



**We Don't Supply Buildings.  
We Deliver Projects.**



**Light Gauge Framing System for Mountain Living**

## INTERARCH BUILDING PRODUCTS NEWSLETTER

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### Possibilities of Interarch Pre-Engineered Buildings for Mountain Living:

Interarch provides a customized Life system steel construction solution for the infrastructure development for Mountain living. We offer engineering & design from concept to completion.

We take innovation in engineering and strive to go beyond the realm of conventional construction with our team of leading engineers, quality manufacturing and efficient project handling capabilities.

Interarch Life systems are designed keeping in mind various applications for development of Mountain living infrastructure

Farmhouses, Villas & Cottages	Office Building
Site Office	Hospital & Dispensary
Hotel & Resort	Low Rise Residential Development
School & Colleges	Retail & Showroom Outlets

### Project Spotlight - Club One Estates, Naldehra, Shimla:



Project Location	Naldehra, Shimla
Building Usage	G+4 Residential Building
Project Area	1642 Sq M
Length	23 M
Width	11.9 M
Height	19.8 M
Design Code	MBMA
Collateral Load	25 Kg/M2 load of false ceiling & electrical fitting
Mezzanine Load	Mezzanine area considered having live load of 150 Kg/M2

### Fast Construction & Aesthetic Features:

For hilly regions, construction is always a big challenge due to complexities like difficult terrains, steep gradients, complex geological structure, adverse climatic conditions. The acceptance of steel structure buildings is moving beyond industrial and infrastructure projects, and expanding with construction in Mountain living areas where transporting traditional building material could present a logistical problem.

The main advantages of going with steel structure construction are its cost, ease of assembly, faster construction, fire resistant, architectural flexibility, single point responsibility for design to execution, aesthetic view, green building along with high durability, strength and stability of the buildings.



In addition, steel structure buildings also have some environmental benefits. Steel is a reusable resource and steel frames can be erected in environmentally sensitive areas with minimal impact. It is interesting to point out that lightweight steel-framing systems offer similar environmental performance over the life of the product to that of conventional double-brick construction techniques. The steel frame walls are load bearing and thus eliminate any need of wet masonry work on site. It is also estimated that steel framing saves up substantially on building costs, mainly owing to reducing construction duration and eliminating a large portion of inefficient site labour.

This is very versatile building systems and can be finished internally to serve any functions and accessorized externally with various types of fascias, canopies, and curved eaves to achieve attractive and unique designing styles. Steel Structure building sets new global standards with their aesthetic appeal, exceptional functionality and extreme durability.

### Industry Spokesperson - Mr. Sandeep Srivastava, (GMR Group)

GMR Group is one of the fastest growing infrastructure enterprises in the country with a rich and diverse experience spanning three decades. GMR has been developing projects in high growth areas such as Airports, Energy, Transportation and Urban Infrastructure.

Mr. Sandeep Srivastava is heading the procurement department at GMR with an experience of over 18 years in Procurement & Contracts and Commercials for Domestic as well as International Projects. He had completed his Engineering in Mechanical from NIT Kota and PGD in International Business from Symbiosis.



As per him, light buildings are playing a major role in our country today, be it industrial or residential sector, these developments can be seen in urban cities and even in Hilly areas. The construction of Hotels, Resort and Villas in hilly areas is a big challenge, due to project execution in remote locations, challenging weather, poor road conditions and high construction cost due to scarcity of labor's. In the development of any project, proper designing and selection of material helps in time management.

Steel structures are more flexible towards these challenging situations faced during construction in hilly areas and Light building system and Hybrid structure are high in demand. These structures have advantages like clearer span, no fabrication at site, better site management, and aesthetic finishes.



Mr. Srivastava feels that the renowned agency must be hired for better project management as there are lots of challenges related to design of Civil & Steel structure, considering seismic zone and wind speed and better on site management. He adds Interarch constructed multiple building for GMR at a remote location in H.P. Buildings like an Officers residence colony, Guest Houses, Project offices, Dispensary, etc were constructed for "GMR Bajoli Holi Hydropower Private Limited" (GBHHPL) project. The work done by Interarch was very satisfactory and timely finished. Major challenges like difficult terrain, adverse weather conditions and logistics issues of this high altitude project site was overcome with ease due to proper planning and execution

On focusing fire safety of the building, he suggests that fire paints or Fire Detection and Protection System (FDPS) must be used for steel structure building to make it safer. As per Mr. Srivastava, there are certain advantages of using Steel structure over RCC building like faster construction, Low carbon footprints, more floor area is available as sections dimensions are less, dust free construction, better quality control and recyclable material. For construction of any new development of Farmhouse, Villas and project office, Hybrid structure is most convenient as they are light in weight with equal strength and high end exterior and interior finishing can be achieved through high durable gypsum and cement boards.

