



**BESTEN**<sup>®</sup>

## CLIENT CASE STUDY



**Global leader in Flavors & Fragrances wants to increase production capacity meeting statutory regulations and low cost**



## About International Flavors & Fragrances

International Flavors & Fragrances is a \$8 billion market capital company and global leader and creator of flavors and fragrances used in a wide variety of consumer products with sales, manufacturing and creative facilities in over 30 Countries.

## Project Summary

**Project:** Manufacturing plant for Flavors and Fragrances.  
**Location of the Project:** SIDCO Industrial Estate, Thirumudivakkam, Chennai for the manufacture of fragrances.  
**Land Area:** 1 Acre  
**Built-up Area – Factory Buildings:** 2500 Sq.Mtrs



### Challenges

Need a design to increase the production several times than targeted at a very economical cost



### Solution

Holistic design solutions



### Impact

Increased production through-put, saved huge amount of investments. Met the challenges 100%

# ABOUT THE PROJECT

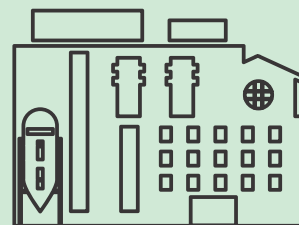
"The project was highly successful in meeting the set goals that IFF asked Besten to implement the same strategy for the flavor manufacturing plant at St. Thomas Mount, Chennai which was also completed subsequently"

IFF India Pvt. Ltd was manufacturing fragrances in this plant for quite some time. IFF wanted to increase the manufacturing capacity of the plant without increasing the constructed area due to statutory limitations of the allowed built-up area. The plant was already brimful with inward and outward storage, manufacturing equipment and factory office. The only option was to re-engineer the total manufacturing process and the plant layout to try and see whether increasing the production capacity is if at all possible.

Besten closely worked with the projects and operations division of IFF and carried out the complete design & detailed engineering to create a benchmark project at a very economical cost to increase the production several times than targeted at a very economical cost.

## BESTEN SOLUTION DELIVERY

- Master Planning
- Structural Design
- Building Rehabilitation
- MEP Design
- Detailed Engineering
- Plant and Process Re-Engineering
- Process piping
- Instrumentation
- Laid Down Drum Rack Systems
- Cold Storages
- Hot Rooms
- Solvent Storage
- CIP Systems
- Material Handling Systems
- Procurement and Tendering Support
- Statutory Approval Drawings and Documentation for Local Authorities and PESO
- Utilities and Services
- Compressed Air
- Electrical System
- Effluent Treatment
- Sewage Treatment
- Air-conditioning
- Raw Water Collection, Storage, Treatment and Distribution System
- Rainwater Harvest System
- Process Ventilation System
- Fire Risk Management System



## BUSINESS IMPACT

Direct Cost Savings were recorded.

Standards and accredited conformity designs helped IFF achieve cost savings in all areas of business such as purchasing, production, sales, R&D, quality assurance, environmental protection and occupational health & safety.

Customer appreciated Besten's holistic design capability and also acknowledged the capability and implementing sustainable principles in building their project.

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**IMPLEMENTING  
SUSTAINABLE  
PRINCIPLES IN  
BUILDING THEIR  
PROJECT**

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## ABOUT BESTEN

Besten is a 25 years old design house specializing Industrial designs, Industrial factory layouts and production plants.

As design specialist for Industrial architecture, our industrial design solutions cover green energy design, lean manufacturing and robotic productions.

Besten provides innovative design solutions to both green field and brown field industrial projects for optimised design, save cost and increased production capacity.

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