

Superior Solution sets a Benchmark for Indian Warehousing Industry

Tata BlueScope Building Solutions builds India's first Free Trade and Warehousing Zone at Panvel, Navi Mumbai for Arshiya International Ltd.



Location	: Panvel, Navi Mumbai
Country	: India
Project Size	: 50,756 sq.mt
Client	: Arshiya International Ltd.
Products Used	: BUTLER™ BUILDING SYSTEMS

Arshiya International Ltd., the flagship company of Arshiya Group

Arshiya International Ltd. is an integrated supply chain and logistics infrastructure solutions provider having its headquarters in India. The company has operations in the logistics and supply chain management space and is currently involved in creating and pioneering logistics infrastructure across India with a phased investment of approximately USD 1.6 billion.

Arshiya International's Free Trade and Warehousing Zone (FTWZ) Project

The visionary project aims at creating FTWZs in India, which will give the country the much needed impetus to drive its economic growth to the next level, while truly leveraging the nation's vast domestic market. Towards this goal, Arshiya International appointed Tata BlueScope Building Solutions as a partner to develop FTWZs that will be located at strategic locations in India, with a total area of building 81,776 sq.mt. The project at Panvel (Near Mumbai) was the first to be completed.

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A Reliable Partner to set a Benchmark Project

Arshiya International Ltd. evaluated the credentials of various Pre-engineered Steel Building suppliers in India on critical parameters of this project. Arshiya International was convinced that there can be no better partner than Tata BlueScope Building Solutions to help build this pioneering logistics infrastructure.

Tata BlueScope Building Solutions, a business division of Tata BlueScope Steel, is committed towards the overall growth of the metal buildings industry in India. Tata BlueScope Building Solutions always takes pride in staying ahead of the market and leverages the global expertise of our BUTLER™ brand to cater to the unique challenges of the metal buildings sector.

Scope of Work for the Panvel Project

The scope of Tata BlueScope Building Solutions included design, manufacturing, supply, project management and erection of the five BUTLER™ Buildings at Panvel by using the highest quality of materials and proven technology.

On-time delivery, leak-proof roof, better aesthetics as well as a functionally superior solution with low cost maintenance needs were the key needs of Arshiya International Ltd.

An Architect's Expression



Challenges

The Arshiya team wanted an aesthetic and functionally superior structure, which was aimed to deliver a higher value to their customers. The key challenges of the project were:

1. A large column-free area for efficient warehousing operations
2. Two levels of mezzanine floors for storage of high value and perishable goods



Solution Offered

For this challenging project, Tata BlueScope Building Solutions recommended BUTLER™ Building Systems, which comes with MR-24® roof system warranted for 10 years leak proof performance.

The buildings have a bold architectural form that has been exclusively designed for Arshiya International Ltd. The solution proposed by Tata BlueScope Building Solutions was able to provide superior functionalities that included higher column-free space, two additional levels of mezzanine floors for perishable and high value goods storage, better ergonomic design, etc.

A Benchmark Project in Indian Warehousing & Logistics Industry



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BUTLER™ Building Systems, the globally renowned PEB Solution, was customised taking into account the following functional and operational needs:

Key Needs	Solutions
Large column free area for efficient warehousing operations	To address this key need of Arshiya International, our designers have designed a 'multi-span frame' with central jack beam. The effective span of the jack beam is 24.025 m. The column free area achieved by this solution is 4890 sq.ft. between each module.
Two levels of mezzanine floors	Specially designed multi span frame with two levels of mezzanine floors are designed at the side wall for the full length of the building. The Mezzanine floor is designed with our SMARTDEK® 51 structural decking system.
Leak-proof roof system	360° Double Lock Standing Seam MR-24® Roof System has been proposed with 10 years leak-proof warranty.
High strength structural system	Wide span structural system, with 25 years structural stability certification, has been provided.

Results

1. The use of wide, clear span structure combined with longer, economic bay spacing and jack beam resulted in less number of footings as compared to conventional structural design. This has resulted in higher cost savings in the foundation works.
2. By using superior quality of materials, skilled workmanship and advanced technology employed in the areas of engineering, fabrication, roll forming, project management and construction, Tata BlueScope Building Solutions was not only able to meet but exceed the expectations of Arshiya International Ltd.

Arshiya's Free Trade & Warehousing Zone (FTWZ) at Panvel, is a good example of 'on time delivery coupled with cost effectiveness, bold aesthetics and functionally superior buildings'.

Tata BlueScope Building Solutions is optimistic about the prospects of this partnership and are happy for building a world-class Logistics Infrastructure Project for one of the visionary companies in India.

Commenting on the partnership, **Mr. Ajay S Mittal – Group Chairman & Managing Director, Arshiya International Ltd** said, "We believe that there can be no better partner than Tata BlueScope Steel Ltd. to help build these pioneering logistics infrastructure. Free Trade and Warehousing Zone, state-of-the-art warehouses and our partnership will create a revolution in the way logistics infrastructure is developed and operated in India."

