



CLIENT CASE STUDY



Global manufacturer largest manufacturer of Automotive Tyre Tube Valves want to expand production



About Triton Valves Limited

Triton Valves Limited is one of the oldest and the largest manufacturers of automotive Tyre tube valves, valve cores and accessories for all sizes of vehicles in India.

Project Summary

**Project: Revamping and Expansion of Manufacturing Facility.
Location of the Project: Belavadi Industrial Area, Mysore.
Land Area: 15 Acres
Total Built-up Area: 24000.00 Sq.Mtrs**



Challenges

Major overhaul of a 35 yrs of site for revamping and expansion, design to increase production



Solution

Delivered a single-view holistic design that covers expected production capacity



Impact

Increased production capacity, saved huge amount of investments

ABOUT THE PROJECT



Triton Valves was looking to expand its production and business volume by at least two times within a year timeframe. The target was to review and optimize the process, space, utilities, services and other infrastructure with the final outcome being increased production at optimised cost. Major overhaul of the entire site operations was envisaged since the site was about 35 years old.

Considering the complexity of requirements, Triton realised that they need the services of an engineering company who could deliver high added value on technical level and offer flexibility and versatility of solutions.

Triton appointed Besten to carryout Architectural Design, Detailed Engineering and to provide Construction Project Management Services for the proposed revamping and expansion project.

SOLUTION DELIVERY

The project team of Triton and Besten established project goals and strategized methods to achieve them from the very beginning, respecting and preserving the allocated budget.

The entire space allocation of the site was redefined, buildings and spaces which does not find synergy with the new scheme were demolished, new buildings were designed and constructed, traffic plan for the site found a total overhaul, boundary wall, parking and entrance gates were reconstructed as part of efforts in creating great synergies in the entire operation of the site.

CUSTOMER QUOTE

I would highly recommend Besten as one of the best engineering consulting companies we have worked with. They raised the bar very high. Our project team also learned many practical and critical areas from them which we still apply in our company!

Managing Director, Triton Valves

The electrical and mechanical utilities went for a complete redesign. The utilities and services, which were scattered were brought in to one location and centralised. The underground utilities and cables were dug out completely and rerouted through overhead racks. The electrical system was brought under power management control system with individual metering for each section.

BUSINESS IMPACT

The entire manufacturing operation was set up according to the new layout as per the lean manufacturing model.

The project not only achieved the targeted production capacity, but also reserved enough space and infrastructure to cater for additional production capacity without any major additional investment on infrastructure.

The great success of the team work reflects in the fact that production was never stopped even for a day during the execution of this major revamping and expansion project.

**LEAN
MANUFACTURING
MODEL
TARGETED
PRODUCTION
CAPACITY**



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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