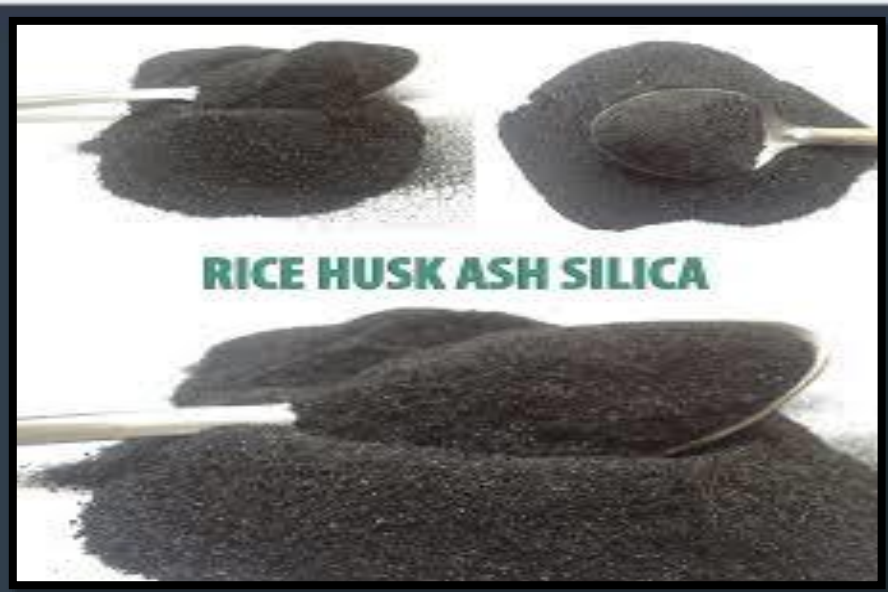


Silica Produced From Rice Husk Ash.

Rice Husk Ash Silica Manufacture.

Emerging Investment Opportunities in agriculture waste processing Industry



Introduction

Silica occurs as amorphous to crystalline form in many types of igneous, metamorphic, and sedimentary rocks, but in sediments and sedimentary rocks much of the silica is detrital material. The chief forms of silica are hydrous opal, cryptocrystalline chalcedony, and crystalline quartz.

As a byproduct of the combustion of rice husk to generate energy, rice husk ash (RHA) is formed by silica and carbon, apart from small amounts of other constituents. Several treatments can be used to increase the purity of the silica obtained, or even produce pure silica.

Rice Husk Ash. Rice husk ash (RHA) is a highly reactive pozzolan obtained when rice husks are calcinated below the crystallization temperature at 780°C (Yu et al 1999).

Silica is not a new commodity in the plastics market. Its usage as extenders and reinforcing fillers, as pozzolanic material and as glass microspheres for specific engineering applications are well known in the market. Because of its high silica and lignin content, rice husk is tough, woody and abrasive in nature with low nutritive properties and resistance to weathering. With growing environmental concern, open burning has been outlawed in many major rice-producing countries. 18% of the rice husk can be retrieved as ash after the gasification process. Silica content in ash is almost 90% and the rate of recovery of precipitated silica is 90-95% from the rice husk ash if the conversion efficiency is more than 70%. Rice hull ash (RHA) contains over 60% of silica which can be an economically viable raw material for the production of silica based products.

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Uses

- Rubber reinforcement (Tyre industry)
- Plastic reinforcement
- Agriculture (Animal food)
- Food, Healthcare, Cosmetics
- Catalyst; Coatings
- Pulp and Paper processing

Market Outlook

Combustion of rice hulls affords rice husk ash (acronym RHA). This ash is a potential source of amorphous reactive silica, which has a variety of applications in materials science. Most of the ash is used in the production of Portland cement. The rice husk ash is a green supplementary material that has applications in small to large scale. It can be used for waterproofing. It is also used as the admixture to make the concrete resistant against chemical penetration. The main applications of rice husk ash in the construction are: High-performance Concrete. Use of waste or by-products from different industries and the agricultural sector has received increasing attention in the scientific, technology, ecological, economic and social spheres in recent years. Rice husk (RH) is a by-product of rice milling and rice husk ash (RHA) is generated by combustion in a separate boiler.

