



The Schindler Group from Switzerland is the largest manufacturer of escalators wanted a green-certified and sustainable manufacturing facility



About Schindler India

Schindler India Pvt Ltd is a wholly owned subsidiary of Switzerland based Schindler Group. They manufacture escalators, elevators, moving walkways in many types of buildings including industrial, residential, commercial and high-rise buildings.

Project Summary

Project: Schindler wants to set up a green-certified manufacturing facility for escalators in line with their other facility in the premises.

**Location of the Project: Chakan, Maharashtra.
Proposed Development Area: 16.00 Acres**



Challenges

Special purpose floor hardness, Dust proof floors, Green building and with maximum energy saving



Solution

An end to end design support to meet the total requirements was provided on time with global design standards.



Impact

Project delivered on time as per plan with unique and vibrant work spaces

ABOUT THE PROJECT



About the Project: Schindler India Pvt Ltd (SIPL) wanted to set up a green-certified manufacturing facility for escalators in line with their other facility in the premises. The escalator facility is a separate business unit in the Schindler premises. They have planned in 2 phases with the first phase covering 12.35 acres. Other than the site infrastructure, the present phase has 3 buildings- the main building, the scrap yard and the utility building. The main building covers about 12861 Sq Mtrs including a Mezzanine floor. The floors are designed to meet the specific requirements of the process. Superflat floors meeting DIN 15-185 has been designed to minimise joints and joint edges.

Floor hardness has been designed suitable to bear the escalator manufacturing process and trolley loads. Dust proof floors with easily cleanable surface has been provided to suit their needs. Day-lighting has been provided to minimise use of lighting during day. Ridge vent helps in air-circulation and providing an ambient temperature to the workforce. The mezzanine floor is for offices, pantry, rest rooms and lockers. The scrap yard is a PEB building for keeping segregated waste of the production. The utility block is a PEB building for accommodating the utilities like electrical panel, compressor etc.. The stock yard area is an open area with EOT cranes and street lighting. This area is for stocking finished goods. The dispatch area is lined with paver blocks suitable to bear the requirements.

The process requirements of an escalator production necessitate a superflat floor. A high performance floor has been designed to suit their needs. The STP and ETP is to be connected to the STP and ETP plants of the elevator facility. The FRMS is designed for the facility with the pump house shared with the Elevator SBU



BUSINESS IMPACT

Provided optimised designs with easy service, maintenance. and completed as per planned schedule.

With very high standards for sustainability across the entire project, the outcome is a structure which is able to offset 60-65% of energy use. All design decisions are put together together and integrated into a one holistic solution by team of Industrial Architects organized team empowered to fix priorities

**“PRO-
ENVIRONMENTAL
GREEN BUILDING
STANDARDS”**



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.

For more information - roshini@besten.in

The images provided here are not real, but representative