



Sanmar Chemicals Corporation



Chemplast Sanmar Limited

Chemplast Sanmar—over forty years old and the flagship company of The Sanmar Group—is a major manufacturer of PVC resins, chlorochemicals and piping systems. The manufacturing facilities are located at Mettur, Panruti, Cuddalore and Ponneri in Tamil Nadu, Shinoli in Maharashtra, and Karaikal in the Union Territory of Puducherry.

Greenfield project at Cuddalore: The recent commissioning of a greenfield PVC project at Cuddalore, Tamil Nadu, has been a major step forward for the Group. The facility commissioned in September 2009 has an annual capacity of 170,000 tons, the largest chemical project to come up in the State of Tamil Nadu for well over a decade. Chemplast Sanmar's aggregate capacity of 235,000 tons makes it one of the largest PVC players in India.

At Chemplast, integration—forward and backward—is the key. The basic feedstock for its PVC plant, ethylene and chlorine, come from its industrial alcohol plant at Panruti and its own chloralkali facilities at Mettur and Karaikal.

The Chlorochemicals Division of Chemplast, itself the result of backward integration by the Group, manufactures a wide range of products using a highly integrated manufacturing process. These downstream products are either chlorine derivatives or chlorine users in the production process.

The salt needed for chlorine manufacture is supplied by salt fields Chemplast owns at Vedaranyam. The power-intensive electrolysis process of manufacturing chlorine is served by Chemplast's own power plant.

Trubore Piping Systems: In pursuit of its forward integration strategy, the company has re-entered the PVC pipes business it exited decades ago, through the acquisition of Trubore Piping Systems at Ponneri, near Chennai. After the addition of a greenfield pipes facility at Shinoli, Maharashtra, its capacity rose to 56,000 tpa of a wide range of pipes that includes pressure pipes, casing and screen pipes, SWR pipes, plumbing pipes and conduits, supported by a strong sales team and a well distributed dealership network spread across numerous states.

All this makes Chemplast one of the most integrated chemical plants in the country with a closed manufacturing loop. Its product range falls into six distinct Groups — PVC Resins, Caustic Soda/ Chlorine, Chlorinated Solvents, Refrigerant Gases, Silicon Wafers and Trubore Piping Systems.

Chemplast has thus played a pioneering role in the field through its ingenious choice of feedstock and manufacturing processes, and efficient, eco-friendly practices. Its constant development of environment-friendly production processes has reduced the consumption of valuable natural resources.



TCI Sanmar Chemicals LLC

The Sanmar Group acquired Trust Chemical Industries LLC (now TCI Sanmar Chemicals LLC), in South Port Said, Egypt, in March 2007, committing substantial resources to expand its operations in the vinyl chain.

It provides the Group's chemicals business a unique combination of scale, vertical integration and global presence.

Situated at the mouth of the Suez Canal, TCI Sanmar fits neatly into the Group's chemicals business.

The modern plant has production facilities for the manufacture of caustic soda, chlorine and hydrogen and uses environment-friendly membrane cell technology in the production process.

The prospects for scale-up at TCI Sanmar are extremely positive, with projects planned for the production of VCM and PVC. The availability of chlorine and other raw materials, viable energy costs, and easy import of ethylene set the ground for the production of ethylene dichloride (EDC) to feed the production of VCM and subsequent conversion into PVC, both in Egypt and the upcoming Indian facility. The plant's location – only three km from the mouth of the Suez Canal at the tip of the Mediterranean Sea – is a distinctive advantage as it facilitates easy passage of goods. The Group's experience in chemical tanker operations will facilitate continuous VCM transportation from Egypt to India to feed PVC manufacture in India.

TCI Sanmar will be the largest producer of caustic soda in Egypt. The 7% growth per annum in the demand for PVC provides an excellent opportunity to cater to India's domestic and export markets.

With the combined capacities of the Indian and Egyptian facilities, The Sanmar Group will be among the largest 20 producers of PVC in the world.

Sanmar Speciality Chemicals Limited

Sanmar Speciality Chemicals Limited (SSCL) manufactures a wide range of speciality chemicals, and offers contract research services, in separate focused divisions. SSCL's areas of expertise are:

Performance Chemicals: Located at Berigai, near Hosur in Tamil Nadu, the unit manufactures chemicals for flavours and fragrances, resins, polymers and elastomers and intermediates for pharmaceuticals. The business also has expertise in manufacturing complex phytochemicals which it supplies to pharmaceutical customers in Europe and the United States of America.

ProCitius Research: ProCitius Research, with its state-of-the-art facilities, offers world class services in contract research and custom synthesis. It has an impressive track record with major pharmaceutical and chemical manufacturers in Europe and the United States of America.

Respect for IPR

Sanmar has an outstanding track record of respect for and protection of intellectual property rights. Systems are in place to ensure that the organisation's employees are aware of and participate in the protection of technology.

Research & Development

Each division has a full fledged Research & Development (R&D) laboratory with a pilot plant attached to it to carry out organic synthesis work. These are staffed by eminent research scientists with excellent professional records in their chosen fields.

The R&D teams have successfully worked and implemented various process upgradation methods, developed viable processes for several organic chemicals and absorbed the technology in synthesising phytochemicals in the laboratory and pilot plant as well as at the plant level.

Cabot Sanmar Limited

A joint venture between Cabot Corporation of the USA and The Sanmar Group, India, Cabot Sanmar Limited manufactures and markets Fumed Silica (Colloidal Silicon Dioxide/ Fumed Silicon Dioxide) under the brand name of Cab-O-Sil®. While the basic research in Fumed Silica was undertaken in 1988, the company put up a pilot plant in 1990.

The first—and so far only—manufacturer of the product outside the USA, UK, Germany and Japan, Cabot Sanmar's plant integrates the chlorosilane manufacturing technology of Sanmar and the Fumed Silica manufacturing technology of Cabot in a rare combination of upscaling and downscaling of capacities. It is located at Mettur, near Salem in Tamil Nadu.

Cabot Sanmar manufactures the entire range of untreated grades of Fumed Silica with the surface area ranging from 130 sq. mt. per gram to 380 sq. mt. per gram. With an annual production capacity in excess of 1,000 tons, it has a significant domestic market share. It also manufactures certain treated grades of Fumed Silica.



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