Both RH and RHA are abundantly accessible in rice growing countries such as China, India, Brazil, the USA, and Southeast Asia. Silica is the major constituent of the rice husk ash. So precipitated silica production will not only provide value addition but also solve the problem of large amount of ash disposal generated from gasification process. With such a large ash content & silica content in the ash it becomes economical to extract silica from the ash, which has wide market & also takes care of ash disposal. Precipitated Silica (also called particulate silica) is composed of aggregates of ultimate particles of colloidal size that have not become linked in massive gel network during the preparation process. It is an amorphous form of silica; the word amorphous denotes a lack or crystal structure, as defined by X ray diffraction. Early interest in amorphous silica was purely academic. The ash produced after the husks have been burned is high in silica.

RHA can be used in a variety of application like: green concrete, high performance concrete, ceramic glaze, water proofing chemicals, roofing shingles, insulator, specialty paints, flame retardants, carrier for pesticides, insecticides & bio fertilizers etc. Precipitated silica is also used as filler for paper & rubber, as a carrier & diluents for agricultural chemicals, as an anti-caking agent, to control viscosity & thickness and as a cleansing agent in toothpastes & in cosmetics. The distinguishing feature of the growth of precipitated silica industry in India is that it has classifiably flourished in the small scale sector. Readily available new materials low capital investment & high rates of return offer a distinct advantage to the small scale manufacturers to venture into this field. There is a very good scope in this sector. The market scope includes silica forms including precipitated, fumed, gels and sols, and micro silica (fumes). Rising demand for the product from the rubber industry is the primary factor driving the market.

Increase in demand for tires is mainly driven by rising automotive production, especially in countries such as India, China, Indonesia, South Korea, Japan, Malaysia, Taiwan, Mexico, U.S., and Germany. Rapid economic growth. Silica provides higher abrasion resistance, tensile strength, and flex fatigue properties to rubber products. It is widely used in tire applications, owing to its ability to improve the bond and tear resistance between rubber tires and metallic reinforcements

The growth of silica as a market is driven by its increasing application in paints and coatings. It is mainly utilized in this industry to control rheological characteristics and to aid in the deterrence of rust and corrosion. It is also used as an anti-settling agent and thixotroping agent in the sector. A developing paints and coatings industry in the emerging markets of Asia Pacific, driven by growing construction and automotive sectors, is expected to drive product demand over the forecast period.

Key players

SCR-Sibelco, US Silica Holdings, Emerge Energy Services, Fairmount Santrol, Badger Mining Corporation, Hi-Crush Partners, Saint Gobain, Mitsubishi Corporation, Toyota Tsusho, Pioneer Natural Resources, Tochu, EUROQUARZ GmbH, Guru Metachem Pvt. Ltd. (India), Yihai Kerry Investments Co., Ltd. (China), Usher Agro Ltd. (India), Jasoriya Rice Mill (India), and Rescon (India) Pvt. Ltd, Guru Metachem Pvt. Ltd., Astrra Chemicals, Jasoriya Rice Mill, KGR Agro Fusion (P) Ltd., Kothari Bio Fuels, B.D. Agrotech Pvt. Ltd., KRBL Limited, and J.M. Biotech Pvt. Ltd. Abhiraami Chemicals Ltd, Balls & Cylpebs Ltd, Kiran Global Chems Ltd, Shri Aster Silicates Ltd.

Machinery Photographs

Reactor

Dryer

Storage Tank

Pulverizers

Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	110.00	110.00	Capital	0.00	230.12	230.12
Buildings	0.00	181.80	181.80	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	488.75	488.75	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	8.00	8.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	35.00	35.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	20.00	20.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	690.36	690.36
Preliminary& Pre-operative Exp	0.00	3.00	3.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	47.40	47.40	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	26.53	26.53				
TOTAL	0.00	920.48	920.48	TOTAL	0.00	920.48	920.48

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	
	`	`	`	`	`	%	`	%	`		%
1-2	4.80	9.33	14.80	24.00	0.00	100.00	4.80	0.00	4.80	1.00	0.00
2-3	7.43	11.34	22.23	18.00	0.00	100.00	7.43	0.00	7.43	1.00	0.00
3-4	10.03	13.41	32.26	12.00	0.00	100.00	10.03	0.00	10.03	1.00	0.00
4-5	12.58	15.51	44.84	6.00	0.00	100.00	12.58	0.00	12.58	1.00	0.00
5-6	15.06	17.60	59.90	0.00	0.00	100.00	15.06	0.00	15.06	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 Contribution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%		%		
Initial				3.00	3.00									
1-2	1.36	1.36		1.62	1.62	1.83		27.50 %	15.39 %	11.80 %	678.24	72.43%	0.99	0.83
2-3	1.62	1.48		0.81	0.81	0.97		32.29 %	23.05 %	15.64 %	791.28	72.43%	1.10	1.40
3-4	1.94	1.62	1.94	0.37	0.37	0.50		35.53 %	28.44 %	18.49 %	904.32	72.43%	1.14	2.12
4-5	2.33	1.78		0.13	0.13	0.23		37.73 %	32.31 %	20.62 %	1017.36	72.43%	1.11	2.98
5-6	2.80	1.94		0.00	0.00	0.08		39.22 %	35.09 %	22.21 %	1130.40	72.43%	1.05	8.71

