



**Chemicals**



*Chemplast Cuddalore Vinyls Limited, Tamil Nadu.*

## Chemplast Sanmar Limited

Chemplast Sanmar – over fifty years old and the flagship company of The Sanmar Group – is a major manufacturer of Speciality Chemicals such as Specialty Paste PVC resin and Custom Manufactured Chemicals for agro-chemical, pharmaceutical and fine chemicals sector. The company also produces other chemicals such as Caustic Soda, Chlorochemicals, Hydrogen Peroxide, Refrigerant gas and Industrial Salt. The manufacturing facilities are located at Mettur, Berigai and Vedaranyam in Tamil Nadu and Karaikal in the Union Territory of Puducherry.

The Chlorochemicals division of Chemplast, a result of backward integration by the Group, manufactures a wide range of products using a highly integrated manufacturing process.

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

All this makes Chemplast one of the most integrated chemical plants in the country with a closed manufacturing loop.

Chemplast has 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.

Chemplast Sanmar is a pioneer in Zero Liquid Discharge. The Group has always believed in investing in the best technology available at any given point of time. In September 2009, Chemplast became the first chemical manufacturer to achieve 100% ZLD in all its manufacturing plants. Sanmar plays a responsible role in water conservation, with none of its coastal plants drawing any water from the ground. These plants rely entirely on converting seawater by means of contemporary desalination technology.

## Custom Manufactured Chemicals - Chemplast Sanmar Limited

Custom Manufactured Chemicals manufactures a wide range of speciality chemicals (Advanced organic intermediates and Phyto Chemicals), leveraging its competencies in chemistry and performance chemicals.

Located in Berigai, near Hosur in Tamil Nadu, the organic chemicals unit manufactures organic intermediates for pharmaceutical and agrochemical majors. The phytochemicals business has expertise in manufacturing Active Pharmaceutical Ingredients (API), which it supplies to pharmaceutical customers in Europe and the US.

The company occupies a niche in the manufacture of speciality chemicals, leveraging its cost competitiveness with developed nations. This custom manufacturing business addresses specific and complex customer needs. The company's products have found acceptance among quality conscious clients in the US and Europe.

Cover Photo: *Chemplast Sanmar, Mettur, Tamil Nadu.*



### Respect for IPR

Sanmar has an outstanding track record of respect for and protection of Intellectual Property Rights (IPR). 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, pilot plant and plant.

## Chemplast Cuddalore Vinyls Limited

A wholly owned subsidiary of Chemplast Sanmar Limited

The commissioning of a 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 3,00,000 tons, the largest chemical project to come up in the state of Tamil Nadu for well over a decade. Chemplast Sanmar's and CCVL's aggregate capacity of 3,66,000 tons makes Sanmar one of the largest PVC players in India.

## 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.

CAB-O-SIL® Fumed Silicas are free-flowing powdered products available in untreated and treated grades. They are very versatile and used in a variety of applications, ranging from spark plugs and printing inks to pharmaceuticals and cake mixes. CAB-O-SIL's versatility is related to its high degree of purity and amorphous structure, both of which lead to excellent performance.

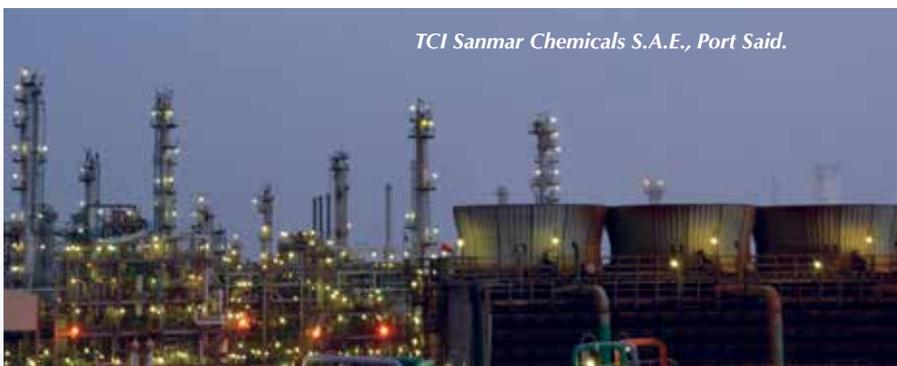
Cabot Sanmar is the only manufacturer of Fumed Silica in India. Cabot Sanmar's plant integrates the chlorosilane manufacturing technology of Sanmar and the Fumed Silica manufacturing technology of Cabot in a rare combination of upscaling and downscaling of capacities. It is located at Mettur, near Salem in Tamil Nadu.

Cabot Sanmar manufactures the entire range of untreated grades of Fumed Silica with surface areas ranging from 130 sq. mt. per gram to 380 sq. mt. per gram. It has a significant domestic market share. It also manufactures certain treated grades of Fumed Silica.

## TCI Sanmar Chemicals S.A.E.

The Sanmar Group is the largest Indian investor in Egypt — through a 100% owned company, namely TCI Sanmar Chemicals S.A.E., with its state-of-the-art chemical manufacturing facilities located at Port Said. The Group's journey in Egypt started 2007.

TCI Sanmar has so far invested around USD 1.5 billion in creating world class facilities to produce 275,000 MT per year of Caustic Soda, 400,000 MT per year of Vinyl Chloride Monomer (VCM), 400,000 MT per year of Poly Vinyl Chloride (PVC) and 60,000 MT per year of Green Ethylene. These capacities are the biggest thus far in the entire MENA region. TCI Sanmar also operates a Zero Liquid Discharge plant, the first of its kind in Egypt.



*TCI Sanmar Chemicals S.A.E., Port Said.*

In Phase-II, additional investment to the extent of USD 280 million to double the PVC capacity from 200,000 MT to 400,000 MT per annum and also set up a 130,000 MT per annum plant to produce Calcium Chloride granules was taken up. The total investment of The Sanmar Group in Egypt is USD 1.50 billion, which is the largest from India in the chemical sector.

Besides providing direct and indirect employment to around 3000 persons, the company's products sold in the domestic market substitute imports and thus save foreign exchange outgo substantially. Also export of both Caustic Soda and PVC and Calcium Chloride granules will fetch much needed dollar inflow for the country. Further, true to its role of a responsible corporate citizen, TCI Sanmar Chemicals involve itself in a number of CSR activities, thus playing a positive role in the economic upliftment of Port Said.

### **Chemplast Sanmar Limited**

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