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STEEL STRUCTURES & METAL BUILDINGS

nerve of steel industry

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STEEL DAY
MUMBAI
2016

MANISH GULATI, Partner, M:OFA Studio

The Architecture here mentally transports man in the midst of the sea. It is the articulation of this temporary yet adventurous moment or a passage in time between the surfers setting foot into the sea to setting foot out of it. The building itself is a take-off point wherein its sole function is to be a transitional link between the man and the sea. Here the Architecture is in constant motion being pulled into the sea from one side yet tied to the shore on the other. The building too is ever changing, rising and falling just like the waves of the sea that twist and knot every surfer into its folds.

FACTFILE

Client: National Institute of Water Sports
Architect: M:OFA Studio
Structural Consultant: DELF Consulting Engineers
Tonnage: 220 Tonnes
Status: Ongoing
Image Courtesy: M:OFA Studio

NATIONAL INSTITUTE OF WATER SPORTS, GOA

Being one of its kind of an Institute in Asia the project has been designed to strive a dynamic relationship between the sports player and the sea through its architectural language and spaces. Commissioned in 2010, through an International level competition organized by NIWS-GSIDC, Goa, the design brief stated the development of National Institute of Water Sports at Miramar, Goa as an Iconic building.

VIVEK RATHORE, Principal, Salient Design Studio

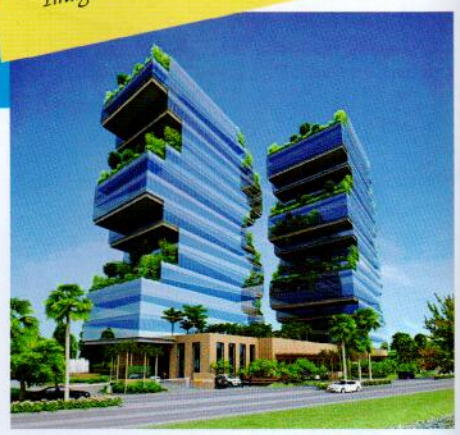
In order to increase the sensible surface area for terraces in each floor, a play in stacking geometry is done involving 8m and 4 m cantilever in alternate floors. To optimize structural performance and built geometry, a composite solution is done with structural steel cantilevers attached to concrete core. This reduced dimensions of structural sections (including diagonal bracings) and provided required transparency to achieve a quality indoor environment apart from terraces for each office. In my learning from this building, our country needs to have building with hybrid structural solution involving structural steel and RCC as it reduces construction time, gives technology for an experimental building geometry, helps in achieving quality indoor space which at times gets affected for structural sections, helps in building cost control in today's sensitive real estate market.

FACTFILE

Client: Pasari Multiprojects Pvt. Ltd.
Architect: Salient Design Studio
Main Consultant: SPA Consultants
Tonnage: 640 MT
Status: Ongoing
Image Courtesy: Eversendai Construction

BIOWONDER, KOLKATA

Biowonder is a movement in balancing the biotic and abiotic processes of a built environment. It is attempt to responsibly address the depleting impact of urban built on the biodiversity health of a city. It proposes a solution to improve the mental/physical health of occupants in a modern building – the biohyllic connect. It is important as around 40-50 per cent of our working population is suffering from SBS (sick building syndrome). The built morphology of the 2 towers (one a city business hotel and the other a corporate office) connected by a green podium responds to the wind and solar advantage.



SHEFALI BALWANI & ROBERT VERRIJT, Principals, Architecture Brio

While a learning pavilion on an outdoor campus for underprivileged children is a very specific program, the pavilion needs to be able accommodate a wide variety of activities such as team building workshops, games, briefing sessions, group discussions, craft classes, raft building and climbing. Access and circulation to two decks on upper floor of pavilion is provided through the hilled topography as well as wooden climbing ladders. The lightweight structure of the pavilion consisting of dark green painted steel columns and a semi-transparent roof allows it to disappear in background. It is designed such that it uses least amount of materials with maximum amount of covered, shaded spaces. The space below the roof is open to all sides. In summer, the shade of roof creates a respite from heat, while natural breeze flowing from river cools the covered spaces.

FACTFILE

Function: Education
Client: Magic Bus India Foundation
Architect: Architecture Brio
Consultant: Vijay K. Patil Associates
Status: Completed
Image Courtesy: Architecture Brio

LAUREUS LEARNING PAVILION KARJAT

Partly a building, partly a challenge course, the Laureus Foundation sponsored Learning Pavilion is an interactive building used as a gathering space and play area for Mumbai's underprivileged children. The pavilion, designed by Architecture BRIO is located on the Magic Bus Centre for Experiential Learning, situated near Mumbai at the foot of the Western Ghats. Magic Bus is an NGO which seeks to educate and mentor children through outdoor 'experiential' learning. The landscape of the Magic Bus Centre is in stark contrast to the daily living environment of most of Mumbai's children. While in space-starved Mumbai, outdoor play areas are hard to get by, the Centre is blessed with a unique variety of diverse terrains to be experienced by the children; rivers, woods, nature trails, camping grounds, and expansive green lawns for soccer. All of which is intended to promote the NGO's concept of 'learning by doing'.