

Profitable Project Investment Opportunity in Extraction of Ultrapure Silicon from Rice Husk Ash

Description:

Rice husk ash is a unique source of high grade amorphous silica. The silica present in rice husk, being of biogenic origin, is inherently amorphous. Amorphous silica obtained from rice husk is chemically active and hence a very useful product. At higher temperatures, it undergoes a phase change resulting into crystalline forms of silica. The silica precipitation technology is a novel method for silica precipitation where the chemicals used are regenerated making it a closed loop operation. Successful studies for extraction of silica on laboratory scale, which meet the industrial requirements, have been carried out. Also studies are being carried out for suitable application of the undigested ash obtained after extraction, in water treatment plants with or without further improving the activated carbon content of the ash.

Silicon, the second most abundant element on earth, is an essential part of the mineral world. Its stable tetrahedral configuration makes it incredibly versatile and is used in various way in our everyday lives. Burning the fuel, rice husk to generate energy results in the waste product called rice husk ash (RHA). RHA is an abundant agricultural by-product. It is rich in silica (about 60%) and can be made into economically viable raw material which can be used for production of ultrapure silica. The present work deals with the production of silica particles.

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Keywords: agro waste processing Business, Detailed Project Report on Rice husk ash Based ultra pure silicon plant, Download free project profiles on Rice husk ash Based ultra-pure silicon, Extraction of ultra pure silicon from rice husk ash, Feasibility report on ultra pure silicon from Rice husk ash project, Free Project Profiles on Rice husk ash Based ultra-pure silicon plant, Get started in small-scale Rice Husk based products manufacturing, High Purity Silicon from Rice Husks, How to Manufacture Rice

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