



INTERARCH Building Products

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Newsletter



Director's Epistle

Dear Readers,

This Newsletter will cover a case study on one our flag ship projects won in the 2011 from TATA Motors Ltd, which is now almost under completion. You will understand the how Interarch has been able to deliver such a complex building.

We hope this issue of the newsletter is informative for you. Please feel free to mail us back your feedback and suggestions on the newsletter, in order to help us get better.

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

Quality at Interarch

Interarch puts more focus in providing the best quality product to the customer than any company in the industry; some of the quality practices followed by Interarch which has led to continuous improvements in processes, procedures and products are as follows:

- Quality Check during Manufacturing**
- All products meet the national and international standard requirements.
 - To ensure quality, all products are passed through stringent quality checks in all the stages of manufacturing.
 - An established quality management system which continuously seeks to improve itself satisfies the relevant national and international quality management system requirements. For e.g. BS.EN.ISO 9001:2000
 - High quality welding process and technology are used. Non destructive testing on welding joints is carried out. Only branded and reputed consumables are used for manufacturing
 - Source of material is certified to ensure consistency in quality. Materials are procured from reputed suppliers and manufacturers and full traceability is maintained
 - A product which comes out of Interarch Factory is a stamp which represents Interarch's commitment to quality. It is backed by years of research and development with the most modular equipment and stringent quality checks at each stage of production



Pre-Engineered Building Components: Mezzanine & Multi-level system

Mezzanine floors are the most cost effective solution to utilize your building's space and it can be designed to support normal office traffic, or heavy machinery for industrial use. Interarch can customize the mezzanine floors to each specific need as required, major applications are listed below:

- Storage platform
- Office space
- Workshop area

Multi-Level System
Steel by its virtue, is economical and provides great mechanical functionality; it permits the design of structures which are graceful, light and airy; it streamlines construction site processes; and offers rapid execution. A major advantage, however, is the infinite freedom for creation which it affords the architect. The combinations of different products lend themselves to rich and varied types of construction.

Peeping into the present trends of building construction in India, we see that particularly in metro cities, horizontal construction has been put on restriction. Lack of space due to exponential rise in population in urban areas has not only given space to vertical growth of building construction but also stresses on the fact that the construction has to be faster. Thus, developers have looked up to the sky to make their profits. The result is multi-storied buildings, as they provide a large floor area in a relatively small area of land in urban centres.

Steel framed construction is a very popular structural form for multi-storey buildings as it provides great flexibility. Modern steel framed buildings are designed on the principle of the structure as an independent load bearing frame carrying both vertical and lateral loads down to the building foundations. This form of construction enables the creation of large column-free internal spaces which can be divided by interchangeable partitions. Also, by eliminating the external wall as a load bearing element, it allows the development of large window areas, curtain walling and cladding systems. Applications are listed below:

- Commercial office buildings
- Multi-Storey Residential Building
- Hospitals
- Shopping centers & Malls
- Multi-level car parking
- School or college building
- Hotel Building



Case Study

First Green Automotive Manufacturing Plant Built by Interarch in India for Tata Motors Ltd



| | |
|-------------------------------------|---|
| 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 |
| Area of Project | 72,000 Sq. M |
| Manpower deployed | 500 |
| Important Feature of Project | <ul style="list-style-type: none"> Complete factory will designed and manufactured under the norms of Green Buildings Multi-level 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 roll 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 labours at the peak time. |

Testimonial

To facilitate the manufacturing of large size casting valves, a manufacturing shed was proposed to carry out the whole process in single stroke. A Pre Engineered Manufacturing Shed was suggested and considering its advantages over conventional sheds, the designated work was awarded to M/s Interarch Building Products Pvt. Ltd. They have completed the whole job within designated time limit and as per quality standards assigned to them. We wish them the best for their future.