Project at a Glance

BEP	
BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	46.39%
Total BEP (% of Installed Capacity)	51.55%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	25.02%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	3.035

Major Queries/Questions Answered in the Report?

1. What is Silica from Rice Husk Ash Manufacturing industry ?

2. How has the Silica from Rice Husk Ash Manufacturing industry performed so far and how will it perform in the coming years ?

3. What is the Project Feasibility of Silica from Rice Husk Ash Manufacturing Plant ?

4. What are the requirements of Working Capital for setting up Silica from Rice Husk Ash Manufacturing plant ?

5. What is the structure of the Silica from Rice Husk Ash Manufacturing Business and who are the key/major players ?

6. What is the total project cost for setting up Silica from Rice Husk Ash Manufacturing Business?

7. What are the operating costs for setting up Silica from Rice Husk Ash Manufacturing plant ?

8. What are the machinery and equipment requirements for setting up Silica from Rice Husk Ash Manufacturing plant ?

9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Silica from Rice Husk Ash Manufacturing plant ?

10. What are the requirements of raw material for setting up Silica from Rice Husk Ash Manufacturing plant ?

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Reasons for Buying our Report:

- This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product
- This report provides vital information on the product like it's characteristics and segmentation
- This report helps you market and place the product correctly by identifying the target customer group of the product

- This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials
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Our Approach:

- Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.
- The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players
- We use reliable sources of information and databases. And information from such sources is processed by us and included in the report

Scope of the Report

The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Silica from Rice Husk Ash .” provides an insight into Silica from Rice Husk Ash market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Silica from Rice Husk Ash project. The report assesses the market sizing and growth of the Indian Silica from Rice Husk Ash 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 Silica from Rice Husk Ash sector in India along with its business prospects. Through this report we have identified Silica from Rice Husk Ash project as a lucrative investment avenue.

Tags

#Precipitated_silica, #Production_of_Silica,
#Silica_From_Rice_Husk_Ash_Manufacturing_Plant,
#Precipitated_Silica_Manufactures,
#Introduction_of_Silica_Sand_Production,
#Silica_Sand_Manufacturing_Plant,
#Industrial_Processing_Plant_Precipitated_Silica,
#Project_Report_on_Precipitated_Silica_Manufacturing,
#Project_Report_on_Extraction_Precipitated_Silica_Rice_Husk_Ash,
#Investment_Opportunities_in_Precipitated_Silica_from_Rice_Husk,
#rice_husk_ash_silica_manufacturer,
#extraction_of_silica_from_rice_husk_pdf, silica from rice husk ppt, rice husk ash silica manufacturer in India, Rice Husk Ash Manufacturers & Suppliers In India, India Silicon Market Report,

Precipitated Silica Sand Manufacturing Plant, silica gel manufacturing plant, silicone gel manufacturers, How to Start Silica Processing Industry in India, Silica Processing Industry in India, Most Profitable Silica Processing Business Ideas , Silica from Rice Husk Ash Processing & Silica from Rice Husk Ash Based Profitable Projects, Silica from Rice Husk Ash Processing Projects, Small Scale Silica from Rice Husk Ash Processing Projects, Starting a Silica from Rice Husk Ash Processing Business, How to Start a Silica from Rice Husk Ash Production Business, Silica from Rice Husk Ash Based Small Scale Industries Projects, new small scale ideas in Silica from Rice Husk Ash processing industry Project report on Silica from Rice Husk Ash processing industries, Detailed Project Report on Silica from Rice Husk Ash, Project Report on Silica from Rice Husk Ash, Pre-Investment Feasibility Study on Silica from Rice Husk Ash, Techno-Economic feasibility study on Silica from Rice Husk Ash,

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- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **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

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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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Take a look at NIIR PROJECT CONSULTANCY SERVICES on #StreetView

https://goo.gl/VstWkd

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THANK YOU

For more information, visit us at:

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