

# Investment Opportunities in Precipitated Silica from Rice Husk Ash Project

## Description:

**Investment, Opportunities, Rice husk Ash, Project, Precipitated Silica, Rice husk, Uses, rubber industry, cosmetics, tooth paste, food industry, paint, agriculture, agro, production, acid, report, business, silicon, chemicals,**

Rice husk is an agricultural residue abundantly available in rice producing countries. The annual rice husk produce in India amounts is generally approximately 12 million tons. Rice husk is generally not recommended as cattle feed since its cellulose and other sugar contents are low. Furfural and rice bran oil are extracted from rice husk. Industries use rice husk as fuel in boilers and for power generation. Rice husk, an agro waste material, contains about 20% ash which can be retrieved as amorphous, chemically reactive silica. This silica finds wide applications as filler, catalyst support, adsorbent and a source for synthesizing high performance silicon and its compounds. Various metal ions and unburned carbon influence the purity and color of the ash. Controlled burning of the husk after removing these ions can produce white silica of high purity.

## Precipitated Silica Production

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.

Silica generation is a separate independent process not dependent on electricity generation, although the input ash is dependent on gasification process. Provision will be taken in the design so that external ash is used also as input thus increase silica production.

**For more details download PDF file.**

**Keywords:** Precipitated Silica from Rice Husk Ash, Silica from Rice Husk Ash, Detailed Project Report on Rice husk ash Based Precipitated Silica plant, Download free project profiles on Rice husk ash Based Precipitated Silica, extraction of Precipitated silica from rice husk ash, Feasibility report on Precipitated Silica from Rice husk ash project, Free Project Profiles on Rice husk ash Based Precipitated Silica plant, Get started in small-scale Rice Husk based products manufacturing, How to Manufacture Ri

**Created At:** 07 Nov, 2017