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nerve of steel industry

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**STEEL
CONSTRUCTION
SUMMIT**

a new era in steel construction

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**STEEL DAY
MUMBAI
2016**

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STEEL
STRUCTURES
& METAL
BUILDINGS

MAY 2016



Anniversary

ME & STEEL was just a thought which touched our minds three years back. Never did we expected that this very thought would turn out to become such a platform for the architects and engineers to express their love affair with steel. Years have gone by, and every passing year we try to improvise upon the manner in which we showcase the affair of these talented architects and engineers from our country. Not to forget, international architects too voicing their experience with this wonderful material called steel.

Over the years, this initiative has kind of become a directory of sorts wherein developers find innovative architects who could design their dream, the architects find the efficient fabricators/contractors who could make their design into a reality, the fabricators find the appropriate equipment/machinery suppliers for their plants, the project managers find the variety of suppliers catering to their variety of needs, the steel suppliers, the software solution providers, the spare part manufacturers, and the list goes on and on...

This is perhaps a one stop solution guide if you are involved in steel construction in any which ways. Year after year we manage to bring those new entrants who are competing with the old horses in their own small way. The aim of this initiative is to showcase the industry with the various options that they could explore with, the proven stalwarts, the new entrants and many more. If you need to know the experts in steel, here it is... Linked.By.Steel

Avneet Singh
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JAY SHAH, Director, Access Architects

Since the building is located in Central Mumbai, rehousing existing tenants for longer period in a nearby location would be expensive for the client and the tenants. Hence, we proposed constructing this building in steel. Fast track construction was of utmost importance to the client, and hence, they readily agreed to do this in steel. The construction sequence is managed such that 65 per cent of the building is already up with steel framing up to 3 floors, and remaining 35 per cent of plot is utilized for staging and logistics. The shell of the building is scheduled to be completed in 6 weeks after the basement is complete, with a total timeline of just 6 months to complete the full building. Steel is one of the most sustainable construction materials.

EARTH CLASSIC, MUMBAI

The building proposed is a 7-storey residential building with a basement for services. There is also a vertical mechanical parking tower proposed which abuts the residential tower by creating a niche in the floor plan. The building facade needs to reflect some of the history of its surrounding. The floor plan has four apartments per floor with a service core and parking tower. The building has an atrium in the center which allows the light to flow into the building. The elevation tries to reflect some of the history and context with its classical facade design. The walls are proposed in block work with decorative plaster. This is one of the first steel residential buildings in Mumbai that aims to set a benchmark for other similar buildings in the near future.

FACTFILE

Function: Residential
Client: Earth Builders
Architect: Access Architects
Steel Tonnage: 304 MT
Current Status: Upto plinth
Image Courtesy: Access Architects



RAHUL KADRI, Partner & Principal, Kadri Consultants Pvt. Ltd.

The idea of the convocation hall of the University of Pondicherry was born from the very inspiring energy of the then Vice Chancellor Prof. Tarin. Together, we dreamt of a place that will express the joy of graduating from university, students come together and celebrate their collective achievements marking the important milestone. The Centre is an expression of these thoughts manifest in a variety of ways, distilling it into an iconic form. A lightweight material like steel was incorporated to depict simplicity, accommodate higher volume, depict purity of thoughts and also discover wisdom. Moreover, the expansive span and lightweight design adopted for the roof structure dictated the choice of the material.

FACTFILE

Function: Auditorium
Client: Pondicherry University
Architect: Kadri Consultants Pvt. Ltd.
Tonnage: 280 Tonnes
Status: Completed
Image Courtesy: Kadri Consultants Pvt. Ltd.

PONDICHERRY CONVENTION CENTRE
KERALA

The concept which arose as one approaches the building was that of the rising sun, giving the impression of walking towards knowledge as it spreads out to one and all. The front façade makes use of steel as well. Double height volumes lend a feeling of grandiose to the design. An elliptical, stairway stands suspended in the foyer lending a touch of finesse to the area. This single-flight steel encased stairway is devoid of a landing and conventional column supports as lightness was a pre-requisite. Instead, structural steel pipes that come down from the ceiling have been used and give the staircase a "floating" feeling, which ultimately creates a wonderful amalgamation of impressive aesthetics and finesse. The waist slab (flight) of the staircase is made of RCC-steel composite. These stairs connect the ground level foyer with the balcony level at +9.0m level.



JAYESH HARIYANI, Senior Principal, INI Design Studio

Design of terminal building was an amalgamation of two contradictory influences – the historic & religious heritage of Nashik City and context of HAL's fighter aircraft facility being used for civil aviation. The underlying philosophy has been to resemble age-old arched gateways marking a city's entrance, however, with modern iconicity that transcends into future. The modular geometry simplifies fabrication process and controls construction cost. This dramatic steel structure, thus, efficiently provides long un-interrupted spans and has an inherent monumentality. However, in contrast to this monumental grandeur, use of modernistic materials like steel and glass was proposed to introduce an industrial and futuristic character at the same time.

FACTFILE

Function: Transportation
Client: PWD Nashik + Hindustan Aeronautics Ltd.
Designer Architect: INI Design Studio
Local Architect: P G Patki Architects
Consultant: Damle & Thakur Desai
Tonnage: 250 MT
Status: Completed
Image Courtesy: INI Design Studio

NASIK AIRPORT TERMINAL ROOF

The new Passenger Terminal Building at Ozar Airfield is an initiative by the Govt. of Maharashtra and Hindustan Aeronautics Limited (HAL) to provide civil aviation facility to the city of Nashik. This modestly sized terminal will provide complete Departure and Arrival services for commercial airlines while using the existing airstrip originally built for and used by the Indian Air Force. Man has always endeavored to fly and the birds have been the key inspiration to famous scholars such as Archytas and Leonardo Di Vinci. Drawing upon the visual of a bird's wings in flight, the modular façade of Nashik Airport Terminal Building seeks to capture the same stance and spirit of momentum.

