



Director's Epistle


Arvind Nanda
 Founder Director & CEO

Gautam Suri
 Founder Director & CTO

Thanks & Regards,
 Arvind Nanda & Gautam Suri
 Founder Directors - Interarch Building Products

At Interarch we aim to provide best engineering, manufacturing and execution of heavy and light steel construction solutions for our customers.

We aim to train and mentor our teams and management at the highest levels to ensure best quality of projects to fulfill our customer satisfaction. This year we have revised our quality policy to ensure that all the projects will be delivered in the most efficient manner and we wish to be the preferred choice of our customer.

Interarch Structural Steel for Multi - Level Car Parks

Parking Infrastructure is a very wide area and Multi level car parks are acting as framework for providing the urban construction currently. Congested public areas or areas where the width of the road is as it is very less, multi-level parking structures are the idea solution to a convenient parking system. Steel structure use in multi-level car parks, brings the added benefit of even greater economy of scale and efficiency for construction from the ground up. Steel multilevel car parks are easier to building within congested urban plots, as they require no lay down for any works at the site.

Interarch Multi level car parking system provides a quick and easy to build option using steel framing. Steel allows a lightweight, strong and slender structure, allowing large clear open floor spaces, with minimum floor to floor heights and larger span for easy driving.

- Large clear span and bays can be created as per requirement with minimum wastage of space
- Floor can be designed to take load of car movements
- Optimal use of spaces especially for metros and large cities
- Very low operational and maintenance cost
- Height of floor can be made as per requirement
- Option for ramp construction as well as automation
- Steel Multi level parking is cost effective & well ventilated
- Very low consumption of energy takes place as day light is utilized throughout the day as walls are uncovered



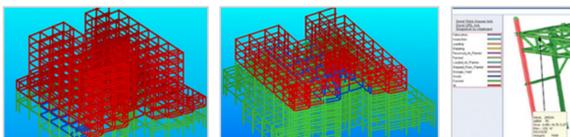
Technology for Building Erection By Vishal Khandelwal, DGM Design Interarch Infrastructure

Interarch uses some of the most advanced software to do 3D modeling and engineering of our structures. By integrating BIM into our standard workflow we increased the efficiency and value of the products without increasing the cost of the product to our valuable customers.

One example is the color coding of the member in the model for erection sequences due to this it becomes relatively simple to share the erection sequences with our project team members and customers. Coloring the model is a part of our standard process and practices and not something for some specific job like power plants and multistory buildings. Using this BIM data, don't increase the cost of the products but it decreases our risks and increases our quality.

The two color-coded building model shown here illustrate the kind of 3D view available using the BIM data.

- Model showing a building before much of the steel erection. Members in red colors are yet to be erected.
- Model of the same building nearing to completion. Members in green color are erected
- With access to model, erection person can get very particular and detailed information for each members and components.



Control Temperature Inside your Building

Insulation material is sandwiched and placed within walls or roof to prevent the temperature exchange from the building to the outside climate. Insulation material are used to keep the building cool when it's warm outside and warm when it's cool outside.



Insulation recommend by Interarch Building Products

Glass wool (fiberglass)

- It is made from melted glass spun into a flexible mat of fine fibers
- Available in low densities and roll form with the reflective vapor barrier for convenient installation under metal roofs
- Excellent Compressibility

Rock wool

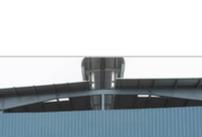
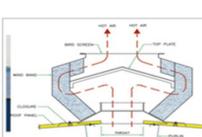
- It is made from mineral rock melted at high temperatures and spun into a mat of fine fibers.
- Available in higher densities
- Suitable for double skin roofing or roofing requiring walkable insulation

Turbo Ventilators - Turbo ventilators use the support of the wind outside and the heat being generated from inside. Wind creates a flow of air through turbine to enhance extraction. Turbo ventilators exchange the air from inside to outside.

Ridge Ventilators - A ridge vent is a natural gravity ventilator installed at the peak of a sloped roof which allows warm, humid air to escape a building's attic. Ridge vents are most commonly used as a supplementary ventilation system in industrial building

Paint - The most harmful chemicals found in paint are Volatile Organic Compounds, or VOCs. VOCs are unstable, carbon-containing compounds that readily vaporize into the air. When they enter the air, they react with other elements to produce ozone, which causes air pollution and a host of health issues including breathing problems, headache, burning, watery eyes and nausea. Thus, Interarch uses Low VOC paints, which use water as a carrier instead of petroleum-based solvents. They contain reduced levels of VOCs, which emit smog producing pollutants into the air. This zero or low VOC paint has many benefits like

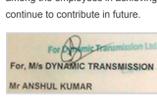
- Environment friendly, as there are lower levels of ozone pollution
- Fewer emissions of smog-forming chemicals
- Better indoor and outdoor air quality
- Allergies or sensitivities to these paints is uncommon
- Ideal for commercial applications, and offer excellent scrub ability
- Quick Drying
- Low Odour
- Non-yellowing
- Increased UV resistance, flexibility



Roof Monitor - A roof monitor consists of a flat roof section raised above the adjacent roof, with vertical glazing on all sides of the raised bay. This arrangement can provide daylight in all directions, thus using more on natural lighting. Roof monitors also permit structural openings and support to provide fixity for forced ventilation systems when the number of air changes/hour required are high.

