

# Entrepreneur India

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## Precipitated Calcium Carbonate

<b>Capacity:</b>	30 MT/Day
<b>Plant and machinery cost:</b>	800.00 Lakh
<b>Working Capital:</b>	0.00 Lakh
<b>Rate of return(ROR):</b>	18.00 %
<b>Break Even Point (BEP):</b>	57.00 %
<b>TCI:</b>	1320.00 Lakh
<b>Cost of Project:</b>	1320.00 Lakh

Sizing Precipitated Calcium Carbonate (PCC) is also known as purified, refined or synthetic calcium carbonate. It has the same chemical formula as other types of calcium carbonate, such as limestone, marble and chalk:  $\text{CaCO}_3$ . The calcium, carbon and oxygen atoms can arrange themselves in three different ways, to form three different calcium carbonate minerals. The most common arrangement for both precipitated and ground calcium carbonates is the hexagonal form known as calcite. Precipitated calcium carbonate (PCC), a manufactured form of calcium carbonate, is made by first hydrating high-calcium quicklime, and then reacting the resulting slurry or "milk-of lime" with carbon dioxide. The resulting product is extremely white and has a uniformly small particle size. It has numerous uses, most notably in the paper industry. With the trend in papermaking toward using the alkaline over the acid process, PCC is being used increasingly as a filler and coating pigment for premium quality paper. The trend is to produce PCC in slurry form at satellite plants located near the paper mills, using commercial quicklime, although it is also produced and sold commercially. PCC is used to enhance the brightness, color, smoothness, and bulk of the paper, replacing more expensive paper pulp. Approximately 75% of worldwide PCC production is used for this purpose. According to GIA, Global market for Calcium Carbonate is projected to reach 94 million tons by 2018, driven by the rising consumption in paper and plastic industries and the growing demand for PCC and GCC in Asia-Pacific, Latin America, and the Middle East. Calcium Carbonate ( $\text{CaCO}_3$ ) is an inorganic mineral that finds extensive use as functional and commercial filler in plastic, paper, rubber, coatings, light chemicals, and architectural materials, among others. Growth in the Precipitated Calcium Carbonate (PCC) market would be driven by the increasing number of paper mills and rising demand from plastics sector. Any entrepreneur venture into this field will be successful. Few Indian Major Players are as under

- Citurgia Biochemicals Ltd.
- Dewan Rubber Inds. Ltd.
- Fimakem India Ltd.
- Genus Prime Infra Ltd.
- Gulshan Polyols Ltd.
- Gulshan Sugars & Chemicals Ltd.
- Lime Chemicals Ltd.
- Niraj Petrochemicals Ltd.
- Samana Plastic Ltd.
- Searsole Chemicals Ltd.
- Shyam Textiles Ltd.
- Thirani Chemicals Ltd.
- U P Lime-Chem Ltd.

NIIR Project Consultancy Services (NPCS) is a reliable name in the industrial world for offering integrated technical consultancy services. Its various services are: Pre-feasibility study, New Project Identification, Project Feasibility and Market Study, Identification of Profitable Industrial Project Opportunities, Preparation of Project Profiles and Pre-Investment and Pre-Feasibility Studies, Market Surveys and Studies, Preparation of Techno-Economic Feasibility Reports, Identification and Selection of Plant and Machinery, Manufacturing Process and or Equipment required, General Guidance, Technical and Commercial Counseling for setting up new industrial projects and industry. NPCS also publishes various technology books, directory, databases, detailed project reports, market survey reports on various industries and profit making business. Besides being used by manufacturers, industrialists and entrepreneurs, our publications are also used by Indian and overseas professionals including project engineers, information services bureau, consultants and consultancy firms as one of the input in their research.

### **NIIR PROJECT CONSULTANCY SERVICES**

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