For, Kushabh Consultants
K. C. Bellani
(Partner)

Interarch In Press

- INC India's, March Edition
- Times Journal, March 01, 2012



Major Project Wins of Pre-Engineered Buildings

- Reckit Benckiser, Uttarakhand
- Hanung Toys & Textiles Ltd, Uttar Pradesh
- Ravilla Precision Engineering Pvt Ltd, Tamil Nadu
- Revive Realty Ltd, Maharashtra
- Carrefour India Pvt Ltd, Uttar Pradesh
- AMP Motor Pvt Ltd, Haryana

Award & Recognition Won by Interarch

- Safety Award presented by Asian Paints Ltd for ensuring safe and healthy working environment at site



Training at Interarch

Interarch executed training for **Engineers, Painters & priming supervisors** for Priming process, coverage area, priming defects & safety during priming.



Interarch buildings are user-friendly, with maintenance free exteriors & matching the latest technology - Surinder Bagha

Architect Surinder Bagha has established architectural organization "Saakaar Foundation" in Chandigarh in 1984. Mr. Surinder Bagha has over 25 years of practical experience in designing and supervision of various types of buildings all over India.



Saakaar Foundation completed a large number of projects which cover an impressive range from religious, educational housing, public, health care, commercial, urban designing and landscaping schemes. Currently Mr. Bagha is the Chairman of IIA, Chandigarh-Punjab Chapter and National Architectural Heritage Committee. Two of the churches designed by the firm were selected for an international exhibition at the 5th Asian Congress of Architects held at Lahore, Pakistan.

He feels that Architects role will change in coming years as green building concept is picking up due to which Pre-engineered buildings concept will popularize and more and more PEB projects will come in the market. As designing engineers are not available easily and there is a lack of awareness in public so they give resistance to accept these PEB structures but this concept will soon become acceptable due to requirement of less labour & fast construction.

Mr. Bagha also emphasized on the fact that pre-engineered building Solutions is a better form of construction as it is hassle free, quickly constructed, designed keeping in mind the wind velocity, earthquake and most importantly the environment.

According to him Interarch buildings are user-friendly, with maintenance free exteriors & matching the latest technology. According to him Interarch is among the top players in the industry in India and he also appreciates the exceptional work done by Interarch at IGI Airport Terminal 3.

He also feels that Interarch will play a crucial role to make this technology reach at grass root level by delivering top projects across India.

CSR at Interarch

The **National Safety Week** was celebrated across all the 03 plants in Uttarakhand to mark its Foundation Day (4th March). The campaign objective was to create awareness on industrial occupational safety, to achieve zero accident rate and provide risk-free environment at workplace. The celebration was started with GM Works (Uttarakhand) Sh. Adarsh Kulkshrestha administering the Safety Pledge to all the Plant Employees. In his address to the workers, the GM exhorted upon the employees to accord topmost priority to Individual Safety and also stressed upon the need to inculcate the HABIT of safety in everyday life. A series of Safety Lectures along with a medical camp were also conducted by the HRD as a part of the campaign.



Building made possible in steel: Ark Hotel, China

The Unbelievable Speed of Steel Building Construction

- 30 Storey Building Constructed In 15 Days!
- hotel is built to withstand a 9.0 earthquake
- Only 1% of the total weight of the building was considered waste material (mainly package materials).
- The project used 6 times less construction materials when compared with other conventional methods of construction. Waste generated by construction was only 1% of the total weight
- Hotel Area: This 17,000m²
- The building is 5 times more energy efficient than structures made of other materials
- The Ark Hotel is soundproof and thermally insulated.



External Source

The tower is designed around a reinforced steel core and uses a tapered steel frame to lock in the prefabricated steel decks for each of the floors. The decks, prepared beforehand offsite, contain all the plumbing, electrical wiring and other ancillaries to enable swift assembly.

The building is clad in 15cm glass curtain wall insulation, while a three-stage air purifying system filters the external air, making it 20 times more pure for hotel residents.



