



CLIENT CASE STUDY



Global leader processed beverages manufacturer wants to increase production by expansion of the existing facility



About Parle Agro

Parle Agro, a pioneer in the Indian beverage industry, has been creating innovative products and iconic brands since 1985. Headquartered in Mumbai, with over 4000 employees, Parle Agro is the largest Indian beverage company.

Project Summary

Type of Project: Brownfield Project
Objective: Revamping and expansion of the existing facility.
Location of the Project: Pashymylaram, Telangana.



Challenges

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



Solution

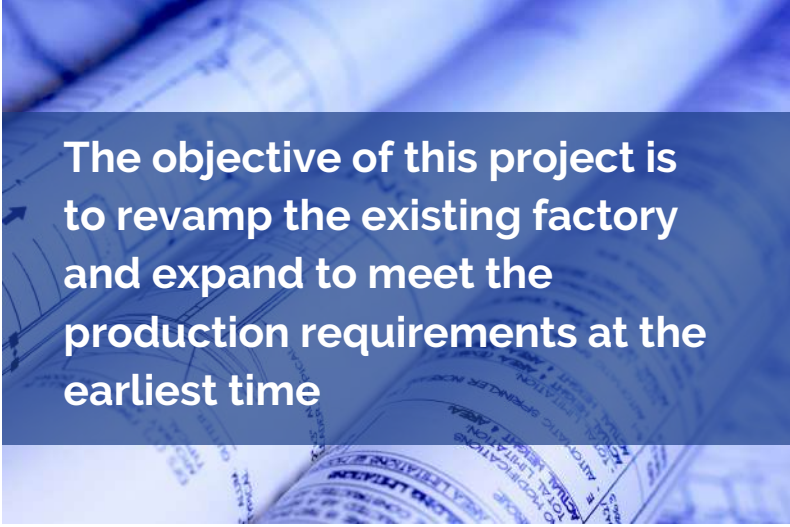
Holistic design solution: An integrated design practice covering all engineering



Impact

Design that helped to achieved production performance with a sustainable facility

ABOUT THE PROJECT



The objective of this project is to revamp the existing factory and expand to meet the production requirements at the earliest time

SOME HIGHLIGHTS OF THE PROJECT

- Shifting of the fire pump house and fire water tank to a new location
- Shifting of the diesel storage tank to a new location
- Constructing a new water storage tank with two compartments, one for raw water and other for recovery water from water treatment plant
- Construction of a treated water storage tank : the location of the same is near the present UG sump. Construction will be done after demolition of the UG sump
- Construction of the Administration and Amneties block: a two storeyed RCC building. The Ground floor has been designed to accomodate the worker's amenities and canteen and the first floor is to accomodate the admin block.
- Utility Block: A PEB building of approximately 900 Sq.Mtr to accomodate the utilities and machinery, existing and proposed. The building is designed for 3 rolling shutters on the rear side and one on the plant side.
- Warehouse Expansion: the existing warehouse is being expanded and designed without any columns in the entire area.
- Process Rooms: with specific requirements
- Transplanting the trees to a new location
- Combi Room with Walkable false ceiling, PUF panel partition with look through glasses, U-crete flooring
- Secondary packaging Area: with VDF Flooring
- ETP & STP
- NABB Room & Shelf Life Room: to be accomodated on the first floor of the existing building
- Foundation for DG set & Transformer
- Repair and water proofing of RCC Slab and construction of First floor with PEB
- The entire project has been planned with minimum disruption of the existing production process. The design is compliant with cGMP practices.

BUSINESS IMPACT

Direct Cost Savings were recorded on design. Standards and accredited conformity designs helped Parle achieve cost savings. Besten Consultants could provide a sustainable design solutions through integrated **holistic design thinking** by bringing together all the building designers and technical expertise needed to shape a new manufacturing facility for Parle and support the production plan. Moreover, we could provide a design with energy-efficient systems and low-carbon materials.

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**IMPLEMENTING A
 SUSTAINABLE
 DESIGN SOLUTIONS
 THROUGH
 INTEGRATED
 HOLISTIC DESIGN
 THINKING**
 ”



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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