Customer Testimonial

We appreciate your dedication & significant efforts to promote high standards of competence & compliance for occupation health & safety. This has contributed towards creating safety awareness among the employees in achieving the organization goal of "Zero Accident". We hope you will continue to contribute in future.



Project Management Tip - Proper Erection of Rafters

Assembly of Rafter Segments

- The segments of rafter are shifted from stacking yard to the required position of erection.
- With the help of Erection part mark drawing the rafter Segments are assembled on the ground
- The high tensile bolts are used for connecting the segments of the rafter. The quality manager at site ensures that specified torque and its limits are followed by the erection team as per torque table issued by the Designer
- All fixtures such as purlin clips flange braces are fixed to the rafter at ground which helps in easy alignment of the structural member after erection and also in saving time of man lift equipment's.
- Guy ropes are used as temporary supports for the rafter before fixing of its secondary members. These steel ropes are also fixed to the rafter before erection of rafter.

Erection of Rafter

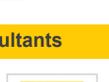
- The position of lift of the rafter is also designed by studying the bending moment diagram of the assembled rafter.
- The crane load carrying capacity during the lift of rafter is studied and higher load carrying capacity cranes are used for erection of rafter.
- The erection manager at the site is the controller of the lift of rafter, operating the entire lift with single signal man.
- Lift the rafter gradually and place it with the help of cranes with proper guy ropes.
- End of the rafter should be hold with temporary bracings from ground; it will help to connect the rafter with column connection at both ends
- Hold the rafter in place until it is securely bolted to the column with the help of boom lifts. Temporary bracings are installed to hold the assembled frame in place
- Temporary bracings should be tightened with same tension on opposite sides
- The alignment of rafter can be adjusted using the tested and certified turnbuckles which are fixed in the Guy Ropes tied to the heavy concrete blocks
- After stabilizing the rafter with all its connections and Guy Ropes the cranes can be released for the immediate lift of the next Rafter.



Industry Spokesperson - S.R. Patil Architects & Consultants



Mr. S R Patil a civil & structural engineer is the principal architect of SR Patil Architects & Consultants, which was established by him in 1965 as a Structural Design firm. The firm got affiliation from Indian Institute of Architecture and Council of Architecture in 1972. He started architectural designing and became member of Structural Designing of India. The firm has been holding the expertise in offering engineering & designing, leveraging upon the proficiency of experts, and gained competency in technology, construction, and engineering.

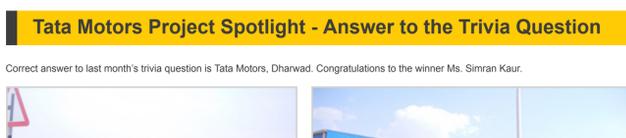


According to Mr. S R Patil the size of the PEB industry in state will grow as PEB has a wide scope in future industrial architects, major consultants are aware of what PEB actually is, thus the size of steel buildings sector in Maharashtra region will raise.

Further he says, **Green Buildings** in India has positive upcoming scope as people now are much more smart and intelligent who prefers green buildings. People are considering the advantages and sustainability of green building that is why we can say that green building market is lucrative in the coming years.

Tata Motors Project Spotlight - Answer to the Trivia Question

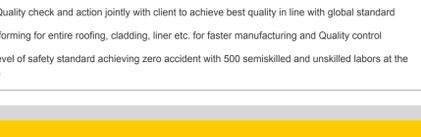
Correct answer to last month's trivia question is Tata Motors, Dharwad. Congratulations to the winner Ms. Simran Kaur.



Project Name	TATA Motors Ltd.
Building Location	Dharwad, Karnataka
Building Usage	Manufacturing Facility
No. of Buildings	11
Tonnage of building	5400 MT
Roofing Supplied in MT	83,000 Sq. M
Value of Project	86 Cr.
Area of Project	72,000 Sq. M
Manpower deployed	500
Project Features	<ul style="list-style-type: none"> • Complete factory was designed and manufactured under the norms of Green Building • Multilevel mezzanines with heavy collateral load for paint equipment installations • IS-1984 designed building structure with heavy collateral loading to meet all manufacturing and MEP support needs • Regular Quality check and action jointly with client to achieve best quality in line with global standard • Site rolls forming for entire roofing, cladding, liner etc. for faster manufacturing and Quality control • Highest level of safety standard achieving zero accident with 500 semiskilled and unskilled labors at the peak time

New Project Wins

- Tata Marcopolo Motors Limited, Karnataka
- Siemens Ltd, Andhra Pradesh
- Mahindra Two Wheelers Ltd, Madhya Pradesh
- Track Components Ltd, Karnataka
- Toyota India Ltd, Rajasthan



Interarch In Press

- B2B Purchase
- BGS Architecture
- Construction Week
- Construction World
- NBM & CW
- CE & CR
- SSMB



Projects Completed

- Panasonic India Pvt. Ltd., Haryana
- Groz Engineering Pvt. Ltd, Uttar Pradesh
- Severn Glocon India Pvt. Ltd., Tamil Nadu
- Musashi India Pvt. Ltd., Karnataka
- Pithampur Tools Pvt. Ltd, Madhya Pradesh



Trivia Question of the month

Q. In year 2007 which company presented Interarch with "best EHS practices certificate", for achievement of 1.36 million safe man hours?

- Asian Paints India Ltd.
- Essar Steel Ltd.
- Fiat India Automotive Ltd.
- Tata Motors

Events

Interarch recently participated in Roof India Exhibition 2013, held at Bombay Exhibition Center from 24 May'13 - 26 May'13.



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