### Safety Practices to be followed at site during maintenance:

Safety measures to be followed during maintenance under the supervision of Maintenance Incharge. Please find below following safety practices need to be followed during maintenance on the roof.

- PPE ( Personal Protective Equipment ) should be used at all times while working at height
- Extreme caution should be exercised while working on the roof
- Only competent and experienced workers and staff should be used for regular maintenance works
- Access ladders should reach at least one meter above the step off point
- Ladders are secured to the building and be on a firm base
- Workers should not step on skylights on the roof
- While walking on the roof, step in the valleys of the panel, not on the ribs
- Whenever possible, walk directly on the screw line and also on the purlin line
- Areas of roof subject to frequent access shall be protected by temporary or permanent walkways
- When maintaining overhead crane runways, immobilize the crane before the commencement of work



### IBPL Experience for Mountain Living:

Interarch is well positioned as the preferred choice of the Steel Structure construction to ensure the world-class quality of work, commitment to the schedule and adherence to safe work at the site.

Interarch have successfully executed buildings having challenging nature of construction and time bound construction like Office Building, Low rise Residential Building, Dispensary, Farmhouse, Resort & Villas, Site Office, Guest House & dormitory building.

S. No.	Client Name	Building Usage	Location	State
1	GMR Group	G+2 Office Building	Chamba	Himachal Pradesh
2	GMR Group	Officer's Colony	Chamba	Himachal Pradesh
3	Club One Estates	G+4 Residential Building	Shimla	Himachal Pradesh
4	Shrestha Construction Company	Site Office	Nepal	Nepal
5	Manjit Singh	Farm House	Almora	Uttarakhand
6	Sri Aurobindo Ashram	G+1 Residential Building	Nainital	Uttarakhand
7	Dec- Hom	G+1 Residential Building	Nainital	Uttarakhand
8	GMR Group	Dispensary Building	Chamba	Himachal Pradesh
9	Hi-Tech Suttlej Motors	Car Showroom & Workshop	Kullu	Himachal Pradesh
10	Bhowali Resort	Resort	Bhowali	Uttarakhand



### Delivered Time bound project for GMR Group in Chamba, Himachal Pradesh:

Interarch has successfully delivered multiple buildings for GMR Bajoli Holi Hydro Power Pvt Ltd in Chamba Himachal Pradesh with a project area of over 2050 Sqm. GMR Bajoli Holi is the group's first hydropower project. Interarch had considered highest safety standards practice for their Officer's Colony, G+1 Residential Building, Dispensary, Guest House & Project Office building through innovative Light Building System and Hybrid Steel Structure System.

This high elevation project site is constrained by difficult terrains, adverse climatic conditions and Logistic issue and required innovation engineering, light weight, fast and sustainable building construction. To ensure time bound construction and world-class quality, they partnered with Interarch as their preferred vendor for the Steel Structure construction for their multiple building.



Project Won	Project Completed
<ul style="list-style-type: none"> <li>• Indospace Industrial Park Pvt Ltd in Haryana</li> <li>• Tata Toyo Radiator Ltd in Maharashtra</li> <li>• Sekisui DLJM Molding Pvt Ltd in Gujarat</li> <li>• Aparna Enterprises Ltd in Telangana</li> <li>• Diversitech General Engineering Pvt Ltd in Madhya Pradesh</li> <li>• Page Industries Ltd in Andhra Pradesh</li> <li>• Tata Autocomp GY Batteries Pvt Ltd in Maharashtra</li> </ul>	<ul style="list-style-type: none"> <li>• Sigma Electric Manufacturing Pvt Ltd in Maharashtra</li> <li>• Kach Motors Pvt Ltd in Madhya Pradesh</li> <li>• Radiant Indus Chem Pvt Ltd in Maharashtra</li> <li>• Asian Paints Ltd in Andhra Pradesh</li> <li>• Accumen Laminators LLP in Uttar Pradesh</li> <li>• BDG Polysteel Ltd in West Bengal</li> <li>• Bhagyashree Logistics in Gujarat</li> </ul>

### Training at Interarch:

Interarch organized training on "Health & Awareness program & Quality Assurance Policy awareness program" in Tamil Nadu plant



